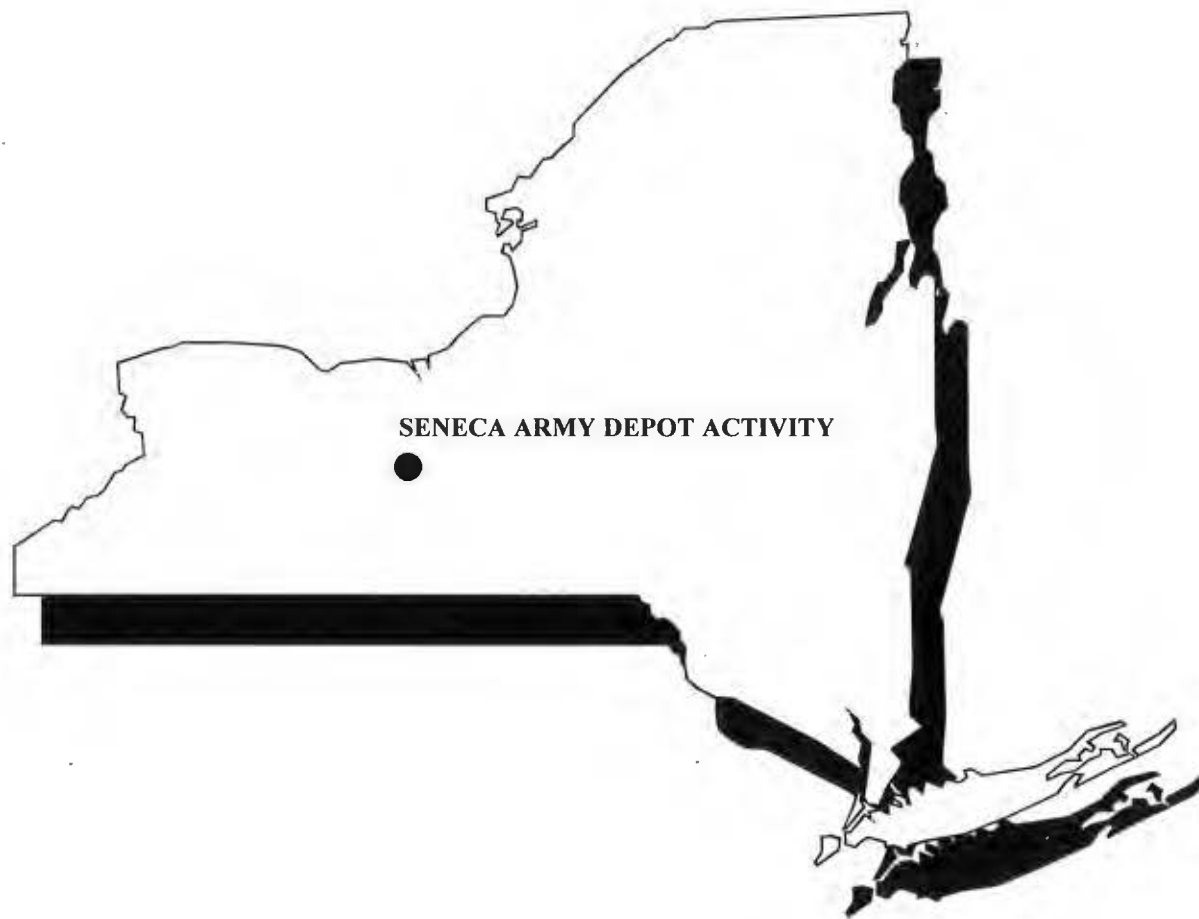
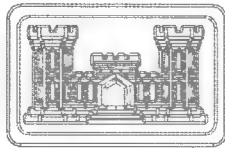


U.S. ARMY ENGINEER DIVISION  
HUNTSVILLE, ALABAMA

00749

36



**FINAL**

REMEDIAL INVESTIGATION REPORT  
AT THE RADIOLOGICAL WASTE BURIAL SITES (SEAD-12)  
VOLUME II OF III - APPENDICES A THROUGH G

CONTRACT NO. DACA87-95-D-0031  
DELIVERY ORDER NO. 0005

REVISED AUGUST 2002





**SENECA ARMY DEPOT ACTIVITY  
REVISED FINAL RI REPORT – AUGUST 2002  
Instructions to Complete Edit/Update to Revised Final Document**

Please find enclosed the following items to update the February 2002 final document to the August 2002 revised final document.

- A. Update cover and spine for the Remedial Investigation Report.
- B. Contents: Reissued content pages x, xix, and xiv. Replace previous pages.  
Replace the front pages of Volume II and Volume III with page xiv.
- C. Section 7: Reissued Tables 7-2 through 7-8. Replace the previous tables.  
Reissued Section 7 starting from page 7-34 (including Table 7-9).  
Replace the previous pages (page 7-34 through the end of Section 7).
- D. Appendix M: Reissued the cover pages and Tables M.106 through M.115.  
Replace the previous Tables M.106 through M.111.
- E. Appendix N: Please add the tab for Appendix N between the last page of the field notes in Appendix M and the first page of response to comments (response to August 1, 2000 Comments)
- F. Please add the responses to comments dated August 27, 2002 to the end of Appendix N.

If you have any questions please contact Jacqueline Travers at (781) 401-2535.



August 28, 2002

Commander  
U.S. Army Corps of Engineers  
Engineering and Support Center, Huntsville  
ATTN: CEHNC-FS-IS (Marshall Greene)  
4820 University Square  
Huntsville, AL 35816-1822

**SUBJECT: Seneca Army Depot Activity – Revised Final Remedial Investigation Report for Building 804 and Associated Radioactive Waste Burial Sites (SEAD-12) Contract DACA87-95-0031**

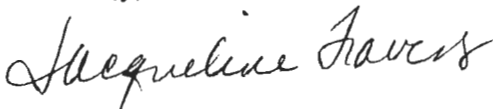
Dear Mr. Greene:

Parsons is pleased to submit responses to comments from USEPA on the Final Remedial Investigation Report for Building 804 and the Associated Radioactive Waste Burial Sites (SEAD-12) at the Seneca Army Depot Activity located in Romulus, New York dated July 2002. Please find enclosed replacement pages to update the RI report and Appendices. Instructions are provided.

This work was performed in accordance with the Scope of Work (SOW) for Delivery Order 0005 to the Parsons Contract DACA87-95-0031.

Parsons appreciates the opportunity to provide you with this report. Should you have any questions regarding these replacements to the final document, please do not hesitate to call me at (781) 401-2535 to discuss them.

Sincerely,



Jacqueline Travers, P.E.  
Task Order Manager

cc: S. Absolom, SEDA  
J. Mullikin, USACHPPM  
T. Sydelko, Argonne Nat'l Lab  
Document Distribution, MRD  
K. Healy, USACE

K. Hoddinott, USACHPPM  
T. Enroth, USACE  
C. Kim, USAEC  
B. Wright, USAIOC





February 11, 2002

Commander  
U.S. Army Corps of Engineers  
Engineering and Support Center, Huntsville  
ATTN: CEHNC-FS-IS (Marshall Greene)  
4820 University Square  
Huntsville, AL 35816-1822

**SUBJECT: Seneca Army Depot Activity – Revised Final Remedial Investigation Report for Building 804 and Associated Radioactive Waste Burial Sites (SEAD-12).**

---

Dear Mr. Greene:

Parsons Engineering Science (Parsons) is pleased to submit responses to comments from USEPA on the Final Remedial Investigation Report for Building 804 and the Associated Radioactive Waste Burial Sites (SEAD-12) at the Seneca Army Depot Activity located in Romulus, New York dated November 2001. Please find enclosed replacement pages to update the RI report and Appendices. Instructions are provided.

This work was performed in accordance with the Scope of Work (SOW) for Delivery Order 0005 to the Parsons ES Contract DACA87-95-0031.

Parsons appreciates the opportunity to provide you with this report. Should you have any questions regarding these replacements to the final document, please do not hesitate to call me at (781) 401-2535 to discuss them.

Sincerely,

**PARSONS ENGINEERING SCIENCE, INC.**



Jacqueline Travers, P.E.  
Task Order Manager

cc: S. Absolom, SEDA  
J. Mullikin, USACHPPM  
T. Sydelko, Argonne Nat'l Lab  
Document Distribution, MRD  
K. Healy, USACE

K. Hoddinott, USACHPPM  
T. Enroth, USACE  
C. Kim, US AEC  
B. Wright, USAIOC



**SENECA ARMY DEPOT ACTIVITY  
REVISED FINAL RI REPORT – FEBRUARY 2002  
Instructions to Complete Edit/Update to revised final document**

Please find enclosed the following items to update the November 2001 final document to the February 2002 revised final document.

- A. Update cover and spine for the Remedial Investigation Report.
- B. Contents: Reissued content pages x and xix. Replace previous pages.  
Reissued all the reference pages. Replace the previous pages.
- C. Section 7: Reissued Table 7-2. Replace the previous table.  
Reissued Section 7 starting from page 7-33 (including Table 7-9).  
Replace the previous pages (page 7-33 through the end of Section 7).
- D. Appendix G: Reissued Table G-1. Replace the previous table.
- E. Appendix M: Reissued the cover pages and Tables 18, 19, 23, 40, 44, 60, 61, 99, 102, 103, and 106-111. Replace the previous tables and discard Tables 112-117.
- F. Please add the responses to comments to the end of Appendix N.

If you have any questions please contact Jacqueline Travers at (781) 401-2535.





**SENECA ARMY DEPOT ACTIVITY  
FINAL RI REPORT – NOVEMBER 2001  
Instructions to Complete Edit/Update to revised final document**

Please find enclosed the following items to update the January 2001 draft final document to the November 2001 final document.

- A. Update cover and spine for the Remedial Investigation Report.
- B. Contents: Reissued Contents. Replace previous Contents.
- C. Section 4: Reissued Pages 110 and 118. Replace previous pages.
- D. Section 6: Reissued Page 6-68, Table 6-5A, and all the sections (including tables) following Section 6.3.5.5 (including Section 6.3.5.5, Page 6-94). Replace previous pages and tables.
- E. Section 7: Reissued Section 7. Replace previous section.
- F. Appendix G: Reissued one cover page and Figure G-1. Replace previous cover page and insert Figure G-1 to the end of the cover pages.
- G. Appendix L: Reissued Tables L-3A, L-3B, L-3C, L-3D, L-3E, L-3F, L-3G, L-3H, L-4A, L-4B, L-4C, L-4D, L-4E, L-4F, L-4G, L-4H, L-8, and L-9. Replace previous tables.
- H. Appendix M: Reissued the cover pages and tables M.40 through M.117. Replace previous cover pages and tables.
- I. Please add the responses to comments to the end of Appendix N.

If you have any questions please contact Jacqueline Travers at (781) 401-2535.



**PARSONS ENGINEERING SCIENCE, INC.**

30 Dan Road • Canton, Massachusetts 02021-2809 • (781) 401-3200 • Fax: (781) 401-2575

February 13, 2001

Mr. Julio Vazquez  
USEPA Region II  
Superfund Federal Facilities Section  
290 Broadway, 18<sup>th</sup> Floor  
New York, NY 10007-1866

Ms. Alicia Thorne  
New York State Department of Environmental Conservation (NYSDEC)  
Bureau of Eastern Remedial Action  
Division of Hazardous Waste Remediation  
50 Wolf Road  
Albany, NY 12233-7010

**SUBJECT: Seneca Army Depot Activity - Draft Final Remedial Investigation Report for Building 804 and Associated Radioactive Waste Burial Sites (SEAD-12) - Replacement Section 6 and Replacement Pages to Appendix L.**

---

Dear Mr. Vazquez/Ms. Thorne:


Parsons Engineering Science (Parsons ES) is submitting a replacement Section 6 to the Draft Final Remedial Investigation Report for Building 804 and the Associated Radioactive Waste Burial Sites (SEAD-12) at the Seneca Army Depot Activity located in Romulus, New York. The draft final report was sent to you on February 2, 2001.

Parsons ES inadvertently sent an earlier version of Section 6 with the draft final report you received last week. This version did not adequately address US EPA's specific comment #4 on the human health risk assessment, concerning the exposure pathways considered in the risk assessment. The enclosed replacement Section 6 has been modified to address US EPA's comment. In addition, replacement pages for Appendix L are provided as well as an updated response to US EPA's comment.

Should you have any questions concerning these replacements to the draft final document, please do not hesitate to call me at (781) 401-2492 to discuss them.

Sincerely,

**PARSONS ENGINEERING SCIENCE, INC.**

  
Michael Duchesneau, P.E.  
Project Manager

Cc: S. Absolom, SEDA  
K. Hodinott - USACHPPM  
J. Mullikin - USACHPPM  
Document Distribution, MRD

T. Enroth, USACOE – NY District  
Maj. Sheets, USACOE  
C. Kim, USAEC

P:\pit\projects\Seneca\12ri\report\draftfinal\cvr\trd2.doc

02/13/01





SENECA ARMY DEPOT ACTIVITY  
DRAFT FINAL - REMEDIAL INVESTIGATION REPORT - February 2001  
Instructions to Complete Edit/ Update to draft final document

Please find enclosed the following items to update the February 2001 draft final document:

- 1) Section 6, reissued in total. Disregard previous Section 6.
- 2) Appendix L, reissued tables L-R1 through L-R11. This is the section of tables at the end of Appendix L after the blue divider sheet. Disregard previous L-RI through L-R12 tables.
- 3) Section 8, reissued Figure 8-3. Disregard previous Figure 8-3.
- 4) The Updated Response to Specific Comment #4 on the Human Health Risk Assessment should be added to the end of Appendix N.

If you have any Questions please contact Jacqueline Travers (781-401-2535) or Clifford Lippitt (781-401-2272)



**PARSONS ENGINEERING SCIENCE, INC.**

30 Dan Road • Canton, Massachusetts 02021-2809 • (781) 401-3200 • Fax: (781) 401-2575

February 2, 2000

Mr. Julio Vazquez  
USEPA Region II  
Superfund Federal Facilities Section  
290 Broadway, 18<sup>th</sup> Floor  
New York, NY 10007-1866

Ms. Alicia Thorne  
New York State Department of Environmental Conservation (NYSDEC)  
Bureau of Eastern Remedial Action  
Division of Hazardous Waste Remediation  
50 Wolf Road  
Albany, NY 12233-7010

**SUBJECT: Seneca Army Depot Activity - Draft Final Remedial Investigation Report for Building 804 and Associated Radioactive Waste Burial Sites (SEAD-12).**

---

Dear Mr. Vazquez/Ms. Thorne:

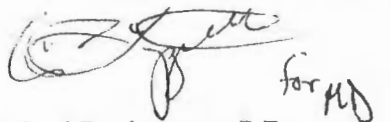
Parsons Engineering Science (Parsons ES) is pleased to submit the Draft Final Remedial Investigation Report for Building 804 and the Associated Radioactive Waste Burial Sites (SEAD-12) at the Seneca Army Depot Activity located in Romulus, New York.

In addressing comments from US EPA and NYSDEC, we are re-issuing Volume 1. Three replacement appendices (part of G, L, M) and one new appendix (N) have also been re-issued. Instructions for updating the RI document are attached.

Should you have any questions, please do not hesitate to call me at (781) 401-2492 to discuss them.

Sincerely,

**PARSONS ENGINEERING SCIENCE, INC.**



Michael Duchesneau, P.E.  
Project Manager

Cc: S. Absolom, SEDA  
K. Hoddinott - USACHPPM  
J. Mullikin - USACHPPM  
Document Distribution, MRD

T. Enroth, USACOE – NY District  
Maj. Sheets, USACOE  
C. Kim, USAEC

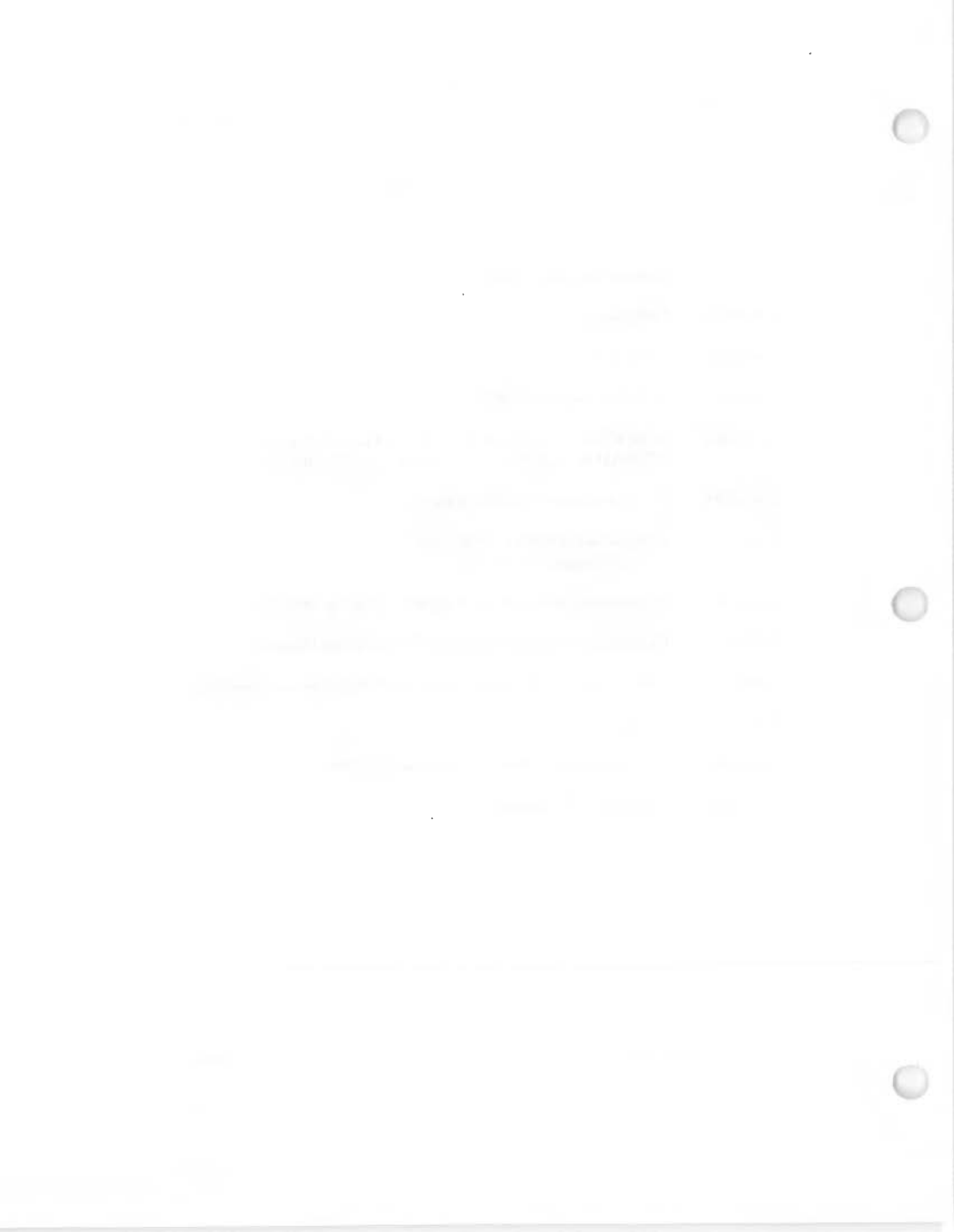




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**LIST OF APPENDICES**

- Appendix A    Radiation Scanning Survey
- Appendix B    Field Logs
- Appendix C    Survey Data
- Appendix D    Hydraulic Conductivity Results
- Appendix E    RESRAD Model Inputs and Output for DCGL Development  
(RESRAD Backup for Risk Assessment is found in Appendix L)
- Appendix F    Radiation (Gamma) Scanning Survey
- Appendix G    Background and Phase I RI Data Soil  
Chemical Inorganics Data-Soil
- Appendix H    Background, Phase I RI Chemical and Radiological Data-Sediment
- Appendix I    Background, Phase I RI Chemical and Radiological Data-Surface Water
- Appendix J    Background, Phase I RI Chemical and Radiological Data-Ground Water
- Appendix K    Soil Gas Data
- Appendix L    Human Health Risk Assessment Calculation Tables
- Appendix M    Ecological Risk Assessment



## **APPENDIX A**

### **RADIATION SCANNING SURVEY**

- **CERTIFICATES OF INSTRUMENTATION & SOURCE CALIBRATION**
- **DAILY FUNCTION CHECK PROCEDURE**
- **DAILY FUNCTION CHECK LOGS**



- **CERTIFICATES OF INSTRUMENTATION &  
SOURCE CALIBRATION**





REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
UNITED STATES ARMY MISSILE COMMAND  
REDSTONE ARSENAL, ALABAMA

AMSAM-TMD-SRN

U.S. Army Primary Standards Laboratories  
Radiation Standards and Dosimetry Laboratory

REPORT OF CALIBRATION

Radiation Survey System

Consisting of

Bicron Model ANALYST Survey Meter, S/N A983P  
Bicron Model G5 FIDLER Probe, S/N A394Q

For

Radiological Assistance Team - Seneca  
5786 State Route 96  
Romulus, NY 14541-5001

The instrument was electronically calibrated using a Ludlum Model 500 pulse generator, then checked with  $^{241}\text{Am}$  and  $^{226}\text{Ra}$  sources with calibration traceable to the National Institute of Standards and Technology (NIST). This instrument calibration, traceable to NIST, has an uncertainty of +/- 10 percent.

Steve Rogers  
Team Leader, Nucleonics Section  
In Charge of Calibration  
DSN 746-1302

Calibration Rept No. WOMGAA200R  
Date: 14 August 1997  
Page 1 of 3

Richard McGeorge  
Rad Stds and Dos Lab  
U.S. Army Pri Stds Lab Dir



## CALIBRATION RESULTS

## Electronic Calibration

Meter Range	Applied (CPM)	Init Meter Reading	Adjust? (Y/N)	Final Meter Reading	Corr Factor	Avg Corr Factor
1000	400K			410K	0.98	0.99
	100K	90K	Y	100K	1.0	
100	40K	39K			1.03	1.015
	10K	10K	N		1.0	
10	4K	3.9K			1.03	1.015
	1K	1.0K	N		1.0	
1	400	390			1.03	1.015
	100	100	N		1.0	



CALIBRATION RESULTS

Radioactive Source Checks

The activity of the <sup>241</sup>Am source is 7 μCi. The activity of the <sup>226</sup>Ra source is 10 μCi. The distance from the source to the bottom face of the probe was 12 inches. The cardboard protective cover (if present) was removed from the probe face.

1. <sup>241</sup>Am: Analyzer switch set to Channel 1

Gross Count Rate: 109 KCPM  
Background Count Rate: 6.6 KCPM  
Net Count Rate: 102.4 KCPM  
Detector Sensitivity: 14.64 KCPM / μCi

2. <sup>226</sup>Ra: Analyzer switch set to Channel 2

Gross Count Rate: 34.2 KCPM  
Background Count Rate: 0.7 KCPM  
Net Count Rate: 33.5 KCPM  
Detector Sensitivity: 3.35 KCPM / μCi

3. <sup>241</sup>Am and <sup>226</sup>Ra together: Analyzer switch set to Out

Gross Count Rate: 272 KCPM  
Background Count Rate: 7.4 KCPM  
Net Count Rate: 264.6 KCPM =  $3.774 \times 10^7$  dpm  
*17 μCi = 3.774 x 10<sup>7</sup> dpm*  
*1 cpm = 142.63 dpm*

No <sup>241</sup>Am activity was identified with the analyzer set to channel 2.

# CERTIFICATE OF CALIBRATION (COUNT-RATE INSTRUMENT)

**RSA Laboratories, Inc.**

19 Pendleton Drive, P.O. Box 61  
Hebron, Connecticut 06248  
(203) 228-0721 Fax (203) 228-4402

Customer and Contact: Radiation Safety Associates, Inc. Attn: K. Paul Steinmeyer (860) 228-0487

Customer Address: P.O. Box 107, 19 Pendleton Drive, Hebron, CT 06248

Inst. Mfr. & Model Ludlum Model 12

Inst. Type Count Rate Meter

Inst. s/n 102850

Det. Mfr. & Model Ludlum 44-62-2

Type Gamma Scintillator

Det. s/n 144955

Cal. Date 29 September 1997

Due Date 29 March 1998

Cal. Interval 6 Months

Environmental conditions: Temperature: 79°F Relative Humidity 48% Atmospheric Pressure 28.67 inches Hg

Pre-calibration Checks:

- Contamination survey
- Battery check
- Slow response check
- Mechanical check
- Audio check
- Window operation
- Det. volts 950 Vdc
- Meter zero
- Reset check
- Plateau check
- Input sens. 10 mV
- Geotropism check
- Fast response check
- Alarm set

Pulse generator s/n 94926

Oscilloscope s/n 171-04928

Voltmeter s/n 57410002

HV Readout (2 points) Ref./Inst. 500V/ 500V Ref./Inst. 1500V/ 1500V

Comments: Local background = 900 cpm. Response to <sup>137</sup>Cs = 66 cpm per mR/h. Response to <sup>226</sup>Ra = 15 cpm per mR/h.  
Check source (<sup>137</sup>Cs #4) = 24,000 cpm in contact with "yellow" side of source.

S/N of source used for precision check #6

Isotope Cs-137

Dedicated Source?  Yes  No

Reading #1 17,000 cpm

Reading #2 17,000 cpm

Reading #3 17,000 cpm

Mean 17,000 cpm

Precision:  ± < 10%  ± 10-20%  Out of tolerance

Range Multiplier	Reference Calibration Point	Instrument Indication
x 1000	400,000 cpm	400,000 cpm
x 1000	100,000 cpm	100,000 cpm
x 100	40,000 cpm	40,000 cpm
x 100	10,000 cpm	10,000 cpm
x 10	4,000 cpm	4,000 cpm
x 10	1,000 cpm	1,000 cpm
x 1	400 cpm	400 cpm
x 1	100 cpm	100 cpm

All ranges calibrated electronically.

Range Multiplier	Cal. Source Used (isotope and S/N)	Source Activity (dpm)	Instrument Reading (cpm)	Instrument Efficiency (%)
x 10	I-125 (mock) #NES-186S-081963	129,870	1,200	0.23%
x 1000	Co-57 #DZ 994 (point source)	11,877,000	440,000	3.7%
x 100	Ba-133 #1652 (wide source)	1,422,646	39,000	2.7%
x 100	Cs-137 #A745 (wide source)	2,489,119	26,000	1.0%
x 10	Cs-137 #2887 (point source)	153,652	2,800	1.2%
N/A	Ra-226 (calculated for wide source)	N/A	N/A	0.22%
N/A	Ra-226 (calculated for point source)	N/A	N/A	0.26%

RSA Laboratories ID# 1527. Instrument indicates within ±10% of calibration points unless otherwise indicated. Source-to-detector entry window distance for efficiency determinations is 1 cm unless otherwise specified. RSA Laboratories, Inc. certifies that the above instrument has been calibrated with standards traceable to the National Institute of Standards and Technology, or have been derived from accepted values of natural physical constants, or have been derived by the ratio-type of calibration techniques.

Calibrated by: Paul R. Steinmeyer Paul R. Steinmeyer

Date 29 Sept 97

Reviewed by: [Signature]

Date 30 Sept 97

U. S. ARMY TMDE SUPPORT CENTER  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
ALPHA AND X-RAY SURVEY METER

MODEL: AN/PDR77 SERIAL NO.: 0034A  
ALPHA DETECTOR MODEL: DT-669/PDR-77 SERIAL NO.: 0034A  
X-RAY DETECTOR MODEL: DT-674/PDR-77 SERIAL NO.: 0034A  
SUBMITTED BY: W45916

This instrument was calibrated in accordance with TB9-6665-285-15 Army Calibration Program for Radiac Meters, TM11-6665-248-10 Operators Technical manual for Radiac Calibrator AN/UDM-6, and USATA 858 Calibration Procedure for Radiac Set AN/PDR-77.

The reference standards for this calibration are:

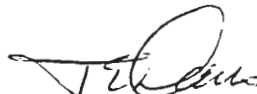
- a. AN/UDM-6, Pu<sup>239</sup>, 5.12 MeV Alpha, serial number A-1045.
- b. AN/UDM-11, AM<sup>241</sup>, 17 KeV and 60 KeV X-Ray, serial number EN468.

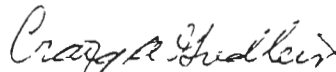
The measurements were performed under ambient conditions of approximately 20 degrees Celcius and 35 percent relative humidity.

Calibration uncertainty, including measurement errors and accuracy of reference standard(s), is estimated to be +/- 10 %.

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Report No. W45916-708D  
Cal Date: 03 April 1997  
Cal Due: 30 September 1997  
Phones: DSN 795-7255/7820  
Comm (717) 895-7255/7820

  
THOMAS E. DAVIS  
LRPO  
USATSC-Tobyhanna

  
CRAIG A. GREDLEIN  
Chief, ACL  
USATSC-Tobyhanna

### Alpha Probe (DT-669/PDR-77)

Radionuclide: Pu-239

Serial No. 0034A

<u>Applied</u>	<u>Reading</u>	<u>Correction Factor</u>
44.8 K-cpm	44.7 K-cpm	1.0022
7.37 K-cpm	6.50 K-cpm	1.1338
471 cpm	410 cpm	1.1488
* Check Source	5.03 K-cpm	N/A

\* Check Source (TH-232) measurement obtained with Alpha Side up, centered, and flush against the detector.

### X-Ray Probe (DT-674/PDR-77)

Radionuclide: Am-241

Serial No. 0034A

Energy Select Position	Source Position	*Applied	*Reading	Correction
17 KeV	** Center	25.7 K-cpm	25.2 K-cpm	1.0198
17 KeV	***	Check source	1.26 K-cpm	N/A
60 KeV	** Center	45.8 K-cpm	45.3 K-cpm	1.0110
60 KeV	***	Check Source	2.93 K-cpm	N/A

\*Recorded values INCLUDE local background at TSC-Tobyhanna. Local backgrounds at time of test were:

17 KeV: 0.298 K-cpm      60 KeV: 1.11 K-cpm

\*\* Center measurements were obtained 12 inches directly above source.

\*\*\* Check Source (Th-232) measurement obtained with X-Ray side up, centered, and flush against detector.

Report No. W45916-708D

Cal Date: 03 April 1997

Cal Due: 30 September 1997

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: IM263 AN/PDR77 SERIAL NO: 0034A  
DETECTOR MODEL: DT616/VDR2 DETECTOR SERIAL NO: 0034A  
SUBMITTED BY: W45916

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

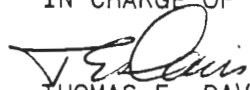
This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

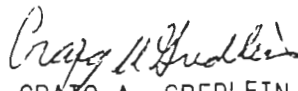
This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

# GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: TSC-SENECA                          OUIIC: W45916                          PUIC: W459TD  
 Manufacturer: IM263                         Meter Mdl: AN/PDR77                      SERIAL NO: 0034A

DETECTOR TYPE: G-M    MODEL #: DT616/VDR2    SERIAL # 0034A  
 Calibration Source(s)  
     MDL NO: 89-400    S/N: 8221    ISOTOPE/ENERGY/BEAM CODE: Cs137

CHECK SOURCE: NO                                DEDICATED SOURCE INDICATES:  
 FLUSH AGAINST DETECTOR:                      DISTANCE:                      0 CM BATTERY CHECK: OK

GEOMETRY



METER RANGE	APPLIED UNITS MR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
Low mR	0.0800	0.0000		0.0830	0.9638	0.9745
	0.8000	0.0000		0.8120	0.9852	
Low mR	8.0000	0.0000		8.1400	0.9828	0.9914
	20.0000	0.0000		20.0000	1.0000	
Low mR	80.0000	0.0000		80.3000	0.9962	1.0244
	200.0000	0.0000		190.0000	1.0526	
Low R	2.0000	0.0000		2.0000	1.0000	.N/A
High R	8.0000	0.0000		7.8200	1.0230	1.0296
	20.0000	0.0000		19.3000	1.0362	
High R	80.0000	0.0000		80.7000	0.9913	0.9931
	200.0000	0.0000		201.0000	0.9950	

\*NOTE: Meter indications in MR/HR

High Voltage:

DEAD TIME:

Calibration Report No. W45916708D

Sensitivity:

Cal constant:

Date Calibrated: 3 Apr 97

Calibration Due: 30 Sep 97

# CERTIFICATE OF CALIBRATION (COUNT-RATE INSTRUMENT)



**RSA Laboratories, Inc.**  
21 Pendleton Drive, P.O. Box 61  
Hebron, Connecticut 06248  
(860) 228-0721 Fax (860) 228-4402

Customer and Contact: Radiation Safety Associates, Inc. Attn: K. Paul Steinmeyer (860) 228-0487  
Customer Address: P.O. Box 107, 19 Pendleton Drive, Hebron, CT 06248  
Inst. Mfr. & Model Ludlum Model 3 Inst. Type Survey Meter Inst. s/n 94360  
Det. Mfr. & Model Ludlum 44-9 Det. Type G-M Pancake Det. s/n 092307  
Cal. Date 17 October 1997 Due Date 17 April 1998 Cal. Interval 6 months

Environmental conditions: Temperature: 70°F Relative Humidity 43% Atmospheric Pressure 29.53 inches Hg

**Pre-calibration Checks:**

- Contamination survey
- Mechanical check
- Meter zero
- Geotropism check
- Battery check
- Audio check
- Reset check
- Fast response check
- Slow response check
- Window operation
- Plateau check
- Alarm set
- Det. volts 900 Vdc
- Input sens. 33 mV
- Pulse generator s/n 94926
- HV Readout
- Oscilloscope s/n 171-04928
- Voltmeter s/n 57410002

Comments: Th-230 efficiency determined with source in near-contact with detector grill. Local background = 50 cpm.

S/N of source used for precision check #6 Isotope Cs-137 Dedicated Source?  Yes  No  
Reading #1 30,000 cpm Reading #2 30,000 cpm Reading #3 30,000 cpm Mean 30,000 cpm  
Precision:  ± < 10%  ± 10-20%  Out of tolerance

Range Multiplier	Reference Calibration Point	Instrument Indication
x 1000	400,000 cpm	400,000 cpm
x 1000	100,000 cpm	100,000 cpm
x 100	40,000 cpm	40,000 cpm
x 100	10,000 cpm	10,000 cpm
x 10	4000 cpm	4000 cpm
x 10	1000 cpm	1000 cpm
x 1	400 cpm	400 cpm
x 1	100 cpm	100 cpm

All ranges calibrated electronically.

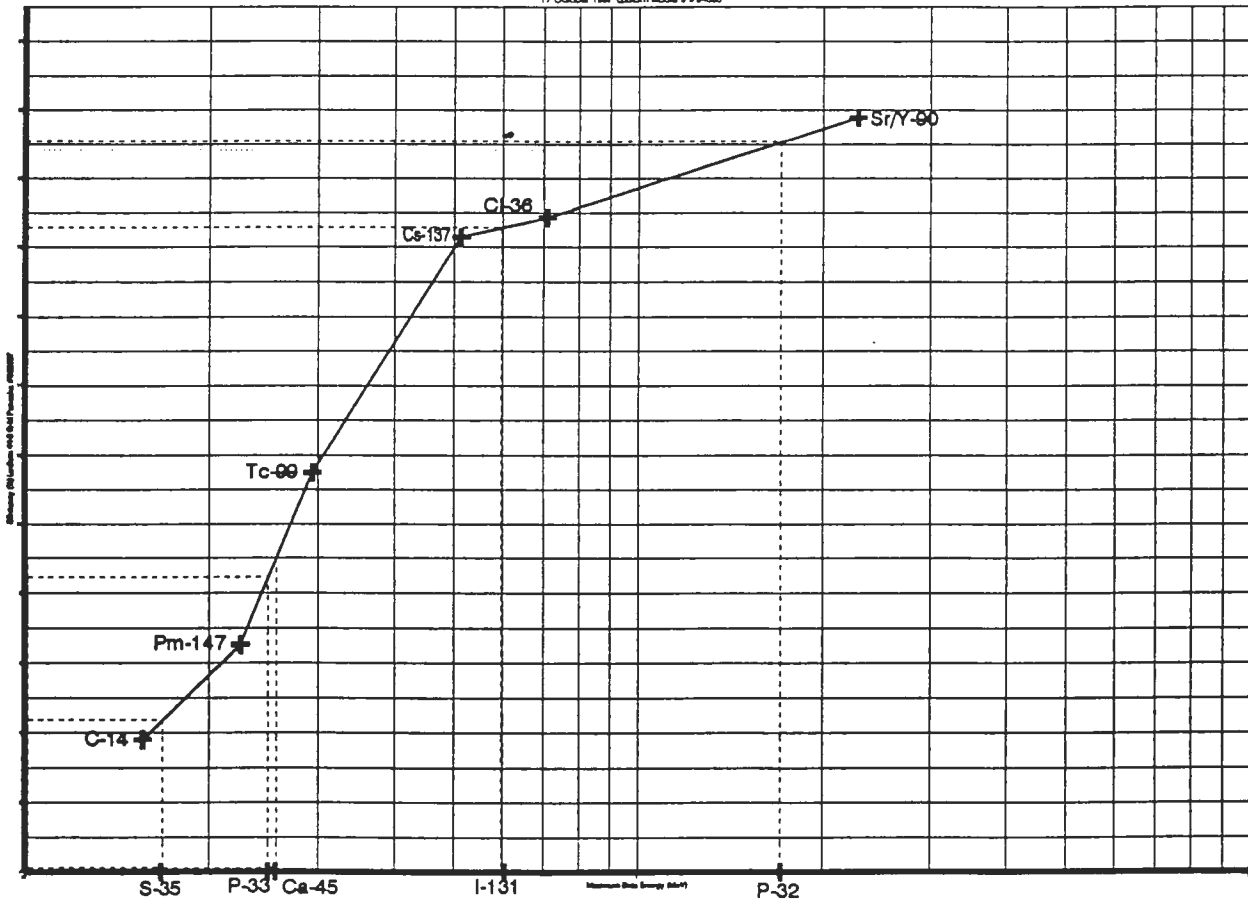
Local background (cpm) = 50

Range Multiplier	Cal. Source Used (isotope and S/N)	Source Activity (dpm)	Instrument Reading (cpm)	4σ Instrument Efficiency (%)
x 10	C-14 #D699	208,620	8000	3.81
x 1	Pm-147 #D703	16,101	1100	6.52
x 1	Tc-99 #D702	23,064	2700	11.49
x 1	Cs-137 #2886	21,039	3900	18.30
x 1	Cl-36 #D700	23,598	4500	18.86
x 10	Sr/Y-90 #D711	54,876	12,000	21.78
x 1	Th-230 #91TH2200210	38,900	6000	15.41

RSA Laboratories ID# 1567. Instrument indicates within ±10% of calibration points unless otherwise indicated. Source-to-detector entry window distance for efficiency determinations is 1 cm unless otherwise specified. RSA Laboratories, Inc. certifies that the above instrument has been calibrated with standards traceable to the National Institute of Standards and Technology, or have been derived from accepted values of natural physical constants, or have been derived by the ratio-type of calibration techniques.

Calibrated by: Paul R. Steinmeyer Date 17 Oct 97  
Reviewed by: DAVID L. JUDD Date 17 OCT 97

Interpolated Beta Efficiencies  
 17 October 1997 Ludlum Model 3 #9400



RSA Laboratories ID# 1567.

Calibrated by: Paul R. Steinmeyer Paul R. Steinmeyer

Date 17 Oct 97

Reviewed by: DAVID L. JUDD

Date 17 Oct 97



U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 3 SERIAL NO: 61402  
DETECTOR MODEL: 44-9 DETECTOR SERIAL NO: PR051754  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
ALPHA RADIAC SURVEY METER

MODEL: LUDLUM 3 SERIAL NO: 61402  
DETECTOR MODEL: 44-9 DETECTOR SERIAL NO: PR051754  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15 Army Calibration Program for Radiac Meters and TM-11-6665-248-10 Operators Technical Manual for Radiac Calibrator AN/UDM-6.

The reference standard for this is an AN/UDM-6 Plutonium 239 (Pu 239: 5.12 MeV. Alpha Particle) standard, serial number A-1501.

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10 %.

IN CHARGE OF TEST:

THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255

CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
ALPHA RADIAC SURVEY METER

MODEL: LUDLUM 3      SERIAL NO: 61402  
DETECTOR MODEL: 44-9      DETECTOR SERIAL NO: PR051754  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219. The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% . The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: SENECA  
 Manufacturer: LUDLUM

OUC: WOMG4G  
 Meter Mdl: 3

PUC: W459TD  
 SERIAL NO: 61402

DETECTOR TYPE: G-M MODEL #: 44-9 SERIAL # PR051754

Calibration Source(s)

MDL NO: 89-400 S/N: 8221 ISOTOPE/ENERGY/BEAM CODE: Cs137

PULSER MDL NO: Ludlum Model 500 Pulser S/N: 87219

CHECK SOURCE: NO

DEDICATED SOURCE INDICATES: N/A

FLUSH AGAINST DETECTOR: N/A

DISTANCE:

0 CM BATTERY CHECK: OK

GEOMETRY

/\ /-> [ ] -- [ ]

WINDOW: FIXED OPEN

METER RANGE	APPLIED UNITS MR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X100	50.0000	48.0000	N	48.0000	1.0416	0.9895
	150.0000	160.0000		160.0000	0.9375	
X10	5.0000	5.1000	N	5.1000	0.9803	0.9901
	15.0000	15.0000		15.0000	1.0000	
X1	0.5000	0.4900	N	0.4900	1.0204	1.0169
	1.5000	1.4800		1.4800	1.0135	
X0.1	0.0500	0.0490	N (*)	0.0490	1.0204	1.0204
	0.1500	0.1470		0.1470	1.0204	

\*NOTE: Meter indications in MR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.90 kV Sensitivity: 48 mV  
 DEAD TIME: Cal constant:  
 Calibration Report No. WOMG4G719D

Date Calibrated: 30 Oct 97  
 Calibration Due: 27 Feb 98

ALPHA SURVEY INSTRUMENT CALIBRATION REPORT

Alpha particle emission rate from the active surface of the source are:

Serial Number	Counts/Minutes	Uncertainty
P-1670 ATTENUATED	1,352 514	3.98%
P-1729 ATTENUATED	15,613 5,933	2.65%
P-1253 ATTENUATED	166,152 63,137	1.77%
P-1529 ATTENUATED	1,543,375 586,483	2.09%

Owner: SENECA	OUIC: W0MG4G	PUIC: W459TD
Manufacturer: LUDLUM	Meter Mdl: 3	Serial No: 61402
	Detector Mdl: 44-9	Serial No: PR051754

CAL SW 4:	DEAD TIME SW:	STD CURRENT:	hour SW:
CAL SW 3:	MIN SW:	Cal constant:	

Dedicated source indicates N/A      Battery check: OK      Alarm:

Meter Range	Source	Emission Rate (2pi) CPM	Meter (CPM) Indication	Corr Factor	Average Efficiency%
*0.1	P-1670	1,352	210.000	.N/A	16.521
	P-1670 ATTENUATED	514	90.000	.N/A	
*1.0	P-1729	15,613	2,300.000	.N/A	15.371
	P-1729 ATTENUATED	5,933	950.000	.N/A	
*10	P-1253	166,152	26,000.000	.N/A	16.535
	P-1253 ATTENUATED	63,137	11,000.000	.N/A	
*100	P-1529	1,543,375	150,000.000	.N/A	11.850
	P-1529 ATTENUATED	586,483	82,000.000	.N/A	

% Efficiency = Detector count rate (instrument indication on CPM scale X 100) divided by the 2pi source value.

\*note: Do not use for quantitative measurements.

HIGH VOLTAGE: 0.90 kV

CALIBRATION REPORT NO. W0MG4G719D

Date Calibrated: 30 Oct 97  
Calibration Due: 27 Feb 98

USATSC-TOBYHAMMA  
ATTN: USATSC-TOBYHAMMA  
11 EAST ARMY AVENUE  
TOBYHAMMA, PA 17140-7101

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

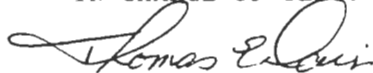
This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.13 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

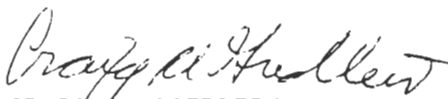
This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

AMSM - TMC - 1A-1  
11 BAL AR - 6665-285-15  
PHOENIX, PA 15405-7114

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219.

The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% .

The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Model: 5000 M... Serial: 110987

DETECTOR: NaI Model #: N/A SERIAL = N/A
Calibration Source:
MDL NO: 89-400 S/N: 8221 ISOTOPE/ENERGY/BEAM CODE: Cs137
PULSER MDL NO: Ludlum Model 500 Pulser S/N: 87219

CHECK SOURCE: NO DEDICATED SOURCE INDICATES: N/A
FLUSH AGAINST DETECTOR: N/A DISTANCE: 0 CM BATTERY CHECK: LOW - REPLACE!

GEOMETRY



Table with 7 columns: METER RANGE, APPLIED UNITS uR/HR, INIT METER READING, ADJUST (Y/N), FINAL METER READING, CORR FACTOR, AVG CORR FACTOR. Rows include X5000, X500, X250, X50, and X25.

\*NOTE: Meter indications in uR/HR
The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.79 kV Sensitivity: 140 mV
DEAD TIME: Cal constant: Date Calibrated: 29 Aug 96
Calibration Report No. WOMG4G706D Calibration Due: 27 Dec 96



U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

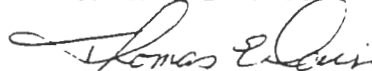
This instrument was calibrated in accordance with TBS-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.13 Ci Cesium 137 source (CS137) .662 mev, SER = 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S. ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TBS-666J-235-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.13 Ci Cesium 137 source (CS137) .662 mev, SER = 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

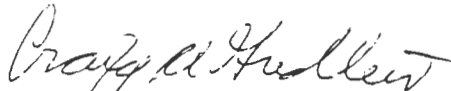
This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPC, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219.

The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% .

The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.13 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
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CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

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11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219.

The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% .

The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

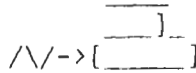
Owner: SENECA RADIAC                      OUC: WOMG4G                      PUIC: W459TD  
 Manufacturer: LUDLUM                      Meter Mdl: 19                      SERIAL NO: 109380

DETECTOR TYPE: NaI(Tl)    MODEL #: N/A    SERIAL # N/A  
 Calibration Source(s)

MDL NO: 89-400    S/N: 8221    ISOTOPE/ENERGY/BEAM CODE: Cs137  
 PULSER MDL NO: Ludlum Model 500 Pulser    S/N: 87219

CHECK SOURCE: NO                      DEDICATED SOURCE INDICATES: N/A  
 FLUSH AGAINST DETECTOR: N/A              DISTANCE:              0 CM BATTERY CHECK: LOW - REPLACED

GEOMETRY



WINDOW: NONE

METER RANGE	APPLIED UNITS uR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X5000	1,000.0000	960.0000	Y	1,000.0000	1.0000	1.0128
	4,000.0000	3,560.0000		3,900.0000	1.0256	
X500	100.0000	110.0000	Y	104.0000	0.9615	1.0070
	400.0000	411.0000		380.0000	1.0526	
X250	50.0000	53.0000	Y (*)	50.0000	1.0000	1.0000
	200.0000	211.0000		200.0000	1.0000	
X50	10.0000	10.3000	Y (*)	10.0000	1.0000	1.0000
	40.0000	42.5000	(*)	40.0000	1.0000	
X25	5.0000	5.3000	Y (*)	5.0000	1.0000	1.0000
	20.0000	21.2000	(*)	20.0000	1.0000	

\*NOTE: Meter indications in uR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.79 kV              Sensitivity: 140 mV  
 DEAD TIME:                      Cal constant:

Date Calibrated: 29 Aug 96  
 Calibration Due: 27 Dec 96

Calibration Report No. WOMG4G706D

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109950  
DETECTOR MODEL: INTERNAL DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19      SERIAL NO: 109950  
DETECTOR MODEL: INTERNAL      DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219. The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% . The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.



GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: SENECA RADIAC                      OUIIC: WOMG4G                      PUIC: W459TD  
 Manufacturer: LUDLUM                      Meter Mdl: 19                      SERIAL NO: 109950

DETECTOR TYPE: NaI(Tl)    MODEL #: INTERNAL    SERIAL # N/A  
 Calibration Source(s)  
 MDL NO: 89-400    S/N: 8221    ISOTOPE/ENERGY/BEAM CODE: Cs137  
 PULSER MDL NO: Ludlum Model 500 Pulser    S/N: 87219

CHECK SOURCE: NO                      DEDICATED SOURCE INDICATES: N/A  
 FLUSH AGAINST DETECTOR: N/A                      DISTANCE:                      0 CM BATTERY CHECK: OK

WINDOW: NONE

GEOMETRY

INTERNAL DET    / \ / -> [  ]

METER RANGE	APPLIED UNITS uR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X5000	1,000.0000	750.0000	Y	960.0000	1.0416	0.9859
	4,000.0000	3,200.0000		4,300.0000	0.9302	
X500	100.0000	102.0000	N	102.0000	0.9803	1.0165
	400.0000	380.0000		380.0000	1.0526	
50	50.0000	0.0000	Y (*)	50.0000	1.0000	1.0050
	200.0000	210.0000		198.0000	1.0101	
X50	10.0000	10.5000	Y (*)	10.0000	1.0000	1.0000
	40.0000	43.5000		(*)	40.0000	
X25	5.0000	5.3000	Y (*)	5.0000	1.0000	1.0000
	20.0000	21.8000		(*)	20.0000	

\*NOTE: Meter indications in uR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.83 kV                      Sensitivity: 80 mV  
 DEAD TIME:                      Cal constant:  
 Calibration Report No. WOMG4G703D

Date Calibrated: 29 Apr 97  
 Calibration Due: 27 Aug 97

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109962  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.


This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

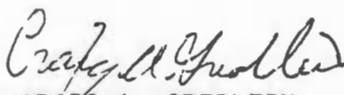
The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:

  
THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255

  
CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109962  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219.

The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% .

The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: SENECA RADIAC  
 Manufacturer: LUDLUM

OUIC: W0MG4G  
 Meter Md1: 19

PUIC: W459TD  
 SERIAL NO: 109962

DETECTOR TYPE: NaI(Tl) MODEL #: N/A SERIAL # N/A  
 Calibration Source(s)

MDL NO: 89-400 S/N: 8221 ISOTOPE/ENERGY/BEAM CODE: Cs137  
 PULSER MDL NO: Ludlum Model 500 Pulser S/N: 87219

CHECK SOURCE: NO DEDICATED SOURCE INDICATES: N/A  
 FLUSH AGAINST DETECTOR: N/A DISTANCE: 0 CM BATTERY CHECK: OK

WINDOW: NONE

GEOMETRY



METER RANGE	APPLIED UNITS uR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X5000	1,000.0000	700.0000	Y	910.0000	1.0989	1.0256
	4,000.0000	3,200.0000		4,200.0000	0.9523	
X500	100.0000	100.0000	N	100.0000	1.0000	1.0263
	400.0000	380.0000		380.0000	1.0526	
X250	50.0000	0.0000	Y (*)	50.0000	1.0000	1.0050
	200.0000	218.0000		198.0000	1.0101	
X50	10.0000	11.0000	Y (*)	10.0000	1.0000	1.0000
	40.0000	44.0000	(*)	40.0000	1.0000	
X25	5.0000	5.4000	Y (*)	5.0000	1.0000	1.0000
	20.0000	22.2000	(*)	20.0000	1.0000	

\*NOTE: Meter indications in uR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.78 kV Sensitivity: 80 mV  
 DEAD TIME: Cal constant:  
 Calibration Report No. W0MG4G704D

Date Calibrated: 29 Apr 97  
 Calibration Due: 27 Aug 97

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19      SERIAL NO: 109978  
DETECTOR MODEL: INTERNAL      DETECTOR SERIAL NO:  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

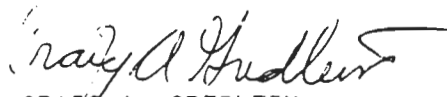
This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19      SERIAL NO: 109978  
DETECTOR MODEL: INTERNAL      DETECTOR SERIAL NO:  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219.

The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% .

The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: SENECA RADIAC  
 Manufacturer: LUDLUM

OUIC: WOMG4G  
 Meter Mdl: 19

PUIC: W459TD  
 SERIAL NO: 109978

DETECTOR TYPE: NaI(Tl) MODEL #: INTERNAL SERIAL #

Calibration Source(s)

MDL NO: 89-400 S/N: 8221 ISOTOPE/ENERGY/BEAM CODE: Cs137  
 PULSER MDL NO: Ludlum Model 500 Pulser S/N: 87219

CHECK SOURCE: NO DEDICATED SOURCE INDICATES: N/A  
 FLUSH AGAINST DETECTOR: N/A DISTANCE: 0 CM BATTERY CHECK: None supplied

WINDOW: NONE

GEOMETRY



METER RANGE	APPLIED UNITS uR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X5000	1,000.0000	700.0000	Y	950.0000	1.0526	1.0025
	4,000.0000	3,000.0000		4,200.0000	0.9523	
X500	100.0000	106.0000	N	106.0000	0.9433	1.0272
	400.0000	360.0000		360.0000	1.1111	
250	50.0000	50.0000	N (*)	50.0000	1.0000	1.0000
	200.0000	200.0000		200.0000	1.0000	
X50	10.0000	10.0000	N (*)	10.0000	1.0000	1.0000
	40.0000	40.0000		(*)	40.0000	
X25	5.0000	5.0000	N (*)	5.0000	1.0000	1.0000
	20.0000	20.0000		(*)	20.0000	

\*NOTE: Meter indications in uR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 1.00 kV Sensitivity: 80 mV  
 DEAD TIME: Cal constant:  
 Calibration Report No. WOMG4G705D

Date Calibrated: 14 Mar 97  
 Calibration Due: 12 Jul 97

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

*WOMG4G*

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820



U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109980  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219. The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% . The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: SENECA RADIAC                      OUIIC: W0MG4G                      PUIIC: W459TD  
 Manufacturer: LUDLUM                      Meter Md1: 19                      SERIAL NO: 109980

DETECTOR TYPE: NaI(Tl)    MODEL #: N/A    SERIAL # N/A  
 Calibration Source(s)  
 MDL NO: 89-400    S/N: 8221    ISOTOPE/ENERGY/BEAM CODE: Cs137  
 PULSER MDL NO: Ludlum Model 500 Pulser    S/N: 87219

CHECK SOURCE: NO                      DEDICATED SOURCE INDICATES: N/A  
 FLUSH AGAINST DETECTOR: N/A                      DISTANCE:                      0 CM BATTERY CHECK: OK

WINDOW: NONE

GEOMETRY



METER RANGE	APPLIED UNITS uR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X5000	1,000.0000	700.0000	Y	930.0000	1.0752	1.0138
	4,000.0000	3,150.0000		4,200.0000	0.9523	
X500	100.0000	110.0000	Y	105.0000	0.9523	1.0025
	400.0000	395.0000		380.0000	1.0526	
X250	50.0000	0.0000	Y (*)	50.0000	1.0000	1.0050
	200.0000	220.0000		198.0000	1.0101	
X50	10.0000	11.0000	Y (*)	10.0000	1.0000	1.0000
	40.0000	44.0000	(*)	40.0000	1.0000	
X25	5.0000	5.5000	Y (*)	5.0000	1.0000	1.0000
	20.0000	22.0000	(*)	20.0000	1.0000	

\*NOTE: Meter indications in uR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.70 kV                      Sensitivity: 80 mV  
 DEAD TIME:                      Cal constant:  
 Calibration Report No. W0MG4G706D

Date Calibrated: 29 Apr 97  
 Calibration Due: 27 Aug 97

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109912  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: SENECA  
 Manufacturer: LUDLUM

OUIC: WOMG4G  
 Meter Mdl: 19

PUIC: W459TD  
 SERIAL NO: 109912

DETECTOR TYPE: NaI(Tl) MODEL #: N/A SERIAL # N/A  
 Calibration Source(s)

MDL NO: 89-400 S/N: 8221 ISOTOPE/ENERGY/BEAM CODE: Cs137  
 PULSER MDL NO: Ludlum Model 500 Pulser S/N: 87219

CHECK SOURCE: NO DEDICATED SOURCE INDICATES: N/A  
 FLUSH AGAINST DETECTOR: N/A DISTANCE: 0 CM BATTERY CHECK: OK

WINDOW: NONE

GEOMETRY

INTERNAL DET  $\frac{\text{---}}{\text{---}}$   $\frac{\text{---}}{\text{---}}$

METER RANGE	APPLIED UNITS uR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X5000	1,000.0000	0.0000	Y	970.0000	1.0309	0.9916
	4,000.0000	2,650.0000		4,200.0000	0.9523	
X500	100.0000	105.0000	N	105.0000	0.9523	1.0025
	400.0000	380.0000		380.0000	1.0526	
X250	50.0000	50.0000	N (*)	50.0000	1.0000	1.0000
	200.0000	200.0000		200.0000	1.0000	
X50	10.0000	0.0000	Y (*)	10.0000	1.0000	1.0000
	40.0000	44.0000	(*)	40.0000	1.0000	
X25	5.0000	5.0000	N (*)	5.0000	1.0000	1.0000
	20.0000	20.0000	(*)	20.0000	1.0000	

\*NOTE: Meter indications in uR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.88 kV Sensitivity: 80 mV  
 DEAD TIME: Cal constant:  
 Calibration Report No. WOMG4G702D

Date Calibrated: 5 Sep 97  
 Calibration Due: 3 Jan 98

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109912  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219. The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% . The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109962  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: W0MG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac Meters.

The reference standard for this calibration is a J.L. Shepherd & Associates model 89-400 self-contained gamma calibrator containing one (1) 130mci and one (1) 400.00 Ci Cesium 137 source (CS137) .662 mev, SER # 8221, .08 MR/HR TO 800.0 R/HR. Calibrated 17 Jun 96

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

Calibration uncertainty, including measurement errors and accuracy of the reference standard is +/- 10% .

IN CHARGE OF TEST:



THOMAS E. DAVIS  
Engineering Technician  
LRPO, Nucleonics Laboratory  
DSN 795-7255



CRAIG A. GREDLEIN  
Chief, Area Calibration Laboratory Section  
USATSC-Tobyhanna  
DSN 795-7820

U.S ARMY TMDE SUPPORT CENTER-TOBYHANNA  
ATTN: AMSMI-TMDE-GA-T  
11 HAP ARNOLD BOULEVARD  
TOBYHANNA, PA 18466-5104

AREA SECONDARY NUCLEONICS LABORATORY  
REPORT OF CALIBRATION  
FOR  
RADIAC SET/SURVEY METER

MODEL: LUDLUM 19 SERIAL NO: 109962  
DETECTOR MODEL: N/A DETECTOR SERIAL NO: N/A  
SUBMITTED BY: WOMG4G

The measurements were performed under ambient conditions of approximately 20 degrees Celsius and 35 percent relative humidity.

This instrument was calibrated in accordance with TB9-6665-285-15, Army Calibration Program for Radiac meters.

The reference standards for this calibration are the MP-2 Eberline Mini Pulser, serial number 434 or the Ludlum Model 500 Pulser serial number 87219.

The accuracy of the MP-2 Pulser frequency is +/- 0.1% with an amplitude accuracy of +/- 10% .

The accuracy of the Model 500 pulser frequency is < 2% with an amplitude accuracy of +/- 10% .

This calibration is traceable to and compatible with National Institute of Standards and Technology (NIST) measurements.

GAMMA SURVEY INSTRUMENT CALIBRATION REPORT

Owner: SENECA  
 Manufacturer: LUDLUM

OUC: WOMG4G  
 Meter Mdl: 19

PUIC: W459TD  
 SERIAL NO: 109962

DETECTOR TYPE: NaI(Tl) MODEL #: N/A SERIAL # N/A  
 Calibration Source(s)

MDL NO: 89-400 S/N: 8221 ISOTOPE/ENERGY/BEAM CODE: Cs137  
 PULSER MDL NO: Ludlum Model 500 Pulser S/N: 87219

CHECK SOURCE: NO  
 FLUSH AGAINST DETECTOR: N/A

DEDICATED SOURCE INDICATES: N/A  
 DISTANCE: 0 CM BATTERY CHECK: OK

WINDOW: NONE

GEOMETRY

INTERNAL DET  $\backslash \ / \rightarrow [ \begin{array}{c} \text{---} \\ \text{---} \end{array} ]$

METER RANGE	APPLIED UNITS uR/HR	INIT METER READING	ADJUST (Y/N)	FINAL METER READING	CORR FACTOR	AVG CORR FACTOR
X5000	1,000.0000	970.0000	N	970.0000	1.0309	0.9827
	4,000.0000	4,280.0000		4,280.0000	0.9345	
X500	100.0000	105.0000	N	105.0000	0.9523	0.9825
	400.0000	395.0000		395.0000	1.0126	
X250	50.0000	0.0000	N (*)	50.0000	1.0000	1.0000
	200.0000	200.0000		200.0000	1.0000	
X50	10.0000	10.0000	N (*)	10.0000	1.0000	1.0000
	40.0000	40.0000		(*)	40.0000	1.0000
X25	5.0000	5.0000	N (*)	5.0000	1.0000	1.0000
	20.0000	20.0000		(*)	20.0000	1.0000

\*NOTE: Meter indications in uR/HR

The Ludlum Model 500 Pulser was used to Electronically calibrate the range and points identified with (\*).

High Voltage: 0.78 kV Sensitivity: 80 mV  
 DEAD TIME: Cal constant:  
 Calibration Report No. WOMG4G704D

Date Calibrated: 5 Sep 97  
 Calibration Due: 3 Jan 98





DEPARTMENT OF THE ARMY  
UNITED STATES ARMY MISSILE COMMAND  
REDSTONE ARSENAL, ALABAMA

REPLY TO  
ATTENTION OF

AMSAM-TMD-SRN

U.S. Army Primary Standards Laboratories  
Radiation Standards and Dosimetry Laboratory

REPORT OF CALIBRATION

Radiation Survey System

Consisting of

Bicron Model ANALYST Survey Meter, S/N A945P  
Bicron Model G5 FIDLER Probe, S/N A378Q

For

Radiological Assistance Team - Seneca  
5786 State Route 96  
Romulus, NY 14541-5001

The instrument was electronically calibrated using a Ludlum Model 500 pulse generator, then checked with  $^{241}\text{Am}$  and  $^{226}\text{Ra}$  sources with calibration traceable to the National Institute of Standards and Technology (NIST). This instrument calibration, traceable to NIST, has an uncertainty of +/- 10 percent.

Steve Rogers  
Team Leader, Nucleonics Section  
In Charge of Calibration  
DSN 746-1302

Calibration Rept No. WOMGAA204R  
Date: 14 August 1997  
Page 1 of 3

Richard McGeorge  
Rad Stds and Dos Lab  
U.S. Army Pri Stds Lab Dir



**CALIBRATION RESULTS**

Electronic Calibration

Meter Range	Applied (CPM)	Init Meter Reading	Adjust? (Y/N)	Final Meter Reading	Corr Factor	Avg Corr Factor
1000	400K			410K	0.98	0.99
	100K	140K	Y	100K	1.0	
100	40K	40K			1.0	1.0
	10K	10K	N		1.0	
10	4K	3.2K	Y	4.0K	1.0	1.0
	1K			1.0K	1.0	
1	400	400			1.0	1.0
	100	100	N		1.0	

## CALIBRATION RESULTS

## Radioactive Source Checks

The activity of the  $^{241}\text{Am}$  source is 7  $\mu\text{Ci}$ . The activity of the  $^{226}\text{Ra}$  source is 10  $\mu\text{Ci}$ . The distance from the source to the bottom face of the probe was 12 inches. The cardboard protective cover (if present) was removed from the probe face.

1.  $^{241}\text{Am}$ : Analyzer switch set to Channel 1  
Gross Count Rate: 60.4 KCPM  
Background Count Rate: 2.9 KCPM  
Net Count Rate: 57.5 KCPM  
Detector Sensitivity: 8.21 KCPM /  $\mu\text{Ci}$
  
2.  $^{226}\text{Ra}$ : Analyzer switch set to Channel 2  
Gross Count Rate: 47.7 KCPM  
Background Count Rate: 1.4 KCPM  
Net Count Rate: 46.3 KCPM  
Detector Sensitivity: 4.63 KCPM /  $\mu\text{Ci}$
  
3.  $^{241}\text{Am}$  and  $^{226}\text{Ra}$  together: Analyzer switch set to Out  
Gross Count Rate: 202 KCPM  
Background Count Rate: 6.3 KCPM  
Net Count Rate: 195.7 KCPM

No  $^{241}\text{Am}$  activity was identified with the analyzer set to channel 2.



DEPARTMENT OF THE ARMY  
UNITED STATES ARMY MISSILE COMMAND  
REDSTONE ARSENAL, ALABAMA

REPLY TO  
ATTENTION OF

AMSAM-TMD-SRN

U.S. Army Primary Standards Laboratories  
Radiation Standards and Dosimetry Laboratory

## REPORT OF CALIBRATION

Radiation Survey System

Consisting of

Bicron Model ANALYST Survey Meter, S/N A984P  
Bicron Model G5 FIDLER Probe, S/N A398Q

For

Radiological Assistance Team - Seneca  
5786 State Route 96  
Romulus, NY 14541-5001

The instrument was electronically calibrated using a Ludlum Model 500 pulse generator, then checked with  $^{241}\text{Am}$  and  $^{226}\text{Ra}$  sources with calibration traceable to the National Institute of Standards and Technology (NIST). This instrument calibration, traceable to NIST, has an uncertainty of +/- 10 percent.

Steve Rogers  
Team Leader, Nucleonics Section  
In Charge of Calibration  
DSN 746-1302

Calibration Rept No. WOMGAA202R  
Date: 14 August 1997  
Page 1 of 3

Richard McGeorge  
Rad Stds and Dos Lab  
U.S. Army Pri Stds Lab Dir



**CALIBRATION RESULTS**

Electronic Calibration

Meter Range	Applied (CPM)	Init Meter Reading	Adjust? (Y/N)	Final Meter Reading	Corr Factor	Avg Corr Factor
1000	400K	400K		410K	0.98	0.99
	100K	90K	Y	100K	1.0	
100	40K	40K			1.0	1.0
	10K	10K	N		1.0	
10	4K	4.0K			1.0	1.0
	1K	1.0K	N		1.0	
1	400	400			1.0	1.0
	100	100	N		1.0	

CALIBRATION RESULTS

Radioactive Source Checks

The activity of the <sup>241</sup>Am source is 7 μCi. The activity of the <sup>226</sup>Ra source is 10 μCi. The distance from the source to the bottom face of the probe was 12 inches. The cardboard protective cover (if present) was removed from the probe face.

1. <sup>241</sup>Am: Analyzer switch set to Channel 1

Gross Count Rate: 61.4 KCPM  
Background Count Rate: 4.0 KCPM  
Net Count Rate: 57.4 KCPM  
Detector Sensitivity: 8.20 KCPM / μCi

2. <sup>226</sup>Ra: Analyzer switch set to Channel 2

Gross Count Rate: 41.0 KCPM  
Background Count Rate: 1.1 KCPM  
Net Count Rate: 39.9 KCPM  
Detector Sensitivity: 3.99 KCPM / μCi

3. <sup>241</sup>Am and <sup>226</sup>Ra together: Analyzer switch set to Out

Gross Count Rate: 201 KCPM  
Background Count Rate: 6.1 KCPM  
Net Count Rate: 194.9 KCPM

No <sup>241</sup>Am activity was identified with the analyzer set to channel 2.

## *Calibration Certificate*

# 5699

Customer                     SENECA ARMY ACTIVITY DEPO                     Order Number                     30365                      
Date                     09/11/97                      
Instrument                     MICRO REM                     S/N                     C250A                    

### *Notes*

X1 and X.1 ranges calibrated electronically using Bicron Acceptance Procedure 1056930 (Electronic Pulse Method) as specified in the Micro Rem manual.

## Instrument Calibration Certificate

# 5699

Customer SENECA ARMY ACTIVITY DEPO Order Number 30365  
 Instrument MICRO REM S/N C250A - NEW

### Calibration Data

Range	Exposure Rate urem/h	Instrument Reading urem/h	% Error	Exposure Rate urem/h	Instrument Reading urem/h	% Error
X1000	160000	160000	0.0	40000	42000	5.0 %
X100	16000	16000	0.0	4000	4200	5.0 %
X10	1600	1600	0.0	400	410	2.5 %
X1	160	160	0.0	40.0	43.0	7.5 %
X0.1	16.0	16.0	0.0	4.00	4.20	5.0 %

Calibration Source Intensity at 1 meter 215.5 mR/h Date 07/25/97 Source to Detector Geometry perpendicular

Zero Check ok HV Check ok Threshold Set n/a

Battery Ok ok Scaler Rate Response +/- 1% n/a Geotropic Check +/- 2% ok

Reproducibility ok (Checked 3 times, identical conditions +/- 10%)

Check Source n/a Check Source Reading \_\_\_\_\_

Quality Assurance Review By: T.B. Date 09/11/97

Calibrated By J.H. Date 09/11/97

Re-Cal Due 03/11/97



## Calibration Certificate

# 5699

Customer                     SENECA ARMY ACTIVITY DEPO                     Order Number                     30365                      
Date                     09/11/97                      
Instrument                     MICRO REM                     S/N                     C250A                    

### TEST EQUIPMENT USED DURING CALIBRATION

Type	<u>DIGITAL MULTIMETER</u>	S/N	<u>91011730</u>	Re-Cal Due	<u>11/05/97</u>
Type	<u>FREQ. COUNTER</u>	S/N	<u>250TW10903</u>	Re-Cal Due	<u>02/03/98</u>
Type	<u>EBERLINE MINI PULSER MP-2</u>	S/N	<u>788</u>	Re-Cal Due	<u>                    </u>
Type	<u>J.L. SHEPHERD CS-137</u>	S/N	<u>10081</u>	Re-Cal Due	<u>10/25/97</u>

### PROCEDURES USED DURING CALIBRATION

Procedure Used                     QC ACCEPTANCE PROCEDURE #1056930                      
Procedure Used                       
Procedure Used                     

### LABORATORY CONDITIONS

Temperature                     21 °C                     Humidity                     52 %                     Air Pressure                     1016 mBar                     Elevation                     1036 FT.                    

Calibration Performed By                     *AKT*                    

The above referenced products have been manufactured and tested in accordance with the Bicron Electronic Products Quality Assurance Program. See attached data sheets for response information. The calibration performed above complies with ANSI N323 (Radiation Protection Instrumentation Test and Calibration), and all standards referenced are traceable to NIST.



## *Calibration Certificate*

# 5699

Customer           SENECA ARMY ACTIVITY DEPO           Order Number           30365            
Date           09/11/97            
Instrument           MICRO REM           S/N           C250A          

### *Notes*

X1 and X.1 ranges calibrated electronically using Bicron Acceptance Procedure 1056930 (Electronic Pulse Method) as specified in the Micro Rem manual.

## Instrument Calibration Certificate

# 5698

Customer SENECA ARMY ACTIVITY DEPO Order Number 30365  
 Instrument MICRO REM S/N C251A - NEW

### Calibration Data

Range	Exposure Rate urem/h	Instrument Reading urem/h	% Error	Exposure Rate urem/h	Instrument Reading urem/h	% Error
X1000	160000	160000	0.0	40000	41000	2.5 %
X100	16000	16000	0.0	4000	4100	2.5 %
X10	1600	1600	0.0	400	410	2.5 %
X1	160	160	0.0	40.0	42.0	5.0 %
X0.1	16.0	16.0	0.0	4.00	4.10	2.5 %

Calibration Source Intensity at 1 meter 215.5 mR/h Date 07/25/97 Source to Detector Geometry perpendicular

Zero Check ok HV Check ok Threshold Set n/a

Battery Ok ok Scaler Rate Response +/- 1% n/a Geotropic Check +/- 2% ok

Reproducibility ok (Checked 3 times, identical conditions +/- 10%)

Check Source n/a Check Source Reading \_\_\_\_\_

Quality Assurance Review By: T.B. Date 09/11/97

Calibrated By J.H. Date 09/11/97

Re-Cal Due 03/11/98

## Calibration Certificate

# 5698

Customer                     SENECA ARMY ACTIVITY DEPO                     Order Number                     30365                      
Date                     09/11/97                      
Instrument                     MICRO REM                     S/N                     C251A                    

### TEST EQUIPMENT USED DURING CALIBRATION

Type <u>DIGITAL MULTIMETER</u>	S/N <u>91011730</u>	Re-Cal Due <u>11/05/97</u>
Type <u>FREQ. COUNTER</u>	S/N <u>250TW10903</u>	Re-Cal Due <u>02/03/98</u>
Type <u>EBERLINE MINI PULSER MP-2</u>	S/N <u>788</u>	Re-Cal Due <u>                    </u>
Type <u>J.L. SHEPHERD CS-137</u>	S/N <u>10081</u>	Re-Cal Due <u>10/25/97</u>

### PROCEDURES USED DURING CALIBRATION

Procedure Used                     QC ACCEPTANCE PROCEDURE #1056930                      
Procedure Used                       
Procedure Used                     

### LABORATORY CONDITIONS

Temperature                     21° C                     Humidity                     52 %                     Air Pressure                     1016 mBar                     Elevation                     1036 FT.                    

Calibration Performed By                     *[Signature]*                    

The above referenced products have been manufactured and tested in accordance with the Bicron Electronic Products Quality Assurance Program. See attached data sheets for response information. The calibration performed above complies with ANSI N323 (Radiation Protection Instrumentation Test and Calibration), and all standards referenced are traceable to NIST.

## *Calibration Certificate*

# 5698

Customer           SENECA ARMY ACTIVITY DEPO           Order Number           30365            
Date           09/11/97            
Instrument                           MICRO REM                           S/N           C251A          

### *Notes*

X1 and X.1 ranges calibrated electronically using Bicron Acceptance Procedure 1056930 (Electronic Pulse Method) as specified in the Micro Rem manual.

TMA/Eberline Albuquerque Laboratory

7021 Pan American Hwy. NE

Albuquerque, NM 87109

(505) 345-3461 • FAX # (505) 761-5416

SHIPPER'S CERTIFICATION FOR RADIOACTIVE MATERIALS

"This package conforms to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package - limited quantity of material, UN 2910 and 49 CFR 173.422 for radioactive material, excepted package - instruments or articles, UN 2910."

I hereby certify that this package also conforms to all packaging requirements of the U.S. Department of Transportation and the International Air Transport Association (IATA) Rules and Regulations regarding the shipment of radioactive materials.

The materials are packed in strong, tight packages that will not leak during normal transport conditions, the radiation level on the exterior surface of the package does not exceed 0.5 mrem/hr., nonfixed (removable) contamination does not exceed applicable limits, and the outside of the inner container bears the marking "Radioactive".

No other labels are required.

SOURCE INFORMATION

Model No.	Isotope	Total Activity	Total Quantity	Serial No.
DNS-9	<sup>230</sup> Th <sup>99</sup> Tc <sup>137</sup> Cs	1.75µCi	6	1841-94,1039/92, 1845-94,1842-94, 1843-94,1844-94

Customer: Seneca Army Depot Activity

Romulus, NY 14541-5001

PO# W25GIV-4112-8406

SO# S-02845

  
 Authorized Signature

6/17/94  
 Date

**TMA**  
Thermo Analytical Inc

TMA/Eberline Albuquerque Laboratory

7021 Pan American Hwy. NE

Albuquerque, NM 87109

(505) 345-3461 • FAX # (505) 761-5416

CUSTOMER: Seneca Army Depot Activity

ADDRESS: Receiving Bldg 323  
Romulus, NY 14541-5001

Quality Control & Inspection

P.O. NUMBER: w25giv-4112-8406

TMA/EBERLINE S.O. NUMBER: S-02845

DATE SHIPPED: 6/17/84

CERTIFICATE OF COMPLIANCE

The radioactive sources or services comprising this order have been subjected to and have passed all examinations, inspections, tests and calibrations of the TMA/Eberline quality assurance procedures, and, as applicable, are in compliance with specifications imposed by the above referenced contract/purchase order number.

Calibration has been accomplished in accordance with TMA/Eberline calibration procedures. Sources for calibration and/or dose rates have calibration traceable to National Institute of Standards and Technology.

The undersigned as the authorized representative of TMA/Eberline warrants the information contained within this document to be a true statement of fact.

  
Quality Assurance Manager



TMA/Eberline Albuquerque Laboratory

7021 Pan American Hwy. NE

Albuquerque, NM 87109

(505) 345-3461 • FAX # (505) 761-5416

## CERTIFICATE OF CALIBRATION

### Gamma Standard

S.O.# S-02845  
P.O.# DAAC-72-94-V-0450

#### Description of Standard:

Model No. DNS-9 Serial No. 1844-94 Isotope Cesium-137

The source of gamma radiation is mounted on a 2.54 cm diameter PLASTIC disc,  
3 mm thick and ~~sealed~~.

#### Measurement Method:

The gamma ray emission rate was compared with a similar standard which was calibrated by NIST S/N 2753/91. This comparison of relative gamma ray emission rates was accomplished using a high resolution gamma-ray detector (nominal active volume 100 cm<sup>3</sup>) and a multichannel pulse height analyzer.

#### Measurement Result:

The gamma ray activity of the standard on 6/16/94 was 0.829  $\mu$ Cl.

The uncertainty of the measurement is 3.9 % which is the sum of the uncertainty assigned to the NIST reference standard ( 2.2%), random counting error at the 99% confidence level, and the estimated upper limit of systematic errors.

Calibrated by: Charles Lamborn

Reviewed by: Aileen Kiteery

Calibration technician: Charles Lamborn

Q.A. Representative: Kathy Burnham

Calibration date: 6/16/94

Reviewed date: 6-17-94

TMA/Eberline Albuquerque Laboratory  
7021 Pan American Hwy. NE  
Albuquerque, NM 87109  
(505) 345-3461 • FAX # (505) 761-5416

### CERTIFICATE OF CALIBRATION

**Electroplated Beta Standard**

S.O.# S-02845  
P.O.# DAAC-72-94-V-0450

**Description of Standard:**

Model No. DNS-9 Serial No. 1843-94 Isotope Technetium-99  
Electroplated on polished Stainless Steel disc, 0.79 mm thick.  
Total diameter of 2.23 cm and an active diameter of 1.91 cm.

The radioactive material is permanently fixed to the disc by heat treatment without any covering over the active surface.

**Measurement Method:**

The 2 pi beta emission rate was measured using an internal gas flow proportional chamber. Absolute counting of beta particles emitted in the hemisphere above the active surface was verified by counting above, below and at the operative voltage. The calibration is traceable to NIST by reference to an NIST calibrated beta source S/N 2148/90.

**Measurement Result:**

The observed beta count rate from the surface of the disc per minute (cpm) on the calibration date was

7,500 ± 450

The total disintegration rate (dpm) assuming 25 % backscatter of beta particles from the surface of the disc, was

12,000 ± 720 ( 0.00541 µCi)

The uncertainty of the measurement is 6 % which is the sum of random counting error at the 99% confidence level, and the estimated upper limit of systematic error in this measurement.

Calibrated by: Arlene Gutierrez

Reviewed by: Charles Lamb

Calibration technician: Arlene Gutierrez

Q.A. Representative: Kathy Burnham

Calibration date: 5/24/94

Reviewed date: 6-17-94

TMA/Eberline Albuquerque Laboratory

7021 Pan American Hwy. NE

Albuquerque, NM 87109

(505) 345-3461 • FAX # (505) 761-5416

## CERTIFICATE OF CALIBRATION

### Electroplated Alpha Standard

S.O.# S-02845  
P.O.# DAAC-72-94-V-0450

#### Description of Standard:

Model No. DNS-9 Serial No. 1842-94 Isotope Thorium-230

Electroplated on polished Stainless Steel disc, 0.79 mm thick.

Total diameter of 2.23 cm and an active diameter of 1.91 cm.

The radioactive material is permanently fixed to the disc by heat treatment without any covering over the active surface.

#### Measurement Method:

The 2 pi alpha emission rate was measured using an internal gas flow proportional chamber. Absolute counting of alpha particles emitted in the hemisphere above the active surface was verified by counting above, below and at the operative voltage. The calibration is traceable to NIST by reference to an NIST calibrated alpha source S/N 2393/91.

#### Measurement Result:

The observed alpha particles emitted from the surface of the disc per minute (cpm) on the calibration date was

5,040 ± 151

The total disintegration rate (dpm) assuming 1.5% backscatter of alpha particles from the surface of the disc, was

10,100 ± 302 (0.00454 μCi)

The uncertainty of the measurement is 3 % which is the sum of random counting error at the 99% confidence level, and the estimated upper limit of systematic error in this measurement.

Calibrated by: Arlene Gutierrez

Reviewed by: Charles Lambson

Calibration technician: Arlene Gutierrez

Q.A. Representative: Kelly Brunson

Calibration date: 5/24/94

Reviewed date: 6-17-94

TMA/Eberline Albuquerque Laboratory

7021 Pan American Hwy. NE

Albuquerque, NM 87109

(505) 345-3461 • FAX # (505) 761-5416

## CERTIFICATE OF CALIBRATION

### Gamma Standard

S.O.# S-02845

P.O.# DAAC-72-94-V-0450

#### Description of Standard:

Model No. DNS-9 Serial No. 1845-94 Isotope Cesium-137

The source of gamma radiation is mounted on a 2.54 cm diameter PLASTIC disc,  
3 mm thick and ~~sealed~~

#### Measurement Method:

The gamma ray emission rate was compared with a similar standard which was calibrated by NIST S/N 2753/91. This comparison of relative gamma ray emission rates was accomplished using a high resolution gamma-ray detector (nominal active volume 100 cm<sup>3</sup>) and a multichannel pulse height analyzer.

#### Measurement Result:

The gamma ray activity of the standard on 6/16/94 was 0.906  $\mu$ Cl.

The uncertainty of the measurement is 3.9 % which is the sum of the uncertainty assigned to the NIST reference standard (2.2 %), random counting error at the 99% confidence level, and the estimated upper limit of systematic errors.

Calibrated by: Charles Lamborn

Reviewed by: Aileen Anthony

Calibration technician: Charles Lamborn

Q.A. Representative: Kathy Burnham

Calibration date: 6/16/94

Reviewed date: 6-17-94



Thermo Analytical Inc.

TMA/Eberline Albuquerque Laboratory

7021 Pan American Hwy. NE

Albuquerque, NM 87109

(505) 345-3461 • FAX # (505) 761-5416

### CERTIFICATE OF CALIBRATION

#### Electroplated Beta Standard

S.O.# S-02845  
P.O.# DAAC-72-94-V-0450

#### Description of Standard:

Model No. DNS-9 Serial No. 1039/92 Isotope Technetium-99

Electroplated on polished Stainless Steel disc, 0.79 mm thick.

Total diameter of 2.23 cm and an active diameter of 1.91 cm.

The radioactive material is permanently fixed to the disc by heat treatment without any covering over the active surface.

#### Measurement Method:

The 2 pi beta emission rate was measured using an internal gas flow proportional chamber. Absolute counting of beta particles emitted in the hemisphere above the active surface was verified by counting above, below and at the operative voltage. The calibration is traceable to NIST by reference to an NIST calibrated beta source S/N 2148/90.

#### Measurement Result:

The observed beta count rate from the surface of the disc per minute (cpm) on the calibration date was

6,780 ± 339

The total disintegration rate (dpm) assuming 25 % backscatter of beta particles from the surface of the disc, was

10,800 ± 542 ( 0.00489 μCi)

The uncertainty of the measurement is 5 % which is the sum of random counting error at the 99% confidence level, and the estimated upper limit of systematic error in this measurement.

Calibrated by: Arlene Gutierrez

Reviewed by: Charles Lambson

Calibration technician: Alex Satorre

Q.A. Representative: Kathy Burdham

Calibration date: 5/24/94

Reviewed date: 6-17-94

TMA/Eberline Albuquerque Laboratory  
7021 Pan American Hwy. NE  
Albuquerque, NM 87109  
(505) 345-3461 • FAX # (505) 761-5416

## CERTIFICATE OF CALIBRATION

### Electroplated Alpha Standard

S.O.# S-02845  
P.O.# DAAC-72-94-V-0450

#### Description of Standard:

Model No. DNS-9 Serial No. 1841-94 Isotope Thorium-230  
Electroplated on polished Stainless Steel disc, 0.79 mm thick.  
Total diameter of 2.23 cm and an active diameter of 1.91 cm.

The radioactive material is permanently fixed to the disc by heat treatment without any covering over the active surface.

#### Measurement Method:

The 2 pi alpha emission rate was measured using an internal gas flow proportional chamber. Absolute counting of alpha particles emitted in the hemisphere above the active surface was verified by counting above, below and at the operative voltage. The calibration is traceable to NIST by reference to an NIST calibrated alpha source S/N 2393/91

#### Measurement Result:

The observed alpha particles emitted from the surface of the disc per minute (cpm) on the calibration date was

4,780 ± 239

The total disintegration rate (dpm) assuming 1.5% backscatter of alpha particles from the surface of the disc, was

9,570 ± 478 (0.00431 μCi)

The uncertainty of the measurement is 5 % which is the sum of random counting error at the 99% confidence level, and the estimated upper limit of systematic error in this measurement.

Calibrated by: Arlene Gutierrez

Reviewed by: Charles London

Calibration technician: Arlene Gutierrez

Q.A. Representative: Kathy Burnham

Calibration date: 5/24/94

Reviewed date: 6-17-94



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER SENECA ARMY DEP ACT ORDER NO. 970876/201047  
 Mfg. Ludlum Measurements, Inc. Model 2360 Serial No. 138262  
 Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Cal. Date 05/15/97 Cal Due Date 05/15/98 Cal. Interval 1 Year Meterface 202-855

Check mark  applies to applicable instr. and/or detector IAW mfg. spec. T. 75 °F RH 54 % Alt 702.8 mm Hg

- New Instrument
- Instrument Received
- Within Toler. + -10%
- 10-20%
- Out of Tol.
- Requiring Repair
- Other-See comments
- Mechanical ck.
- Meter Zeroed
- Background Subtract
- Input Sens. Linearity
- F/S Resp. ck
- Reset ck.
- Window Operation
- Geotropism
- Audio ck.
- Alarm Setting ck.
- Batt. ck. (Min. Volt) 2.2 VDC
- Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.
- Calibrated in accordance with LMI SOP 14.9 rev 12/19/89.

Instrument Volt Set 1500 V Input Sens. Comment mV Def. Oper. \_\_\_\_\_ V at \_\_\_\_\_ mV Threshold Dial Ratio \_\_\_\_\_ = \_\_\_\_\_ mV  
 HV Readout (2 points) Ref./Inst. 5/4 / \_\_\_\_\_ 500 V Ref./Inst. 200/1 / \_\_\_\_\_ 2000 V

### COMMENTS:

Firmware version: 390105  
 Alpha Threshold: 120mV.  
 Beta Threshold: 3.5mV.  
 Beta Window: 38mV.  
 Overload not set.

EEPROM Settings:  
 User Time: 002.5 minutes  
 Alpha Alarms: 999999cpm  
 Beta Alarms: 999999cpm  
 A/B Alarms: 999999cpm  
 M2360 Date: 05/15/1997  
 Calibration Date: 05/15/1998

*Dave Stepten,*

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X1000	400Kcpm		400
X1000	100Kcpm		100
X100	40Kcpm		400
X100	10Kcpm		100
X10	4Kcpm		400
Y10	1Kcpm		100
X1	400cpm		400
X1	100cpm		100

\*Uncertainty within ± 10% C.F. within ± 20%

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	Log Scale	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout 400Kcpm		40048(0)				
40Kcpm		4003(0)				
4Kcpm		402(0)				
400cpm		40(0)				
40cpm		4(0)				

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of MIL-STD-45662A and ANSI N323-1978. State of Texas Calibration License No. LO-1963

### Reference Instruments and/or Sources:

Cs-137 Gamma S/N  1162  G112  M565  S105  T1008  T879  512  Neutron Am-241 Be S/N T-304

Alpha S/N \_\_\_\_\_  Beta S/N \_\_\_\_\_  Other \_\_\_\_\_

m 500 S/N 63888  Oscilloscope S/N \_\_\_\_\_  Multimeter S/N \_\_\_\_\_

Calibrated By: Stephen Hemington Date 5-15-97

Reviewed By: Rhonda Harris Date 5-15-97



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER SENECA ARMY DEP ACT ORDER NO. 970876/201047  
Mfg. Ludlum Measurements, Inc. Model 2360 Serial No. 133667  
Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_  
Cal. Date 06/05/97 Cal Due Date 06/05/98 Cal. Interval 1 Year Meterface 202-855

Check mark  applies to applicable instr. and/or detector IAW mfg. spec. T. 75 °F RH 54 % Alt 702.8 mm Hg

- New Instrument Instrument Received  Within Toler. +-10%  10-20%  Out of Tol.  Requiring Repair  Other-See comments
- Mechanical ck.  Meter Zeroed  Background Subtract  Input Sens. Linearity
- F/S Resp. ck  Reset ck.  Window Operation  Geotropism
- Audio ck.  Alarm Setting ck.  Batt. ck. (Min. Volt) 2.2 VDC
- Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.  Calibrated in accordance with LMI SOP 14.9 rev 12/19/89.

Instrument Volt Set 900 V Input Sens. Comment mV Det. Oper. \_\_\_\_\_ V at \_\_\_\_\_ mV Threshold Dial Ratio \_\_\_\_\_ = \_\_\_\_\_ mV

HV Readout (2 points) Ref./Inst. 510 / \_\_\_\_\_ 500 V Ref./Inst. 2004 / \_\_\_\_\_ 2000 V

## COMMENTS:

Firmware version: 390106  
Alpha Threshold: 120mV.  
Beta Threshold: 3.5mV.  
Beta Window: 38mV.  
Overload not set.

EEPROM Settings:  
User Time: 002.5 minutes  
Alpha Alarms: 999999cpm  
Beta Alarms: 999999cpm  
A/B Alarms: 999999cpm  
M2360 Date: 06/05/1997  
Calibration Date: 06/05/1998

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X1000	400Kcpm		400
X1000	100Kcpm		100
X100	40Kcpm		400
X100	10Kcpm		100
X10	4Kcpm		400
X10	1Kcpm		100
X1	400cpm		400
X1	100cpm		100

\*Uncertainty within ± 10% C.F. within ± 20%

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout	400Kcpm	400 (13 (0))	Log Scale		
	40Kcpm	4000 (0)			
	4Kcpm	400 (0)			
	400cpm	40 (0)			
	40cpm	4 (0)			

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of MIL-STD-45662A and ANSI N323-1978. State of Texas Calibration License No. LO-1963

## Reference Instruments and/or Sources:

- Cs-137 Gamma S/N  1162  G112  M565  5105  T1008  T879  E552  E551  Neutron Am-241 Be S/N T-304
- Alpha S/N \_\_\_\_\_  Beta S/N \_\_\_\_\_  Other \_\_\_\_\_
- m 500 S/N 63888  Oscilloscope S/N \_\_\_\_\_  Multimeter S/N \_\_\_\_\_

Calibrated By: Stephan K. King Date 6-5-97  
Reviewed By: Rhonda Harris Date 6-5-97





Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER SENECA ARMY DEP ACT ORDER NO. 970876/201047  
Mfg. Ludlum Measurements, Inc. Model 2360 Serial No. 138247  
Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_  
Cal. Date 06/05/97 Cal Due Date 06/05/98 Cal. Interval 1 Year Meterface 202-855

Check mark  applies to applicable instr. and/or detector IAW mfg. spec. T. 75 °F RH 54 % Alt 702.8 mm Hg

- New Instrument Instrument Received  Within Toler. +-10%  10-20%  Out of Tol.  Requiring Repair  Other-See comments
- Mechanical ck.  Meter Zeroed  Background Subtract  Input Sens. Linearity
- F/S Resp. ck  Reset ck.  Window Operation  Geotropism
- Audio ck.  Alarm Setting ck.  Batt. ck. (Min. Volt) 2.2 VDC
- Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.  Calibrated in accordance with LMI SOP 14.9 rev 12/19/89.

Instrument Volt Set 900 V Input Sens. Comment mV Det. Oper. \_\_\_\_\_ V at \_\_\_\_\_ mV Threshold Dial Ratio \_\_\_\_\_ = \_\_\_\_\_ mV  
 HV Readout (2 points) Ref./Inst. 5/4 / \_\_\_\_\_ 500 V Ref./Inst. 199/1 / \_\_\_\_\_ 2000 V

### COMMENTS:

Firmware version: 390106 EEPROM Settings:  
Alpha Threshold: 120mV. User Time: 002.5 minutes  
Beta Threshold: 3.5mV. Alpha Alarms: 999999cpm  
Beta Window: 38mV. Beta Alarms: 999999cpm  
Overload not set. A/B Alarms: 999999cpm  
M2360 Date: 06/05/1997  
Calibration Date: 06/05/1998

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X1000	400Kcpm		400
X1000	100Kcpm		100
X100	40Kcpm		400
X100	10Kcpm		100
X10	4Kcpm		400
X10	1Kcpm		100
X1	400cpm		400
X1	100cpm		100

\*Uncertainty within ± 10% C.F. within ± 20% ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
400Kcpm		40054(0)			
40Kcpm		4001(0)			
4Kcpm		400(2)			
400cpm		40(0)			
40cpm		4(0)			

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration technique. The calibration system conforms to the requirements of MIL-STD-45662A and ANSI N323-1978. State of Texas Calibration License No. LO-1963

### Reference Instruments and/or Sources:

- Cs-137 Gamma S/N  1162  G112  M565  5105  T1008  T879  E552  E551  Neutron Am-241 Be S/N T-304
- Alpha S/N \_\_\_\_\_  Beta S/N \_\_\_\_\_  Other \_\_\_\_\_
- m 500 S/N 63888  Oscilloscope S/N \_\_\_\_\_  Multimeter S/N \_\_\_\_\_

Calibrated By: Stephen Thurgerton Date 6-5-97  
Reviewed By: Rhonda Harris Date 6-5-97



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

### CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER SENECA ARMY DEP ACT ORDER NO. 970876/201047  
Mfg. Ludlum Measurements, Inc. Model 2360 Serial No. 138294  
Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_  
Cal. Date 06/05/97 Cal Due Date 06/05/98 Cal. Interval 1 Year Meterface 202-855

Check mark  applies to applicable instr. and/or detector IAW mfg. spec. T. 75 °F RH 54 % Alt 702.8 mm Hg

- New Instrument  Instrument Received  Within Toler. +-10%  10-20%  Out of Tol.  Requiring Repair  Other-See comments
- Mechanical ck.  Meter Zeroed  Background Subtract  Input Sens. Linearity
- F/S Resp. ck.  Reset ck.  Window Operation  Geotropism
- Audio ck.  Alarm Setting ck.  Batt. ck. (Min. Volt) 2.2 VDC
- Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.  Calibrated in accordance with LMI SOP 14.9 rev 12/19/89.

Instrument Volt Set 900 V Input Sens. Comment mV Def. Oper. \_\_\_\_\_ V at \_\_\_\_\_ mV Threshold Dial Ratio \_\_\_\_\_ = \_\_\_\_\_ mV  
 HV Readout (2 points) Ref./Inst. 507 / 500 V Ref./Inst. 1999 / 2000 V

**COMMENTS:**

Firmware version: 390106      EEPROM Settings:  
Alpha Threshold: 120mV.      User Time: 002.5 minutes  
Beta Threshold: 3.5mV.      Alpha Alarms: 999999cpm  
Beta Window: 37mV.      Beta Alarms: 999999cpm  
Overload not set.      A/B Alarms: 999999cpm  
M2360 Date: 06/05/1997  
Calibration Date: 06/05/1998

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X1000	400Kcpm		400
X1000	100Kcpm		100
X100	40Kcpm		400
X100	10Kcpm		100
X10	4Kcpm		400
X10	1Kcpm		100
X1	40cpm		400
X1	100cpm		100

\*Uncertainty within ± 10% C.F. within ± 20%

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout	400Kcpm	40007(0)	Log Scale		
	40Kcpm	4001(0)			
	4Kcpm	401(0)			
	400cpm	40(0)			
	40cpm	4(0)			

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of MIL-STD-45662A and ANSI N323-1978. State of Texas Calibration License No. LO-1963

**Reference Instruments and/or Sources:**

- Cs-137 Gamma S/N  1162  G112  M565  5105  T1008  T879  E552  E551  Neutron Am-241 Be S/N T-304
- Alpha S/N \_\_\_\_\_  Beta S/N \_\_\_\_\_  Other \_\_\_\_\_
- m 500 S/N 63888  Oscilloscope S/N \_\_\_\_\_  Multimeter S/N \_\_\_\_\_

Calibrated By: Stephen Kenington Date 6-5-97  
Reviewed By: Rhonda Harris Date 6-5-97





Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER SENECA ARMY DEP ACT ORDER NO. 970876/201047  
Mfg. Ludlum Measurements, Inc. Model 2360 Serial No. 138256  
Mfg. Ludlum Measurements, Inc. Model 43-68 Serial No. PR140515  
Cal. Date 05/15/97 Cal Due Date 05/15/98 Cal. Interval 1 Year Meterface 202-855

Check mark  applies to applicable instr. and/or detector IAW mfg. spec. T. 75 °F RH 54 % Alt 702.8 mm Hg

- New Instrument Instrument Received  Within Toler. +-10%  10-20%  Out of Tol.  Requiring Repair  Other-See comments
- Mechanical ck.  Meter Zeroed  Background Subtract  Input Sens. Linearity  
 F/S Resp. ck  Reset ck.  Window Operation  Geotropism  
 Audio ck.  Alarm Setting ck.  Batt. ck. (Min. Volt) 2.2 VDC  
 Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.  Calibrated in accordance with LMI SOP 14.9 rev 12/19/89.

Instrument Volt Set 1525 V Input Sens. Comment mV Det. Oper. 1525 V at Comment mV Threshold Dial Ratio          =          mV  
 HV Readout (2 points) Ref./Inst. 509 / 500 V Ref./Inst. 2010 / 2000 V

### COMMENTS:

Firmware version: 390105 EEPROM Settings:  
Alpha Threshold: 120mV. User Time: 002.5 minutes  
Beta Threshold: 3.5mV. Alpha Alarms: 999999cpm  
Beta Window: 38mV. Beta Alarms: 999999cpm  
Overload not set. A/B Alarms: 999999cpm  
HV set with detector connected. M2360 Date: 05/15/1997  
Calibration Date: 05/15/1998

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X1000	400Kcpm		400
X1000	100Kcpm		100
X100	40Kcpm		400
X100	10Kcpm		100
X10	4Kcpm		400
X10	1Kcpm		100
X1	400cpm		400
X1	100cpm		100

\*Uncertainty within ± 10% C.F. within ± 20%

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	Log Scale	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
400Kcpm		40023(0)				
40Kcpm		4003(0)				
4Kcpm		400(0)				
400cpm		40(0)				
40cpm		4(0)				

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of MIL-STD-45662A and ANSI N323-1978. State of Texas Calibration License No. LO-1963

### Reference Instruments and/or Sources:

Cs-137 Gamma S/N  1162  G112  M565  5105  T1008  T879  512  Neutron Am-241 Be S/N T-304  
 Alpha S/N 4337 Pu-239 15700cpm  Beta S/N 11300-77 / 635/83 Sr90Y90 / 0.01022 uCi / 443-69-3  Other           
 m 500 S/N 63888  Oscilloscope S/N           Multimeter S/N         

Calibrated By: Stephen Skrimpton Date 5-15-97  
Reviewed By: Rhonda Harris Date 5-16-97



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-68 Serial No. PR 140510 Order #. 970876/201047  
 Customer SENECA ARMY DEP ACT Alpha Input Sensitivity 120 mV  
 Counter 2360 Serial No. 138238 Beta Input Sensitivity 3.5 mV  
 Count Time 1 Minute Beta Window 38 mV  
 Other HV set with detector not connected Distance Source to Detector Surface

High Voltage	Background		Isotope <u>Pu-239</u> Size <u>15700cpm</u>		Isotope <u>Tc-99</u> Size <u>14300cpm</u>		Isotope <u>Sr-90/Y-90</u> Size <u>0.01024uCi</u>	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
<u>1500</u>	<u>0</u>	<u>137</u>	<u>5358</u>	<u>561</u>	<u>1</u>	<u>6571</u>	<u>2</u>	<u>12187</u>
<u>1525</u>	<u>3</u>	<u>195</u>	<u>5644</u>	<u>602</u>	<u>4</u>	<u>6440</u>	<u>0</u>	<u>14040</u>
<u>1550</u>	<u>1</u>	<u>253</u>	<u>5957</u>	<u>555</u>	<u>34</u>	<u>5895</u>	<u>22</u>	<u>14862</u>
<u>1575</u>	<u>3</u>	<u>279</u>	<u>6238</u>	<u>581</u>	<u>170</u>	<u>4848</u>	<u>176</u>	<u>14247</u>

Gas proportional detector count rate decreased  $\leq 10\%$  after 15hour static test using 34" cab

Signature Stephen Benington Date 5-15-97



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-68 Serial No. PR140515 Order #. 970876/201047  
 Customer SENECA ARMY DEP ACT Alpha Input Sensitivity 120 mV  
 Counter 2360 Serial No. 138256 Beta Input Sensitivity 3.5 mV  
 Count Time 1 Minute Beta Window 38 mV  
 Other HV set with detector not connected Distance Source to Detector Surface

High Voltage	Background		Isotope <u>Pu-239</u> Size <u>15700-µm</u>		Isotope <u>Tc-99</u> Size <u>14300-cpm</u>		Isotope <u>Sr90Y90</u> Size <u>0.01022-µ Ci</u>	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
1475	1	108	5134	519	5	6673	1	10885
1500	0	188	5651	591	5	6793	4	13675
1525	2	210	5783	600	12	6198	8	14725
1550	3	236	6130	549	106	5143	55	14842

Gas proportional detector count rate decreased  $\leq 10\%$  after 15 hour static test using 39" cable.

Signature Stephen Kernington Date 5-15-97



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-37 Serial No. PR 136 498 Order #. 970876/201047  
 Customer SENECA ARMY DEP ACT Alpha Input Sensitivity 120 mV  
 Counter 2360 Serial No. 138262 Beta Input Sensitivity 4 mV  
 Count Time 1 Minute Beta Window 38 mV  
 Other HV set with detector not connected Distance Source to Detector Surface

High Voltage	Background		Isotope <u>Pu-239</u> Size <u>15700 µm</u>		Isotope <u>Tc-99</u> Size <u>14300 µm</u>		Isotope <u>Sr90/Y90</u> Size <u>0.0022 µCi</u>	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
1550	4	333	5199	798	6	5934	2	8327
1575	0	426	5749	937	3	6797	3	10094
1600	3	593	6025	1055	10	7468	2	12304
1625	4	769	6414	1257	9	7688	4	14088
1650	5	924	6631	1434	7	7424	5	15176
1675	7	1040	6722	1576	57	6560	90	15378
1700	12	1099	6979	1556	206	5845	318	14153

Gas proportional detector count rate decreased  $\leq 10\%$  after 15 hour static test using 35" cable.

Signature Stephen Henington Date 5-15-97



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 915-235-5494  
501 OAK STREET FAX NO. 915-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-37 Serial No. 43 PR136499 Order #. 970876/201047  
 Customer SENECA ARMY DEP ACT Alpha Input Sensitivity 120 mV  
 Counter 2360 Serial No. 138262 Beta Input Sensitivity 4 mV  
 Count Time 1 Minute Beta Window 38 mV  
 Other HV set with detector not connected Distance Source to Detector Surface

High Voltage	Background		Isotope <u>Pu-239</u> Size <u>15700 cpm</u>		Isotope <u>Tc-99</u> Size <u>14300 cpm</u>		Isotope <u>Sr-90/Y-90</u> Size <u>0.01022 μCi</u>	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
<u>1575</u>	<u>3</u>	<u>496</u>	<u>5283</u>	<u>858</u>	<u>10</u>	<u>6637</u>	<u>4</u>	<u>10413</u>
<u>1600</u>	<u>2</u>	<u>598</u>	<u>5587</u>	<u>1026</u>	<u>11</u>	<u>7189</u>	<u>4</u>	<u>12277</u>
<u>1625</u>	<u>4</u>	<u>855</u>	<u>5867</u>	<u>1238</u>	<u>9</u>	<u>7314</u>	<u>4</u>	<u>13792</u>
<u>1650</u>	<u>7</u>	<u>1028</u>	<u>5949</u>	<u>1379</u>	<u>18</u>	<u>6487</u>	<u>17</u>	<u>14942</u>
<u>1675</u>	<u>9</u>	<u>1148</u>	<u>6210</u>	<u>1530</u>	<u>83</u>	<u>6155</u>	<u>107</u>	<u>14647</u>

Gas proportional detector count rate decreased  $\leq 10\%$  after 15 hour static test using 39" cable.

Signature Stephen Herington Date 5-15-77





DEPARTMENT OF THE ARMY  
UNITED STATES ARMY MISSILE COMMAND  
REDSTONE ARSENAL, ALABAMA

REPLY TO  
ATTENTION OF

AMSMI-TMDE-SRN

U.S. ARMY PRIMARY STANDARDS LABORATORIES  
RADIATION STANDARDS AND DOSIMETRY LABORATORY

REPORT OF CALIBRATION

On

Radiation Standards Set S/N L8680

FOR

WOMG4G

The sources were calibrated using a National Institute of Standards and Technology (NIST) - designed gas flow proportional counting system ( $^{230}\text{Th}$ ), a Ludlum Model 2000 scaler and Model 44-40 shielded G-M detector ( $^{99}\text{Tc}$ ), and a Ludlum 2000 and Model BS-2 G-M detector ( $^{137}\text{Cs}$ ). This calibration is traceable to and compatible with NIST measurements. The  $^{230}\text{Th}$  and  $^{99}\text{Tc}$  sources were calibrated for  $2\pi$  geometry emission rate and the  $^{137}\text{Cs}$  source was calibrated for activity. Calibration uncertainties are expected to be within +/- 5% at the 95% confidence level.

Steven C. Rogers  
Sr Physicist, Nucleonics Sctn  
DSN 788-8597  
In Charge of Calibration

Calibration Report No. WOMG4G201R  
Page 1 of 2  
Date: 2 June 1997

Paul O. Pittman  
Rad Stds and Dos Lab  
U.S. Army Pri Std Lab Dir



## CALIBRATION RESULTS

Isotope	Source S/N	2 $\pi$ Emission Rate	Activity ( $\mu$ Ci)
<sup>230</sup> Th	1841-94	4,896 $\alpha \cdot m^{-1}$	
<sup>137</sup> Cs	1845-94		1.008
<sup>99</sup> Tc	1039-92	5,559 $\beta \cdot m^{-1}$	



DEPARTMENT OF THE ARMY  
UNITED STATES ARMY MISSILE COMMAND  
REDSTONE ARSENAL, ALABAMA

REPLY TO  
ATTENTION OF

AMSMI-TMDE-SRN

U.S. ARMY PRIMARY STANDARDS LABORATORIES  
RADIATION STANDARDS AND DOSIMETRY LABORATORY

REPORT OF CALIBRATION

On

Radiation Standards Set S/N L8681

FOR

WOMG4G

The sources were calibrated using a National Institute of Standards and Technology (NIST) - designed gas flow proportional counting system ( $^{230}\text{Th}$ ), a Ludlum Model 2000 scaler and Model 44-40 shielded G-M detector ( $^{99}\text{Tc}$ ), and a Ludlum 2000 and Model BS-2 G-M detector ( $^{137}\text{Cs}$ ). This calibration is traceable to and compatible with NIST measurements. The  $^{230}\text{Th}$  and  $^{99}\text{Tc}$  sources were calibrated for  $2\pi$  geometry emission rate and the  $^{137}\text{Cs}$  source was calibrated for activity. Calibration uncertainties are expected to be within +/- 5% at the 95% confidence level.

Steven C. Rogers  
Sr Physicist, Nucleonics Sctn  
DSN 788-8597  
In Charge of Calibration

Calibration Report No. WOMG4G200R  
Page 1 of 2  
Date: 2 June 1997

Paul O. Pittman  
Rad Stds and Dos Lab  
U.S. Army Pri Std Lab Dir



## CALIBRATION RESULTS

Isotope	Source S/N	2 $\pi$ Emission Rate	Activity ( $\mu$ Ci)
<sup>230</sup> Th	1842-94	5,048 $\alpha \cdot m^{-1}$	
<sup>137</sup> Cs	1843-94		0.917
<sup>99</sup> Tc	1844-94	6,453 $\beta \cdot m^{-1}$	

# CERTIFICATE OF CALIBRATION (COUNT-RATE INSTRUMENT)

**RSA Laboratories, Inc.**  
19 Pendleton Drive, P.O. Box 61  
Hebron, Connecticut 06248  
(203) 228-0721 Fax (203) 228-4402

Customer and Contact: Radiation Safety Associates, Inc. Attn: K. Paul Steinmeyer (860) 228-0487  
Customer Address: P.O. Box 107, 19 Pendleton Drive, Hebron, CT 06248  
Inst. Mfr. & Model Ludlum Model 12 Inst. Type Count Rate Meter Inst. s/n 102850  
Det. Mfr. & Model Ludlum 44-62-2 Type Gamma Scintillator Det. s/n 144955  
Cal. Date 29 September 1997 Due Date 29 March 1998 Cal. Interval 6 Months

Environmental conditions: Temperature: 79°F Relative Humidity 48% Atmospheric Pressure 28.67 inches Hg

**Pre-calibration Checks:**

- Contamination survey
- Mechanical check
- Meter zero
- Geotropism check
- Battery check
- Audio check
- Reset check
- Fast response check
- Slow response check
- Window operation
- Plateau check
- Alarm set
- Det. volts 950 Vdc
- Input sens. 10 mV

- Pulse generator s/n 94926
- Oscilloscope s/n 171-04928
- Voltmeter s/n 57410002
- HV Readout (2 points) Ref./Inst. 500V/ 500V Ref./Inst. 1500V/ 1500V

Comments: Local background = 900 cpm. Response to <sup>137</sup>Cs = 66 cpm per mR/h. Response to <sup>226</sup>Ra = 15 cpm per mR/h.  
Check source (<sup>137</sup>Cs #4) = 24,000 cpm in contact with "yellow" side of source.

S/N of source used for precision check #6 Isotope Cs-137 Dedicated Source?  Yes  No  
Reading #1 17,000 cpm Reading #2 17,000 cpm Reading #3 17,000 cpm Mean 17,000 cpm  
Precision:  ± < 10%  ± 10-20%  Out of tolerance

Range Multiplier	Reference Calibration Point	Instrument Indication
x 1000	400,000 cpm	400,000 cpm
x 1000	100,000 cpm	100,000 cpm
x 100	40,000 cpm	40,000 cpm
x 100	10,000 cpm	10,000 cpm
x 10	4,000 cpm	4,000 cpm
x 10	1,000 cpm	1,000 cpm
x 1	400 cpm	400 cpm
x 1	100 cpm	100 cpm

All ranges calibrated electronically.

Range Multiplier	Cal. Source Used (isotope and S/N)	Source Activity (dpm)	Instrument Reading (cpm)	Instrument Efficiency (%)
x 10	I-125 (mock) #NES-186S-081963	129,870	1,200	0.23%
x 1000	Co-57 #DZ 994 (point source)	11,877,000	440,000	3.7%
x 100	Ba-133 #1652 (wide source)	1,422,646	39,000	2.7%
x 100	Cs-137 #A745 (wide source)	2,489,119	26,000	1.0%
x 10	Cs-137 #2887 (point source)	153,652	2,800	1.2%
N/A	Ra-226 (calculated for wide source)	N/A	N/A	0.22%
N/A	Ra-226 (calculated for point source)	N/A	N/A	0.26%

RSA Laboratories ID# 1527. Instrument indicates within ±10% of calibration points unless otherwise indicated. Source-to-detector entry window distance for efficiency determinations is 1 cm unless otherwise specified. RSA Laboratories, Inc. certifies that the above instrument has been calibrated with standards traceable to the National Institute of Standards and Technology, or have been derived from accepted values of natural physical constants, or have been derived by the ratio-type of calibration techniques.

Calibrated by: Paul R. Steinmeyer Date 29 Sept 97  
Reviewed by: [Signature] Date 30 Sept 97



- **DAILY FUNCTION CHECK PROCEDURE**

THE UNIVERSITY OF CHICAGO



# DAILY FUNCTION CHECK PROCEDURE

## Seneca Army Depot

### Parsons Engineering Science

This procedure is designed to serve as a generic guideline for the daily function check to be performed on a calibrated radiological instrument for daily use in the field at Seneca Army Depot during EPA remedial investigation activities in SEAD-12. This procedure will be performed daily.

- 1) Visually inspect the instrument for damage.
- 2) Check the calibration date on the rate meter and probe ensure that the instrument is not out of calibration.
- 3) Check the serial number on both the rate meter and the probe. Ensure that the serial number on the instrument corresponds to that on the front cover of the function check binder in use.
- 4) Connect the probe to the rate meter with the appropriate cable.
- 5) Turn the instrument on to the check battery position, check the battery and record the results on the appropriate function check form (Attachment A). In some cases the instrument will return a battery voltage, while in other cases the instrument will return a "OK".
- 6) Check and document the high voltage.
- 7) Place the probe on the appropriate source check jig with **NO CHECK SOURCE**. Each probe has a specific and clearly marked jig to be used for all function checks.
- 8) Set the instrument to the appropriate scale setting where the radiation reading is greater than 10% of full scale and less than 90% of full scale.
- 9) Allow the instrument appropriate time to settle on a relatively stable reading. Record the first background reading. The 1-minute scaler counting capability will be utilized for all function check readings when possible. With instruments that do not possess the 1-minute scaler counting capability readings will be collected with the instrument set on slow in 30 second increments. Repeat this step until 5 background readings have been collected and recorded.

- 10) Calculate the average of the 5 background readings and document on the appropriate form.
- 11) Check the serial number and calibration date on the appropriate function check source and on the accompanying calibration sheet to ensure that the source is not out of calibration. Note the serial number of the function check source. **Caution:** Radioactive sources must be handled with care and all appropriate PPE must be worn at all times when handling radioactive sources.
- 12) Remove the probe from the function check jig and mount the appropriate function check source in the jig adhering to the following table:

Instrument:	Source:
A/B Gas Proportional	Th-230, Tc-99
Fidler (Model G5)	Am-241
Micro-Rem	Cs-137
Pancake G-M	Cs-137, Tc-99
High Energy Gamma	Cs-137
- 13) Place the probe in the appropriate function check jig over the appropriate source. Ensure the probe is properly placed in the jig over the check source. Record 5 source checks using methods presented in step 9 above.
- 14) Ensure the source check average falls within the 2-sigma range found on the most recent initial check page in the function check binder (Attachment B).
- 15) Repeat steps 7 through 9 for each function check source. Note that some instruments require function checks on two sources.
- 16) Repeat steps 9 through 15 at noon, and again at night. During the noon and night function checks only one source check per source and only one background check will be collected.

- **DAILY FUNCTION CHECK LOGS**



Project: SEAD-12

Date: \_\_\_\_\_

9/3/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	IM263	IM263
Model	Model 3	Model 19	AN/PDR-77	AN/PDR-77
Serial Number	61457	109980	0033A	0034A
Calibration Date	16-May-97	29-Apr-97	4-Apr-97	3-Apr-97
PROBE	PANCAKE G-M	NaI(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	not applicable	IM263	IM263
Model	Model 44-9	not applicable	DT-674/PDR-77	DT-674/PDR-77
Serial Number	PR026657	<del>109980</del> not applicable	0033A	0034A
Calibration Date	16-May-97	not applicable	4-Apr-97	3-Apr-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845/94	8921	8921
Source Emission Rate	5,589 dpm	1.008 micro curie	307,511 cpm alpha	307,511 cpm alpha
Source Check Reading	910 cpm	222 uR/hr	3792 cpm	
Background Reading	2.6 cpm	10 uR/hr	2.5 Kcpm	
Instrument Efficiency	_____	_____		
FLAG	_____	_____		
MIDDAY READING	← left for function check at 1300	function check at 1300	Function check at 1300	
EVENING READING	900 cpm	(140 uR/hr)	3800 cpm	
Check Performed By	D. Griffiths	D. Griffiths	D. Griffiths	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

② Instrument checked at noon, not used in AM.  
 \* Micro-R in 109980 → Reading very low on evening Reading

Project: SEAD-12

Date: 9/4/97

INSTRUMENTATION

Not used

Not used

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	Ludlum	Ludlum	IM263	IM263
Model	Model 3	Model 19	AN/PDR-77	AN/PDR-77
Serial Number	61457	109980	0033A	0034A
Calibration Date	16-May-97	29-Apr-97	4-Apr-97	3-Apr-97
<b>SOURCE</b>	<b>PANCAKE G-M</b>	<b>ES-137 (equivalent to Americium)</b>	<b>LOW ENERGY GAMMA DETECTOR</b>	<b>LOW ENERGY GAMMA DETECTOR</b>
Make	Ludlum	not applicable	IM263	IM263
Model	Model 44-9	not applicable	DT-674/PDR-77	DT-674/PDR-77
Serial Number	PR026657	not applicable	0033A	0034A
Calibration Date	16-May-97	not applicable	4-Apr-97	3-Apr-97
<b>SOURCE</b>	<b>Tc-99</b>	<b>ES-137</b>	<b>Am-241</b>	<b>Am-241</b>
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845/94	8921	8921
Source Emission Rate	5,889 dpm	1.008 micro curie	307,511 cpm alpha	307,511 cpm alpha
Source Check Reading	910 cpm		3300 cpm	
Background Reading	30 cpm		2256 cpm	
Instrument Efficiency				
FLAG			(1) 3700	
MIDDAY READING			<del>3700</del> cpm	
EVENING READING	850 cpm		3770 cpm	
Check Performed By	D. Griffiths		C. Majewski	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG-

(2) Instrument checked at noon, not used in AM.

Project: SEAD-12

Date: 9/5/95

INSTRUMENTATION

Not used

Not used

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	IM263	IM263
Model	Model 3	Model 19	AN/PDR-77	AN/PDR-77
Serial Number	G1457	109980	0033A	0034A
Calibration Date	16-May-97	29-Apr-97	4-Apr-97	3-Apr-97
PROBE	PANCAKE G-M	NaI(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	not applicable	IM263	IM263
Model	Model 44-9	not applicable	DT-674/PDR-77	DT-674/PDR-77
Serial Number	PR026657	not applicable	0033A	0034A
Calibration Date	16-May-97	not applicable	4-Apr-97	3-Apr-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845/94	8921	8921
Source Emission Rate	5,589 dpm	1.008 micro curie	307,511 cpm alpha	307,511 cpm alpha
Source Check Reading	930 cpm			3806 cpm
Background Reading	30 cpm			2302 cpm
Instrument Efficiency	9 cm			∇
FLAG				
MIDDAY READING	N/A			4060 cpm
EVENING READING	900 cpm C. Majewski			4010 cpm
Check Performed By	D. Griffiths			C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG-

② Instrument checked at noon, not used in AM.

Project: SEAD-12

Date: 9/6/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	Ludlum		IMR 63	
Model	Model 3		AN/PDR-77	
Serial Number	61-457		0034A	
Calibration Date	16 May-97		4/4/97	
INSTRUMENT TYPE	PANCAKE G-M	Nal(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum		IM 263	
Model	Model 44-9		DT-674/PDR-77	
Serial Number	PIR 026657		0034A	
Calibration Date	16 May 97		4/4/97	
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2 June 97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307,511 dpm Alpha	
Source Check Reading	940 cpm		3746 cpm	
Background Reading	32 cpm		2576 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	N/A		4100 cpm	
EVENING READING	920 cpm		4350 cpm	
Check Performed By	D. Griffiths		D. Griffiths	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 9/7/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum		IM 263	
Model	Model 3		AN/PDR-77	
Serial Number	61457		0034A	
Calibration Date	5/16/97		4/4/97	
	PANACHE GM	Nal(Tl) (internal to ratemeter)	LOW-ENERGY GAMMA DETECTOR	LOW-ENERGY GAMMA DETECTOR
Make	Ludlum		IM 263	
Model	Model 44-9		DT-674/PDR-77	
Serial Number	PR 026657		0034A	
Calibration Date	5/16/97		4/4/97	
Source Calibration Date	6/2/97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307511 cpm Alpha	
Source Check Reading	930 cpm		3914 cpm	
Background Reading	34 cpm		2656 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	N/A		4160 cpm	
EVENING READING	900CPM		3810 cpm	
Check Performed By	C. Meadows		D. Griffiths	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/8/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum		IM 263	
Model	model # 3		Am/PDR-FF	
Serial Number	61457		0034A	
Calibration Date	5/16/97		4/4/97	
SOURCE	PAN-KR-90	Nal(Tl) (internal to ratemeter)	LOW-ENERGY GAMMA DETECTOR	LOW-ENERGY GAMMA DETECTOR
Make	Ludlum		IM 263	
Model	Model 44-9		DT-674/PDR-FF	
Serial Number	<del>PR 026657</del>		0034A	
Calibration Date	5/16/97		4/4/97	
SOURCE	Tl-99	Cs-137	Am-241	Am-241
Source Calibration Date	6/2/97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307511 cpm Alpha	
Source Check Reading	966 cpm		3884 (ORL) 3914 cpm	
Background Reading	29.6 cpm		2512 (ORL) 2656 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	N/A		4160 cpm	
EVENING READING	900 cpm		4150 cpm	
Check Performed By	C. Majewski		D. Griffiths	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/9/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATE METER
Make	Ludlum		IM-263	
Model	model # 3		AN/PDR-77	
Serial Number	61457		0034A	
Calibration Date	5/16/97		4/4/97	
ISOTOPE	PANCAKE GM	Nal(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum		IM-263	
Model	Model 44-9		DT-674/PDR-77	
Serial Number	PR-026657		0034A	
Calibration Date	5/16/97		4/4/97	
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	6/2/97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307511 cpm Alpha	
Source Check Reading	960 cpm		3726 cpm	
Background Reading	28 cpm		2440 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	N/A		4240 cpm	
EVENING READING	900 cpm		4200 cpm	
Check Performed By	D. Griffiths		C. Majewski	

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG=

Project: SEAD-12

Date: 9/10/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum		IM-263	
Model	Model 3		AN/PDR-77	
Serial Number	61457		0034A	
Calibration Date	5/16/97		4/4/97	
PROBE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum			
Model	Model 44-9		DT-674/PDR-77	
Serial Number	PR-026657		0034A	
Calibration Date	5/16/97		4/4/97	
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	6/2/97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307511 cpm Alpha	
Source Check Reading	840 cpm		3620 cpm	
Background Reading	26 cpm		2510 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING				
EVENING READING	940 cpm		4080 cpm	
Check Performed By	C.S. May		C.S. May and D.	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/15/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum		IM - 263	
Model	Model 3		AN/PDR-77	
Serial Number	61457		0034A	
Calibration Date	5/16/97		4/4/97	
Source	PANCAKE G-M	Nal(Tl) (internal to rate meter)	LOW ENERGY GAMMA BI-POLAR	LOW ENERGY GAMMA BI-POLAR
Make	Ludlum			
Model	Model 44-9		DT-674/PDR-77	
Serial Number	PR-026657		0034A	
Calibration Date	5/16/97		4/4/97	
Source	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	6/2/97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307511 cpm Alpha	
Source Check Reading	910 cpm		3620 cpm	
Background Reading	32 cpm		2586 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	did not	use until P.M.		
EVENING READING	950 cpm		4310 cpm	
Check Performed By	D. Griffiths		D. Griffiths	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 9/16/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Loolum		IM-263	
Model	MODEL 3		AN/PDR-77	
Serial Number	61457		0034A	
Calibration Date	5/16/97		4/4/97	
	PANCAKE GM	Nal(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Loolum			
Model	MODEL 44-9		DT-674/PDR-77	
Serial Number	PR-026657		0034A	
Calibration Date	5/16/97		4/4/97	
	Tc-99	Cs-137	Air-241	Air-241
Source Calibration Date	6/2/97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307511 cpm/4m	
Source Check Reading	976 cpm		3822 cpm	
Background Reading	26 cpm		2610 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	—		3910 cpm	
EVENING READING	950 cpm		<del>3805 cpm</del> 2225 cpm	
Check Performed By	CSM		CSM	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/12/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	Ludlum		FM-263	
Model	MODEL 3		AN/PDR-27	
Serial Number	61457		0034A	
Calibration Date	5/16/97		4/4/97	
PROBE	PANCAKE G-M	Nal(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum			
Model	Model 44-9		DT-674/PDR-27	
Serial Number	PR-026657		0034A	
Calibration Date	5/16/97		4/4/97	
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	6/2/97		6/2/97	
Source Serial Number	1039/92		8921	
Source Emission Rate	5589 dpm		307511 cpm Alpha	
Source Check Reading	943 cpm		3794 cpm	
Background Reading	26 cpm		2508 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	900 cpm		4430 cpm *	
EVENING READING	850 cpm		4204 cpm	
Check Performed By	C. Majewski		D. Griffiths	

EFFICIENCY=(CPM-BACKGROUND)/DPM

\* Did not use in pm, consulting Tom Reynolds about Instrument drift

FLAG=

Project: SEAD-12

Date: 9/18/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	IM-263	
Model	model-3	model-19	AN/PDR-77	
Serial Number	61457	109962	0034A	
Calibration Date	5/16/97	9/5/97	4/4/97	
PROBE	PANCAKE G-M	NaI(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A		
Model	model 44-9	N/A	DT-674/PDR-77	
Serial Number	PR-020657 <sup>(PR)</sup>	N/A	0034A	
Calibration Date	5/16/97	N/A	4/4/97	
SOURCE	Tc-99	Co-60	Am-241	Am-241
Source Calibration Date	6/2/97	6/2/97	6/2/97	
Source Serial Number	1039-92	1845-94	8921	
Source Emission Rate	5589 dpm	1.008 $\mu$ Ci	307511 cpm Alpha	
Source Check Reading	953 cpm	214 $\mu$ R/h	3720 cpm	
Background Reading	22 cpm	9.55 $\mu$ R/h	2660 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	Not used	212 $\mu$ R/h	4300 cpm	
EVENING READING	900 cpm	215 $\mu$ R/h	4490 cpm	
Check Performed By	D. Triffith	C. Majewski	D. Triffith	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 9/19/97

INSTRUMENTATION

CM ~~Not used~~

NOT USED

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	LUDLUM	LUDLUM	FM-263	FM-263
Model	MODEL-3	MODEL-19	AN/PDR-77	AN/PDR-77
Serial Number	61457 CSN 615	109962	0034A	0033A
Calibration Date	5/16/97	9/5/97	4/4/97	4/3/97
Source	PANIC AND GAM	NaI(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	LUDLUM	N/A	DT-674/PDR77	
Model	MODEL 44-9	N/A	0034A	DT-674/PDR77
Serial Number	PR-026657			0033A
Calibration Date	5/16/97		4/4/97	4/3/97
Source	CS-99	CS-137	Am-241	Am-241
Source Calibration Date	6/2/97	6/2/97	4/2/97	6/2/97
Source Serial Number	1039/92	1845-94	8921	8921
Source Emission Rate	5589 dpm	1.0084 Ci	307511 cpm Alpha	307511 cpm Alpha
Source Check Reading	970 cpm	208 HR/hr	3824 cpm	4460 cpm done at NORM
Background Reading	16 cpm	10 HR/hr	2624 cpm	3306 cpm done at NORM
Instrument Efficiency				
FLAG				
MIDDAY READING			4350 cpm	
EVENING READING	950 cpm		4420 cpm	4410 cpm
Check Performed By	D. Griffith		C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Jim Koehler, Ph.D. (Technical Review)  
 Jim is a contract employee who provides technical guidance and project review. Jim earned a Ph.D. in Statistics from Stanford University. He is a professor of Mathematics at the University of Colorado at Denver and has a research focus on environmental statistics.

direction and review of work products.

Project: SEAD-12

Date: 9/20/97

INSTRUMENTATION

*Did not use*

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Im-263	Im-263
Model	Model 3	Model 17	AN/PDR-77	A/N/PDR-77
Serial Number	61457	109962	0033A	0034A
Calibration Date	5/16/97	9/5/97	4/4/97	4/3/97
ISOTOPE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTORS	LOW ENERGY GAMMA DETECTORS
Make	Ludlum	N/A	Im 263	Im 263
Model	Model 44-9	N/A	DT-674/PDR-77	DT-674/PDR-77
Serial Number	PR 026657	N/A	0033A	0034 <sup>4</sup> A
Calibration Date	5/16/97	N/A	4/4/97	4/3/97 <sup>CS</sup>
ISOTOPE	Co-60	Co-137	Am-241	Am-241
Source Calibration Date	6/2/97	6/2/97	6/2/97	6/2/97
Source Serial Number	1039/92	1845/94	8921	8921
Source Emission Rate	5589 dpm	1,008 microCi	307511 cpm Alpha	307511 cpm Alpha
Source Check Reading	900 cpm	215.6 cpm	3910 cpm	4116 cpm
Background Reading	25 cpm	9.7 cpm	2838 cpm	2978 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	Not used	Not	4460 cpm	4230 cpm
EVENING READING	900 cpm	used	4530 cpm	4420 cpm
Check Performed By	C. Majewski		C. MAJEWski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/2/97

INSTRUMENT TYPE	INSTRUMENTATION		Scaler	
	RATE METER	MICRO R RATE METER	RATE METER	RATE METER
Make	LUDLUM	LUDLUM	IM-263	IM-263
Model	MODEL 3	MODEL 19	AN/PDR-77	AN/PDR 77
Serial Number	61457	109962	0033A	0034A
Calibration Date	5/16/97	9/5/97	4/4/97	4/3/97
Make	LUDLUM	N/A	IM263	IM-263
Model	Model 44-9	N/A	DT-674/PDR77	DT-674/PDR77
Serial Number	PR026657	N/A	0033A	0034A
Calibration Date	5/16/97	N/A	4/4/97	4/3/97
Source Calibration Date	6/2/97	6/2/97	4/2/97	6/2/97
Source Serial Number	1039/92	1845/94	8921	8921
Source Emission Rate	5589 dpm	1.008 Micro Ci	30751 cpm Alpha	307511 cpm Alpha
Source Check Reading	906 cpm	219 HR/hr	4012 cpm	3794 cpm
Background Reading	32 cpm	9.7 uR/hr	2848 cpm	2584 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	—	220 HR/hr	3985 cpm	3890 cpm
EVENING READING	925 cpm	215 HR/hr	4136 cpm	
Check Performed By	D. Griffiths	C. MAJEWski	D. Griffiths	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/22/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	LUDLUM	LUDLUM	IM-263	IM-263
Model	MODEL 3	MODEL 19	AN/PDR-77	AN/PDR 77
Serial Number	61457	109962	0033A	0034A
Calibration Date	5/16/97	9/5/97	4/4/97	4/3/97
DETECTOR	PANCAKE GM	NaI(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	LUDLUM	N/A	IM263	IM-263
Model	Model 44-9	N/A	DT-674/PDR77	DT-674/PDR77
Serial Number	PR026657	N/A	0033A	0034A
Calibration Date	5/16/97	N/A	4/4/97	4/3/97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	6/2/97	6/2/97	6/2/97	6/2/97
Source Serial Number	1039/92	1845/94	8921	8921
Source Emission Rate	5589 dpm	1.008 Micro Ci	307511 cpm Alpha	307511 cpm Alpha
Source Check Reading	910 cpm	219.6 uR/hr	4130 cpm	3968 cpm
Background Reading	32 cpm	10 uR/hr	2872 cpm	2626 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	Not used in AM	not used in AM	4380 cpm	3990 cpm
EVENING READING	950 cpm	222 uR/hr	4266 cpm	4405 cpm
Check Performed By	C. MAJEWski	C. MAJEWski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 7/23/97

INSTRUMENT TYPE	ROTG METER	INSTRUMENTATION MICRO-R RATE METER	SCALER RATE METER	
Make	LUDLUM	LUDLUM	IM-263	IM-263
Model	MODEL 3	MODEL 19	AN/PDR-77	AN/PDR 77
Serial Number	61457	109962	0033A	0034A
Calibration Date	5/16/97	9/5/97	4/4/97	4/3/97
Make	LUDLUM	N/A	IM263	IM-263
Model	Model 44-9	N/A	DT-674/PDR77	DT-674/PDR77
Serial Number	PR026657	N/A	0033A	0034A
Calibration Date	5/16/97	N/A	4/4/97	4/3/97
Source Calibration Date	6/2/97	6/2/97	6/2/97	6/2/97
Source Serial Number	1039/92	1845/94	8921	8921
Source Emission Rate	5589 dpm	1.008 MICRO Ci	3075N cpm Alpha	3075N cpm Alpha
Source Check Reading	900 cpm	221 uR/hr	4040 cpm	4004 cpm
Background Reading	27 cpm	9.65 uR/hr	3116 cpm	2719 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	900 cpm	215 uR/hr	4500 cpm	4020 cpm
EVENING READING	900 cpm	235 uR/hr	3998 cpm	3807 cpm
Check Performed By	C. Majorski	C. Majorski	C. Majorski	C. Majorski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/24/97

*Returned to Tom Reynolds for Calibration*

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	Luolum	Luolum	Im263	/
Model	MODEL-3	MODEL-19	AN/PDR-77	
Serial Number	61457	109962	0034A	
Calibration Date	5/6/97	9/5/97	4/4/97	
Model	PANCAKE G-M	Nal(Tl) (internal to meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Luolum	N/A	-	/
Model	MODEL 44-9	N/A	DT-674/PDR77	
Serial Number	PR-026657	N/A	0034A	
Calibration Date	5/16/97	N/A	4/4/97	
Model	TC-99	CS-137	Am-241	Am-241
Source Calibration Date	6/2/97	6/2/97	6/2/97	/
Source Serial Number	1035-92	1845-94	8921	
Source Emission Rate	5589 dpm	1.008 uCi	307511 cpm Alpha	
Source Check Reading	920 cpm	219 uR/hr	3742 cpm	
Background Reading	30 cpm	9.35 uR/hr	2670 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING	—	220 uR/hr	3860 cpm	
EVENING READING	—	217.5 uR/hr	4035 cpm	
Check Performed By	C.S. Majors	C.S. Majors	C.S. Majors	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 9/29/97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE METER	MICRO-RANGE METER	SCALE/BY/AL/METER	SCALE/BY/RANGE/METER
Make	/	Luolum	BICRON ANALYST	BICRON
Model		MODEL -19	ANALYST	ANALYST
Serial Number		109962	A984P	A945P A378Q - csm
Calibration Date		9/5/97	14/09/97	14/02/97
INSTRUMENT TYPE	RANGE METER	MICRO-RANGE METER	SCALE/BY/AL/METER	SCALE/BY/RANGE/METER
Make	/	N/A	BICRON	BICRON
Model		N/A	G5	G5
Serial Number		N/A	A398Q	A378Q
Calibration Date		N/A	14/08/97	14/08/97
INSTRUMENT TYPE	RANGE METER	MICRO-RANGE METER	SCALE/BY/AL/METER	SCALE/BY/RANGE/METER
Source Calibration Date	/	6/2/97	6/2/97 <sup>14/08/97</sup> 6/2/97 csm	6/2/97 <sup>14/08/97</sup> 6/2/97 csm
Source Serial Number		1945-94	8921	8921
Source Emission Rate		1008 $\mu$ Ci	307.511 Cpm Alpha	307.511 Cpm Alpha
Source Check Reading		231 $\mu$ R/h	CH-2 8772 cpm   11462 cpm	CH-2 7624 cpm   11571.9 cpm
Background Reading		10-85 $\mu$ R/h	6697 cpm   9182 cpm	5285.6 cpm   9086.7 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		222 $\mu$ R/h	Did not use until PM	
EVENING READING	215 $\mu$ R/h	10,698	10685	
Check Performed By		C. Majewski	C. Majewski	D. Griffiths

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 9/29/97

2

INSTRUMENTATION

Not used                      Not used

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALAR RATE METER	SCALAR RATE METER
Make	/	Ludlum	BICRON	/
Model		MODEL-19	ANALYST	
Serial Number		S/N 109912	A 983P	
Calibration Date		05/09/97	14/09/97	
PROB:	PANCAKE GM	NALCN internal to instrument	LOW ENERGY GAMMA DETECTORS	LOW ENERGY GAMMA DETECTORS
Make	/	N/A	BICRON	/
Model		N/A	G5	
Serial Number		N/A	A 394 Q	
Calibration Date		N/A	14/08/97	
SOURCE	Tc-99	CS-137	Air-241	Air-241
Source Calibration Date	/	6/2/97	6/2/97	6/2/97
Source Serial Number		1845-94	8921	CSM
Source Emission Rate		1.0084 Ci	307511 CPM-Alpha	
Source Check Reading		294 CM 298 MR/L	212 15404 CPM	OUT 16370 CPM
Background Reading		13.1 MR/L	10336.1 CPM	11243 CPM
Instrument Efficiency				
FLAG				
MIDDAY READING				
EVENING READING				
Check Performed By				

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 30 Sept 97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE METER	MICRO-RANGE METER	SCALE/RANGE METER	SCALE/RANGE METER
Make		Lucum	Bicron	Bicron
Model		MODEL-19	Analyst	ANALYST
Serial Number		109962	A984P	A945P
Calibration Date		9/5/97	14/AUG/97	14/AUG/97
ISOTOPE	PANCA-99	NaCl (2) (initial) to Alameda	LOW ENERGY GAMMA	LOW ENERGY GAMMA
Make		N/A	Bicron	BICRON
Model			G-5	G-5
Serial Number			A398Q	A378Q
Calibration Date		N/A	14/AUG/97	14/AUG/97
SOURCE	TC-99	CS-137	Am-241	
Source Calibration Date		6/02/97	6/02/97	6/02/97
Source Serial Number		1845-94	8921	8921
Source Emission Rate		1.008 Hci	307.511 CPM Alpha	307.511 CPM Alpha
Source Check Reading		2164 R/h	11035.8 cpm	11018.8 cpm
Background Reading		9.7 $\mu$ R/h	10243 cpm	9381.2 cpm
Instrument Efficiency			11202 cpm	11297 cpm
FLAG				
MIDDAY READING		220 $\mu$ R/h	11202 cpm	11297 cpm
EVENING READING		212 $\mu$ R/h	11008 cpm	11091 cpm
Check Performed By		C. Majewski	C. Majewski	D. Griffiths

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 1 Oct 97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALAR RATE METER	SCALAR RATE METER
Make	/	LUDLUM	BICRON	BICRON
Model		MODEL-19	ANALYST	ANALYST
Serial Number		109962	A9841D	A945P
Calibration Date		9/5/97	14/Sept/97	14/Sept/97
SOURCE	DATE TO CAL	NAI (H) INTERNAL	LOW ENERGY GAMMA	LOW ENERGY GAMMA
Make	/	N/A	BICRON	BICRON
Model			G-5	G-5
Serial Number			A398Q	A378Q
Calibration Date			N/A	8/14/97
SOURCE	TC-99	CS-137	Am-241	Am-241
Source Calibration Date	/	6/02/97	6/02/97	6/02/97
Source Serial Number		1845-94	8921	8921
Source Emission Rate		1.008 MCi	30751 CPM ALPHA	30751 CPM ALPHA
Source Check Reading		210 MCi	10571 CPM	10866 CPM
Background Reading		9.14 Ci	9128 CPM	9109 CPM
Instrument Efficiency				
FLAG				
MIDDAY READING		NOT USED	10622 CPM	10864 CPM
EVENING READING		213 MCi	10798 CPM	10923 CPM
Check Performed By			C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/1/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO- RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	/	Iudlum	/	/
Model	/	Model - 19	/	/
Serial Number	/	109912	/	/
Calibration Date	/	9/5/97	/	/
PROBE	PANCAKE GM	NATURAL AMBIENT	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	/	NA	/	/
Model	/		/	/
Serial Number	/		/	/
Calibration Date	/	NA	/	/
Source	CS-137	ES-152	Am-241	Am-241
Source Calibration Date	/	6/2/97	/	/
Source Serial Number	/	1845-94	/	/
Source Emission Rate	/	1008 $\mu$ Ci	/	/
Source Check Reading	/	280 $\mu$ R/hr	/	/
Background Reading	/	10.7 $\mu$ R/hr	/	/
Instrument Efficiency	/		/	/
FLAG	/		/	/
MIDDAY READING	/	NOT USED	/	/
EVENING READING	/	NOT USED	/	/
Check Performed By	/		/	/

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =

Project: SEAD-12

Date: 10/2/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATE METER	SCALER/RATE METER	
Make	/	LUDLUM	BICRON	BICRON	
Model		MODEL-19	ANALYST	ANALYST	
Serial Number		109962	A984P	A945P	
Calibration Date		9/5/97	14/08/97	14/08/97	
Isotope		PANCAKE GM	NaI(Tl) (internal to micrometer)	LOW ENERGY GAMMA BIPOLAR	LOW ENERGY GAMMA BIPOLAR
Make	/	N/A	BICRON	BICRON	
Model		1	<del>A398Q</del> G5	G5	
Serial Number			A398Q	A378Q	
Calibration Date		N/A	14/08/97	14/08/97	
Isotope		Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	/	6/2/97	6/2/97	6/2/97	
Source Serial Number		1845-94	8921	8921	
Source Emission Rate		1.008 MCi	307511 CPM Alpha	307511 CPM Alpha	
Source Check Reading		228 net/hr	11803 cpm	11758 cpm	
Background Reading		9.15 MBq/hr	9184 cpm	9263 cpm	
Instrument Efficiency					
FLAG					
MIDDAY READING			did not use in AM	10766 cpm	10782 cpm
EVENING READING			215 $\mu$ R/hr	10923 cpm	10875 cpm
Check Performed By			D. Griffiths	D. Griffiths	D. Griffiths

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/2/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATE METER
Make	/	LUDLUM	/	/
Model		MODEL-19		
Serial Number		108812		
Calibration Date				
ISOTOPE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	/	NA	/	/
Model				
Serial Number				
Calibration Date		NA		
ISOTOPE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	/	6/2/97	/	/
Source Serial Number		1845-94		
Source Emission Rate		1.0084 Ci		
Source Check Reading		294 $\mu$ R/hr		
Background Reading		10.5 $\mu$ R/hr		
Instrument Efficiency				
FLAG				
MIDDAY READING		did not use AM		
EVENING READING	did not use PM			
Check Performed By		D. Griffith		

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =

Project: SEAD-12

Date: 10/3/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO R RATE METER	SCALER RATE METER	SCALER RATE METER	
Make	/	LUOLUM	BICRON	BICRON	
Model		MODEL-19	ANALYST	ANALYST	
Serial Number		109962	A984P	A945P	
Calibration Date		9/5/97	11/09/97	11/09/97	
Source		PANCAKE GM	NA	LOW ENERGY GEMMA D150C 101	LOW ENERGY GEMMA D150C 101
Make	/	N/A	BICRON	BICRON	
Model			G5	G6	
Serial Number			A398Q	A378Q	
Calibration Date			N/A	11/06/97	11/06/97
Source		Te-99	CS-137	Am-241	Am-241
Source Calibration Date	/	6/2/97	6/2/97	6/2/97	
Source Serial Number		1845-94	8921	8921	
Source Emission Rate		1.008 uCi	307511 cpm Alpha	307511 cpm Alpha	
Source Check Reading		221 HR/h	11597 cpm	11619 cpm	
Background Reading		9.15 HR/h	9722 cpm	9597 cpm	
Instrument Efficiency					
FLAG					
MIDDAY READING			NOT used	11393 cpm	11183 cpm
EVENING READING			219 HR/h	11475 cpm	11453 cpm
Check Performed By			C. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 10/3/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO R RATE METER	SCALER RATE METER	SCALER RATE METER
Make	/	Lud Lum	/	/
Model	/	MODEL-19	/	/
Serial Number	/	109912	/	/
Calibration Date	/	9/5/97	/	/
PROB	PAINT-KR-6V	NaI(Tl) Internal to Instrument	LOW ENERGY G-MINIA Detector	LOW ENERGY G-MINIA Detector
Make	/	N/A	/	/
Model	/		/	/
Serial Number	/		/	/
Calibration Date	/	N/A	/	/
SOURCE	Co-60	Co-60	Am-241	Am-241
Source Calibration Date	/	6/2/97	/	/
Source Serial Number	/	1845-94	/	/
Source Emission Rate	/	1.008 MCi	/	/
Source Check Reading	/	294.4 MR/h	/	/
Background Reading	/	11.4 MR/h	/	/
Instrument Efficiency	/		/	/
FLAG	/		/	/
MIDDAY READING	/	Not Used	/	/
EVENING READING	/	293 MR/h	/	/
Check Performed By	/	C. Majewski	/	/

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/6/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATE METER
Make	/	Lucium	BICRON	BICRON
Model		MODEL-19	ANALYST	ANALYST
Serial Number		109962	A984 P	A945 P
Calibration Date		9/5/97	14/09/97	14/09/97
	PANCAKE G-M	Nal(Tl) (internal to rate meter)	LOW-ENERGY GAMMA 512KPS-1032	LOW-ENERGY GAMMA 512KPS-1032
Make	/	N/A	BICRON	BICRON
Model		1	G5	G5
Serial Number			A380 Q	A378 Q
Calibration Date		N/A	14/09/97	14/09/97
	TC-99	TC-187	Am-241	
Source Calibration Date	/	6/2/97	6/2/97	6/2/97
Source Serial Number		1845-94	8921	8921
Source Emission Rate		1.008 MCI	30751 CPM Alpha	30751 CPM Alpha
Source Check Reading		219 MR/h	11092 CPM	11093 CPM
Background Reading		9.5 MR/h	9391.4 CPM	9429 CPM
Instrument Efficiency				
FLAG				
MIDDAY READING		Not used	11229 CPM	11148 CPM
EVENING READING		225 MR/h	11055 CPM	10973 CPM
Check Performed By			C. Majewski	C. S. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date:

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make		LUDLUM		
Model		MODEL-19		
Serial Number		109912		
Calibration Date		9/5/97		
PROBE	PANCAKE GM	Nal(Tl) (internal to meter)	LOW-ENERGY GAMMA DETECTOR	LOW-ENERGY GAMMA DETECTOR
Make		N/A		
Model				
Serial Number				
Calibration Date		N/A		
Source	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date		6/2/97		
Source Serial Number		1845-94		
Source Emission Rate		1.008 MCi		
Source Check Reading		295 MR/h		
Background Reading		11-9 MR/h		
Instrument Efficiency				
FLAG				
MIDDAY READING		NOT USED		
EVENING READING		290 MR/h		
Check Performed By		C. MASESKI		

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/7/97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE MEMBER	MICRO-RANGE MEMBER	SCALER RANGE MEMBER	SCALER RANGE MEMBER	
Make	/	LUDLUM	BICRON	BICRON	
Model		MODEL-19	ANALYST	ANALYST	
Serial Number		109962	A 984 P	A 945 P	
Calibration Date		9/5/97	14/08/97	14/08/97	
SOURCE		PANCAKE GPM	NALHE International Microdica	LOW ENERGY GAMMA Detector	LOW ENERGY GAMMA Detector
Make	/	N/A	BICRON	BICRON	
Model		1	G-5	G-5	
Serial Number			A398 Q	A378 Q	
Calibration Date			N/A	14/08/97	
SOURCE		Co-60	Co-60	Am-241	Am-241
Source Calibration Date	/	6/2/97	6/2/97	6/2/97	
Source Serial Number		1845-94	8921	8921	
Source Emission Rate		1-008 MCi	307511CPM Alpha	307511CPM Alpha	
Source Check Reading		220 µR/hr	11252.6	11093 cpm	
Background Reading		9.4 µR/hr	9535 cpm	9361 cpm	
Instrument Efficiency					
FLAG					
MIDDAY READING			Not used	11133CPM 11220CPM	11472CPM 11218CPM
EVENING READING			205 HR/hr	↓	↓
Check Performed By			C.S. MASOUSHI	C. Majewski	C. MASOUSHI

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/2/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	/	LUDDLUM	BICRON	
Model		MODEL-19	ANALYST	
Serial Number		109912	A 883P	
Calibration Date		<del>14/08/97</del> 14/08/97	14/08/97	
PROBE	PANCAKE G-M	NaI(Tl) proportional counter	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	/	N/A	BICRON	
Model		1	G-5	
Serial Number			A354Q	
Calibration Date			N/A	14/08/97
SOURCE	10599	25137	Am241	Am241
Source Calibration Date	/	6/2/97	6/2/97	
Source Serial Number		1845-94	8921	
Source Emission Rate		1.008 uCi	307511 CPM-ALPHA	
Source Check Reading		290.4 pR/h	15880 cpm	
Background Reading		<del>290.4</del> 11.9 pR/h	11571 cpm	
Instrument Efficiency			—	
FLAG			—	
MIDDAY READING			Not used	16090 cpm
EVENING READING		290 pR/h	16299 cpm	
Check Performed By		C. Majewski	FAO	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/8/97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE METER	MICRO-RANGE METER	SCALAR/BETA METER	SCALAR/BETA METER
Make	/	LUDLUM	BICRON	BICRON
Model	/	MODEL-19	ANALYST	ANALYST
Serial Number	/	109962	A984P	A945P
Calibration Date	/	9/5/97	14/08/97	14/08/97
Probe	PANCAKE GM	NaI(Tl) Mini-Max	LOW ENERGY GAMMA	LOW ENERGY GAMMA
Make	/	N/A	BICRON	BICRON
Model	/	/	G-5	G-5
Serial Number	/	/	A398Q	A378Q
Calibration Date	/	N/A	14/08/97	14/08/97
Source	10-39	6047	Am-241	Am-241
Source Calibration Date	/	6/2/97	6/2/97	6/2/97
Source Serial Number	/	1245-94	8921	8921
Source Emission Rate	/	1.0084 Ci	30751 CPM Alpha	30751 CPM Alpha
Source Check Reading	/	223 MR/h	11330 CPM	11269 CPM 94467 CPM
Background Reading	/	9.5 MR/h	9591 CPM	9462 CPM
Instrument Efficiency	/			
FLAG	/			
MIDDAY READING	/	NOT USED 225 MR/h	11684 dpm *	11866 dpm *
EVENING READING	/	225 MR/h	11786 dpm *	11689 dpm *
Check Performed By	/			

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG= \* NEW SOURCE AM-241 S# 8920  
 REC 10/8/97 DATE -10-25-83  
 AFTER AM SOURCE CHECK EMISSION RATE 751,000 dpm

Project: SEAD-12

Date:

INSTRUMENTATION

INSTRUMENT TYPE	RANGE METER	MICRO-RANGE METER	SCALED RANGE METER	SCALE RANGE METER
Make			Bicron	
Model			Analyst	
Serial Number			A983 P	
Calibration Date			8/14/97	
PROBE	PANCAKE GM	SAFETY INFORMATION	LOW ENERGY GAMMA	BEAM STOPPING CAPABILITY
Make			Bicron	
Model			G5	
Serial Number			A394 Q	
Calibration Date			8/14/97	
SOURCE	16-99	CS-137	Am-241	Am-241
Source Calibration Date			6/2/97	
Source Serial Number			8921 307511 cpm - Alpha	
Source Emission Rate			307511 cpm - Alpha	
Source Check Reading			16029 cpm	
Background Reading			11714 cpm	
Instrument Efficiency			—	
FLAG			—	
MIDDAY READING			16995	
EVENING READING			17192	
Check Performed By			FO	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/9/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCATTER RATE METER	SCATTER RATE METER	
Make	/	LUCLUM	BICRON	BICRON	
Model		MODEL-19	ANALYST	ANALYST	
Serial Number		109962	A984P	A945P	
Calibration Date				14/08/97	14/08/97
Source		PANCAKE CsM	NEUTRONIAL for Am-241	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	/	N/A	BICRON	BICRON	
Model		1	G-5	G-5	
Serial Number			A398Q	A378Q	
Calibration Date			N/A	14/08/97	14/08/97
Source		Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	/	6/2/97	<sup>(SD)</sup> 6/2/97 <sup>14/25/83</sup>	<sup>(SD)</sup> 6/2/97 <sup>14/25/83</sup>	
Source Serial Number		1845-94	8920	8920	
Source Emission Rate		1.008 MCi	751,000 dpm	751,000 dpm	
Source Check Reading		229 uR/hr	12350 cpm	11832 cpm	
Background Reading		9.3 uR/hr	9905 cpm	9237 cpm	
Instrument Efficiency					
FLAG					
MIDDAY READING			Not used In AM	11952 cpm	11911 cpm
EVENING READING			225 uR/hr	11512 cpm	11539 cpm
Check Performed By			D. Griffiths	D. Griffiths	D. Griffiths

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 10/9/97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE MEASUR	MICROER RANGE MEASUR	SCALE ERROR MEASUR	SCALE ERROR MEASUR
Make			Bicron	
Model			Analyst	
Serial Number			A983P	
Calibration Date			8/14/97	
INSTRUMENT TYPE	RANGE MEASUR	MICROER RANGE MEASUR	SCALE ERROR MEASUR	SCALE ERROR MEASUR
Make			Bicron	
Model			G5	
Serial Number			A394Q	
Calibration Date			8/14/97	
SOURCE	TYPE	TYPE	TYPE	TYPE
Source Calibration Date			6/2/97 <sup>10/25/03</sup>	
Source Serial Number		(CSN)	8921-8920	
Source Emission Rate			251000 dpm	
Source Check Reading			307511 cpm - Alpha	
Background Reading			18758	
Instrument Efficiency			11956	
FLAG			-	
MIDDAY READING			-	
EVENING READING			17016	
Check Performed By			16929	
			F.O.	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/10/97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE MEASUR	MICROSR RANGE MEASUR	SCALE RATE MEASUR	SCALE RATE MEASUR
Make		LUDLUM	BICRON	BICRON
Model		MODEL-19	ANALYST	ANALYST
Serial Number		109962	A984P	A945P
Calibration Date		9/5/97	14/08/97	14/08/97
SOURCE	PANCAKE G-V	NaI (TI) - 400-4000 RANGE	LOW ENERGY GAMMA DETECTORS	LOW ENERGY DETECTORS
Make		N/A	BICRON	BICRON
Model			G-5	G-5
Serial Number			A378Q	A378Q
Calibration Date		N/A	14/08/97	14/08/97
SOURCE	Tc-99	Co-60	Am-241	Am-241
Source Calibration Date		6/2/97	10/25/83	10/25/83
Source Serial Number		1845-94	8920	8920
Source Emission Rate		1.008 $\mu$ Ci	75,000 dpm	25,000 dpm
Source Check Reading		220 $\mu$ R/hr	11737 cpm	11698 cpm
Background Reading		9.5 $\mu$ R/hr	9544 cpm	9567 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		NOT USED	11491 cpm	11423 cpm
EVENING READING		228 $\mu$ R/hr	11441 cpm	11442 cpm
Check Performed By		C. MAJEWSKI	C. MAJEWSKI	C. MAJEWSKI

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 10/10/97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE METER	MICRO-RANGE METER	SOURCE METER	SOURCE METER
Make			BICRON	
Model			ANALYST	
Serial Number			A983P	
Calibration Date			8/14/97	
GROUP	DATE	NAME	LOW ENERGY GAMMA	LOW ENERGY GAMMA
			DISPENSER	DISPENSER
Make			BICRON	
Model			G5	
Serial Number			A394Q	
Calibration Date			8/14/97	
SOURCE	1009	00137	Am-241	Am-241
Source Calibration Date			10/25/83	
Source Serial Number			8920	
Source Emission Rate			75100 dpm	
Source Check Reading			16997	
Background Reading			11597	
Instrument Efficiency			—	
FLAG			—	
MIDDAY READING			16882	
EVENING READING			—	
Check Performed By			F.O.	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/11/97

INSTRUMENTATION

TYPE	DATE MONITOR	MICROBE COUNT RATE	EXPOSURE TIME (MIN)	NET COUNTS
Make	/	LUDLUM	BICRON	BICRON
Model		MODEL-19	ANALYST	ANALYST
Serial Number		109962	A984P	A945P
Calibration Date		9/5/97	14/08/97	14/08/97
Make		N/A	BICRON	BICRON
Model			G-5	G-5
Serial Number			A398Q	A378Q
Calibration Date		N/A	14/09/97	14/08/97
Source Calibration Date		6/2/97	10/25/83	10/25/83
Source Serial Number		1045-94	8920	8920
Source Emission Rate		1.008 uCi	751,000 dpm	751,000 dpm
Source Check Reading		219 uR/hr	12490 cpm	12516 cpm
Background Reading		9.5 uR/hr	9380 cpm	<del>952</del> 9529 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		Not used in AM	11340 cpm	11508 cpm
EVENING READING		220 uR/hr <del>14335 cpm</del>	11335 cpm	11508 cpm
Check Performed By		C. MAJEWSKI	C. MAJEWSKI	C. MAJEWSKI

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/12/97

INSTRUMENTATION

INSTRUMENT ID	RATE METER	SOURCE	DATE	TIME
	/	Ludlum	Bicron	Bicron
	/	Model - 19	Analyst	Analyst
	/	109962	A984P	A945P
	/	9/5/97	14/08/97	8/14/97
	/	N/A	Bicron	Bicron
	/	1	G-5	G-5
	/		A398Q	A378Q
	/	N/A	14/08/97	8/14/97
	/	6/2/97	10/25/83	10/25/83
	/	1845-94	8920	8920
	/	1.008 $\mu$ ci	751000 dpm	751000 dpm
	/	227 HR/h	11790 cpm <del>11770 cpm</del>	11853 cpm
	/	10 $\mu$ R/h	9710 cpm	9435 cpm
	/			
	/			
	/	Not used in AM	12287 cpm	11320 cpm
	/	220 KR/h	11450 cpm	11682 cpm
	/	C. Majors	C. Majors	C. Majors

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 13/OCT/97

INSTRUMENTATION

Make		LUOLUM	BICRON	BICRON
Model		MODEL-19	ANALYST	1
Serial Number		109962	A984P	A945P
Calibration Date		9/5/97	14/08/97	14/08/97
Make		N/A	BICRON	BICRON
Model		1	G-5	G-5
Serial Number			A398Q	A378Q
Calibration Date		NA	14/08/97	14/08/97
Source Calibration Date		6/2/97	10/25/03	10/25/03
Source Serial Number		1845-94	8920	8920
Source Emission Rate		1.008 MCI	751000 dpm	751000 dpm
Source Check Reading		217 MR/hr	11652 cpm	11770 cpm
Background Reading		9.5 MR/hr	9669 cpm	9880 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		did not use till pm	12087 cpm	11736 cpm
EVENING READING		226 MR/hr	11953 cpm	12481 cpm
Check Performed By		C. Majewski	D. Griffiths	C. majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 14/OCT/97

INSTRUMENTATION

TYPE	MODEL NUMBER	MAKE	SCALE FACTOR	SCALE FACTOR
Make		LUDLUM	BICRON	BICRON
Model		MODEL-19	ANALYST	ANALYST
Serial Number		109962	A984P	A945P
Calibration Date		9/5/97	14/08/97	14/09/97
Make		N/A	BICRON	BICRON
Model		1	G-5	G-5
Serial Number			A399Q	A378Q
Calibration Date		N/A	14/08/97	14/08/97
Source Calibration Date		6/2/97	10/25/83	10/25/83
Source Serial Number		1845-94	8920	8920
Source Emission Rate		1.008 $\mu$ Ci	751000 dpm	751000 dpm
Source Check Reading		220 $\mu$ R/h	11612 cpm	11622 cpm
Background Reading		10.25 $\mu$ R/h	9671 cpm	9671 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		Not Used	11832 cpm	11784 cpm
EVENING READING		218 $\mu$ R/h	11375 cpm	11540 cpm
Check Performed By				

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 15/Oct/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO R RATE METER	SCALING RATE METER	SCALING RATE METER
Make	/	LUDLUM	BICRON	BICRON
Model		MODEL 19	ANALYST	ANALYST
Serial Number		109562	A 984P	A 945P
Calibration Date		9/5/97	14/08/97	14/08/97
Make	/	N/A	BICRON	BICRON
Model			G-5	G-5
Serial Number			A 398Q	A 378Q
Calibration Date		N/A	14/08/97	14/08/97
Source Calibration Date	/	6/2/97	10/25/97 <sup>83</sup> (CSN)	10/25/97 <sup>83</sup> (CSN)
Source Serial Number		1845-94	8920	8920
Source Emission Rate		1.008 $\mu$ ci	751000 dpm	751000 dpm
Source Check Reading		202 MR/h	11473 cpm	11810 cpm
Background Reading		9.7 MR/h	9740 cpm	9766 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		Not used	11532 cpm	11498 cpm
EVENING READING		210 MR/h	11274 cpm	12169 cpm
Check Performed By			C. MAJEWSKI	C. MAJEWSKI

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/20/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	Micro-Rem	
		MICROREM RATE METER	SLOW ENERGY GAMMA RATE METER
Make		Ludlum	Bicron
Model		Model - 19	Micro-Rem
Serial Number		109962	C250A
Calibration Date		9/5/97	7/25/97
Probe:	PANCASE 6-M	NAI (C) 100000	LOW ENERGY GAMMA RATE METER
Make			
Model			
Serial Number			
Calibration Date			
Source:	TC-99	CS-137	Am-241
Source Calibration Date		6/2/97	6/2/97 (OR) 10/25/83
Source Serial Number		1845-94	1845-94
Source Emission Rate		1.008 $\mu$ ci	1.008 $\mu$ ci
Source Check Reading		28 $\mu$ R/hr	679 $\mu$ R/hr
Background Reading		8.2 $\mu$ R/hr	5.9 $\mu$ R/hr
Instrument Efficiency			
FLAG			
MIDDAY READING		did not use in AM	did not use in AM
EVENING READING		220 $\mu$ R/hr	did not use in PM
Check Performed By		D. Griffiths	D. Griffiths

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/21/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCATTER RATE METER	SCATTER RATE METER
	/	Ludlum	BICRON	BICRON
Make	/	MODEL-L9	<sup>can</sup> ANALYST	ANALYST
Model	/	109962	A984P	A945P
Serial Number	/	9/5/97	14/08/97	14/08/97
Calibration Date	/			
		NaI(Tl) internal to	LOW ENERGY GAMMA	
Make	/	N/A	BICRON	BICRON
Model	/	1	G-5	G-5
Serial Number	/		A398Q	A378Q
Calibration Date	/	N/A	14/08/97	14/08/97
Source Calibration Date	/	6/2/97	10/25/97 <sup>P3</sup>	10/25/97 <sup>P3</sup>
Source Serial Number	/	184594	8920	8920
Source Emission Rate	/	1.0084 Ci	7500 dpm	75100 dpm
Source Check Reading	/	223 HR/M	11493 cpm 9460 cpm	11594 9443 cpm
Background Reading	/	9.54 HR/M	9460 cpm	9443 cpm
Instrument Efficiency	/			
FLAG	/			
MIDDAY READING	/	NOT-USED	11843 cpm	11461 cpm
EVENING READING	/	220 HR/M	12908 cpm	12939 cpm
Check Performed By	/	C. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date:

INSTRUMENTATION

TYPE	RATE METER	MICRO-RATE METER	SCALING FACTOR	NO. AT 100% EFF.
Make			BICRON	
Model			ANALYST	
Serial Number			A983 P	
Calibration Date			14/08/97	
TYPE	RATE METER	MICRO-RATE METER	SCALING FACTOR	NO. AT 100% EFF.
Make			BICRON	
Model			G-5	
Serial Number			A394 Q	
Calibration Date			8/14/97	
Source Calibration Date			6/2/97	
Source Serial Number			1845-94	
Source Emission Rate			1.008 $\mu$ Ci	
Source Check Reading			OUT CH#2 1662 cpm 1552 cpm	
Background Reading			1145 cpm 805 cpm	
Instrument Efficiency				
FLAG				
MIDDAY READING			1292 cpm 1388 cpm	
EVENING READING			18416 cpm 1305 cpm	
Check Performed By			C. Mayers	

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =

↑                      ↑  
 AM-241              CS-137  
 1405/97  
 8920  
 75,000 cpm

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: 10/21/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCINTILLATION COUNTER	SCINTILLATION COUNTER
Make			BICRON	BICRON
Model			Micro Rem	Micro Rem
Serial Number			C250A	C251A
Calibration Date			7/25/97	7/25/97
Make				
Model				
Serial Number				
Calibration Date				
Source Calibration Date			6/2/97	4/2/97
Source Serial Number			1P45-94	1P45-94
Source Emission Rate			1.0084 Ci	1.0084 Ci
Source Check Reading			6824 Rem/hr	
Background Reading				NOT
Instrument Efficiency				
FLAG				US
MIDDAY READING			NOT USED	BA
EVENING READING			NOT USED	
Check Performed By			C. Meyer	C.S. MASONSKI

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/22/97

INSTRUMENTATION

DATE	RATE	VOLUME	SCALE	SCALE
Make		LUDLUM	BICRON	BICRON
Model		MODEL-19	ANALYST	ANALYST
Serial Number		109962	A984P	A945P
Calibration Date		9/5/97	14/08/97	14/08/97
Make		N/A	BICRON	BICRON
Model		/	G-5	G-5
Serial Number			A398Q	A378Q
Calibration Date		N/A	14/08/97	14/08/97
Source Calibration Date		6/2/97	10/25/97 <sup>P3</sup> (CS)	10/25/97 <sup>P3</sup> (CS)
Source Serial Number		1845-94	8920	8920
Source Emission Rate		1.00 $\mu$ R/h	75,000 dpm	75,000 dpm
Source Check Reading		233 $\mu$ R/h	11711 cpm	12120 cpm
Background Reading		9.6 $\mu$ R/h	9519 cpm	9258 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		228 $\mu$ R/h	11657 cpm	11517 cpm
EVENING READING		220 $\mu$ R/h	114 <sup>49</sup> cpm	11425 cpm
Check Performed By		C. M. Sawski	C. Majors	C. S. Majors

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: 14/22/97

INSTRUMENTATION

		channel - 00T		channel - 2	
MAKE	RATE METER	MICRO R RATE METER	SOURCE RATE METER	NO. NUMBER	NO. NUMBER
Make			Bicron		Bicron
Model			ANALYST		ANALYST
Serial Number					A983P
Calibration Date					
MAKE	RATE METER	MICRO R RATE METER	POWER ENERGY EXAMIN.	NO. NUMBER	NO. NUMBER
Make			Bicron		
Model			G-5		
Serial Number			A394Q		
Calibration Date			8/14/97		
Source Calibration Date			10/25/97 <sup>(LST)</sup>		6/2/97
Source Serial Number			8920		1845-24
Source Emission Rate			751000dpm		1.00dpm
Source Check Reading			16800 <sup>(DAG)</sup> +1250 cpm		836 cpm
Background Reading			11250 <sup>(DAG)</sup> -836 cpm		156 cpm
Instrument Efficiency					
FLAG					
MIDDAY READING			16826 cpm		1351 cpm
EVENING READING			16501 cpm		1315 cpm
Check Performed By			C. Majewski		C. MAJEWSKI

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Site: Seneca Army Depot Activity  
 Project: SEAD-12  
 Date: 10/21/97

INSTRUMENTATION

NOT used

INSTRUMENT TYPE	OPERATOR	MICROREM SERIAL NUMBER	SEAL POINT (DATE TEST)	NO. OF TESTS
Make	/	LUDLUM	BICRON	
Model	/	MOD-2L-12	Micro Rem	
Serial Number	/	102850	C250A	
Calibration Date	/	9/28/97	7/25/97	
Make	/	LUDLUM <del>14495 (cm)</del>	N/A	
Model	/	44-62-2	/	
Serial Number	/	14495	N/A	
Calibration Date	/	9/28/97	N/A	
Source Calibration Date		9/2/97	9/2/97	
Source Serial Number		1845-94	1845-94	
Source Emission Rate		1.0084 Ci	1.0084 Ci	
Source Check Reading		46500 cpm		
Background Reading		_____		
Instrument Efficiency			Not Used	
FLAG			Used	
MIDDAY READING		Not used in Am		
EVENING READING		45000 cpm		
Check Performed By		D. Griffith		

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =

Project: SEAD-12

Date: 10/23/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SIGNAL RATE METER	SIGNAL RATE METER
Make	/	LUDLUM	BICRON	BICRON
Model	/	MODEL-19	ANALYST	ANALYST
Serial Number	/	109962	A945P	A945P
Calibration Date	/	9/5/97	14/08/97	14/08/97
Make	/	NA	BICRON	BICRON
Model	/	/	G-5	G-5
Serial Number	/	/	A378G	A378G
Calibration Date	/	NA	14/08/97	14/08/97
Source Calibration Date	/	6/2/97	10/25/97 <sup>83</sup>	10/25/97 <sup>83</sup>
Source Serial Number	/	1845-54	8920	8920
Source Emission Rate	/	1.008 $\mu$ ci	75/050 dpm	75/050 dpm
Source Check Reading	/	226 $\mu$ R/h	11494 cpm	11498 cpm
Background Reading	/	8.9 $\mu$ R/h	9476 cpm	9086 cpm
Instrument Efficiency	/			
FLAG	/			
MIDDAY READING	/	Not used	11449 cpm	11454 cpm
EVENING READING	/	222 $\mu$ R/h	11000 cpm	11198 cpm
Check Performed By	/	C. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/23/97

INSTRUMENTATION

Channel-001 Channel #2

TYPE	RATE METER	MICROSR RATE METER	SEAL/CRACK NUMBER	SEAL/CRACK NUMBER
Make			Bicron	Bicron
Model			ANALYST	
Serial Number			A983 P	
Calibration Date				
TYPE	RATE METER	MICROSR RATE METER	SEAL/CRACK NUMBER	SEAL/CRACK NUMBER
Make			Bicron	Bicron
Model			G-5	
Serial Number			A-394Q	
Calibration Date			8/14/97	
Source Calibration Date			10/25/97	6/2/97
Source Serial Number			2920	1845-97
Source Emission Rate			751000 dpm	1.008 MCi
Source Check Reading			16755 cpm	1337 cpm
Background Reading			11565 cpm	805 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING			16500 cpm	<del>1730</del> 1730 cpm
EVENING READING			16587 cpm	1325 cpm
Check Performed By			C. Majewski	C. May

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 10/25 97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALPOT RATE METER	SCALPOT RATE METER
Make	/	Ludlum		/
Model	/	MODEL-12		/
Serial Number	/	102850		/
Calibration Date	/	9/22/97		/
INSTRUMENT TYPE	RANGE G-M	SCALE	LOW ENERGY GAMMA	SCALE
Make	/	Ludlum		/
Model	/	HY-62-2		/
Serial Number	/	14495		/
Calibration Date	/	9/22/97		/
Source Calibration Date	/	6/2/97		/
Source Serial Number	/	1845-94		/
Source Emission Rate	/	1.008 $\mu$ Ci		/
Source Check Reading	/	42400 CPM		/
Background Reading	/			/
Instrument Efficiency	/			/
FLAG	/	Not Used		/
MIDDAY READING	/			/
EVENING READING	/			/
Check Performed By	/			/

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =



Project: SEAD-12

Date: 10/24/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	NaI(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel		N/A	out	out
Source Check Reading		222 $\mu$ l/hr	11866 cpm	11981 cpm
Background Reading		9.6 $\mu$ l/hr	9840 cpm	9660 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING		Not used in AM	11714 cpm	11952 cpm
EVENING READING		215 $\mu$ l/hr	11839 cpm	11785 cpm
Check Performed By		C. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/24/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATE METER	SCALER/RATE METER
Make	Ludlum		Bicron	Bicron
Model	Model 12		Analyst	Analyst
Serial Number	102850		A983P	A983P
Calibration Date	28-Sep-97		14-Aug-97	14-Aug-97
PROBE	Nal(Tl)	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum		Bicron	Bicron
Model	Model 44-62-2		G-5	G-5
Serial Number	14495		A394Q	A394Q
Calibration Date	28-Sep-97		14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97		25-Oct-83	2-Jun-97
Source Serial Number	1845-94		8920	1845-94
Source Emission Rate	1.008 uCi		751,000 dpm	1.008 uCi
Instrument Channel	N/A		Ch. Out	Ch. 2
Source Check Reading	41600 cpm		16500 cpm	1563 cpm
Background Reading	N/A		10900 cpm	790 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	Not used in AM		Not used in AM	Not used AM
EVENING READING	42000 cpm		17500 cpm	16000 cpm
Check Performed By	C. Majewski		D. Griffiths	C. Majewski

HU

1.42 Kr

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/25/97

## INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	N/A	N/A	out	out
Source Check Reading	1490 cpm	208 µR/hr	11905 cpm	12051 cpm
Background Reading	59 cpm	9.45 µR/hr	10036 cpm	10207 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	1500 cpm	Not used AM	11696 cpm	11627 cpm
EVENING READING	1350 cpm	220 µR/hr	11587 cpm	11619 cpm
Check Performed By	C. Majewski	D. Griffiths	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/25/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum		Bicron	Bicron
Model	Model 12		Analyst	Analyst
Serial Number	102850		A983P	A983P
Calibration Date	28-Sep-97		14-Aug-97	14-Aug-97
PROBE	Nal(Tl)	Nal(Tl) (internal to ratemeter)	LOW-ENERGY GAMMA DETECTOR	LOW-ENERGY GAMMA DETECTOR
Make	Ludlum		Bicron	Bicron
Model	Model 44-62-2		G-5	G-5
Serial Number	14495		A394Q	A394Q
Calibration Date	28-Sep-97		14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97		25-Oct-83	2-Jun-97
Source Serial Number	1845-94		8920	1845-94
Source Emission Rate	1.008 uCi		751,000 dpm	1.008 uCi
Instrument Channel	N/A		Ch. Out	Ch. 2
Source Check Reading	42000 cpm		17400 cpm	1470 cpm
Background Reading	N/A		15500 cpm	885 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	Not used AM		16000 cpm	1550 cpm
EVENING READING	42000 cpm		15500 cpm	1550 cpm
Check Performed By	C. Majewski		D. Griffiths	D. Griffiths

HU

1.30 KV

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/27/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	—	—	OUT	OUT
High Voltage	—	—	1.3KV	1.2KV
Source Check Reading	CSM <del>227</del> 1445 cpm	227 uR/hr	11360 cpm	11402 cpm
Background Reading	51 cpm	9.55 uR/hr	9729 cpm	9775 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	NOT USED	NOT USED	NOT USED IN AM	NOT USED IN AM
EVENING READING	1500 cpm	222 uR/hr	10990 cpm	10809 cpm
Check Performed By	C. Majewski	C. MOJOWSKI	C. MAJAWSKI	C. majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 10/27/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	Na(I)	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	G-5	G-5
Serial Number	14495	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	Ch. Out	Ch. 2
High Voltage	-	OK	1.4KV	1.4KV
Source Check Reading	46700 cpm	1010 MRem/h	16700 cpm	1555 cpm
Background Reading	N/A	6.7 MRem/h	11350 cpm	810 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	40500 cpm	NOT USED	17000 cpm	1750 cpm
EVENING READING	38500 cpm	1000 MRem/h	16000 cpm	1700 cpm
Check Performed By	C. MAJEWski	C. MAJEWski	C. MAJEWski	C. MAJEWski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Micro-R 109962 NO HU

Source Cs-137 Background

232	①	9.25
228	②	10.0
220	③	10.25
225	④	9.5
230	⑤	8.75
<u>227 Ave</u>		<u>9.55</u>

MR/h

Model-12 S/N 102202/117100

Source Cs 137

①	46000 cpm	
②	48000 cpm	
③	47000 cpm	
④	46500 cpm	
⑤	46000 cpm	
<u>Ave</u>		<u>46700</u>

W/A

Date  
mon  
10/27/97

Mod 3 pancake 94360/092307

Source (Tc-99) Background

1400 cpm	①	55
1450 cpm	②	55
1350 cpm	③	60
1500 cpm	④	45
1525 cpm	⑤	40
<u>1445 Ave</u>		<u>51</u>

Bicron 945P/378Q HV=1.2KV

Source Am-241 Background

11412	①	9770
11201	②	9714
11456	③	9923
11547	④	9834
11392	⑤	9636
<u>11402 Ave</u>		<u>9775</u>

C.P.M.'s

Bicron S/N 983P/394Q HV=1.4KV

Source out (Am241)	chan 2 (Cs 137)	Background out	chan 2
16500 cpm	① 1450 cpm	11500	① 825
16000	② 1600	11000	② 875
16800	③ 1750	11500	③ 800
17000	④ 1400	11750	④ 825
17200 cpm	⑤ 1550 cpm	11000	⑤ 725
<u>16,700 Ave</u>		<u>11350 Ave</u>	<u>810</u>

Bicron 984P/398Q

Source Am241	Bkg HV=1.3KV	
11537	① 9946	
11189	② 9591	
11329	③ 9928	
11429	④ 9724	
11306	⑤ 9456	
<u>11360 Ave</u>		<u>9729</u>

C.P.M.

Bicron Micro-Rem HV=0K

Bkg	Source	MR/h
6	①	1020
7	②	1000
8	③	1000
6.5	④	1020
6	⑤	1010
<u>6.7 Ave</u>		<u>1010</u>

10/27/97

Milano R - Model 19 S/N 109962  
BK9

~~19.25~~ ①

② 10.0

③ 10.25

④ 9.5

⑤ 8.75

BK9

APPSP

HV = 1.4 KV (ANDY'S)

OUT CH#2

11500 825 ①

11000 875 ②

11500 800 ③

11750 825 ④

11000 725 ⑤

Ludun Pancake - Model 3 NOHV.

~~55~~ ①

55 ②

60 ③

45 ④

40 ⑤

PM



Project: SEAD-12

Date: 10/28/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	NaI(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	-	-	OUT	OUT
High Voltage	N/A	N/A	1.3KV	1.2KV
Source Check Reading	1522 cpm	0.34 MR/h	10750 cpm	10624 cpm
Background Reading	53 cpm	0.73 MR/h	9404 cpm	9305 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	1400 cpm	2.55 MR/h		
EVENING READING	1500 cpm	2.10 MR/h	10959 cpm	10876 cpm
Check Performed By	C. Majewski	C. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: 10/28/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	SCALER/RATE METER	SCALER/RATE METER
Make	Ludlum	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(FI)	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	G-5	G-5
Serial Number	14495	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	Ch. Out	Ch. 2
High Voltage	—	OK	1.3 KV 15850 cpm	—
Source Check Reading	46200 <del>4200</del> cpm	660 $\mu$ Rom/hr	15850 11150 cpm	785 cpm
Background Reading	N/A	59 $\mu$ Rom/hr	11150 cpm	NOT DONE
Instrument Efficiency				
FLAG				
MIDDAY READING	None Taken	650 $\mu$ Rom/hr	16000 cpm	Ch #2 not used
EVENING READING	39000 $\mu$ Rom/hr	650 $\mu$ Rom/hr	15,500 cpm	Ch #2 not used
Check Performed By	C. Majewski	C. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Model 3 Pancake  
S/N 94360/092307

Source (Tc-99)	Background
CPM 1500 (1)	50 CPM
1475 (2)	55
1500 (3)	60
1560 (4)	50
1575 (5)	50
CPM 1522 Ave	53 CPM

Model - 12 S/N 102850  
Source (Cs-137)

(1)	46000	CPM
(2)	46500	CPM
(3)	45500	CPM
(4)	47000	CPM
(5)	46000	CPM
Ave	46200	

TUE  
10/29/9

Micro-R S/N 109962  
Source (Cs-137) Background

235 $\mu$ R/hr (1)	9.25 MR/h
238 (2)	8.5
230 (3)	8.25
240 (4)	8.9
228 $\mu$ R/hr (5)	8.75
Ave	8.73

234

Micro-Rem S/N C250A  
Source (Cs-137) Background

700 $\mu$ rem/hr (1)	5.5 MR/h
650 $\mu$ rem/hr (2)	5.75
680 $\mu$ rem/hr (3)	6.5
620 $\mu$ rem/hr (4)	5.0
650 $\mu$ rem/hr (5)	6.75
Ave	5.9

660 HU = OK

HV = 1.3KV BICRON S/N 983P

Source	BKG
AM241	OUT CH #2
OUT 15500 CPM (1)	11250 CPM 825
16750 (2)	10750 750
15500 (3)	11500 875
16000 (4)	11500 750
16500 (5)	10750 725
15850 CPM(AVE)	11150 CPM 785

BICRON S/N 945P HV = 1.2KV

Source AM-241	BKG
CPM 10780 (1)	9406 CPM
10717 (2)	9279
10428 (3)	9641
10789 (4)	9410
10656 (5)	9186
Ave	9385
10674	

BICRON S/N 984P HV = 1.3KV  
AM-241 Source BKG

CPM 10803 (1)	9544 CPM
10731 (2)	9401
10668 (3)	9555
10601 (4)	9545
10696 (5)	8916
Ave	9404
10700	

Project: SEAD-12

Date: 10/29/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	NaI(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	-	-	out	out
High Voltage	-	-	1.3 kV	1.2 kV
Source Check Reading	1440 cpm	218 MR/h	11250 cpm	<sup>CM</sup> 11371 cpm
Background Reading	51 cpm	9.6 MR/h	9755 cpm	9725 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	NOT USED PM	NOT DONE	NOT USED AM	NOT USED AM
EVENING READING	1480 cpm	220 MR/h	11222 cpm	11238 cpm
Check Performed By	C. Majewski	C.S. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: 10/29/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	SCALER/RATE METER	SCALER/RATE METER
Make	Ludlum	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	Na(Tl)	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	G-5	G-5
Serial Number	14495	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	Ch. Out	Ch. 2
High Voltage	-	OK	1.4KV	1.2KV
Source Check Reading	4740CPM	1005 $\mu$ Rem/h	16250CPM	Ch. 2 NOT DONE
Background Reading	N/A	5.86 $\mu$ Rem/h	11405CPM	" "
Instrument Efficiency				
FLAG				
MIDDAY READING	not Done	NOT DONE PM	NOT DONE	
EVENING READING	50000	1050 $\mu$ Rem/h	16000CPM	" "
Check Performed By	C. Mayfield	C. Mayfield	C. Mayfield	C. Mayfield

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

CLIENT \_\_\_\_\_ JOB NO. \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 SUBJECT Source/Bkg Checks BY CSM/DRG DATE 10/29/97  
 CKD. \_\_\_\_\_ REVISION \_\_\_\_\_

Bicron A8P3P OUT  
 Source Am241 Bkg HV=1.4KV  
 16500 ① 11500  
 16250 ② 11500  
 16000 ③ 11250  
 16250 ④ 11000  
 16000 ⑤ 11250  
 ✓ 16200 Ave 11400 CPM ✓

model -12 S/N 144955/102850  
 Source Cs-137  
 ① 48000 cpm  
 ② 46500 cpm  
 ③ 47500 cpm  
 ④ 47000 cpm  
 ⑤ 48000 cpm  
 Ave 47400 CPM ✓

HV=1.3KV Bicron 984P OUT  
 Source Bkg CPM  
 11381 ① 9817  
 11275 ② 9725  
 11278 ③ 9738  
 11242 ④ 9867  
 11075 ⑤ 9633  
 ✓ 11250 Ave 9755 ✓

model 3 S/N 94360/092307  
 Source (Cs-137) Background  
 1550 cpm ① 40 cpm  
 1400 cpm ② 50  
 1380 cpm ③ 60  
 1420 cpm ④ 55  
 1450 cpm ⑤ 50  
 1440 Ave 51 cpm ✓

HV=1.02 Bicron 945P OUT  
 Source Bkg CPM  
 11390 1 9629  
 11340 2 9652  
 ✓ 11347 3 9917  
 11406 4 9788  
 11372 5 9640  
 11371 Ave 9725 ✓

Micro-R S/N 109962  
 220 uR/hr ① 10 uR/hr  
 215 uR/hr ② 9.0  
 218 uR/hr ③ 9.75  
 212 uR/hr ④ 9.25  
 225 uR/hr ⑤ 10.0  
 218 uR/hr Ave 9.6  
 Source (Cs-137) Background

HV=0K Micro Rom -250A  
 Source Cs-137 Bkg uR/hr  
 1025 uR/hr ① 6.5  
 975 ② 5.5  
 1000 ③ 5.75  
 1025 ④ 5.0  
 ✓ 1000 ⑤ 6.5  
 1005 Ave 5.86

NOTE:  
 1 CS-137 - Yellow LABEL TO Probe  
 2 ✓ = Transferred Ave TO Daily sheet

Project: SEAD-12

Date: 11/3/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	—	—	OUT	OUT
High Voltage	—	—	1.3KV	1.2KV
Source Check Reading	1464 cpm	214 MR/h	11608 cpm	11554 cpm
Background Reading	53.5 cpm	9.12 MR/h	9444 cpm	9404 cpm
Instrument Efficiency				
FLAG				
MIDDAY READING	1425 cpm	230 MR/h	NOT USED	NOT USED
EVENING READING	1550 cpm	NOT USED	" "	" "
Check Performed By	C. Majewski	C. Majewski	C. Majewski	C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: 11/3/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(Tl)	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	G-5	G-5
Serial Number	14495	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	Ch. Out	Ch. 2
High Voltage	-	OK	1.3KV	
Source Check Reading	47200 (0.26) CPM	1020 $\mu$ R/hr	16600 CPM	
Background Reading	-	3.95 $\mu$ R/hr	11300 CPM	
Instrument Efficiency				
FLAG				
MIDDAY READING	47500 cpm	1025 $\mu$ R/hr	16000 CPM	
EVENING READING	48000 cpm	1000 $\mu$ R/hr	NOT USED PM	
Check Performed By	P. Griffiths	C. Mayewski	C. Mayewski	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



Project: SEAD-12

Date: 11/3/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Analyst	Analyst
Serial Number	102850	<del>C250A</del> C251A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(Tl)	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	G-5	G-5
Serial Number	14495	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	Ch. Out	Ch. 2
High Voltage		—		
Source Check Reading		971 <i>µR/hr</i>		
Background Reading		5.8 <i>µR/hr</i>		
Instrument Efficiency				
FLAG				
MIDDAY READING		Not used		
EVENING READING		u u		
Check Performed By		<i>C. Majewski</i>		

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 11/2/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109912 109962 <i>AB5</i>	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel		-		
High Voltage		290 <i>MR/h</i>		
Source Check Reading		108 <i>MR/h</i>		
Background Reading				
Instrument Efficiency				
FLAG				
MIDDAY READING		NOT USED		
EVENING READING		NOT USED		
Check Performed By		<i>C. Majewski</i>		

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

CLIENT \_\_\_\_\_  
 SUBJECT Source Checks

JOB. NO. \_\_\_\_\_ SHEET 1 OF 2  
 BY \_\_\_\_\_ DATE 11/3/97  
 CKD. \_\_\_\_\_ REVISION \_\_\_\_\_

① 9837 HV = ~~1.3~~ <sup>1.3</sup> KV  
 Source OUT Bkg <sup>cpm</sup>

16500	①	11250	cpm
16000	②	11500	
15750	③	11250	
16000	④	11500	
16250	⑤	11000	
16100	Ave	11300	cpm

⑤ MICRO Rem HV = OK ✓  
 Cs-137 Bkg

1020	µrem/hr	①	7.0	µrem/hr
980	µrem/hr	②	5.25	
1050	µrem/hr	③	6.0	
1060	µrem/hr	④	5.5	
990	µrem/hr	⑤	6.0	
1020	µrem/hr	Ave	5.95	µrem/hr

✓ ② 984D HV = 1.3KV  
 Source Bkg <sup>cpm</sup>

11131	<del>9444</del>	①	9582	
11076	<del>9446</del>	②	9300	
11002		③	9746	
11170		④	9415	
11159		⑤	9181	
11108	Ave		9444	cpm

⑥ 1099 ~~2~~ <sup>model-19</sup>  
 Cs-137 Bkg

1550	①	55.	CPM
1400	②	45.	
14200	③	57.5	
1500	④	50.	
1450	⑤	60.	
1464	Ave	53.5	cpm

✓ ③ 945D HV = 1.2KV  
 Source Bkg <sup>cpm</sup>

11266	①	9441	cpm
11588	②	9264	
11552	③	9611	
11729	④	9460	
11636	⑤	9243	
11554	Ave	9404	cpm

⑧ MODEL-12 Downhole  
 Source (Cs-137)

①	460	cpm
②	470	cpm
③	475	cpm
④	482	cpm
⑤	475	cpm
Ave	472	cpm

N/A ✓

✓ ④ Cs-137 MICRO R <sup>Model-19</sup>  
 Source 109962 Bkg <sup>µrem/hr</sup>

218	①	9.25	µrem/hr
215	②	9.0	
215	③	8.9	
212	④	9.9	
219	⑤	9.0	
216	Ave	9.21	

⑨ Micro-Rem C251A HV: OK  
 Source (Cs-137) Background

950	µrem/hr	①	
1050	µrem/hr	②	
980	µrem/hr	③	See Pg 2
940	µrem/hr	④	
1000	µrem/hr	⑤	
Ave			

See Pg 2

CLIENT Micro Rem / Micro R  
 SUBJECT Initial Source Check  
9NC251A CS-137

JOB. NO. \_\_\_\_\_ SHEET 2 OF 2  
 BY \_\_\_\_\_ DATE 11/3/97  
 CKD. \_\_\_\_\_ REVISION \_\_\_\_\_

Micro Rem CS-137  
 Source Bkg  
 950 ① 7.25  
 1050 ② 6.0  
 950 ③ 6.0  
 940 ④ 6.25  
 1000 ⑤ 5.25  
 950 ⑥ 5.75  
 940 ⑦ 5.9  
 950 ⑧ 5.75  
 980 ⑨ 4.0  
 970 ⑩ 6.0  
 - ⑪ -  
 - ⑫ -  
~~Micro R~~  
 - ⑬ -  
 - ⑭ -  
 - ⑮ -  
 971 AVE 5.8 M Rem/hr

Micro R 9NC251A  
 Source Bkg MR/h  
 290 ① 11.5  
 290 ② 11.25  
 295 ③ 11.0  
 295 ④ 10.5  
 290 ⑤ 10.25  
 290 ⑥ 10.0  
 295 ⑦ 10.75  
 290 ⑧ 10.25  
 290 ⑨ 10.75  
 285 ⑩ 11.25  
 - ⑪ -  
 - ⑫ -  
 - ⑬ -  
 - ⑭ -  
 - ⑮ -  
 290 Ave 10.8 MR/h

11/3  
 Original in CAL stat  
 FILE

Project: SEAD-12

Date: 11/4/97

INSTRUMENTATION

INSTRUMENT TYPE	RAVE MICRO	MICROSE RAVE MICRO	MICROSE RAVE MICRO	SCAVER/ANALYST	SCAVER/ANALYST
Make	Ludlum	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Model 19	Analyst	Analyst
Serial Number	94360	109912	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PAKAGE 4-M	N/A (Minimal)	N/A (Minimal)	LOW ENERGY GAMMA	LOW ENERGY GAMMA
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	44-9	N/A	N/A	G-5	G-5
Serial Number	92307	N/A	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	N/A	14-Aug-97	14-Aug-97
Source	IC-97	IC-97	IC-97	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	-				
High Voltage	-				
Source Check Reading	1550 cpm	295 uR/h	231 uR/h		
Background Reading	55 cpm	11.65 uR/h	9.1 uR/h		
Instrument Efficiency					
FLAG					
MIDDAY READING	Not Done	285 uR/h	Not Done		
EVENING READING	1450 cpm	290 uR/h	219 uR/h		
Check Performed By	C. Meyers	C. Meyers	C. Meyers		

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project SEAD-12

Date: 11/4/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	C251A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	N/A	Not Applicable	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	N/A	G-5	G-5
Serial Number	14495	N/A	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	N/A	14-Aug-97	14-Aug-97
Source:	CS-137	CS-137	CS-137	Am-241	CS-137
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	N/A	Ch. Out	Ch. 2
High Voltage	.94KV	OK	OK		
Source Check Reading	40660 cpm	1025 H/m/k	950 H/m/k		
Background Reading	N/A	6.55 H/m/k	6.0 H/m/k		
Instrument Efficiency					
FLAG					
MIDDAY READING	Not used	1000 H/m/k	NOT DONE		
EVENING READING		1025 H/m/k	940 H/m/k		
Check Performed By	CSM/gj	CSM/gj	CSM/gj		

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

CLIENT \_\_\_\_\_ JOB NO. \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 SUBJECT Source Checks BY \_\_\_\_\_ DATE 11/4/97  
 CKD. \_\_\_\_\_ REVISION \_\_\_\_\_

Bicron - Micro Rem

S/N 250 A			CS-137	S/N 251 A			HU=OK
Source		Bkg		Source		Bkg	
1025	①	6.5		950	M/Rem/h	①	6.0
1050	②	5.75		1000		②	6.0
1050	③	6.5		925		③	6.5
1000	④	4.0		950		④	6.5
1000	⑤	8.0		950		⑤	5.0
<u>1025 Ave 6.55</u>					<u>950 M/Rem/h Ave 6.0</u>		

*Handwritten notes: HU=OK, M/Rem/h*

Ludlum Micro - R

S/N 109912			CS-137	S/N 109962			MR/h
S		B		S		B	
298	①	12.5		230	①	9	
298	②	12.25		230	②	9.2	
290	③	11.0		231	③	9	
290	④	11.5		230	④	9	
298	⑤	11.0		234	⑤	9.25	
<u>295 Ave 11.65</u>					<u>231 Ave 9.1</u>		

*Handwritten notes: MR/h*

Powcaly - Ludlum Model - 3

S 1600			TC-55	S 1600			
		Bkg					
1450	①	65		1450	①	60	
1550	②	45		1550	②	60	
1550	③	60		1600	③	45	
1600	④	45		<u>1550 Ave 55</u>			
<u>1550 Ave 55</u>					<u>1550 Ave 55</u>		

*Handwritten notes: CPM, CPM*

CLIENT \_\_\_\_\_  
SUBJECT Some Chords.

JOB. NO. \_\_\_\_\_  
BY \_\_\_\_\_  
CKD. \_\_\_\_\_

SHEET 2 OF 2  
DATE 11/4/97  
REVISION \_\_\_\_\_

*Downhole*  
Model 12

HU = .94KV

- 41000 cpm (1)
- 40800 (2)
- 41000 (3)
- 40000 (4)
- 40500 (5)

CS-137

40660



Project: SEAD-12

Date: 1/5/97

INSTRUMENTATION

INSTRUMENT TYPE	RANGE METER	MICROUR RANGE METER	MICROUR RANGE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Ludlum	Bicon	Bicon
Model	Model 3	Model 19	Model 19	Analyst	Analyst
Serial Number	94360	109912	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAVE-G-V	NaI(Tl) (internal to range meter)	NaI(Tl) (internal to range meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicon	Bicon
Model	44-9	N/A	N/A	G-5	G-5
Serial Number	92307	N/A	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	-	-	-	OUT	OUT
High Voltage	-	-	-	1.3 kV	1.2 kV
Source Check Reading	1430 cpm	305 $\mu$ R/h	229 $\mu$ R/h	10963 cpm	11212 cpm
Background Reading	55 cpm	11.8 $\mu$ R/h	9.11 $\mu$ R/h	9533 cpm	9288 cpm
Instrument Efficiency					
FLAG					
MIDDAY READING	Not Done	Not Done	Not Done	11413 cpm	11321 cpm
EVENING READING	1500 cpm	290 $\mu$ R/h	228 $\mu$ R/h	11220 cpm	11146 cpm
Check Performed By	C. Majewski	C. Majewski	C. Majewski	C. MAJEWSKI	C. MAJEWSKI

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: 11/5/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	C251A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(Tl)	Not Applicable	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	N/A	G-5	G-5
Serial Number	14495	N/A	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	1.008 uCi	751.000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	N/A	Ch. Out	Ch. 2
High Voltage	9.5KV	OK	OK	1.4KV	
Source Check Reading	4690 cpm	1001 $\mu$ Rom/hr	966 $\mu$ Rom/hr	15700 cpm	
Background Reading	<del>4090 cpm</del> N/A	6.17 $\mu$ Rom/hr	5.8 $\mu$ Rom/hr	10900 cpm	
Instrument Efficiency					
FLAG					
MIDDAY READING	Not Done	Not Done	Not Done	Not Done	
EVENING READING	42000 cpm	1000 $\mu$ Rom/hr	970 $\mu$ Rom/hr	16000 cpm	
Check Performed By	C. Majewski	C. Majewski	C. Majewski	C. Majewski	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 11/17/97

INSTRUMENTATION

INSTRUMENT NAME	RANGE METER	MICROER RATE METER	MICROER RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Model 19	Analyst	Analyst
Serial Number	94360	109912	109962	A984P	(A945P)
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKI-6-M	NaI(Tl) (internal to rate meter)	NaI(Tl) (internal to rate meter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	44-9	N/A	N/A	G-5	G-5
Serial Number	92307	N/A	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	-				OUT
High Voltage	-				1.2KV
Source Check Reading	1490 cpm	201 HR/h	201 HR/h		1003 cpm
Background Reading	51 cpm	8.4 HR/h	8.4 HR/h		8525 cpm
Instrument Efficiency					
FLAG					
MIDDAY READING	NOT USED				
EVENING READING	1500 cpm	NOT USED	222 HR/h		NOT USED
Check Performed By	C. Majewski	C. Majewski	C. Majewski		C. Majewski

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 11/17/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	C251A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(Tl)	Not Applicable	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	N/A	G-5	G-5
Serial Number	14495	N/A	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	N/A	Ch. Out	Ch. 2
High Voltage		OK			
Source Check Reading		1002 dpm/hr			
Background Reading		5.7 dpm/hr			
Instrument Efficiency					
FLAG					
MIDDAY READING		Not used			
EVENING READING		980 dpm/hr			
Check Performed By		C. Mayes			

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 11/17/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	61402 <del>94360</del>	109962	A984P	A945P
Calibration Date	30 <del>17</del> -Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	NaI(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	PRO51754 <del>92307</del> CM	N/A	A398Q	A378Q
Calibration Date	30 <del>17</del> -Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	-			
High Voltage	-			
Source Check Reading	869 CPM			
Background Reading	21.3 CPM			
Instrument Efficiency				
FLAG				
MIDDAY READING				
EVENING READING				
Check Performed By				

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

CLIENT SENECA ARMY DEPOT  
 SUBJECT DAILY SOURCE CHECKS

JOB. NO. \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 BY \_\_\_\_\_ DATE 11/17/97  
 CKD. \_\_\_\_\_ REVISION \_\_\_\_\_

Units - CPM  
 S/N 984 P/3844  
 HV =  
 Source BKG  
 ①  
 ②  
 ③  
 ④  
 ⑤  
 Ave

BICRON ANALYST  
 S/N 945 P/  
 HV = 1.2KV  
 Source BKG  
 10034 ① ~~8584PS~~  
 10135 ② 8526  
 10204 ③ 8817  
 9997 ④ 8615  
 9789 ⑤ 8501  
10032 Ave 8589

S = AM - 241  
 S/N 983 P/3-  
 HV =  
 Source BKG  
 ①  
 ②  
 ③  
 ④  
 ⑤  
 Ave

Units - HR/HR  
 S/N 10992  
 Source BKG  
 290 19.0  
 280 28.4  
 275 38.2  
 280 48.5  
 282 58.0  
281 Ave 8.4

MICRO - R - Ludlum S = CS - 137  
 S/N 109962  
 Source BKG  
 205 ① 8.5  
 200 ② 8.0  
 200 ③ 7.9  
 200 ④ 8.75  
 202 ⑤ 8.9  
201 Ave 8.4

Units - MRem/hr  
 S/N 250A HV = OK  
 Source BKG  
 1000 ① 5.75  
 1000 ② 5.5  
 1010 ③ 5.5  
 975 ④ 6.0  
 1025 ⑤ 5.75  
1002 Ave 5.7

MICRO-REM - BICRON S = CS - 137  
 S/N 251A HV =  
 Source BKG  
 ①  
 ②  
 ③  
 ④  
 ⑤  
 Ave

PANCAKE S/N 94360 S = TC - 99  
 Source BKG  
 1400 ① 55  
 1500 ② 45  
 1400 ③ 50  
 1550 ④ 60  
 1600 ⑤ 45  
1490 Ave 51 cpm  
 UNITS - CPA  
 model 3

Downhole S/N 102850 S = CS - 137  
 Source BKG  
 ①  
 ②  
 ③  
 ④  
 ⑤  
 UNITS - CPA  
 model - 12  
 HV =

Project: SEAD-12

Date: 11/18/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Analyst	Analyst
Serial Number	94360	109962	A984P	A945P
Calibration Date	17-Oct-97	5-Sep-97	14-Aug-97	14-Aug-97
PROBE	PANCAKE G-M	Nal(Tl) (internal to ratemeter)	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	Bicron	Bicron
Model	44-9	N/A	G-5	G-5
Serial Number	92307	N/A	A398Q	A378Q
Calibration Date	17-Oct-97	N/A	14-Aug-97	14-Aug-97
SOURCE	Tc-99	Cs-137	Am-241	Am-241
Source Calibration Date	2-Jun-97	2-Jun-97	25-Oct-83	25-Oct-83
Source Serial Number	1039/92	1845-94	8920	8920
Source Emission Rate	5589 cpm	1.008 uCi	751,000 dpm	751,000 dpm
Instrument Channel	-	N/A	/	/
High Voltage	-	N/A		
Source Check Reading	1476 CPM	218 $\mu$ R/hr		
Background Reading	47.4 CPM	8.1 $\mu$ R/hr		
Instrument Efficiency				
FLAG				
MIDDAY READING	Not used	214 $\mu$ R/hr		
EVENING READING	1550 CPM	224 $\mu$ R/hr		
Check Performed By	C. Majewski	C. S. Majewski		

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

MODEL 3 UNITS = CPM 94360  
 Ludlum BK9  
 Same  
 1470 @ 50  
 1400 @ 45  
 1500 @ 52  
 1510 @ 45  
 1500 @ 45  
 1476 (avg) 47.4 CPM  
 cpm

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: 11/18/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	MICRO-REM METER	SCALER/RATE METER	SCALER/RATE METER
Make	Ludlum	Bicron	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	C251A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(Tl)	Not Applicable	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	N/A	G-5	G-5
Serial Number	14495	N/A	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	N/A	Ch. Out	Ch. 2
High Voltage	/	OK	/	/	/
Source Check Reading	/	984 $\mu$ Ran/hr	/	/	/
Background Reading	/	5.1 $\mu$ Ran/hr	/	/	/
Instrument Efficiency	/		/	/	/
FLAG	/		/	/	/
MIDDAY READING	/	990 $\mu$ Ran/hr	/	/	/
EVENING READING	/	1000 $\mu$ Ran/hr	/	/	/
Check Performed By	/	C.S. MARSOWSKI	/	/	/

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =



CLIENT SENECA ARMY DEPOT  
 SUBJECT DAILY SOURCE CHECKS

JOB. NO. \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 BY 11/18/97 DATE \_\_\_\_\_  
 CKD. \_\_\_\_\_ REVISION \_\_\_\_\_

Units-CPM  
 S/N 984 P/3594  
 HV =

Source	BKG
①	
②	
③	
④	
⑤	
Ave	

BICRON ANALYST  
 S/N 945 P/  
 HV =

Source	BKG
①	
②	
③	
④	
⑤	
Ave	

S = AM-241  
 S/N 983 P/3-  
 HV =

Source	BKG
①	
②	
③	
④	
⑤	
Ave	

Units HR/HR  
 S/N 109962

Source	BKG
215	1 8.5
225	2 8.2
218	3 8.0
214	4 8.2
220	5 7.6
218	8.1
Ave	

MICRO - R - Ludlum S = CS-137  
 S/N

Source	BKG
①	
②	
③	
④	
⑤	
Ave	

Units - MRem/hr  
 S/N 250A HV = OK

Source	BKG
1050	① 5.5
950	② 4.5
1010	③ 5.25
970	④ 6.0
940	⑤ 4.0
984	DVD 5.1

MICRO-REM-BICRON  
 S/N 251A HV =

Source	BKG
①	
②	
③	
④	
⑤	
Ave	

S = CS-137  
 HV =

PANCAKE S/N 94360 S = TC-99

Source	BKG	UNITS/PA
1470	① 50	model 3
1400	② 45	
1500	③ 52	
1570	④ 45	
1500	⑤ 45	
1476	Ave	47.4

Downhole S/N 102850 S = CS-137

Source	BKG	UNITS-CPM
①		model-12
②		
③		
④		
⑤		
HV =		

Site: Seneca Army Depot Activity

Project: SEAD-12

Date: ~~11/20/97~~ *11/19/97* *WJC*

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	C251A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(CI)	Not Applicable	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	N/A	G-5	G-5
Serial Number	14495	N/A	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	1.008 uCi	751,000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	N/A	Ch. Out	Ch. 2
High Voltage	N/A				
Source Check Reading	211400 cpm				
Background Reading	—				
Instrument Efficiency					
FLAG					
MIDDAY READING	—				
EVENING READING	42000 cpm				
Check Performed By	DRG				

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Model -12  
 Source Readings  
 1 40000 cpm  
 2 42000 cpm  
 3 41500 cpm  
 4 41000 cpm  
 5 42500 cpm  
 Ave 41400 cpm

Project: SEAD-12

Date: 10/26/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-REM METER	MICRO-REM METER	SCALER/RATEMETER	SCALER/RATEMETER
Make	Ludlum	Bicron	Bicron	Bicron	Bicron
Model	Model 12	Micro Rem	Micro Rem	Analyst	Analyst
Serial Number	102850	C250A	C251A	A983P	A983P
Calibration Date	28-Sep-97	25-Jul-97	25-Jul-97	14-Aug-97	14-Aug-97
PROBE	NaI(Tl)	Not Applicable	Not Applicable	LOW ENERGY GAMMA DETECTOR	LOW ENERGY GAMMA DETECTOR
Make	Ludlum	N/A	N/A	Bicron	Bicron
Model	Model 44-62-2	N/A	N/A	G-5	G-5
Serial Number	14495	N/A	N/A	A394Q	A394Q
Calibration Date	28-Sep-97	N/A	N/A	14-Aug-97	14-Aug-97
SOURCE	Cs-137	Cs-137	Cs-137	Am-241	Cs-137
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	25-Oct-83	2-Jun-97
Source Serial Number	1845-94	1845-94	1845-94	8920	1845-94
Source Emission Rate	1.008 uCi	1.008 uCi	1.008 uCi	751.000 dpm	1.008 uCi
Instrument Channel	N/A	N/A	N/A	Ch. Out	Ch. 2
High Voltage	100				
Source Check Reading	41800 cpm				
Background Reading					
Instrument Efficiency					
FLAG					
MIDDAY READING	did not use AM				
EVENING READING	42200 cpm				
Check Performed By	D Coniff				

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =

- ① 42500
  - ② 41000
  - ③ 42000
  - ④ 41500
  - ⑤ 41000
- Ave 41800 cpm

Project: SEAD-12

Date: 12-1-97

INSTRUMENTATION

INSTRUMENT TYPE	SERIAL NUMBER
Make	Ludlum
Model	Model 3
Serial Number	61402
Calibration Date	30-Oct-97
PROBE	PANCAKE G.M.
Make	Ludlum
Model	44-9
Serial Number	PR051754
Calibration Date	30-Oct-97
SOURCE	1c-99
Source Calibration Date	2-Jun-97
Source Serial Number	1039/92
Source Emission Rate	5589 cpm
Instrument Channel	
High Voltage	
Source Check Reading	920
Background Reading	40
Instrument Efficiency	
FLAG	
MIDDAY READING	
EVENING READING	
Check Performed By	MGA

$EFFICIENCY = (CPM - BACKGROUND) / DPM$

FLAG =

Project: SEAD-12

Date: 11-25-97

INSTRUMENTATION

INSTRUMENT TYPE	DATE MEASURED
Make	Ludlum
Model	Model 3
Serial Number	61402
Calibration Date	30-Oct-97
PROBE	DANGER! HIGH VOLTAGE
Make	Ludlum
Model	44-9
Serial Number	PR051754
Calibration Date	30-Oct-97
SOURCE	1039/92
Source Calibration Date	2-Jun-97
Source Serial Number	1039/92
Source Emission Rate	5589 cpm
Instrument Channel	
High Voltage	
Source Check Reading	700
Background Reading	<del>400</del> 40
Instrument Efficiency	
FLAG	
MIDDAY READING	
EVENING READING	
Check Performed By	MGA

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Project: SEAD-12

Date: 12/4/97

INSTRUMENTATION

Instrument	Make	Model	Serial Number	Calibration Date
1	Ludlum	Model 3	61542 2300	17-Oct-97
2	Ludlum	Model 19	109912	5-Sep-97
3	Ludlum	Model 19	109962	5-Sep-97
4	Bicron	Micro Rem	C250A	25-Jul-97
5	Bicron	Micro Rem	C251A	25-Jul-97
6	Ludlum	44-9	PROS1754 92307	47-Oct-97
7	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A
24	N/A	N/A	N/A	N/A
25	N/A	N/A	N/A	N/A
26	N/A	N/A	N/A	N/A
27	N/A	N/A	N/A	N/A
28	N/A	N/A	N/A	N/A
29	N/A	N/A	N/A	N/A
30	N/A	N/A	N/A	N/A
31	N/A	N/A	N/A	N/A
32	N/A	N/A	N/A	N/A
33	N/A	N/A	N/A	N/A
34	N/A	N/A	N/A	N/A
35	N/A	N/A	N/A	N/A
36	N/A	N/A	N/A	N/A
37	N/A	N/A	N/A	N/A
38	N/A	N/A	N/A	N/A
39	N/A	N/A	N/A	N/A
40	N/A	N/A	N/A	N/A
41	N/A	N/A	N/A	N/A
42	N/A	N/A	N/A	N/A
43	N/A	N/A	N/A	N/A
44	N/A	N/A	N/A	N/A
45	N/A	N/A	N/A	N/A
46	N/A	N/A	N/A	N/A
47	N/A	N/A	N/A	N/A
48	N/A	N/A	N/A	N/A
49	N/A	N/A	N/A	N/A
50	N/A	N/A	N/A	N/A
51	N/A	N/A	N/A	N/A
52	N/A	N/A	N/A	N/A
53	N/A	N/A	N/A	N/A
54	N/A	N/A	N/A	N/A
55	N/A	N/A	N/A	N/A
56	N/A	N/A	N/A	N/A
57	N/A	N/A	N/A	N/A
58	N/A	N/A	N/A	N/A
59	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	N/A
61	N/A	N/A	N/A	N/A
62	N/A	N/A	N/A	N/A
63	N/A	N/A	N/A	N/A
64	N/A	N/A	N/A	N/A
65	N/A	N/A	N/A	N/A
66	N/A	N/A	N/A	N/A
67	N/A	N/A	N/A	N/A
68	N/A	N/A	N/A	N/A
69	N/A	N/A	N/A	N/A
70	N/A	N/A	N/A	N/A
71	N/A	N/A	N/A	N/A
72	N/A	N/A	N/A	N/A
73	N/A	N/A	N/A	N/A
74	N/A	N/A	N/A	N/A
75	N/A	N/A	N/A	N/A
76	N/A	N/A	N/A	N/A
77	N/A	N/A	N/A	N/A
78	N/A	N/A	N/A	N/A
79	N/A	N/A	N/A	N/A
80	N/A	N/A	N/A	N/A
81	N/A	N/A	N/A	N/A
82	N/A	N/A	N/A	N/A
83	N/A	N/A	N/A	N/A
84	N/A	N/A	N/A	N/A
85	N/A	N/A	N/A	N/A
86	N/A	N/A	N/A	N/A
87	N/A	N/A	N/A	N/A
88	N/A	N/A	N/A	N/A
89	N/A	N/A	N/A	N/A
90	N/A	N/A	N/A	N/A
91	N/A	N/A	N/A	N/A
92	N/A	N/A	N/A	N/A
93	N/A	N/A	N/A	N/A
94	N/A	N/A	N/A	N/A
95	N/A	N/A	N/A	N/A
96	N/A	N/A	N/A	N/A
97	N/A	N/A	N/A	N/A
98	N/A	N/A	N/A	N/A
99	N/A	N/A	N/A	N/A
100	N/A	N/A	N/A	N/A

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

Src 870 ± 20%  
696 - 1044 cpm

290 ± 20%  
232 - 348 MR/hr

220 ± 20%  
176 - 264 MR/hr

1015 ± 20%  
812 - 1218 MR/hr

971 ± 20%  
776.8 - 1165.2 MR/hr

CLIENT SENeca ARMY DEPOT JOB NO. 730047.01001 SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 SUBJECT SEAD 12 & 63 SW/S&D BY NAS DATE 12/4/97  
RAD INSTRUMENT SOURCE CHECK DATA CKD. \_\_\_\_\_ REVISION \_\_\_\_\_

MODEL 3

SER# 61402

- TC -99 SOURCE:

1. 800
2. 850
3. 900
4. 900
5. 850

AVG 860 cpm

- BACKGROUNDS:

1. 30
2. 35
3. 25
4. 20
5. 25

AVG 27 cpm

FLAG 54 cpm

PROB# P1051754

MODEL 19

SER# 109962

- CS-137 SOURCE

1. 220
2. 225
3. 260
4. 250
5. 270

AVG 245 mR/hr

- BACKGROUNDS

1. 8.5
2. 9.0
3. 9.0
4. 9.0
5. 9.0

AVG: 8.9 mR/hr

FLAG: 17.8 mR/hr

MICRO REM

SER# C250A

- CS-137 SOURCE

1. 1000
2. 1000
3. 990
4. 1000
5. 1000

AVG 998 mR/hr

- BACKGROUNDS

1. 6.0
2. 5.0
3. 5.5
4. 5.5
5. 6.0

AVG. 5.6 mR/hr

FLAG: 11.2 mR/hr

Project: SEAD-12

Date: 12/5/97

INSTRUMENTATION

INSTRUMENT TYPE	RATE METER	MICRO-R RATE METER	MICRO-K RATE METER	MICRO-REM METER	MICRO-REM METER
Make	Ludlum	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Model 19	Micro Rem	Micro Rem
Serial Number	61462 94360	109912	109962	C250A	C251A
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	25-Jul-97	25-Jul-97
	PANACHELUM	NaI(Tl) (internal in rate meter)	NaI(Tl) (internal in rate meter)	Not Applicable	Not Applicable
Make	Ludlum	N/A	N/A	N/A	N/A
Model	44-9	N/A	N/A	N/A	N/A
Serial Number	PRG 91754 92307	N/A	N/A	N/A	N/A
Calibration Date	17-Oct-97	N/A	N/A	N/A	N/A
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845-94	1845-94	1845-94	1845-94
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	1.008 uCi	1.008 uCi
Instrument Channel	N/A	N/A	N/A	N/A	N/A
High Voltage	N/A		N/A	01C	
Source Check Reading	860		254	975	
Background Reading	26		9.3	6.5	
Instrument Efficiency					
FLAG	52		18.6	13	
MIDDAY READING	N/A - DONE @ NDN		N/A - DONE @ NDN	N/A - DONE @ NDN	
EVENING READING	900		245	975	
Check Performed By	NAS		NAS	NAS	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=



CLIENT SLAVKA ARMY DEPT  
SUBJECT SEAID 12063 SW/SDO  
RAD INSTRUMENT SURFACE CHECK DATA

JOB NO. 72047001 SHEET      OF       
BY NAS DATE 12/5/97  
CKD      REVISION     

MODEL 3

SER# 61462  
PROB# PR051754  
TC-99 SOURCE:  
1. 900  
2. 850  
3. 825  
4. 900  
5. 825  
AVG: 860 cpm

BACKGROUND:  
1. 20  
2. 30  
3. 20  
4. 30  
5. 30  
AVG 26 cpm

FLAG 52 cpm

MODEL 19

SER# 109962  
CS-137 SOURCE:  
1. 260  
2. 250  
3. 250  
4. 250  
5. 260  
AVG 254 NR/hr

BACKGROUND:  
1. 9.5  
2. 9.0  
3. 9.5  
4. 9.5  
5. 9.0  
AVG 9.3 NR/hr

FLAG 18.6 NR/hr

MICRO REM

SER# C250A  
CS-137 SOURCE:  
1. 950  
2. 975  
3. 975  
4. 975  
5. 1000  
AVG 975  $\mu\text{rem/hr}$

BACKGROUND:  
1. 7.0  
2. 6.0  
3. 6.5  
4. 6.0  
5. 7.0  
AVG 6.5  $\mu\text{rem/hr}$

FLAG 13  $\mu\text{rem/hr}$

Project: SEAD-12

Date: 12/19/97

INSTRUMENTATION

Make	Ludlum	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Model 19	Micro Rem	Micro Rem
Serial Number	61402 94300	109912	109962	C250A	C251A
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	25-Jul-97	25-Jul-97
Make	Ludlum	N/A	N/A	N/A	N/A
Model	44-9	N/A	N/A	N/A	N/A
Serial Number	PRO 51754 92307	N/A	N/A	N/A	N/A
Calibration Date	17-Oct-97	N/A	N/A	N/A	N/A
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845-94	1845-94	1845-94	1845-94
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	1.008 uCi	1.008 uCi
Instrument Channel	N/A	N/A	N/A	N/A	N/A
High Voltage	N/A	/	N/A	/	OK
Source Check Reading	920	/	251	/	925
Background Reading	30	/	8.9	/	5.3
Instrument Efficiency					
FLAG	60	/	17.8	/	10.6
MIDDAY READING	---	/	---	/	---
EVENING READING	950	/	250	/	950
Check Performed By	NAS	/	NAS	/	NAS

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

CLIENT LINECA ARMY DEPOT  
SUBJECT SEAD 12 + 63 SW/SED  
RAD INSTRUMENT SOURCE CHECK DATA

JOB NO. 730047.0101 SHEET      OF       
BY NAS DATE 12/9/97  
CKD.      REVISION     

MODEL 3  
SER# 61402  
PROBE # PRO51754

TC-99 source:  
1. 900  
2. 925  
3. 925  
4. 900  
5. 950  
AVG: 920 cpm

BACKGROUND:  
1. 25  
2. 30  
3. 40  
4. 30  
5. 25  
AVG: 30 cpm

FLAG: 60 cpm

ENVELOPE: 696-1044 cpm  
(870 ± 20%)

MODEL 19  
SER# 109962

CS-137 source:  
1. 250  
2. 255  
3. 250  
4. 245  
5. 255  
AVG 251  $\mu$ R/hr

BACKGROUND:  
1. 9.0  
2. 9.0  
3. 9.0  
4. 8.5  
5. 9.0  
AVG 8.9  $\mu$ R/hr

FLAG: 17.8  $\mu$ R/hr

ENVELOPE: 176-264  $\mu$ R/hr  
(220 ± 20%)

MICROLEM  
SER# C25A

CS-137 source:  
1. 900  
2. 950  
3. 900  
4. 925  
5. 950  
AVG 925  $\mu$ R/hr

BACKGROUND:  
1. 6.0  
2. 5.0  
3. 5.5  
4. 5.0  
5. 5.0  
AVG: 5.3  $\mu$ R/hr

FLAG: 10.6  $\mu$ R/hr

ENVELOPE: ~~812-1218~~ <sup>900</sup>  $\mu$ R/hr (971 ± 20%)  
776.8-1165.2

Project: SEAD-12

Date: 12/16/97

INSTRUMENTATION

Make	Ludlum	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Model 19	Micro Rem	Micro Rem
Serial Number	61402 94900	109912	109962	C250A	C251A
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	25-Jul-97	25-Jul-97
Make	Ludlum	N/A	N/A	N/A	N/A
Model	44-9	N/A	N/A	N/A	N/A
Serial Number	PRO 51754 92307	N/A	N/A	N/A	N/A
Calibration Date	17-Oct-97	N/A	N/A	N/A	N/A
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845-94	1845-94	1845-94	1845-94
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	1.008 uCi	1.008 uCi
Instrument Channel	N/A	N/A	N/A	N/A	N/A
High Voltage	N/A		N/A		OK
Source Check Reading	860		257		955
Background Reading	26		8.6		NEW 9.6 4.8
Instrument Efficiency	911				
FLAG	52		17.2		9.6
MIDDAY READING	- OFFSITE		- OFF SITE		- OFFSITE
EVENING READING	900		240		950
Check Performed By	N/A		N/A		N/A

$\text{EFFICIENCY} = (\text{CPM} - \text{BACKGROUND}) / \text{DPM}$

FLAG=

CLIENT SENeca ARMY DEPOT  
SUBJECT SEAD 12063 & 1  
RAD INSTRUMENT SOURCE CHECK DATA

JOB. NO. 73001700 SHEET      OF       
BY NAS DATE 12/10/97  
CKD.      REVISION     

MODEL 3

SER# 61402  
PROBE# P051754  
ENVELOPE:  $870 \pm 20\%$   
= 696-1044 cpm

TC-99 SOURCE

- 1. 850
- 2. 900
- 3. 850
- 4. 850
- 5. 850
- AVG: 860 cpm

BACKGROUND

- 1. 30
- 2. 25
- 3. 20
- 4. 30
- 5. 25
- AVG: 26 cpm

FLAG: 52 cpm

MODEL 19

SER# 109962  
ENVELOPE:  $270 \pm 20\%$   
= 176-264  $\mu\text{R/hr}$

CS-137 SOURCE

- 1. 255
- 2. 255
- 3. 260
- 4. 260
- 5. 255
- AVG: 257  $\mu\text{R/hr}$

BACKGROUND

- 1. 8.5
- 2. 8.5
- 3. 9.0
- 4. 8.5
- 5. 8.5
- AVG: 8.6  $\mu\text{R/hr}$

FLAG: 17.2  $\mu\text{R/hr}$

MICROREM

SER# C251A  
ENVELOPE:  $971 \pm 20\%$   
= 776.8-1165.2  $\mu\text{rem/hr}$

CS-137 SOURCE

- 1. 975
- 2. 950
- 3. 950
- 4. 950
- 5. 950
- AVG: 955  $\mu\text{rem/hr}$

BACKGROUND

- 1. 4.5
- 2. 5.0
- 3. 5.0
- 4. 4.5
- 5. 5.0
- AVG: 4.8  $\mu\text{rem/hr}$

FLAG: 9.6  $\mu\text{rem/hr}$

Project: SEAD-12

Date: 12/1/97

INSTRUMENTATION

Make	Ludlum	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Model 19	Micro Rem	Micro Rem
Serial Number	61402 <del>24260</del>	109912	109962	C250A	C251A
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	25-Jul-97	25-Jul-97
Make	Ludlum	N/A	N/A	N/A	N/A
Model	44-9	N/A	N/A	N/A	N/A
Serial Number	PRO 151794 92307	N/A	N/A	N/A	N/A
Calibration Date	17-Oct-97	N/A	N/A	N/A	N/A
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845-94	1845-94	1845-94	1845-94
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	1.008 uCi	1.008 uCi
Instrument Channel	N/A	N/A	N/A	N/A	N/A
High Voltage	N/A		N/A		OK
Source Check Reading	890		241		955
Background Reading	27		8.2		4.9
Instrument Efficiency					9.7
FLAG	54		16.4		9.8
MIDDAY READING	350		250		450
EVENING READING	900		235		950
Check Performed By	NAS		NAS		NAS

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=

CLIENT SENeca ARMY DEPOT  
SUBJECT SEAD 12 2 63  
RAD INSTRUMENT SCALE CHECK DATA

JOB. NO. 73-17-010 SHEET      OF       
BY NA DATE 12/11/97  
CKD.      REVISION     

MODEL 3

SER# 6140Z  
PROBE# PRO 51754  
ENVELOPE:  $870 \pm 20\%$   
 $= 696 - 1044 \text{ cpm}$

TC-99 SOURCE

- 1. 900
  - 2. 850
  - 3. 900
  - 4. 900
  - 5. 900
- AVG: 890 cpm

BACKGROUND

- 1. 25
  - 2. 30
  - 3. 25
  - 4. 30
  - 5. 25
- AVG: 27 cpm

FLAG: 54 cpm

MODEL 19

SER# 10996Z  
ENVELOPE:  $220 \pm 20\%$   
 $= 176 - 264 \text{ PR/hr}$

CS-137 SOURCE

- 1. 230
  - 2. 250
  - 3. 245
  - 4. 235
  - 5. 245
- AVG: 241 PR/hr

BACKGROUND

- 1. 8.0
  - 2. 3.5
  - 3. 3.0
  - 4. 3.0
  - 5. 3.5
- AVG: 3.2 PR/hr

FLAG: 16.4 PR/hr

MICROREM

SER# C251A  
ENVELOPE:  $971 \pm 20\%$   
 $= 776.8 - 1165.2 \text{ REM/hr}$

CS-137 SOURCE

- 1. 950
  - 2. 950
  - 3. 950
  - 4. 975
  - 5. 950
- AVG: 955 REM/hr

BACKGROUND

- 1. 5.0
  - 2. 5.5
  - 3. 4.5
  - 4. 4.5
  - 5. 5.0
- AVG: 4.9 REM/hr

FLAG: 7.8 REM/hr

Project: SEAD-12

Date: 12/12/97

INSTRUMENTATION

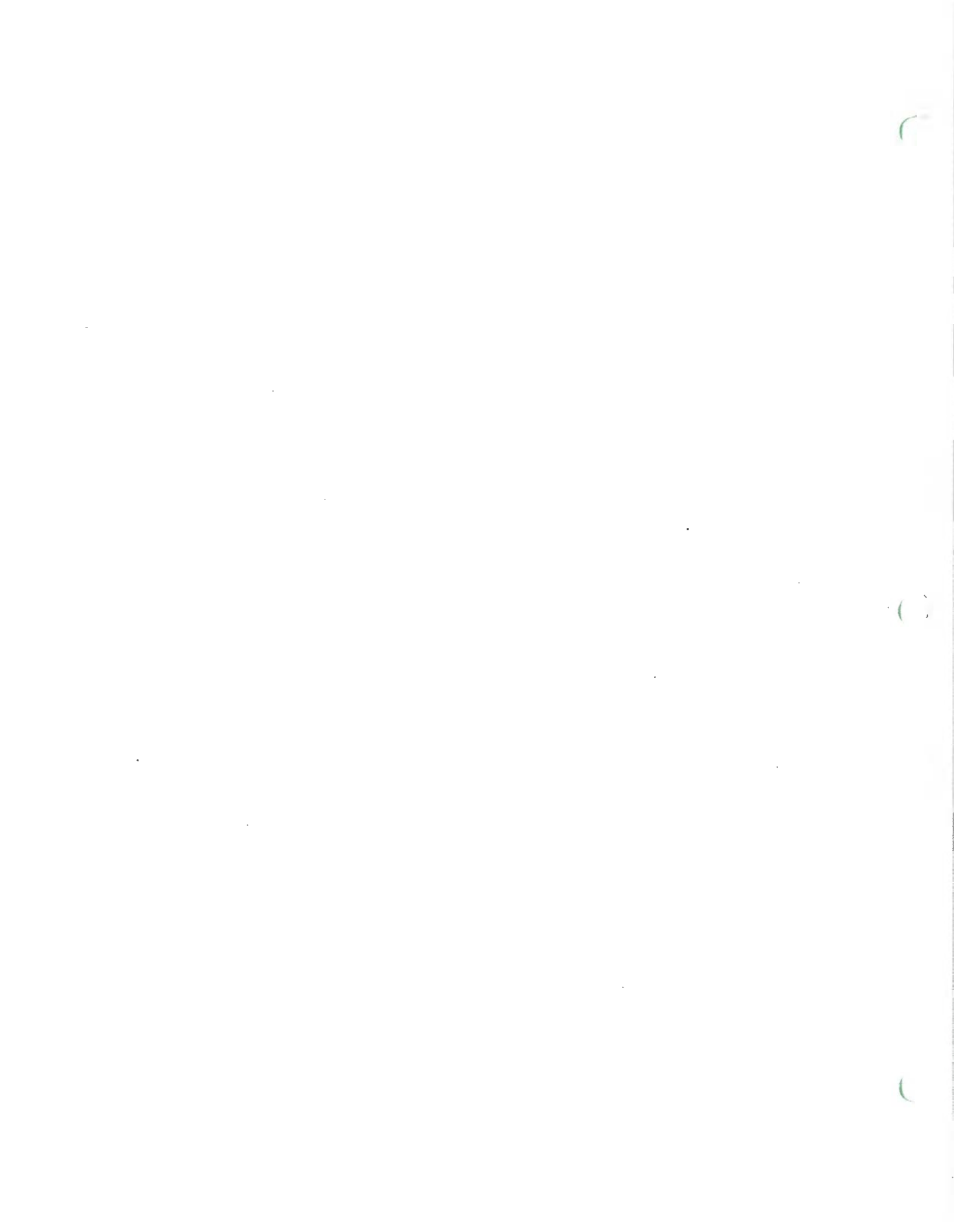
Make	Ludlum	Ludlum	Ludlum	Bicron	Bicron
Model	Model 3	Model 19	Model 19	Micro Rem	Micro Rem
Serial Number	61462 <del>94360</del>	109912	109962	C250A	C251A
Calibration Date	17-Oct-97	5-Sep-97	5-Sep-97	25-Jul-97	25-Jul-97
Make	Ludlum	N/A	N/A	N/A	N/A
Model	44-9	N/A	N/A	N/A	N/A
Serial Number	PRO 81754 <del>32307</del>	N/A	N/A	N/A	N/A
Calibration Date	17-Oct-97	N/A	N/A	N/A	N/A
Source Calibration Date	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97	2-Jun-97
Source Serial Number	1039/92	1845-94	1845-94	1845-94	1845-94
Source Emission Rate	5589 cpm	1.008 uCi	1.008 uCi	1.008 uCi	1.008 uCi
Instrument Channel	N/A	N/A	N/A	N/A	N/A
High Voltage	N/A		N/A	OK	
Source Check Reading	870		243	995	
Background Reading	21		8.1	5.2	
Instrument Efficiency					
FLAG	42		16.2	10.4	
MIDDAY READING	—		—	—	
EVENING READING	900		240	1000	
Check Performed By	NAS		NAS	NAS	

EFFICIENCY=(CPM-BACKGROUND)/DPM

FLAG=







## **APPENDIX B**

### **FIELD LOGS**

- **TEST PIT LOGS**
- **SOIL BORING LOGS**
- **MONITORING WELL INSTALLATION LOGS**

1970

1971

1972

1973

1974

1975

1976

1977

1978

1979

1980

1981

1982

1983

1984

1985

1986

1987

1988

1989

1990

1991

1992

1993

1994

1995

1996

1997

1998

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

## TEST PIT LOGS



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/16/98 0942  
 Date / Time Finish: 10/16/98 1115  
 Weather: Sunny, 60's, light west wind  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

**TEST PIT NO. TP12-1**  
 Location:  
 Disposal Pit A - Trench starts at 0.0 and runs southwest into the anomaly area 33'

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS	
			0' to 28' SW	28' to 32'	0' to 28' SW	28' to 32'
0	FL	SM	Olive gray, fine SAND and SILT, little Gravel, trace Organics, moist, loose  Light brown, fine SAND, little Silt, trace fine Gravel, dense, dry  Olive gray SILT and fine SAND, little coarse Sand, trace Cobble, dry, hard  Backhoe Refusal	Fill - dark gray to olive gray, fine to medium SAND, some Silt, trace Gravel, loose, dry  Fill and Debris - olive gray SILT and fine SAND, little coarse Sand, some Gravel, moist	Topsoil - Grass	Topsoil - Grass
1	TL	SM			surface	Loose Fill - no articles
2	TL	SM			Undisturbed Till	- Heavy sheet metal - Broken fiberglass - Electrical components - 1' X 8' X .3' open-ended box with liquid inside. No VOCs - pictures taken
3	TL	SM			Undisturbed Till	
4						
6	WS	WS				
7						
8						
9						

EXCAVATION DIMENSIONS: (Length X Width X Depth): 33' X 3' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	<p align="center"><b>CROSS SECTION</b> (Include approximate dimensions)</p>
1030	123143	31.0' X 3.0' D	
1045	123142	32.0' X 0.5' D	
1100	123144	32.0' X 6.0' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/16/98 1318  
 Date / Time Finish: 10/16/98 1530  
 Weather: Sunny, 60's, light west wind  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

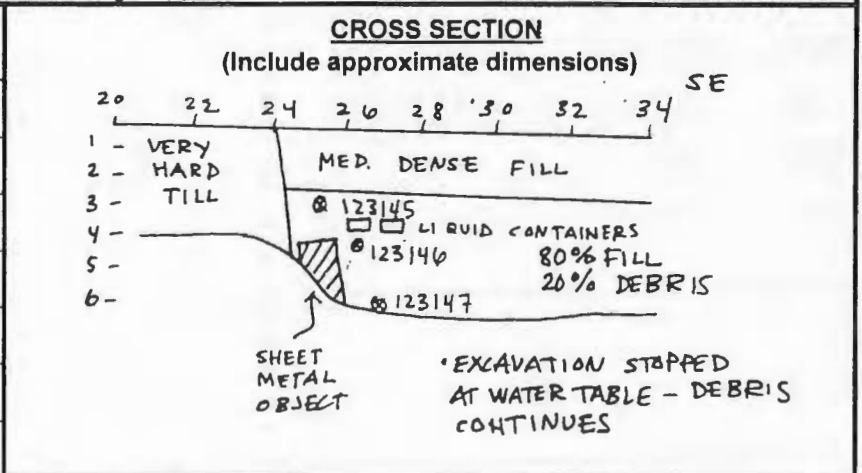
TEST PIT NO. TP12-2

Location:  
 Disposal Pit A-Trench starts at 0,0 and runs southeast into the anomaly area. Ends at 34'.

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
			0' (NW) to 24' (SE)	24' to 34'	
0	FL	SM	Dark brown SILT and fine SAND, some coarse Sand, little Gravel, Organics, damp.	Olive gray SILT and fine SAND, some coarse Sand and fine Gravel, Organics, damp.	Debris started at 24'. Large sheet metal object at 25' X 3' deep- possible cabinet or shelving unit. One-gallon metal cans at 26' X 3.5' deep (2), high VOC's, possibly paint cans, one had no cap. Contents variable in soil. Cans and recovered stained soil placed in a 5-gallon bucket for disposal. Headspace = 611 ppm. Picture taken, samples taken above and below. Other debris visible in wall of trench including electrical components and metal/fiberglass debris. Light shien on water at 6'.
1	FL	SM			
2					
3			Olive gray SILT, some fine to medium Sand, little Gravel, dry, very dense	Olive gray, silty SAND and SHALE, Gravel, moist under sheet metal (3' deep to bottom of pit). Water at 6'.	
4	FL	SM	Olive gray, silty SAND and Shale		
5					
6					
7					
8					
9					

EXCAVATION DIMENSIONS: (Length X Width X Depth): 34' X 3' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1400	123145	25.0' X 3.0' D
1430	123146	26.0' X 3.5' D
1500	123147	26.0' X 6.0' D





**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/6/98 1412  
 Date / Time Finish: 10/7/98 1600  
 Weather: Cloudy, showers, 60 deg.  
 Contractor: Maxim  
 Inspector(s): KKS, BC, JT

TEST PIT NO. TP12-3 (North)

Location:  
Disposal Pit C

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
0	FL	SM	0 (North) to 32' (South)	32' to 40'	Purpose of excavation is to determine extent of disposal pit C. Excavation from 0 (North) to 32' was scanned with a metal-detector to verify no metal objects below 5'. A total of 6 cone-shaped objects were removed from the pit - 18" L X 12" W at the base. Gamma radiation screening = 8X background. More of these objects were visible in the pit, above and potentially below the water table (5.5'). Paint on a dial at the cone top was likely source of radiation reading. There was a brief VOC hit near the top of the pit (17 ppm) which cleared quickly. A pocket of grease, which also covered some of the soil and debris, was sampled - no VOC's detected.
1			Topsoil .8' deep to non-existent. Area of stressed vegetation. Light brown to olive gray, fine SAND, some Silt, little fine to coarse Gravel, trace Cobble, dry- very dense.	No topsoil- same Fill material as before	
2			Bottom of pit at 5'. - Wood fragment with metal hasp at 10' X 2.5' deep	Looser Fill with cone shaped objects and electrical components, sheet metal and styrofoam, fiberglass fragments. Soil is moist.	
3			- .1' X .2' corroded sheet metal at 10' X 4' deep		
4			- 10" lid with clamping ring at 25' X 1' deep	- Pocket of grease-looking material at 34' X 5' deep - Water table at 5.5'	
5			- 2 - 8" X 2" diameter steel, threaded pipes with end caps at 23' X 1' deep		
6					
7					
8					
9					

EXCAVATION DIMENSIONS: (Length X Width X Depth): 40' X 3.5' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	<p align="center"><b>CROSS SECTION</b> (Include approximate dimensions)</p>
0945	123084	33.5' X 4.0' D	
1145	123083	33.0' X 5.5' deep	
1330	123082	surface	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/17/98 1135  
 Date / Time Finish: 10/17/98 1330  
 Weather:  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

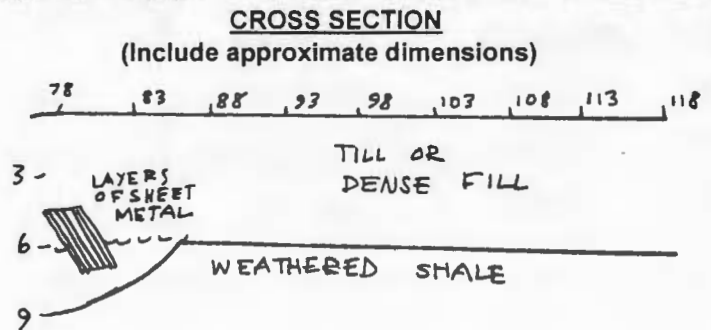
TEST PIT NO. TP12-3 (South)

Location:  
 Disposal Pit C

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
			77' to 85'	85'to 114'	
0	FL	GC	- Stressed vegetation, little or no topsoil. Fill. Olive gray to light brown, silty SAND and GRAVEL, dry. moderately compact.	Stressed vegetation, little or no topsoil. Fill. Olive gray to light brown, silty SAND, some Gravel, trace Cobble, and small Boulders, dry, compact	Purpose of excavation is to determine the extent of disposal pit C- digging from the south end of the proposed trench towards where the pit was terminated at 40' (10/7/98). Digging will stop when debris are found. Started at 118' south. No debris found until 77' from north end. Digging continued down to bedrock- it is apparent that the burial pit was dug into the weathered shale, below present water table.
1					
2					
3					
4			- Electric cable with a connector at 3.5' deep.	Same as above, more compact	
5			- Stacked sheet metal at 5.5' deep- stop digging.		
6					
7	WS		Water table	Weathered SHALE	
8					
9	WS		Weathered SHALE		

EXCAVATION DIMENSIONS: (Length X Width X Depth): 118' X 3' X 5.5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
	No samples taken	



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/12/98 1230  
 Date / Time Finish: 10/12/98 1630  
 Weather: Sunny, 60's, light wind from NW  
 Contractor: Maxim  
 Inspector(s): KKS, JT

TEST PIT NO. TP12-4

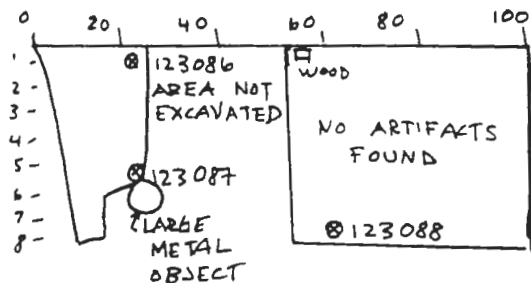
Location:  
 Disposal Pit C

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GC	Dark brown to olive gray, fine SAND and SILT, some fine and coarse Gravel, few Cobbles and Boulders.	Little or no topsoil, vegetation stressed.
1				
2				
3				
4	FL	GC	Large cylindrical object approximately 4' in diameter. Length is unknown. Appears to be made of stainless steel, attempts to move object were completely unsuccessful. Resulted in broken backhoe tooth and no visible damage to cylinder.	No further attempts made to disturb metal object. Length of the cylinder is probably substantially longer than 3'.
7				
8	FL	SC	Reddish-brown CLAY, very dense, moist.	
9				
10				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 100' X 3' X 9.5'  
 AIR MONITORING DATA: Background OVM Reading: 0.0-0.7 ppm  
 Maximum Breathing Zone OVM Reading: 0.0-0.7 ppm

TIME	SAMPLE I.D.	LOCATION
1406	123086	22.0" X 0.5' D
1330	123087	22.0' X 6.0' D
1530	123088	60.0' X 8.0' D

**CROSS SECTION**  
 (Include approximate dimensions)



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/13/98 0900  
 Date / Time Finish: 10/13/98 1140  
 Weather: Sunny, 60's, light wind  
 Contractor: Maxim  
 Inspector(s): KKS, JT

TEST PIT NO. TP12-5

Location:  
EM-23

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil, dark gray, fine to medium SAND, some SILT, little fine to coarse Gravel, trace Organics, moist, loose	4' by 2' by 1' concrete with rebar
1	FL	SM	Dark gray to light brown, fine to medium SAND, some Silt, little fine to coarse Gravel, trace Cobbles and Boulders, moist, loose	Smaller pieces of concrete with rebar, strands of insulated wire, 1" diameter pipe
2				
3				
4				
5	TL	SC	Olive gray to dark gray, SILT and fine SAND, little coarse Sand, trace Cobble, moist	No debris
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 50' X 3' X 9'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	CROSS SECTION (Include approximate dimensions)
0945	123089, 123092	16.0' X 0.8' D	
1045	123090	30.0' X 2.0' D	
1130	123091	35.0' X 8.0' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12 Project Number: 730047-01001 Date / Time Start: 10/17/98 1002 Date / Time Finish: 10/17/98 1050 Weather: Sunny, 60's moderate wind from west Contractor: Maxim Inspector(s): KKS, JT	TEST PIT NO. TP12-6
	Location: EM- 23

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil- olive gray, silty SAND, moist, thick Grass and Roots	
1	FL	SM	Fill- olive gray to light brown, silty SAND, some Gravel, trace	8' by 4' by 1' concrete slab with rebar, small concrete pieces, brush underneath
2				
3	TL	SM	Olive gray SILT and SAND, some Gravel, trace Cobble, moist, very compact	Undisturbed, scanned with metal-detector
4				
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 25' X 3' X 5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	CROSS SECTION	
			WEST	EAST
1030	123158	16.0' W X 2.5' D	(Include approximate dimensions)	
1040	123159	6.0' W X 3.0' D		
1050	123160	18.0' W X 3.5' D		

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/15/98 1330  
 Date / Time Finish: 10/15/98 1430  
 Weather: Sunny, 60's, moderate wind from west  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

TEST PIT NO. TP12-7A & 7B

Location:  
 TP 12-7.9 EM-22 TP 12-7B  
 EM-21

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS	
			TP12-7A	TP12-7B	TP12-7A	TP12-7B
0	see cross section	see cross section	Dark brown fine to medium SAND, some Silt, little Organics, moist	Dark brown fine to medium SAND, some Silt, little Organics, moist	Topsoil	Topsoil
1			Dark gray SILT and fine SAND, little coarse Sand, trace Cobble, dry, loose	Dark gray SILT and fine SAND, little coarse Sand, trace Cobble, dry dense	5.5' L X 1' Diameter drain pipe, steel - 1/2" wall, wire inside	- Culvert pipe, 4' L X 2' Diameter - Fired 7.62 NATO Black Casing - 1' Heavy gauge wire - 3' X 3' aluminum foil - Very dark soil in central area, possibly stained
2						
3			Olive gray to dark gray SILT and fine SAND, trace Clay and Gravel, dry, dense	Olive gray to dark gray SILT and fine SAND, trace Clay and Gravel, dense, dry	Undisturbed Till	Undisturbed Till
4						
5			Very hard TILL	Very hard TILL	Undisturbed Till	Undisturbed Till
6						
7			Very hard TILL	Very hard TILL	Undisturbed Till	Undisturbed Till
8						
9	Very hard TILL	Very hard TILL	Undisturbed Till	Undisturbed Till		

EXCAVATION DIMENSIONS: (Length X Width X Depth): 7A= 8' X 3' X 5.5' 7B= 8' X 3' X 6.5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	CROSS SECTION	
			(A)	(B)
1340	123127	4.0' X 1.0" D (7B)		
1400	123128	4.0' X 1.0 D (7A)	1- STEEL PIPE WITH WIRE INSIDE @ 123128 FL 2- 3- UNDISTURBED TILL TL 4- 5- 6- HARD TILL FL	1- CULVERT PIPE @ 123127 2- 3- DARK SOIL FL 4- 5- UNDISTURBED TILL TL 6- HARD TILL TL
1420	123129	4.0' X 2.0' D		

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/14/98 1108  
 Date / Time Finish: 10/15/98 1220  
 Weather: Sunny, 50's, moderate west wind  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

TEST PIT NO. TP12-8

Location:  
EM-21

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil- dark brown fine to medium SAND, some Silt, little Organics	Topsoil free of debris
1	FL	GC	Light brown to very dark brown fine to medium SAND, some fine to coarse Gravel, little Silt and Cobbles	Railroad ties, nails, 2' diameter culvert pipe sections, concrete with rebar, asphalt, brush, electrical tape
2				
3	TL	GC	Olive gray, fine SAND and SILT, some fine to coarse Gravel, little Cobble, dense, dry	Undisturbed
4				
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 25' X 3' X 7.2'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	CROSS SECTION (Include approximate dimensions)
1115	123130	7.0' X 1.0' D	
1200	123131	17.0' X 2.0' D	
1210	123132	23.0' X 3.0' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/15/98 0905  
 Date / Time Finish: 10/15/98 1015  
 Weather: Sunny, 50's, moderate west wind  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

TEST PIT NO. TP12-9

Location:  
EM-7

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GM	Dark gray fine to medium SAND, some Silt, little Organics, loose, moist	Rich topsoil - no debris
	TL	GM		Undisturbed - no debris
1	TL	GM	Light brown fine SAND, some Silt, little Organics, dense, dry	Undisturbed, no debris
2			Olive gray fine SAND, some Silt, little fine Gravel, dense, dry	
3				
4	TL	CH	Light gray, stiff, dry	Undisturbed - no debris
5	WS	WS	Weathered SHALE, dry	
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 55' X 3' X 4.5'

AIR MONITORING DATA: Background OVM Reading: 0 ppm

Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	CROSS SECTION (Include approximate dimensions)						
			WEST				EAST		
0945	123124	25.0' X 0.5' D	55	50	40	30	20	10	0
0950	123125	25.0' X 1.0' D	EM ANOMALY		EM ANOMALY			EM ANOMALY	EM ANOMALY
0955	123126	25.0' X 2.5' D							-1
									-2
			WEATHERED SHALE						-3
									-4



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/4/98 1020  
 Date / Time Finish: 10/4/98 1345  
 Weather: Clear, 70's, dry  
 Contractor: Maxim  
 Inspector(s): KKS, RLC

TEST PIT NO. TP12-10

Location:  
EM-8

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GM	Greenish-gray to brown SILT, some fine Sand, little medium SAND, little coarse Gravel, little Cobble, trace Debris, dry to moist	Debris includes wire, glass, steel pipe, and brush debris
1				
2				
3	TL	GM	Greenish gray to olive gray SILT and fine SAND, little clay, little fine to coarse Gravel, trace Cobble, moist to wet at 6'	
4				
5	WS	WS	Weathered Shale	
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 48' X 3' X 6.5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	<p align="center"><b>CROSS SECTION</b> (Include approximate dimensions)</p>
1225	123056	2.0' X 2.0' D	
1215,	123055, 123067	40.0' X 1.0' D	
1220	123057	40.0' X 5.5' D	
1230			

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/14/98 0945  
 Date / Time Finish: 10/14/98 1330  
 Weather: Cloudy, showers, 60's  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

TEST PIT NO. TP12-11

Location:  
EM-6

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GM	Light brown, fine SAND, some fine Gravel, little to no Organics, moist	No topsoil, stressed vegetation
1	FL	GM	Light reddish-brown, fine SAND, some fine to medium Gravel, little Silt, moist, dense	
2	FL	SM	Dark gray, fine SAND and SILT, some fine to coarse Gravel, little Cobble, moist dense	
3				
4	FL	GM	Dark gray, fine SAND and SILT, some fine to coarse Gravel, little Cobble, moist to saturated, loose	Stumps and brush
5				
6	FL	GM	Water table	Wood debris continues under water possible drum fragments, cannot dig further due to wood debris
7				
8	FL	GM		
9	WS		Weathered Shale	

EXCAVATION DIMENSIONS: (Length X Width X Depth): 80' X 3' X 9'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	CROSS SECTION (Include approximate dimensions) SW <span style="float:right">NE</span>
1130	123109	58.0' X 6.0' D	
1200	123110	59.0' X 6.5' D	
1300	123111	60.0' X 0.5' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/14/98 1500  
 Date / Time Finish: 10/14/98 1700  
 Weather: Cloudy, showers, 50's  
 Contractor: Maxim  
 Inspector(s): KKS, BC, JT

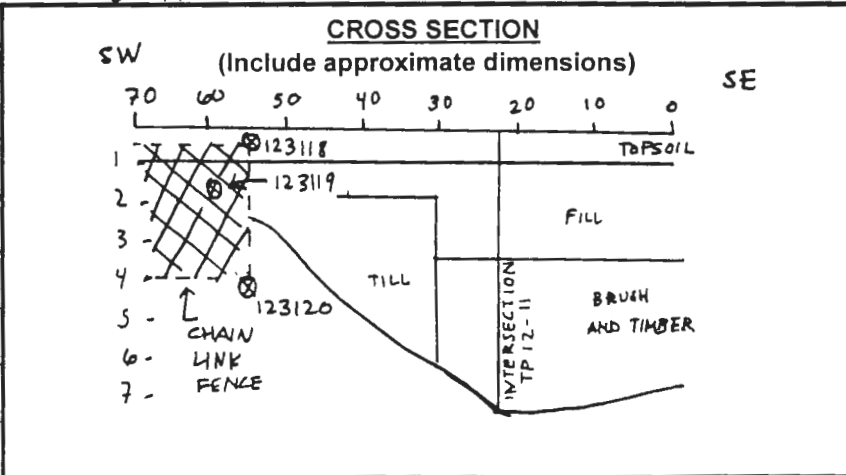
TEST PIT NO. TP12-12

Location:  
EM-6

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
0	FL	SB	6' (SW) Topsoil- grass covered.	12' (SW) Same	Test pit intersects TP12-11 at 22' (SW) running up hill. Heavy brush and timber was found from 0 to 32'. Couldn't break through except in a few spots to bedrock at 7.5' deep. Past 32' the soil - possibly Till - was denser with shale fragments. Water table was deeper - -near bedrock. No debris below 1' deep. A thick layer of chain link fence from 55' to the end of the trench prevented digging to bedrock
1	FL	CL	Dark to olive gray, silty SAND Fill - backfilled Till Fence post and piece of chain	- Olive gray fine SAND, little fine to coarse Gravel, moist	
2					
3				- Wood - brush, timber and stumps, mostly cedar at 3.5' deep	
4	FL		Olive gray, silty SAND, some orange to red Clay, little Shale Gravel Galvanized chain link fence from 1.5' - 2' to unknown depth - cannot dig through it.		
5					
6				- Water table at 6'	
7					
8	WS	WS	Scooped under South-east edge to collect soil sample	Weathered SHALE	
9					

EXCAVATION DIMENSIONS: (Length X Width X Depth): 70' X 3 to 4' X 7.5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1620	123118	57.0' X 0.5' D
1640	123119	60.0' X 1.5' D
1650	123120	58.0' X 4.0' D



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/3/98 1415  
 Date / Time Finish: 10/3/98 1830  
 Weather: Cloudy, 60's, light northeast wind  
 Contractor: Maxim  
 Inspector(s): KKS, DRG

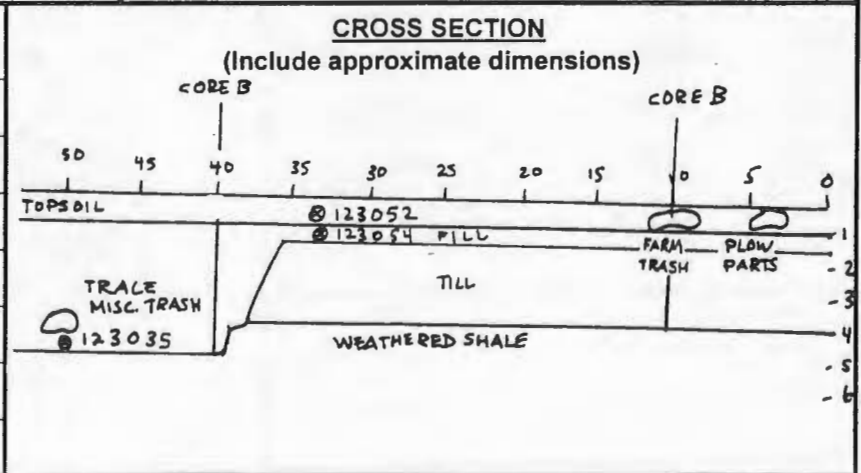
TEST PIT NO. TP12-13

Location:  
EM-40

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
			0' to 35' (NW)	35' to 50'	
0	FL	SM	Brown SILT and fine SAND, little medium Sand, trace Gravel, Organics and debris	Fill - dark gray to brown, fine to coarse SAND, some Silt, and fine to coarse Gravel, little Organics and debris	Debris included hinges, coal, broken glass, sheet metal, and wood
1	TL	SP			
2	TL	SM			
3			Light brown, fine to medium SAND, little Silt, trace Gravel		
4	WS	WS	Olive gray to dark gray SILT and fine SAND, little fine to coarse Gravel, trace Cobble	Weathered SHALE	
5			Weathered SHALE		
6					
7					
8					
9					

EXCAVATION DIMENSIONS: (Length X Width X Depth): 50' X 3' X 5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1625	123052	34.0' X 0.8' D
1640	123053	50.0' X 5.5' D
1655	123054	34.0' X 1.5' D



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 9/30/98 1000  
 Date / Time Finish: 9/30/98 1120  
 Weather: Light rain, 60's, light wind SW  
 Contractor: Maxim  
 Inspector(s): KKS, JT

TEST PIT NO. TP12-14

Location:  
EM-11

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	ML	Light brown topsoil - SILT, some fine Sand, little organic matter and small Gravel, dry	No hits with VOC or Rad monitors
1	FL	CL-ML	Olive gray, SILT and CLAY, some organic matter (Roots), spots of red oxidation, dry	No signs of disturbed ground
2	WS	WS	Weathered SHALE	
3				
4				
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 20' X 3' X 3'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	<p align="center"><u>CROSS SECTION</u> (Include approximate dimensions)</p>
	123004	North end, 0.5' D	
	123005	Midway, 1.5' D	
	123006	South end, 1.5' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/2/98 1010  
 Date / Time Finish: 10/2/98 1620  
 Weather: Overcast, 50's  
 Contractor: Maxim  
 Inspector(s): DRG, KKS

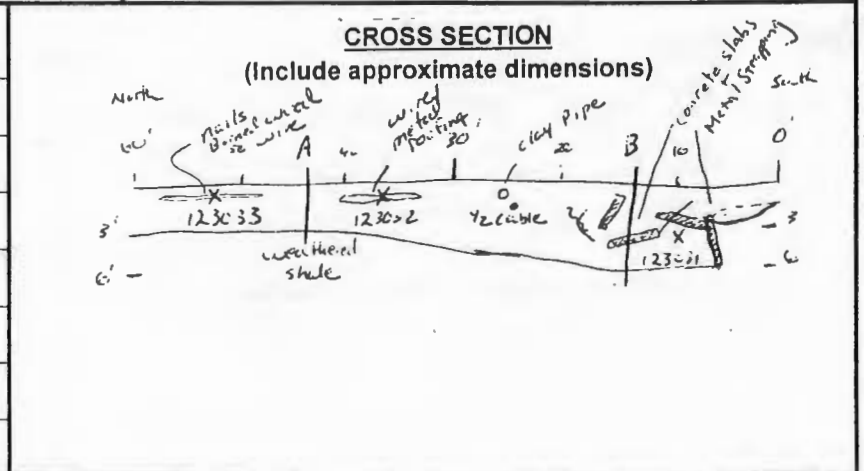
TEST PIT NO. TP12-15

Location:  
EM-5

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
			CORE A	CORE B	
0	FL	SM	Olive gray to light brown fine SAND, some Silt, little coarse	Olive gray to light brown fine SAND, some Silt, little coarse	
1			Sand to fine Gravel, trace Organic matter, dry to moist	Sand to fine Gravel, trace Organic material, dry to moist	
2	TL	SM			
3			Olive gray to dark gray SILT and fine Sand, little coarse Sand, trace Cobble, moist	Olive gray to dark gray SILT and fine SAND, little coarse Sand, trace Cobble, moist to 4.5', wet to 5', saturated below 5'	
4	WS	WS			
5			Weathered SHALE		
6				Weathered SHALE	
7					
8					
9					

EXCAVATION DIMENSIONS: (Length X Width X Depth): 62' X 3' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
	123031	12 N X 3.5' D
	123032	38 N X 2.0' D
	123033	51 N X 0.8' D



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/3/98 0845  
 Date / Time Finish: 10/3/98 1240  
 Weather: Cloudy, 60's, light wind  
 Contractor: Maxim  
 Inspector(s): KKS, DRG

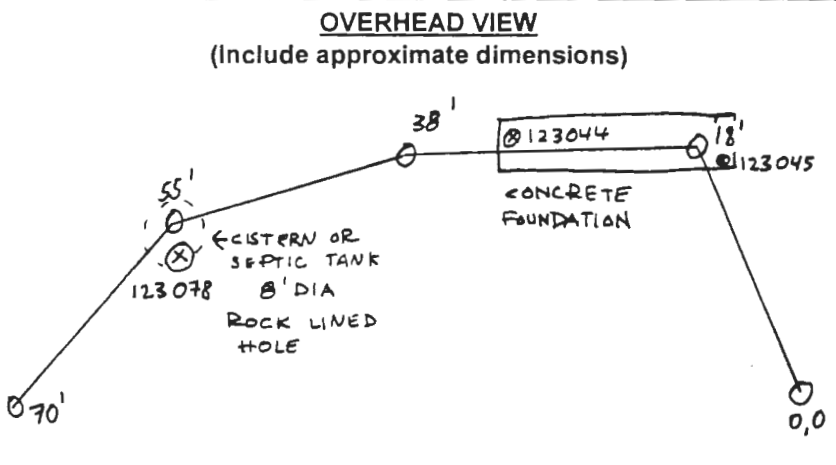
TEST PIT NO. TP12-16A

Location:  
EM-5

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GM	Dark gray fine SILT to medium SAND, some fine to coarse Gravel, little Organics (Roots) and debris, dry	Probable site of a farm related building - no positive Army debris found - Nails, horseshoe, concrete fragments, rusty sheet metal (.4' X .4'), rusty metal strapping, and glass shard found at 0-15' X 0-4' deep - Metal strapping, sheet metal fragments, 18" rebar, nail, beginning of a large concrete slab, 8" steel or iron door hinge, and 2" diameter metal ring found at 15-20' X 0-2' deep - Nails, 1' light chain, and more door hardware found at 20-25' X 0.5' deep - Pottery shards, glass bottle fragment, 3/4" metal pipe, sheet metal fragments, and metal strapping found at 35-50'
1				
2	FL	GM	Light brown fine SAND and SILT, some medium to coarse Gravel, dry	
3	TL	SM	Olive gray to dark gray SILT and SAND, little coarse Sand to fine Gravel, trace Cobble	
4	WS	WS	Weathered SHALE	
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 70 X 3 to 6' X 3.5 to 4'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1210	123045	18.0' X 2.0' D
1215	123044	31.0' X 0.6' D
1220	123078	18.0' X 2.0' D



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/6/98 0950  
 Date / Time Finish: 10/6/98 1200  
 Weather: Clear, 60's, wind out of the SW  
 Contractor: Maxim  
 Inspector(s): KKS, JT, BC

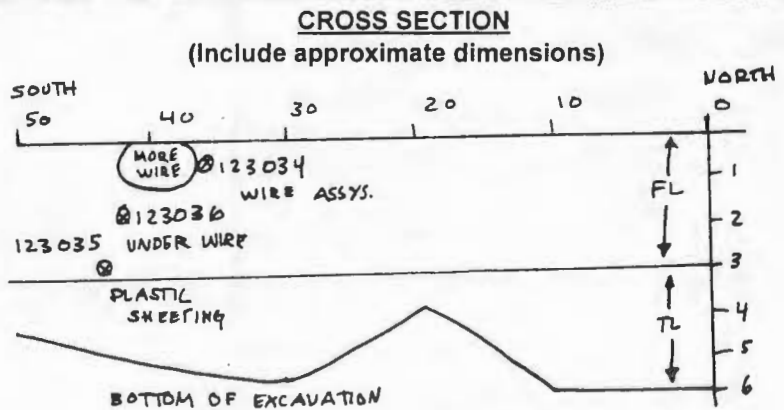
TEST PIT NO. TP12-17

Location:  
EM-27

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil - dark gray, fine to medium SAND, some Silt, fine to medium Gravel, trace Organics	6" by 6" metal square wire frames (10)
1	FL	SM	Disturbed till - olive gray	More wire frames, small pieces of plastic sheeting
2				
3	TL	SM	Undisturbed Till - olive gray, very dense	
4				
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 50' X 3' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
	123034	36' X 0.5' D
	123035	44' X 3.0' D
	123036	42' X 2.0' D





**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12 Project Number: 730047-01001 Date / Time Start: 10/1/98 0910 Date / Time Finish: 10/1/98 1200 Weather: Showers, 60 deg., gusty winds Contractor: Maxim Inspector(s): KKS, JT	TEST PIT NO. TP12-18
	Location: EM-28

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil - Dark gray, fine to medium SAND, some Silt, trace Organics (Roots)	No VOC or Rad hits
1	FL	GM	Brown, fine to medium SAND, some Silt, little Shale fragments, dry	Rust, metal fragment, glass shard, fence wire pieces, and part of metal fence post
2	FL	SM	Light brown, fine to medium SAND, some Silt, dry	
3	TL	GM	Olive gray SILT, fine to medium Sand, Shale fragments, moist	Undisturbed
4				
5				
6	WS	WS	Weathered SHALE	
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 43' X 3' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	CROSS SECTION (Include approximate dimensions)
1015	123022	39.0' X 0.5' D	
1040	123023	34.0' X 4.0' D	
1050	123024	38.0' X 4.5' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/1/98 1337  
 Date / Time Finish: 10/1/98 1440  
 Weather: Partly sunny, 65 deg., windy  
 Contractor: Maxim  
 Inspector(s): KKS, JT

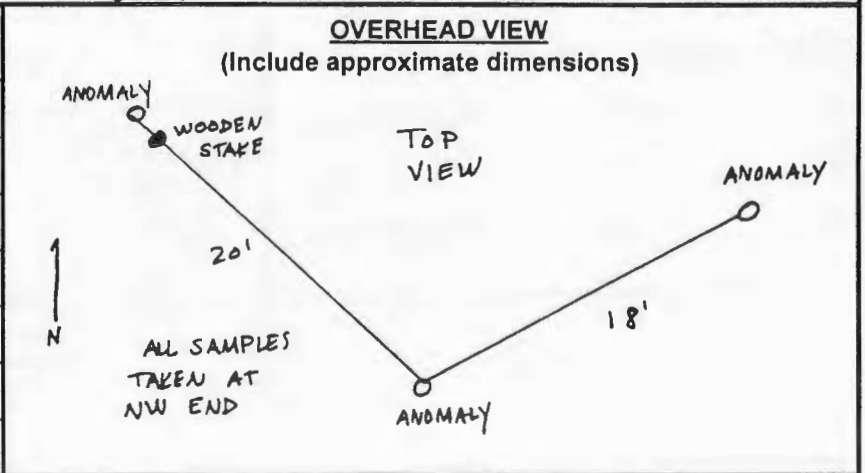
TEST PIT NO. TP12-19

Location:  
EM-28

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil - dark gray, fine to medium SAND, Silt, Roots, dry	No VOC or Rad hits. Only man-made object was an old stake at NW end - 5' D
1	TL	SM	Light brown to olive gray fine to medium SAND, Silt, dry	
2				
3				
4	TL	SM	Same as above, moist	
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 38' X 3' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1445	123025	NW end of pit
1450	123026	NW end of pit
1455	123027	NW end of pit



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12 Project Number: 730047-01001 Date / Time Start: 9/30/98 1340 Date / Time Finish: 9/30/98 1355 Weather: Partly sunny, 70's, light wind Contractor: Maxim Inspector(s): KKS, JT	TEST PIT NO. TP12-20  Location: EM-38-1
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DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil - light brown SILT, fine to medium Sand, some small Shale fragments, little Organic (Roots)	No VOC or Rad hits
1	FL	SM	Light brown SILT, fine to medium SAND, some Shale fragments, little Organics (Roots), very dense, dry	No VOC or Rad hits
2				Red stained soil sampled - #123020
3				1.0' to 6.0' very uniform stratigraphy, cannot say if this is fill or undisturbed. Wire could have come from 2.0' to 2.5'
4			Small pocket of brick red soil - possibly oxidation staining from a piece of heavy wire found in the dirt pile from an unknown depth	
5				
6	WS	WS	Weathered SHALE	
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 12' X 3' X 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	<b>CROSS SECTION</b> (Include approximate dimensions)
1400	123019	mid-trench, 0.5' D	
	123020	mid-trench, 2.5' D	
	123021	mid-trench, 6.0' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12 Project Number: 730047-01001 Date / Time Start: 9/29/98 1100 Date / Time Finish: 9/29/98 1520 Weather: Sunny, 70 deg ., moderate wind Contractor: Maxim Inspector(s): KKS, JT	TEST PIT NO. TP12-21  Location: EM-10
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DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GP	Dark brown, fine to coarse SAND, Shale fragments, dry	No VOC or Rad hits with monitoring instrument
1				Debris - brick fragments, lumber, black plastic sheeting, 3' rolls of barbed wire (4), 1' diameter boulders, Dr. Pepper can with tapered top and pull tab opening
2				
3				
4				
5	FL	GP	Moist Fill - Roots, some debris	Wood fragments, brick fragments
6				
7	WS	WS	Weathered SHALE	No sign of undisturbed material above weathered shale
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 18' X 3' X 6.5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION	<p align="center"><b>CROSS SECTION</b> (Include approximate dimensions)</p>
1515	123001	0.0' X 0.7' D	
1520	123002	10.0' X 3.0' D	
1525	123003	8.0' X 5.5' D	

**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/4/98 1535  
 Date / Time Finish: 10/5/98 1220  
 Weather: Clear, 70's, dry  
 Contractor: Maxim  
 Inspector(s): KKS, RLC, DRG

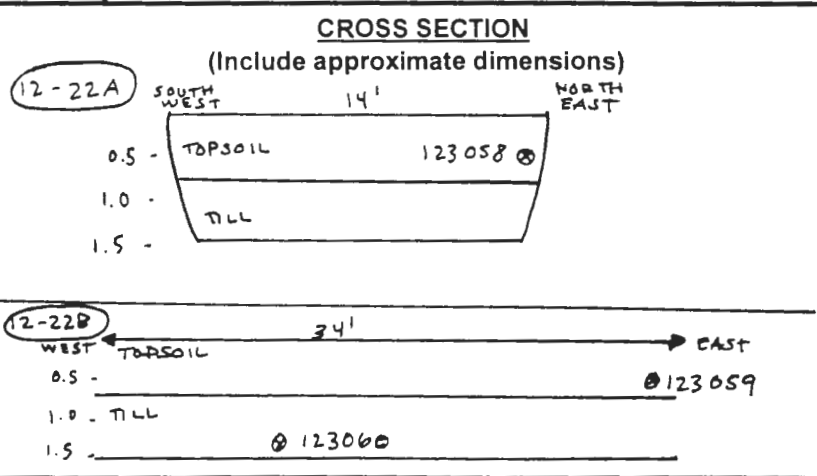
TEST PIT NO. TP12-22A+B

Location:  
EM-13

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Topsoil - brown SILT and fine SAND, little medium Sand, trace fine Gravel, trace Clay, trace Roots Olive gray to brown, SILT and fine SAND, little Clay, trace Gravel, dry Olive gray to dark brown SILT and fine SAND, little fine to coarse Gravel, trace Cobble, dry Weathered SHALE	
1	TL	SM		
	TL	GM		
2	WS	WS		
3				
4				
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): A: 14' X 3' X 1.5' B: 34' X 3' X 1.5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1550	123058	14.0' X 0.5' D (A)
1555	123059	34.0' X 0.5' D (B)
1600	123060	14.0' X 1.5' D (C)



**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/17/98 0846  
 Date / Time Finish: 10/17/98 0935  
 Weather:  
 Contractor: Maxim  
 Inspector(s): KKS, JT

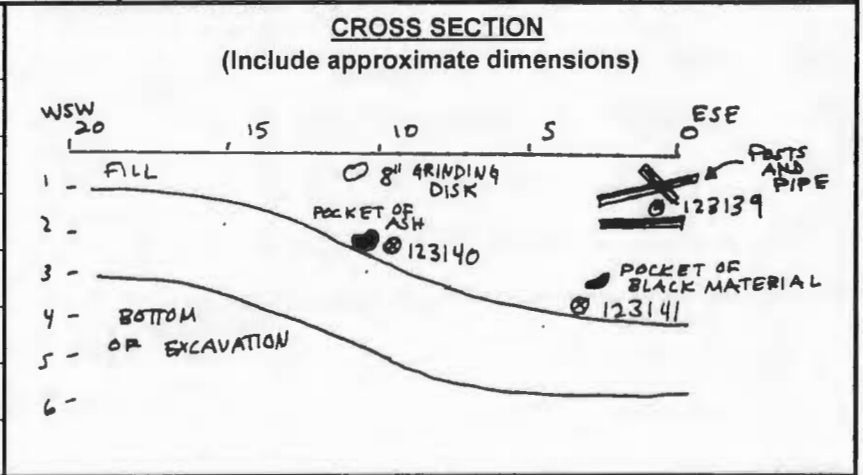
TEST PIT NO. TP12-23

Location:  
EM- 23

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL		COMMENTS
			18' (West)	1' (West)	
0	FL	SM	Fill - olive gray to light brown fine SAND, some Silt, little coarse Sand and fine Gravel and Cobble, Grass and Roots on surface, moist 0-5', otherwise dry	Fill - same as left	
1	TL	SM			
2					
3	TL	SM	Olive gray, fine SAND, some Silt, little coarse Sand and fine to coarse Gravel, trace Cobble and Boulder, very dense	Till - same as left	
4					
5			Olive gray fine SAND, some silt.		
6					
7					
8					
9					

EXCAVATION DIMENSIONS: (Length X Width X Depth): 20' X 3.5' X 3 to 6'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
0850	123139	0.0' X 1.0' D
0910	123140	10.0' X 2.0' D
0930	123141	3.0' X 3.0' D



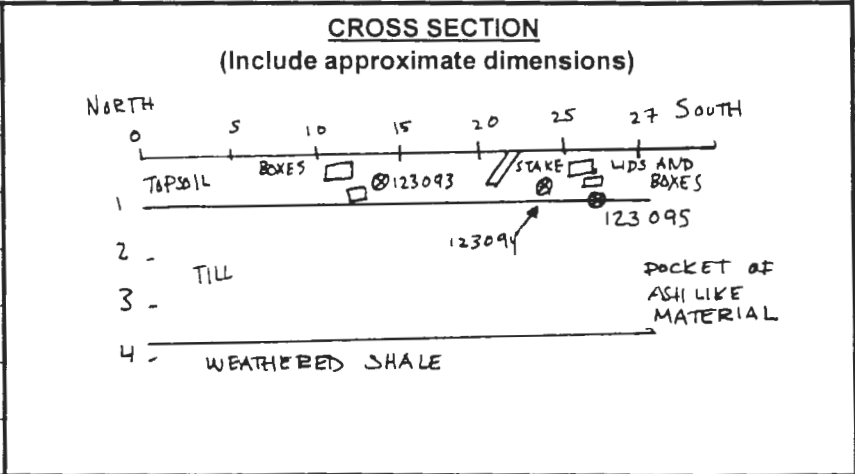
**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12 Project Number: 730047-01001 Date / Time Start: 10/13/98 1400 Date / Time Finish: 10/13/98 1525 Weather: Sunny, 60 deg., light wind Contractor: Maxim Inspector(s): KKS, JT	TEST PIT NO. TP12-24  Location: EM-14
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DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	SM	Dark gray fine to medium SAND, some Silt, little coarse Gravel, trace Organics, dry	Ammo boxes lined with plywood - crushed and rusted lids, angle iron stakes No debris
1	TL	SC	Olive gray to light brown fine to medium SAND, Silt, trace fine Gravel, dry	
2				
3				
4	WS	WS	Weathered SHALE	
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 27' X 3' X 3.8'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1400	123093	13.0' X 0.5' D
1427	123094	24.0' X 0.5' D
1500	123095	26.0' X 1.0' D



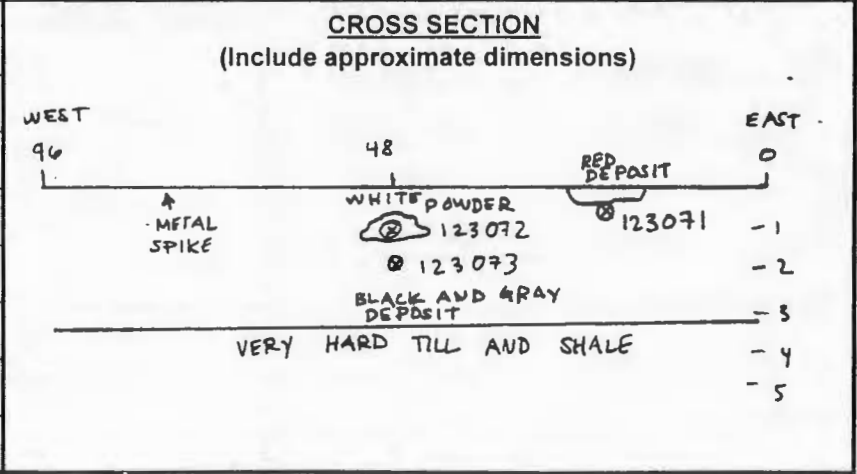
**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

<p>Project Name: SEAD-12                  Project Number: 730047-01001                  Date / Time Start: 10/5/98 1004                  Date / Time Finish: 10/5/98 1215                  Weather: Sunny, 60 deg., variable wind direction                  Contractor: Maxim                  Inspector(s): KKS, JT, BC</p>	<p><b>TEST PIT NO. TP12-25</b></p> <p>Location: North of BLDG 805</p>
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DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GM	Dark gray, fine to coarse SAND, some Silt and fine to coarse Gravel, little Organic material, moist, variable thickness	Topsoil and till interface was difficult to determine in most locations. There were several different colored pockets of soil, probably natural clays and oxidized rocks. A very small deposit of white powder was sampled (123072). Could have been rock powder from a backhoe tooth, not sure. A nail was found in the spoils pile at 75'.
1	TL	SM	Olive gray to light brown SILT and fine SAND, some medium Sand, little fine to coarse Gravel, moist	
2				
3				
4	TL	SM	Hard Till and SHALE, too hard for backhoe to do continuous digging, moist, no water	
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 96' X 3' X 3.5'  
 AIR MONITORING DATA: Background OVM Reading: 0 ppm  
 Maximum Breathing Zone OVM Reading: 0 ppm

TIME	SAMPLE I.D.	LOCATION
1035	123071	17.0' X 0.5' D
1215	123072	48.0' X 1.0' D
1220	123073	47.5' X 1.5' D





**PARSONS ENGINEERING SCIENCE, INC.  
TEST PIT RECORD**

Project Name: SEAD-12  
 Project Number: 730047-01001  
 Date / Time Start: 10/5/98 1425  
 Date / Time Finish: 10/5/98 1650  
 Weather: Sunny, 70 deg., variable wind direction  
 Contractor: Maxim  
 Inspector(s): KKS, JT., BC

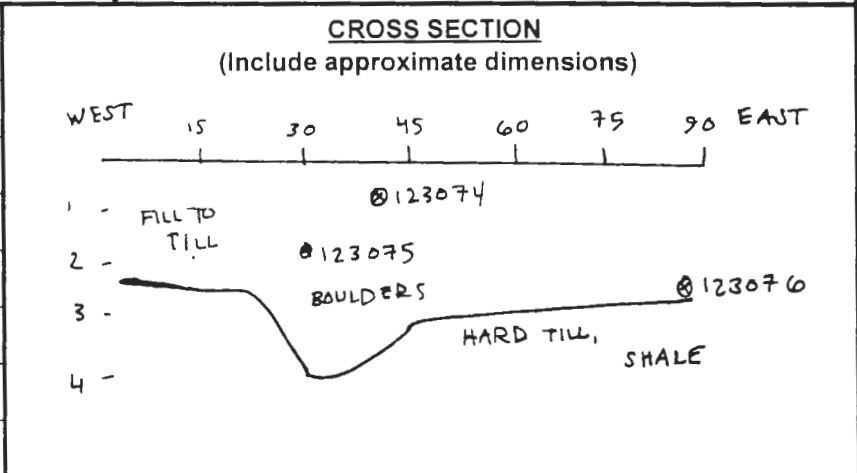
TEST PIT NO. TP12-26

Location:  
 North of BLDG 805

DEPTH (ft bgs)	Stratigraphy	Macro	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0	FL	GW	Olive gray to dark brown fine to medium SAND, some fine to coarse Gravel and Silt, trace Clay (red to orange-brown in pockets), little to no Organics, several small to large Cobbles, moist	Surface of ground is mostly non-vegetated - light gray with gravel and cobbles. Very little topsoil. Little sign of any disturbance except in short intervals - no more than 1.0' D.  No man made items found
1	TL			
2				
3				
4	TL	SM	Hard Till and SHALE, too hard for backhoe to do continuous digging, moist, no water	
5				
6				
7				
8				
9				

EXCAVATION DIMENSIONS: (Length X Width X Depth): 93' X 3' X 2.8-4.5'  
 AIR MONITORING DATA: Background OVM Reading: BKG  
 Maximum Breathing Zone OVM Reading: BKG

TIME	SAMPLE I.D.	LOCATION
1530	123074	43.0' X 0.4' D
1605	123075	30.0' X 1.3' D
1600	123076	92.0' X 3.0' D



1950

1000

Date	Description	Debit	Credit
1950	Jan 1		
1950	Jan 2		
1950	Jan 3		
1950	Jan 4		
1950	Jan 5		
1950	Jan 6		
1950	Jan 7		
1950	Jan 8		
1950	Jan 9		
1950	Jan 10		
1950	Jan 11		
1950	Jan 12		
1950	Jan 13		

## SOIL BORING LOGS



2023-2024



# LOG OF BORING NO. MW12-1

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 12/4/1997  
**DATE COMPLETED:** 12/4/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 9  
**DEPTH TO WATER:** 4.5  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** EAF  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
					0		This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
	1	14	0	7.5	0		Brown SILT, little Clay, trace fine Sand, Organic rich, moist	ML	FL
	4	---			0.8		Light brown CLAY, some Silt, slightly mottled, moist	CL	TL
	11	---			1.4		No Recovery		
	15	15	0	7.5	2		Brown and gray CLAY, some Silt, little fine to coarse Gravel, firm, dry to moist	CL	
	8	---			3		No Recovery		
	22	---			3.5		No Recovery		
	28	---			4		Brown CLAY, some Silt, little fine to coarse Gravel, moist to wet	CL	
	26	17	0	8	4		No Recovery		
	15	---			5		No Recovery		
	25	---			5.7		No Recovery		
	27	---			6		Brown CLAY, some Silt, little fine to coarse Gravel, wet	CL	
	28	0.9	0	7.5	6		No Recovery		
	36	---			6.9		No Recovery		WSH
	100/4	---			7		No Recovery		
	100/4	0.3	0	8	8		Gray, weathered SHALE	WSH	
					8.3		No Recovery		
					9		Auger Refusal at 9'		
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:



**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-1**

# LOG OF BORING NO. MW12-2

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/6/1997  
**DATE COMPLETED:** 11/6/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 6  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** EAF  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	<p style="text-align: center; font-size: small;">This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.</p>	USCS Class	Stratum Class
							DESCRIPTION		
	1	1	0	7	0		Dark brown SILT, trace fine Sand, Organic rich, moist	ML	FL
	3				1	0.9	No Recovery		TL
	8				2	2.0	Gray SILT, little Clay, trace fine to coarse Sand, trace Cobble, moist	ML	
	5	2	0	8	3				
	8				4	4.0	Dark gray SHALE, little fine Sand, dry	WSH	WSH
	12				4	4.7	No Recovery		
	35	0.7	0	7.5	5				
	98				6	6.0	Auger Refusal at 6'		
	100/2				7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

# LOG OF BORING NO. MW12-3

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/6/1997  
**DATE COMPLETED:** 11/6/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 18  
**DEPTH TO WATER:** 7.8  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** EAF  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6')	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
					0		This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
					0		Dark brown SILT, some Clay, little fine to coarse Sand, moist	ML	FL
2	15	0	8	0	1				TL
9					1.5		No Recovery		
12					2.0		Brown and gray SILT, some Clay, little fine to coarse Gravel, moist, hard	ML	
19	18	0	8	2	3				
11					3.8		No Recovery		
21					4.0		Brown, silty CLAY, little fine to coarse Sand, little fine to coarse Gravel, moist, hard	CL	
30					5.8		No Recovery		
35	18	0	8	4	6.0		Brown, silty CLAY, little fine to coarse Sand, little fine to coarse Gravel, very moist, hard	CL	
13					7.9		No Recovery		
42					8.0		Brown, silty CLAY, little fine to coarse Sand, little fine to coarse Gravel, wet, hard	CL	
45					9.9		No Recovery		
47	19	0	8	6	10.0		Brown, silty CLAY, little fine to coarse Sand, little fine to coarse Gravel, wet, hard	CL	
49					12.0		Brown CLAY, some Silt, little fine to coarse Sand, little fine to coarse Gravel (Shale, Siltstone), moist, hard	CL	
45					13.3		No Recovery		
42					14.0		Brown CLAY and fine to coarse GRAVEL (Shale, Siltstone)	CL	
37	19	0	7	7	14.7		No Recovery		
11					16.0		Brown CLAY and fine to coarse GRAVEL (Shale, Siltstone)	CL	
25					17.5		Dark gray SHALE and SILTSTONE	WSH	WSH
38	2	0	8	8	17.8		Weathered SHALE	WSH	
87					18.0		Auger Refusal at 18'		
33									
33									
32	13	0	7	12					
50									
12									
85	0.7	0	7	14					
100/2									
18									
100/2									
25	18	0	7	16					
46									
70									
45									

NOTES:

**UNITED STATES ARMY  
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 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-3**



# LOG OF BORING NO. MW12-4

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/4/1997  
**DATE COMPLETED:** 11/4/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 12.4  
**DEPTH TO WATER:** 8  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** DRG  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.								
DESCRIPTION								
	3	18	BKG	BKG	0			
	5				1		OL	FL
	8				1.8			
	10	12	BKG	BKG	2.0	No Recovery	ML	TL
	11				3.2	Olive gray to light gray, SILT and fine SAND, little Clay, trace coarse Sand, trace fine Gravel, trace Roots, moist		
	15				4.0	No Recovery		
	34	14	BKG	BKG	4.0	Olive gray to light gray SILT and fine SAND, trace fine Gravel, dry to moist	ML	
	12				5.4			
	24				6.0	No Recovery		
	27				6.0	Olive gray to light brown SILT, little fine Sand, trace coarse Sand and Clay, trace fine Gravel, moist, very compact	ML	
	32	2	BKG	BKG	8.0			
	55				8.0	Dark gray to brown SILT, little fine Sand, little coarse Sand, little fine Gravel, trace Cobble (Shale), wet to saturated	ML	
	60	16	BKG	BKG	9.6			
	60				10.0	No Recovery		
	15				10.6	Dark gray SILT and SHALE fragments	WSH	WSH
	36	0.6	BKG	BKG	10.6			
	40				12.0	No Recovery		
	35				12.4	Competent SHALE	CSH	CSH
	50	0.4	BKG	BKG	12.4	Auger refusal at 12.4'		
	100/1				13			
	100/4				14			
					15			
					16			
					17			
					18			
					19			
					20			

NOTES:



# LOG OF BORING NO. MW12-5

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/4/1997  
**DATE COMPLETED:** 11/4/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 18.6  
**DEPTH TO WATER:** 9  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** DRG  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
					0		This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
	2	1.8	BKG	BKG	0		Brown SILT, some Clay, trace fine Gravel, trace Roots and Organic matter, moist	OL	FL
	6				1				
	7				1.8				
	8	1.5	BKG	BKG	2		No Recovery	ML	TL
	15				2.0				
	33				2.5		Olive gray SILT, some Clay, trace fine Gravel, trace Roots and Organic matter, moist	ML	
	50				3				
	55	1.4	BKG	BKG	3.5		Olive gray SILT, little fine Gravel and fine to coarse Sand, trace Cobble and Clay, dry	ML	
	24				4				
	38				4.0		No Recovery		
	32				5				
	45	0.8	BKG	BKG	5.4		Olive gray SILT, little fine Gravel and fine to coarse Sand, trace Cobble and Clay, dry	ML	
	65				6				
	107				6.0		No Recovery		
	12	1.7	BKG	BKG	6.8		Olive gray to brown SILT and very fine SAND, some coarse to medium Sand, trace Cobble and coarse Gravel, moist		
	25				7				
	83				8		No Recovery	ML	
	92				8.0		Brown SILT and very fine SAND, some coarse Sand, little fine Sand, trace fine to coarse Gravel, trace iron oxide staining, wet to saturated		
	20	2	BKG	BKG	9.7		No Recovery	ML	
	22				10				
	24				10.0		Brown SILT and very fine SAND, some coarse Sand, little fine Sand, trace fine to coarse Gravel, trace iron oxide staining, wet to saturated		
	26	1.8	BKG	BKG	11				
	35				12		Brown SILT and very fine SAND, some coarse Sand, little fine Sand, trace fine to coarse Gravel, trace Cobble (Shale), trace iron oxide staining, wet to saturated	ML	
	38				12.0				
	42				13				
	46	1	BKG	BKG	13.8		No Recovery	ML	WSH
	12				14		Brown SILT and very fine SAND, some coarse Sand, little fine Sand, trace fine to coarse Gravel, trace iron oxide staining, wet to saturated	WSH	
	38				14.2				
	42	1.8	BKG	BKG	14.2		Black, weathered SHALE fragments and cobbles	WSH	
	53				15				
	83				15.0		No Recovery		
	65				16		Black, weathered SHALE fragments and cobbles		
	85	0.2	BKG	BKG	16.0				
	80				16.8		No Recovery	CSH	CSH
	70				17		SHALE chips		
	100/1				18		No Recovery		
					18.0				
					18.2				
					18.6				
					19		No Recovery		
					20				

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-5**

# LOG OF BORING NO. MW12-5

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/4/1997  
**DATE COMPLETED:** 11/4/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 18.6  
**DEPTH TO WATER:** 9  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** DRG  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
					20		Auger Refusal at 18.6'		
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

NOTES:

**LOG OF BORING MW12-5**



**PARSONS ENGINEERING SCIENCE, INC.**

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

# LOG OF BORING NO. MW12-6

**PROJECT: SEDA**  
**PROJECT LOCATION: Seneca Army Depot, Romulus, New York**  
**ASSOCIATED AREA/UNIT: SEAD 12**  
**PROJECT NO.: 730047**  
**DATE STARTED: 10/30/1998**  
**DATE COMPLETED: 10/30/1998**  
**DRILLING CONTRACTOR: Maxim**  
**DRILLING METHOD: HSA 8"**  
**SAMPLING METHOD: Split Spoon**

**TOTAL DEPTH: 12**  
**DEPTH TO WATER: 5.8**  
**BORING LOCATION:**

**COORDINATE SYSTEM: NAD83**  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM: NAVD1927**  
**INSPECTOR: ITR**  
**CHECKED BY: DRG**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123190		15	0	9.5	0		Dark brown to light brown, fine SAND, little Silt, little coarse Sand, trace Clay, moist	SM	FL
				11	1				
				10	1				
		18	0	10	2	No Recovery	Olive gray to light brown, fine to medium SAND, little Clay, little fine Gravel, trace medium Gravel, moist	SC	TL
				11	3				
123191		2	0	11	4	No Recovery	olive gray to light brown, fine SAND, little Clay, little fine to medium Gravel, moist	SC	
				10	5				
				10	5				
123192		2	0	11	6		Light brown, fine SAND and SILT, wet	SM	
				10	7		Light brown, fine SAND and SILT, trace fine to medium Gravel, trace Cobble, wet	SM	
				10	7				
				11	8		Olive gray, fine SAND, little Silt, little fine to coarse Gravel, little Clay, trace Cobble, moist	GC	
				10	9		No Recovery		
		2			10		Weathered SHALE	WSH	WSH
					11				
					12		Auger Refusal at 12'		
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

# LOG OF BORING NO. MW12-7

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/28/1998  
**DATE COMPLETED:** 10/28/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13.6  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		USCS Class	Stratum Class
							DESCRIPTION			
123180		1.8	0	16	0				SM	FL
					11	1				
123181		2	0	14	2	1.8			SC	TL
					14	3				
123182		2	0	18	4	4.0			SC	
					18	5				
123182		2	0	18	6	6.0			SC	
					16	7				
123182		2	0	20	8	8.0			CL	
					29	9				
				19	10	10.0				WSH
					11					
					12					
					13					
					13.6					
					14					
					15					
					16					
					17					
					18					
					19					
					20					

NOTES:

# LOG OF BORING NO. MW12-8

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/28/1998  
**DATE COMPLETED:** 10/28/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 12  
**DEPTH TO WATER:** 10  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123183		2	0	10	0		Dark brown to light gray, fine SAND, little Silt, little fine Gravel, trace Clay, moist	SM	FL
					9				
					10				
		15	0	11	2		Brown to light gray, fine SAND, little coarse Sand, little Silt, trace Cobble, dry	SM	
					11				
					12				
123184		2	0	10	4		Dark brown to light gray, fine SAND, little Silt, little coarse Sand, trace fine to medium Gravel, trace Cobble, moist	SM	TL
					10				
					9				
		2	0	10	6		Light brown to olive gray, fine SAND, little Silt, little fine to coarse Gravel, trace Cobble, moist	SM	
					10				
					10				
123185		2	0	13	8		Dark brown to olive gray, fine SAND, some Clay, little Silt, little fine to medium Gravel, trace coarse Gravel (Shale), moist	GC	
					11				
					11				
					10		No Recovery		WSH
					11				
					12				
							Auger Refusal at 12'		

NOTES:



**UNITED STATES ARMY  
 CORPS OF ENGINEERS**  
 Seneca Army Depot  
 Romulus, New York

**LOG OF BORING MW12-8**

# LOG OF BORING NO. MW12-9

**PROJECT: SEDA**  
**PROJECT LOCATION: Seneca Army Depot, Romulus, New York**  
**ASSOCIATED AREA/UNIT: SEAD 12**  
**PROJECT NO.: 730047**  
**DATE STARTED: 10/17/1998**  
**DATE COMPLETED 10/17/1998**  
**DRILLING CONTRACTOR: Maxim**  
**DRILLING METHOD: HSA 8"**  
**SAMPLING METHOD: Split Spoon**

**TOTAL DEPTH: 14.1**  
**DEPTH TO WATER: 11.5**  
**BORING LOCATION:**

**COORDINATE SYSTEM: NAD83**  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM: NAVD1927**  
**INSPECTOR: ITR**  
**CHECKED BY: DRG**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123T55	3	1.5	0	8	0				
	6			9	1		Light brown to light gray, fine SAND, little Silt, little Clay, trace fine to medium Gravel, moist	SM	FL
	18			10.5	1.5		No Recovery		TL
	26	2	0	10	2	2.0	Light brown to light gray, fine SAND, little Silt, little fine to medium Gravel, trace coarse Gravel, dry	GC	TL
	23			10	3				
	32			9	3				
	36			9	4	4.0	Olive gray, fine SAND, little Silt, little fine to medium Gravel, trace Clay, trace Cobble (Limestone), moist	GC	
	42	1.2	0	9	4				
	14			10	5	5.2	No Recovery		
	24			13	6	6.0	Olive gray, fine SAND, little Clay, little Silt, little fine to coarse Gravel, moist	SC	
	25			14	7				
	29	2	0	14	7				
	14			15	8	8.0	No Recovery		
	13				8				
	21				8				
	23				8				
	18				8				
	26				8				
	33	2	0	15	10	10.0	Olive gray to reddish-brown CLAY and fine SAND, little Silt, little fine to coarse Gravel, wet	CL	
	41			14	11				
10			19	11					
15				12	12.0	No Recovery		WSH	
26				12					
40				12					
26				12					
40				12					
75/2				14	14.1	Auger Refusal at 14.1'			

NOTES:

# LOG OF BORING NO. MW12-10

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 9/29/1998  
**DATE COMPLETED:** 9/30/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 17  
**DEPTH TO WATER:** 9.4  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
							This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
123007	6	2	0	10	0		Light brown, fine SAND, little Silt, little fine Gravel, trace coarse Gravel, dry	SM	FL
	9			10	1				
	12			10	1				
	13	15	0	10	2	20	Light brown to light gray, fine SAND, some Silt, little coarse Sand, trace fine Gravel, dry	SM	
	11			10	3				
	18			10	3				
	17			10	3	35			
123008	20	17	0	11	4	40	No Recovery		TL
	8			11	5		Light brown to olive gray, fine SAND, some Silt, little Clay, little fine to medium Gravel, dry	SM	
	12			11	5				
	22			11	5	57			
	23	2	0	11	6	60	No Recovery	GM	
	12			11	7		Dark brown to olive gray, fine SAND, some Silt, little Clay, little fine to coarse Gravel, trace Cobble, moist		
	24			11	7				
123009	27	18	0	10.5	8	80	Dark brown to dark gray/olive gray, fine SAND, some Silt, little Clay, little fine to coarse Gravel, trace Cobble, wet to saturated	GC	
	32			9	9				
	20			10	9				
	18			10	9				
	18	18		10	10	98	No Recovery	GC	
	19			10	10	100	Light brown to olive gray, fine SAND and SILT, some clay, little fine to coarse Gravel, trace Cobble, wet		WSH
				11	11				
				11	11				
	16	2		11.8	12	118	Olive gray, fractured SHALE, some fine Sand and Silt		WSH
	26			12	12	120	No Recovery	WSH	
	18			12	12		Weathered SHALE		
	7			10	13				
				10	14				
				10	14		No Recovery		
				10	15				
				10	16				
				10	17				
				10	17	170	Auger Refusal at 17'		
				10	18				
				10	19				
				10	20				

NOTES:



**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
**Seneca Army Depot**  
**Romulus, New York**

**LOG OF BORING MW12-10**

# LOG OF BORING NO. MW12-11

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 9/29/1998  
**DATE COMPLETED:** 9/29/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13  
**DEPTH TO WATER:** 9  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.								
DESCRIPTION								
123010	5	2	0	11.5	0	Light gray to yellowish-orange, fine SAND, some Silt, little Clay, little coarse Sand, little Organics, trace Gravel, dry	SM	FL
	10			11.5	1			
	20			11.5				
	29	1.6	0	10.5	2	Light gray to yellowish-orange, fine SAND, some Silt, little Clay, little coarse Sand, little fine Gravel, trace coarse Gravel, trace Roots, dry	SM	
	27			10	3			
	61			11.5				
	45				3.6			
123011	53	1.6	0	10	4	No Recovery		TL
	23			10	4.0	Olive gray to light gray, fine SAND, some Silt, little Clay, little coarse Sand, little fine Gravel, trace coarse Gravel, trace Cobble, dry to moist	SM	
	28			10	5			
	27			10	5.6			
	28	1.5	0	10	6	No Recovery		GM
	23			10	6.0	Dark gray to dark brown, fine SAND, some Silt, little Cobble, little Clay, trace fine Gravel, dry to moist		
	47			10	7			
	39	1.5	0	9	7.5	No Recovery		
123012	63			10	8	Dark gray to dark brown, fine SAND, some Silt, some fine to coarse Gravel (Shale fragments), moist	GM	
	67			10	8.0			
	100/3				9.0	Weathered SHALE, saturated	WSH	WSH
					9.5	No Recovery		
					10			
					11			
					12			
					13	Auger Refusal at 13'		
					14			
					15			
					16			
					17			
					18			
					19			
					20			

NOTES:



# LOG OF BORING NO. MW12-12

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 9/30/1998  
**DATE COMPLETED:** 9/30/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13  
**DEPTH TO WATER:** 11  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123013		15	0	13.5	0		Light brown to dark gray, fine SAND, some Clay, little Silt, little fine to coarse Gravel, moist	SC	FL
				13.5	1		No Recovery		TL
		18	0	11	2		Light brown to dark brown, fine to medium SAND, some Clay, little Silt, trace fine Gravel, moist	GC	
				11.5	3		No Recovery		
123014		16	0	14	4		Light brown to dark gray, fine to medium SAND, some Clay, little Silt, little fine Gravel, moist	GC	
				14	5		No Recovery		
		18	0	12	6		Dark brown to olive gray CLAY, some veins of fine Sand, little Silt, wet	CL	
				11	7		No Recovery		
123015		18	0	13	8		Dark brown to olive gray CLAY, some fine Sand, little Silt, little fine to medium Gravel, damp	CL	
				10	9		No Recovery		
		1	0	12	10		Dark brown CLAY, some fine Sand, little Silt, little fine to medium Gravel, wet	CL	WSH
				10.5	10.5		Weathered SHALE	WSH	WSH
				11	11		No Recovery		
				12	12		Auger Refusal at 13'		

NOTES:

# LOG OF BORING NO. MW12-13

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/1/1998  
**DATE COMPLETED:** 10/1/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	<p style="text-align: center; font-size: small;">This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.</p> <p style="text-align: center; font-weight: bold;">DESCRIPTION</p>	USCS Class	Stratum Class
123016	3	1.5	0	11.5	0		Light brown to dark brown, fine SAND, some Silt, little coarse Sand, little Organics, trace fine to medium Gravel, dry	SM	FL
	9			10	1				TL
	13				1.5				
	16	1.6	0	9	2	No Recovery	Dark brown to olive gray, fine SAND, some Silt, little Clay, little fine Gravel, little Organics, trace Cobble, dry to moist	SC	
	16			10.5	3	No Recovery			
	15				3.6				
123015	20	2	0	11	4	No Recovery	Light brown to dark gray, very fine SAND, some coarse Sand, some Silt, little fine to coarse Gravel, trace Cobble, damp	GM	
	11			11	5	No Recovery			
	13			10	5.5	No Recovery			
	28				6.0	No Recovery	SHALE fragments	GW	
	76	1.8	0	9	6	No Recovery	Olive gray to dark gray, fine SAND, some fine to coarse Gravel (Shale), some Silt, trace Cobble, damp	GC	
	18			9.5	7	No Recovery			
	25			9.5	7	No Recovery			
123018	38	1.6	0	10	8	No Recovery	Olive gray to dark gray, fine SAND, some fine to medium Gravel, some Silt, little Clay, trace Cobble, wet	GC	
	40			11.5	9	No Recovery	Weathered SHALE	WSH	WSH
	20				9.6	No Recovery			
	10				10	No Recovery			
	15				10	No Recovery			
	38				10	No Recovery			
					11	No Recovery			
					12	No Recovery			
					13	No Recovery			
					13.0	No Recovery	Auger Refusal at 13'		
					14	No Recovery			
					15	No Recovery			
					16	No Recovery			
					17	No Recovery			
					18	No Recovery			
					19	No Recovery			
					20	No Recovery			

NOTES:



**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-13**

# LOG OF BORING NO. MW12-14

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/10/1998  
**DATE COMPLETED:** 10/15/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13.8  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123099	2	18	0	10	0			SM	FL
	6				1		Light brown to light gray, fine SAND, some Silt, little Clay, little fine Gravel, dry		
	10				1.8			SM	
	16	15	0	10	2		No Recovery		
	17				8.5		Light gray, fine SAND, some Silt, little fine to coarse Gravel, trace Clay	TL	
	28				3		No Recovery		
	28				12	4		GC	
	34	16	0	12	4		Olive gray to light gray, fine SAND, some Silt, little fine to coarse Gravel, trace Clay, damp		
	20				11	5		GC	
	20				12	5	No Recovery		
28				10	6		GC		
29	2	0	10	6		Olive gray, fine SAND, some Clay, little fine to coarse Gravel, trace Cobble, trace Silt, damp			
29				11	7		GC		
40				10	7	No Recovery			
123100	29	2	0	9	8		GC		
	28			9.5	8				Olive gray, fine SAND and SILT, some Clay, little fine to coarse Gravel, trace Cobble, moist
123101	69			10	9		CL		
	31			8.5	10				Olive gray CLAY, some fine Sand, little fine to coarse Gravel, damp
	32	18	0	8.5	10		WSH		
	30			9	11				No Recovery
	8				9				
	16				11.8				Auger Refusal at 13.8'
24				9					
30					13.8				

NOTES:



**UNITED STATES ARMY**  
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 Seneca Army Depot  
 Romulus, New York

**LOG OF BORING MW12-14**

# LOG OF BORING NO. MW12-15

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/1/1998  
**DATE COMPLETED:** 10/1/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13.1  
**DEPTH TO WATER:** 7  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	
							USCS Class	Stratum Class
DESCRIPTION								
123028	6	1.8	0	10	0			
	12			9.5	1			
	20							
	22	1.6	0	10.5	2			
	17			11	3			
	7							
	24							
	25				4			
	80							
	81				5			
	100/1							
123029	12	1.8	0	9	6	Dark brown to olive gray, fine SAND, some Silt, little fine to medium Gravel, trace Clay, dry	GC	
	15			8	7			
	16			11				
	15				8			
123030	7	2	0	10	8	No Recovery	GC	
	11			10.5	9	Olive gray, fine SAND and CLAY, some Silt, little fine to medium gravel, trace Cobble, wet		
	13			10				
	17	1.5	0	9	10	Weathered SHALE, wet	WSH	WSH
	7			10				
	10				11			
	11			11.5				
	10				12	No Recovery		
					13			
					13.1			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

NOTES:



**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-15**

# LOG OF BORING NO. MW12-16

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/17/1998  
**DATE COMPLETED:** 10/17/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.2  
**DEPTH TO WATER:** 13.8  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
							USCS Class	Stratum Class	
DESCRIPTION									
123T49	3	15	0	9	0				
	7			10	1		Light brown to light gray, fine SAND, little Silt, little Clay, trace fine Gravel, trace Cobble, dry	SM	FL
	11	—			1.5		No Recovery		
	15	—	0	8	2		Light brown, fine SAND, little Clay, little Silt, trace fine to medium Gravel, trace Cobble, dry	SM	
	13	—		10.5	3		No Recovery		
	18	—		10.5	3.5		No Recovery		
	24	—			4		Light gray to light brown, fine SAND, little Clay, little Silt, little fine to medium Gravel, dry	SM	TL
123150	40	15	0	10	4		No Recovery		
	23	—		11	5		No Recovery		
	50	—		9	5.5		No Recovery		
	55	—			6		Light gray to light brown, fine SAND, little Silt, little Clay, trace fine to medium Gravel, trace Cobble (Limestone), dry	SW	
123151	54	2	0	9	6		Dark brown, fine SAND, little Silt, little fine Gravel, trace Cobble, moist	SW	
	23	—		10.5	7		No Recovery		
	41	—		9	8		Weathered SHALE	WSH	WSH
	55	—	0	10	8		No Recovery		
	50	1			9		No Recovery		
	57	—			9		No Recovery		
	68	—			10		No Recovery		
	50/1	15			10		No Recovery		
	23	—			11		No Recovery		
	30	—			11.5		No Recovery		
	36	—			12		No Recovery		
	40	—			13		No Recovery		
					14		No Recovery		
					14.2		Auger Refusal at 14.2'		
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:



PARSONS ENGINEERING SCIENCE, INC.

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-16**

# LOG OF BORING NO. MW12-17

**PROJECT: SEDA**  
**PROJECT LOCATION: Seneca Army Depot, Romulus, New York**  
**ASSOCIATED AREA/UNIT: SEAD 12**  
**PROJECT NO.: 730047**  
**DATE STARTED: 10/10/1998**  
**DATE COMPLETED 10/17/1998**  
**DRILLING CONTRACTOR: Maxim**  
**DRILLING METHOD: HSA 8"**  
**SAMPLING METHOD: Split Spoon**

**TOTAL DEPTH: 19.4**  
**DEPTH TO WATER: 14**  
**BORING LOCATION:**

**COORDINATE SYSTEM: NAD83**  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM: NAVD1927**  
**INSPECTOR: ITR**  
**CHECKED BY: DRG**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
DESCRIPTION									
123152	3	1.5	0	9	0		Dark brown to light gray, fine SAND, some Silt, little Clay, trace fine to medium Gravel, moist	SM	FL
	6				11				
	14				10				
	20	1.5	0	11	2	1.5	No Recovery		
	21				2	2.0	Light brown to light gray, fine SAND, some Silt, little Clay, little fine to medium Gravel, trace Cobble, dry	SM	
	21				9				
	29				9				
	31	1.7	0	9.5	4	3.5	No Recovery		
	17				10	4.0	dark brown to light gray, fine SAND, some Silt, little Clay, little Cobble, trace fine Gravel, moist	SM	
	21				10				
	23				10	5.7			
123153	30	1.8	0	10	6	6.0	No Recovery		
	20				11		Dark brown, fine SAND, some Clay, little Silt, little fine to medium Gravel, trace coarse Gravel, moist	SC	
	31				7				
	44				8	7.8	No Recovery		
	61				8	8.0	No Recovery		
	32				9				
	75				9				
123154	20	1.8	0	9	10	10.0	Dark brown and olive gray, fine SAND and CLAY, some Silt, little fine to medium Gravel, moist	SC	
	20				9				
	19				11				
	29				10				
	21	1.5			12	11.8	No Recovery		
	30				12	12.0	Weathered SHALE	WSH	WSH
	21				13				
	30				13	13.5	No Recovery		
	38				14				
	44				14				
					15				
					16				
					17				
					18				
					19				
					19.4				
					20				

NOTES:

**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
**Seneca Army Depot**  
**Romulus, New York**

**LOG OF BORING MW12-17**

# LOG OF BORING NO. MW12-17

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/10/1998  
**DATE COMPLETED:** 10/17/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 19.4  
**DEPTH TO WATER:** 14  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	<p style="text-align: center; font-size: small;">This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.</p>	USCS Class	Stratum Class
							DESCRIPTION		
					20		Auger Refusal at 19.4'		
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

NOTES:

**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
 Seneca Army Depot  
 Romulus, New York

**LOG OF BORING MW12-17**



**PARSONS ENGINEERING SCIENCE, INC.**

# LOG OF BORING NO. MW12-18

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/2/1998  
**DATE COMPLETED:** 10/2/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.5  
**DEPTH TO WATER:** 8.8  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123037	5	1.6	0	10.5	0		Dark brown to light gray, fine SAND, some Silt, little coarse Sand, trace fine to medium Gravel, dry	SM	FL
	16			9.5	1				
	26				1.6				
	30	1.8	0	10	2		No Recovery		
	19			11.5	2.0		Light gray to olive gray, fine SAND, some Silt, little fine to coarse Gravel, trace Cobble	SM	
	30			11	3				
	41				3.8				
	43	2	0	9	4		No Recovery		
	15			10	4.0		dark brown to olive gray, fine SAND, little Silt, little Clay, little fine to medium Gravel, moist	SC	
	27			8.5	5				
123038	27	1.9	0	10	6		Dark brown to olive gray, fine SAND, little Clay, little Silt, trace fine to medium Gravel, trace Cobble, wet	SC	TL
	28			11	7				
	27			12	7				
	22	1.8	0	8.5	8		No Recovery		
	32			9	7.9		Light brown to olive gray, fine SAND, some fine to coarse Gravel, little Clay, little Silt, wet	SC	
	18			9.5	8.0				
	19				9				
123039	12	1.6	0	10.5	10		No Recovery		
	20			10	10.0		Olive gray, fine SAND, some Silt, little Clay, little fine to coarse Gravel, trace Cobble (Shale), damp	SC	
	23				11				
	31				11.6				
	8	1.6	0	11	12		No Recovery		
	16			11.5	12.0		Olive gray to dark gray, weathered SHALE	WSH	WSH
	11				13				
	89				13.6		No Recovery		
					14				
					14.5		Auger refusal at 14.5'		
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:



# LOG OF BORING NO. MW12-19

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/2/1998  
**DATE COMPLETED:** 10/3/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 11  
**DEPTH TO WATER:** 6.5  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
							This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
123040	4	15	0	7	0		Light brown to light gray, fine to coarse SAND, little Silt, little fine to medium Gravel, trace Clay, dry	GM	FL
	7	—		6	1		No Recovery		TL
	12	—	0	8	2		Light brown to olive gray, fine SAND, little Silt, little fine to coarse Gravel, trace Cobble	GM	
	10	—		7.5	3		No Recovery		
	10	—		8	4		Light gray to yellowish-orange, fine SAND and CLAY, some Silt, trace fine Gravel, damp	CL	
	9	—	0	7	5		No Recovery		
	11	12		8	6		Light brown to yellowish-orange/light gray, fine SAND and CLAY, some Silt, trace fine to medium Gravel, damp to saturated	CL	
	9	—		7	7		No Recovery		
123041	14	—	0	8	8		Olive gray to dark gray, fine SAND, some Clay, little Silt, little fine to medium Gravel, wet	GC	
	16	15		7	9		Weathered SHALE, saturated	WSH	WSH
	6	—		7	10		No Recovery		
	7	—		7	11		Auger Refusal at 11'		
123042	13	—	0	7	8				
	16	15		8	9				
	6	—		8	9.5				
	7	—		8	10				
	25	—		8	11				
	99	—		8	12				

NOTES:

# LOG OF BORING NO. MW12-20

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/3/1998  
**DATE COMPLETED:** 10/3/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.4  
**DEPTH TO WATER:** 5  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123046	15	1.5	0	8.5	0		Light brown to light gray, fine SAND, little Silt, little Clay, little fine to medium Gravel, dry	GC	FL
	17			9	1		No Recovery		
	9				1.5		No Recovery		
	7	18	0	9	2		Light brown to dark gray, fine SAND, little Clay, little Silt, little fine to coarse Gravel, damp	GC	
	7			7	3				
	8				3.8		No Recovery		
123047	13	18	0	8	4		Light brown to olive gray, fine SAND, some Clay, little Silt, trace fine to coarse Gravel, Organics, damp	GC	TL
	9			9	5.0		Weathered SHALE	WSH	
	10				5.5		No Recovery		
123048	6	15	0	9	6		Olive gray, fine SAND, some Clay, little fine to coarse Gravel (Shale), wet	GC	
	10			8	7		Weathered SHALE, wet	WSH	WSH
	9				7.5		No Recovery		
	11				8				
	19				9				
					10				
					11				
					12				
					13				
					14				
					14.4		Auger refusal at 14.4'		
					15				
					16				
					17				
					18				
					19				
					20				

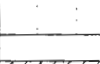


NOTES:

# LOG OF BORING NO. MW12-21

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/3/1998  
**DATE COMPLETED:** 10/3/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 11  
**DEPTH TO WATER:** 7  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123044	4	15	0	8	0		Light brown to light gray, fine SAND, little Silt, little fine to medium Gravel, trace Clay, Organics (Roots), dry	SM	FL
	5			8	1				
	8				1.5		No Recovery		
	16	15	0	8.5	2		Light brown to olive gray, fine SAND, little Silt, little fine to medium Gravel, trace coarse Gravel, trace Cobble (Shale), dry	GC	
	11			9	3				
	13				3.3		Fractured SHALE	GW	TL
	12				3.5		No Recovery		
	10	18	0	9	4		Light brown to olive gray, fine SAND, little fine to coarse Gravel, trace Cobble, wet	GC	
	12			7	5				
	21				5.8		No Recovery		
	34	15	0	8	6		Dark brown to olive gray SILT, some fine to coarse Sand, little fine to coarse Gravel, trace Cobble, wet	GM	
	20			9	7				
	22				7.5		No Recovery		
	27				8		No Recovery		
	34	0.5			8.0		Weathered SHALE	WSH	WSH
	100/3				8.5		No Recovery		
					10				
					11		Auger Refusal at 11'		
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-21**

# LOG OF BORING NO. MW12-22

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/4/1998  
**DATE COMPLETED:** 10/4/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 12.6  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123068		1.8	0	10	0				
				9.5	1		Light brown and light gray, fine SAND, little Silt, little Clay, little fine to medium Gravel, dry	SC	FL
123069		1.5	0	9	2		No Recovery	GC	TL
				11	3		Light brown to olive gray, fine SAND, some fine to medium Gravel, little Clay, dry		
					4		No Recovery		
		1.3	0		4		Weathered SHALE	WSH	WSH
					5				
					5.3		No Recovery		
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					12.6		Auger Refusal at 12.6'		
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

# LOG OF BORING NO. MW12-23

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/5/1998  
**DATE COMPLETED:** 10/5/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13.2  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123079		18	0	11	0	Light gray to light brown, fine SAND, little Silt, little Clay, little Organics, trace medium Gravel, dry		SC	FL
123080		2	0	9	2	No Recovery		GC	TL
		15	0	10	3	Light gray, fine SAND, little Silt, little Clay, little fine to coarse Gravel			
				11	4	Weathered SHALE		WSH	WSH
					5	Weathered SHALE		WSH	
					6	No Recovery			
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					13.2	Auger Refusal at 13.2'			
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:



**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-23**

# LOG OF BORING NO. MW12-24

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/19/1998  
**DATE COMPLETED:** 10/19/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10  
**DEPTH TO WATER:** 7  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.  DESCRIPTION	USCS Class	Stratum Class
123T61		1.8	0	12	0		Light brown to olive gray, fine SAND, little Silt, little coarse Sand, trace fine to medium Gravel, moist	SM	FL
123162		1.5	0	13	2		No Recovery	SM	
				11	3		Light brown to yellowish-orange, fine SAND, some Silt, little Clay, trace medium Gravel, moist		
		2	0	13	4		No Recovery		TL
				11.5	5	X	Olive gray, fine SAND, little Silt, little fine to coarse Gravel, trace Cobble, moist	GC	
123163		2	0	15	6	X	Olive gray, fine SAND and CLAY, some fine to coarse Gravel, little Silt, trace Cobble (Shale), wet	GC	
		2		13.5	7	X			
				12.5	8	X	Weathered SHALE	WSH	WSH
					9	X			
					10	X	Auger Refusal at 10'		
					11	X			
					12	X			
					13	X			
					14	X			
					15	X			
					16	X			
					17	X			
					18	X			
					19	X			
					20	X			

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**LOG OF BORING MW12-24**



# LOG OF BORING NO. MW12-25

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/18/1998  
**DATE COMPLETED:** 10/18/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.3  
**DEPTH TO WATER:** 9.6  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123164	3	2	6	16	0		Dark brown to light gray, fine SAND, little Silt, little fine to coarse Gravel, moist	GM	FL
	8		0	16	1				
	14		0	17	1				
123165	21	2	0	16	2	20	Light gray, fine to coarse SAND, little Silt, little fine to coarse Gravel, trace Cobble, moist	GC	TL
	25			17	3				
	32			18	3				
	24			16	4	40	Olive gray, fine SAND, some coarse Gravel, little coarse Sand, trace Cobble, moist	GC	
	27	15		17	5	50			
	17			18	5	55	Weathered SHALE	WSH	WSH
	22			15	6	60	No Recovery	WSH	
123166	31	1.2	0	18	6		Weathered SHALE		
	51			18	7		No Recovery		
	18			18	7				
	15				7.2				
	75/2				8				
					9				
					10				
					10.3		Auger Refusal at 10.3'		
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

# LOG OF BORING NO. MW12-26

**PROJECT: SEDA**  
**PROJECT LOCATION: Seneca Army Depot, Romulus, New York**  
**ASSOCIATED AREA/UNIT: SEAD 12**  
**PROJECT NO.: 730047**  
**DATE STARTED: 10/18/1998**  
**DATE COMPLETED 10/18/1998**  
**DRILLING CONTRACTOR: Maxim**  
**DRILLING METHOD: HSA 8"**  
**SAMPLING METHOD: Split Spoon**

**TOTAL DEPTH: 10.1**  
**DEPTH TO WATER: 7.5**  
**BORING LOCATION:**

**COORDINATE SYSTEM: NAD83**  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM: NAVD1927**  
**INSPECTOR: ITR**  
**CHECKED BY: DRG**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
							DESCRIPTION		
123167	3	1.5	0	14	0	0.1	Dark brown to light gray, fine SAND, little Silt, little fine to medium Gravel, moist	GC	FL
	6			14	1	1	Light gray to dark gray, fine SAND, little fine to coarse Gravel, little Silt, trace Clay, moist	GC	TL
123168	7	1.8	0	10	2	2.0	No Recovery	GC	TL
	10			13	3	3	Olive gray, fine SAND, little Silt, little fine to coarse Gravel, little Organics (Roots, Wood), piece of Clay or Brick at 3'		
	9			14	4	3.8	No Recovery	GC	
	9	1.5	0	15	4	4.0	Olive gray, fine SAND, some Clay, little fine to medium Gravel, trace Organics (Wood)	GC	
	6			18	5	5.0	SHALE Fragments	GW	
123169	10	2	0	12	6	6.0	No Recovery	GC	
	12			15	7	7	Olive gray to dark brown, fine SAND, little Silt, little fine to coarse Gravel, trace Organics (Wood), wet	GC	
	8			13	7.5	7.5	Olive gray, fine SAND, some fine to coarse Gravel, little Silt, wet	GC	
	11				8	8.0	No Recovery		WSH
	30				9				
	30/2				10		Auger Refusal at 10.1'		
					10.1				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:



**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
**Seneca Army Depot**  
**Romulus, New York**

**LOG OF BORING MW12-26**



# LOG OF BORING NO. MW12-27

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/4/1998  
**DATE COMPLETED:** 10/4/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6')	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123061	2	15	0	11	0		Light brown to light gray, fine SAND, little Silt, little Clay, little Organics (Roots), dry	SC	FL
	5				1				
	7				1.5		No Recovery		
123062	13	15	0	11	2		Light gray, fine SAND, little Silt, little Clay, dry	SC	
	16			11	3				
	16				3.0				
	37				3.5		Light gray, fine SAND, little Silt, little Clay, little fine to coarse Gravel (Shale), dry, reddish staining on Gravel	GC	TL
123063	19	13	0	12	4		No Recovery	SC	
	18			12	4.8		Light gray, fine SAND, some Silt, little Clay, damp	WSH	WSH
	44				5.3		Weathered SHALE, little Silt, damp		
	12				6		No Recovery		
	100/3				7				
	100/4				8				
					9				
					10		Auger Refusal at 10'		
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:



**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
**Seneca Army Depot**  
**Romulus, New York**

**LOG OF BORING MW12-27**



# LOG OF BORING NO. MW12-30

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/16/1998  
**DATE COMPLETED:** 10/16/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	
							USCS Class	Stratum Class
DESCRIPTION								
123736	2 6 13	1.8	0	12.5 11 10.5	0 1	Light brown to dark brown, fine SAND, some Silt, little Clay, trace fine Gravel, Organics (Roots), moist	SM	FL
123137	18 7 7 15 17 40 100/4	1.5	0	10.5 11 10.5	2 3 4 5	No Recovery Light brown to olive gray, fine SAND, some Silt, little Clay, little fine to medium Gravel, moist Weathered SHALE No Recovery Weathered SHALE No Recovery	SM	TL
		0.9			4.9		WSH	WSH
					14.1	Auger Refusal at 14.1'		

NOTES:

# LOG OF BORING NO. MW12-31

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/26/1998  
**DATE COMPLETED:** 10/26/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.2  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123172	2	1.5	0	10	0		Dark brown to light gray, fine SAND, little Silt, little fine to medium Gravel, little Organics, moist	SM	FL
	5				1				
123174	20	2	0	10	1.5		No Recovery	SM	TL
	29				2				
	15				2.0				
	26				3				
	70			3.5	4	4.0	Weathered SHALE	WSH	WSH
					5		No Recovery		
					6				
					7				
					8				
					9				
					10	10.2	Auger refusal at 10.2'		
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

# LOG OF BORING NO. MW12-32

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/26/1998  
**DATE COMPLETED:** 10/26/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.5  
**DEPTH TO WATER:** 9.3  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123175	2 5 10	2	0	12 12.5 14	0 1	Hatched pattern	Olive gray to dark brown, fine SAND and CLAY, little fine to coarse Gravel, trace Cobble, damp	SC	FL
123176	15 86/5	1	0	11 13 13	2 3 3		Olive gray SILT and CLAY, little fine to medium Gravel (Shale), damp No Recovery	ML	TL
					4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				WSH
					10.5		Auger Refusal at 10.5'		

NOTES:

# LOG OF BORING NO. MW12-33

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/31/1998  
**DATE COMPLETED:** 10/31/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14  
**DEPTH TO WATER:** 11.5  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123195	9	1.2	0	11	0	0.4	CONCRETE		FL
	11				1	1.2	Dark brown to light gray, fine SAND, little Clay, little fine to coarse Sand, moist	SC	
	11				2	2.0	No Recovery		
	13	1	0	13	3	3.0	Dark brown to light gray, fine SAND, little Clay, little fine to coarse Gravel, trace Cobble, moist	SC	
	9				4	4.0	No Recovery		
	10				5	5.0	Olive gray to dark brown, fine SAND, little Clay, little fine to medium Gravel, trace coarse Gravel, trace Cobble, moist	SC	
	18				6	6.0	No Recovery		
	21	2	0	10	7	7.0	Olive gray to dark brown, fine SAND, some Clay, little fine to coarse Gravel, trace Cobble, moist	SC	TL
	12				8	8.0	No Recovery		
	12				9	9.0			
	19				10	10.0	Olive gray, fine SAND and CLAY, some fine to medium Gravel, little Silt, moist	CL	
	21				11	11.0			
123196	27	2	0	9	12	12.0	Weathered SHALE, wet	WSH	WSH
	6				13	13.0			
	10				14	14.0	Auger Refusal at 14'		
	13				15				
	29				16				
	17				17				
	39				18				
123197	65	2	0	10	19				
	64				20				
	13								
	17								
	21	2							
	27								
	14								
	17								
	21								
	29								

NOTES:

# LOG OF BORING NO. MW12-34

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/31/1998  
**DATE COMPLETED:** 10/31/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123T98	4	15	0	13	0		Dark brown, fine SAND, little Silt, Topsoil, moist	SM	FL
	11				0.4		CONCRETE		
	32				1		ASPHALT		
	74				1.5		No Recovery		
	5	1	0	14	2		Dark brown, fine SAND, little Silt, Topsoil, moist	SM	
	3			14	3		No Recovery		
	6				3		No Recovery		
123T99	8	2	0	11	4		Dark brown to light gray, fine SAND, little Silt, little Cobble, little fine to medium Gravel, moist, crushed asphalt in first 2"	SM	
	9			12	5				
	10			11	5				
	20				6				
	21	1	0	11	6		Dark brown, fine SAND, little Silt, little fine to medium Gravel, moist	SM	
	11			12	7				
	19				7		No Recovery		TL
	100/4	18	0	12	8		Dark brown, fine SAND, little Clay, little fine to medium Gravel, little Silt, moist	SC	
	19			12	9				
	30			13	9				
	15				9.8				
	28	18	0	13	10		No Recovery		
	40			11	10		Dark brown, fine SAND and CLAY, some fine to medium Gravel (Shale), moist	SC	
	75				11				
					11.5		Weathered SHALE	WSH	WSH
					11.8		No Recovery		
					13				
					14		Auger Refusal at 14.1		
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				

NOTES:



**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
 Seneca Army Depot  
 Romulus, New York

**LOG OF BORING MW12-34**

# LOG OF BORING NO. MW12-35

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/29/1998  
**DATE COMPLETED:** 10/29/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 17.5  
**DEPTH TO WATER:** 10.5  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
123186	8	1.8	0	12	0		Dark gray to gray, fine SAND, some fine to coarse Gravel, little Silt, damp	GM	FL
	16			13	1				
	17			14	1				
	25	1.5	0	9	2	1.8	No Recovery		
	14			11	3	2.0	Dark brown to gray fine SAND, some fine to medium Gravel, little Clay, damp	GC	
	15			10	3				
	14			11	3	3.5	No Recovery		
	18	2	0	11	4	4.0	Olive gray, fine SAND and CLAY, some fine to medium Gravel, trace Cobble, moist	CL	
	6			10	5				
	5			11	5				
	11				6	6.0	No Recovery		
					7				
	2	1.5	0	13	8	8.0	Olive gray, fine SAND and CLAY, some fine to medium Gravel, wet	CL	
	3			12	9				
	2			14	9				
	3			13	10	9.5	No Recovery		
123187	3	1.5	0	13	10	10.0	Olive gray, fine SAND and CLAY, some fine to medium Gravel, wet	CL	
	3			13	10				
	2			12.5	11	11.5	No Recovery		
	2	1.5	0	11	12	12.0	Olive gray to dark brown, fine SAND and CLAY, little fine to coarse Gravel, moist	CL	
	3			11	13				
	4			11	13				
	28			10	13	13.3	Medium to coarse SAND, wet	SC	
	28	1.5	0	13	14	13.5	No Recovery	SC	
123188	38			11	15	14.0	Medium to coarse SAND, saturated		
	51			11	15	15.0	Weathered SHALE	WSH	WSH
					16	15.5	No Recovery		
					17				
					18	17.5	Auger Refusal at 17.5'		
					19				
					20				

NOTES:

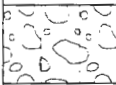


# LOG OF BORING NO. MW12-37

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/1/1998  
**DATE COMPLETED:** 11/1/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.5  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	<p style="text-align: center; font-size: small;">This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.</p>	USCS Class	Stratum Class
							DESCRIPTION		
123201	3	18	0	12	0		Light brown to dark brown, fine SAND and SILT, little fine Gravel	SM	FL
	9			11	0.6		Olive gray, fine SAND, some fine to coarse Gravel, little Silt, moist	SM	
	16			13	1				
123203	25	15	0	11	2		No Recovery	GM	
	14			12	2.0		Olive gray to light gray, fine SAND, some fine to coarse Gravel, little Silt, trace Cobble, dry		
	20			10	3				
	26			10	3.5				
	27	15	0	11	4		No Recovery		WSH
	14			12	4.0		Weathered SHALE	WSH	
	13			10	5				
	21			10	5.5		No Recovery		
	27	1		10	6		Weathered SHALE	WSH	
	17			10	7				
	81			10	7.0		No Recovery		
				10	8				
				10	9				
				10	10				
				10	10.5				
				10	11				
				10	12				
				10	13				
				10	14				
				10	15				
				10	16				
				10	17				
				10	18				
				10	19				
				10	20				

NOTES:

# LOG OF BORING NO. MW12-38

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/1/1998  
**DATE COMPLETED:** 11/1/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10  
**DEPTH TO WATER:** 3  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		USCS Class	Stratum Class
							DESCRIPTION			
					0		ASPHALT/CONCRETE, auger to 1'			FL
123204	24 26 24	0.4	0	7	1 1.0 1.4		Brown, fine SAND, some fine to medium Gravel, moist No Recovery	GM		TL
123205	16 27 100/5	1	0	9 10	3.0 3.8 4.0		Olive gray, fine SAND, some Silt, little fine to medium Gravel, trace Cobble, moist Weathered SHALE No Recovery	GM	WSH	WSH
					10.0		Auger Refusal at 10'			

NOTES:

# LOG OF BORING NO. MW12-39

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/1/1998  
**DATE COMPLETED:** 11/1/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.8  
**DEPTH TO WATER:** 1.5  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
					0		ASPHALT		FL
					0.5		CONCRETE		
					1		GRAVEL		
		09	0	8	1.5		Light brown, fine SAND and SILT. some fine to coarse Gravel, wet	GM	TL
					2.4		No Recovery		WSH
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					10.8		Auger Refusal at 10.8'		
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

# LOG OF BORING NO. MW12-40

**PROJECT:**  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/14/1998  
**DATE COMPLETED:** 10/14/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 11  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
							USCS Class	Stratum Class	
DESCRIPTION									
123T21	3 5 14	2	0	9.5 10 10.5	0 1		Olive gray, fine SAND, some Organics, little Clay, little Silt, little fine to coarse Gravel, damp	GC	FL
123T22	29 13 23	1.5	0	10 9	2 3		Olive gray to light gray, fine SAND, little Silt, little Clay, little fine to coarse Gravel, trace Cobble, dry	GC	TL
	26				3.5		No Recovery		
123T23	30 26 30 36 35 100/3	2	0	12 11 9.5	4 5 6		Light gray to dark gray, fine SAND, some coarse Sand, little Clay, little fine to coarse Gravel, dry	GC	
					6		No Recovery		W
					7 8 9 10 11				
					11		Auger Refusal at 11'		
					12 13 14 15 16 17 18 19 20				

NOTES:

# LOG OF BORING NO. SB12-2

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/14/1998  
**DATE COMPLETED:** 10/14/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14  
**DEPTH TO WATER:** 11.8  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123112	5	0.2	0	11	0		Dark brown, fine SAND, some Silt, little Clay, some metal debris stuck in Split Spoon, wet No Recovery	SM	FL
	9				1				
	8								
	10	1.5	0	11	2		Light brown to olive gray, fine SAND, some Clay, little fine to medium Gravel, little Silt, damp	GC	
	8				2.0				
	14			11	3				
	19						No Recovery		
	20	1.8	0	9	4		Light brown to light gray, fine SAND, some Clay, little fine to coarse Gravel, little Silt, wet	GC	
	12				4.0				
	16			10	5				
18			9	5.8					
123113	21	1.9	0	10	6		No Recovery	GC	
	8			9	7		Light brown to olive gray, fine SAND, some Clay, some fine to coarse Gravel, little Silt, trace Cobble, wet	GC	
	10			9	7				
	11	2	0	11	8		No Recovery	GC	
	14			11.5	9		Light brown to olive/dark gray, fine SAND, some Clay, little Silt, little fine to coarse Gravel, trace Cobble, wet	GC	
9				9					
123114	10			12.5					
	14	2	0	10	10		Light brown to olive gray, fine SAND, some Clay, little fine to coarse Gravel, trace Cobble, trace Iron Oxide Zones, wet to saturated	GC	
	14			11	11				
	10			11.5	11				
	15								
	23				12		No Recovery		WSH
	52				13				
	12								
18				14	14.0	Auger Refusal at 14'			
21									
22									

NOTES:

# LOG OF BORING NO. SB12-3

**PROJECT: SEDA**  
**PROJECT LOCATION: Seneca Army Depot, Romulus, New York**  
**ASSOCIATED AREA/UNIT: SEAD 12**  
**PROJECT NO.: 730047**  
**DATE STARTED: 11/8/1997**  
**DATE COMPLETED 11/8/1997**  
**DRILLING CONTRACTOR: Maxim**  
**DRILLING METHOD: HSA 8"**  
**SAMPLING METHOD: Split Spoon**

**TOTAL DEPTH: 11.9**  
**DEPTH TO WATER: 7.8**  
**BORING LOCATION:**

**COORDINATE SYSTEM: NAD83**  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM: NAVD1927**  
**INSPECTOR: EAF**  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
					0		This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.		
					0.4		Brown CLAY, little fine to coarse Sand, Cultural debris, dry No Recovery	CL	FL
					2.0		Brown CLAY, little fine to coarse Sand, Cultural debris, dry No Recovery	CL	
					2.9		No Recovery		
					4.0		No Recovery		
					5.0				
					6.0				
					7.0				
					8.0				
					8.1		Brown CLAY, little fine to coarse Sand, Cultural debris, oily sheen on water No Recovery	CL	
					10.0		Black weathered SHALE	WSH	WSH
					11.8		No Recovery		
					11.9		Auger Refusal at 11.9'		

NOTES:

LOG OF BORING SB12-



PARSONS ENGINEERING SCIENCE, INC.

**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
**Seneca Army Depot**  
**Romulus, New York**

# LOG OF BORING NO. SB12-4

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/8/1997  
**DATE COMPLETED:** 11/8/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 11.9  
**DEPTH TO WATER:** 6  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** EAF  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	DESCRIPTION	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.									
							DESCRIPTION		
	2	12	0	700	0		Brown SILT, little fine to coarse Sand, little Clay, trace fine to coarse Gravel, moist	MLS	FL
	3				1		No Recovery		
	5				12				
	4	14	0	700	2		Brown SILT, little fine to coarse Sand, little Clay, trace fine to coarse Gravel, moist	MLS	
	5				3		No Recovery		
	4				34				
	4	18	0	800	4		Brown SILT, little fine to coarse Sand, little Clay, trace fine to coarse Gravel, moist	MLS	
	2				5		No Recovery		
	3				50		Brown CLAY, some Silt, little fine to coarse Gravel, trace Shale cobble, moist to wet	CLG	TL
	13	18	0	800	58		No Recovery	CLG	
	12				60				
	16				7		Brown CLAY, some Silt, little fine to coarse Gravel, trace Shale cobble, wet	SM	
	21				75		No Recovery	CLS	
	22	18	0	800	78		Brown, fine to medium SAND, some Silt, wet		
	21				80		No Recovery		
	7				9		Brown CLAY, some Silt, little fine to coarse Sand, little fine to coarse gravel, trace Shale cobble, moist		
	11				98		No Recovery	CLS	
	14	19	0	800	100		Brown CLAY, some Silt, little fine to coarse Sand, little fine to coarse Gravel, trace Shale cobble, moist	WSH	WSH
	17				110		No Recovery		
	11				119		Weathered SHALE		
	33						Auger Refusal at 11.9'		
	21								
	100/4								

NOTES:

# LOG OF BORING NO. SB12-5A&B

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/13/1998  
**DATE COMPLETED:**  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 15.4  
**DEPTH TO WATER:** 13  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
123096	5	1.7	0	10	0		Light brown to light gray, fine SAND, little fine to medium Gravel, little Silt, trace Clay, dry	GC	FL
	10			10	1				
	20			9					
	22				1.7		No Recovery Auger down to 3'		TL
				2.0	2				
	18	1.8	0	10	3	3.0	Light brown to light gray, fine SAND, little Clay, little Silt, little fine to coarse Gravel, trace Cobble, dry	GC	
	20			11	4				
	22			11					
					5	4.8	No Recovery Auger down to 6'		
					5	5.0			
123097	23	2	0	9	6	6.0		GC	
	23			9.5	7				
	26				11				
	28					8	8.0	Auger down to 9'	
	14	2	0	9.5	9	9.0		GC	
	19			9	10				
	21			9					
	25				11	11.0	Auger down to 12'		
123098	8	2	0	9.5	12	12.0		GM	
	14			11	13				
	15								
	21					14	14.0	No Recovery	
	100/4				15	15.4	Auger Refusal at 15.4'		

NOTES:



# LOG OF BORING NO. SB12-6

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 11/8/1997  
**DATE COMPLETED:** 11/8/1997  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.3  
**DEPTH TO WATER:** 6  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVS1927  
**INSPECTOR:** EAF  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	USCS Class	Stratum Class
This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.								
DESCRIPTION								
3	16	0	6	0	0	Brown SILT, little fine to coarse Sand, little fine to coarse Gravel, trace Clay, moist	ML	FL
8					1			TL
8					1.6			
9	17	0	65		2	No Recovery		
4					2.0	Brown SILT, little fine to coarse Sand, little fine to coarse Gravel, trace Clay, moist	ML	
8					3			
14					3.7			
8	14	0	50		4	No Recovery		
3					4.0	Brown SILT, little fine to coarse Sand, little fine to coarse Gravel, trace Clay, moist	ML	
3					5			
4					5.4			
3	16	0	70		6	No Recovery		
3					6.0	Brown CLAY, some Silt, little fine to coarse Sand, little fine to coarse Gravel, wet	CL	
4					7			
4					7.6			
5	2	0	7		8	No Recovery		
12					8.0	Brown CLAY, some Silt, little fine to coarse Sand, little fine to coarse Gravel, wet	CL	
21					9			
25	2	0	8		10			
26					11			
15					11			
28					12			
30	2	0	70		12			
26					13			
10					13			
20					13.5			
28	0.3	0			14	Gray CLAY, little fine to coarse Sand, little fine to coarse Gravel, wet	CL	
32					14.0			
100/3					14.3	Weathered SHALE	WSH	WSH

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

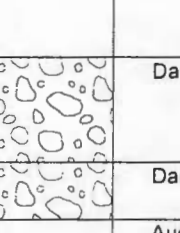
**LOG OF BORING SB12-6**



# LOG OF BORING NO. SB12-7

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/30/1998  
**DATE COMPLETED:** 10/30/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 5.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class	
							DESCRIPTION			
					0		Auger down to 2'		FL	
	24	2	0	11	2.0		Dark gray, fine SAND and fine to coarse GRAVEL, dry	GPS	TL	
	30			11	3					
	41			12	4.0			Dark gray, fine SAND and fine to coarse GRAVEL, dry	GPS	
	47			11	5.1		Auger refusal at 5.1'			
	46	1.1	0	15						
	50			15						
	50/1			15						
					6					
					7					
					8					
					9					
					10					
					11					
					12					
					13					
					14					
					15					
					16					
					17					
					18					
					19					
					20					

NOTES:

# LOG OF BORING NO. SB12-8

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/30/1998  
**DATE COMPLETED:** 10/30/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 6  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
					0		Auger down to 2'		FL
	15	2	0	11	20				
	15			11	3		Dark brown, fine SAND, little Silt, little fine to coarse Gravel, shards of metallic substance, dry	SM	
	16			12					
	28								
123193	15	2	0	11	40		Dark brown to light gray, fine SAND, little Silt, little fine to corase Gravel, shards of metallic substance, dry	SM	
	17			15	5				
	22			15					
	15				60		End of boring at 6'		
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

# LOG OF BORING NO. SB12-9

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/29/1998  
**DATE COMPLETED:** 10/29/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 6  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	<p style="text-align: center; font-size: small;">This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.</p>	USCS Class	Stratum Class	
							DESCRIPTION			
	2	2	0	13	0		Dark brown, fine SAND, little Silt, little fine to medium Gravel, moist	SM	FL	
	6			10	1					
	8			10						
	12	2	0	10	2		Light gray, fine SAND, some fine to medium Gravel, little Silt, dry	GM	TL	
	16			9	3					
	27			11						
123189	43	2	0	10	4			Light gray, fine SAND, some fine to medium Gravel, little Silt, dry	GM	
	44			9	5					
	40			9						
	51				6		End of boring at 6'			
	53									
					7					
					8					
					9					
					10					
					11					
					12					
					13					
					14					
					15					
					16					
					17					
					18					
					19					
					20					

NOTES:

# LOG OF BORING NO. SB12-28

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/4/1998  
**DATE COMPLETED:** 10/4/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 4  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	<p style="text-align: center; font-size: small;">This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.</p>	USCS Class	Stratum Class
							DESCRIPTION		
123064		1.5	0	10 11	0		0		
					1		15	1	GC
						2		No Recovery	WSH
						3			
						4		4.0	
						5		Auger Refusal at 4'	
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
					20				

NOTES:

# LOG OF BORING NO. SB12-36

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**DATE STARTED:** 10/14/1998  
**DATE COMPLETED:** 10/14/1998  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 3.3  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:** DRG

Sample Number	Blow Counts (# Blows per 6")	Sample Recovery	VOC Screen-PID (ppm)	Rad Screen (cps)	Depth (ft)	Soil Description Macro	This log is part of a report prepared by Parsons Engineering-Science, Inc. for the named company and should be read together with the report for complete interpretation. This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations.	USCS Class	Stratum Class
							DESCRIPTION		
1234-15	17				0		ASPHALT, Auger down to 1'		FL
	49				1		No Recovery		TL
	100				2				WSH
	75/3				3				
					3.3		Auger Refusal at 3.3'		
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

NOTES:

**MONITORING WELL INSTALLATION LOGS**





# TEMPORARY WELL COMPLETION REPORT: MW12-3

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 11/6/97  
**WELL INSTALLATION COMPLETED:** 11/6/97  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 18  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** EAF  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS
			-2.5	TR	
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8
1	[Diagonal lines]				<b>SEAL</b> Type: BENTONITE Length (ft): 1
2	[Diagonal lines]				<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 12 Slot Size (in): 10
3	[Diagonal lines]		3	TBS	<b>SANDPACK</b> Type: #0, #00 Length (ft): 14
4	[Diagonal lines]		4	TSP	
5	[Diagonal lines]				
6	[Diagonal lines]		5.6	TSC	
7	[Diagonal lines]				
8	[Diagonal lines]				
9	[Diagonal lines]				
10	[Diagonal lines]				
11	[Diagonal lines]				
12	[Diagonal lines]				
13	[Diagonal lines]				
14	[Diagonal lines]				
15	[Diagonal lines]				
16	[Diagonal lines]				
17	[Diagonal lines]				
18	[Diagonal lines]		17.6	BSC	
18			18	POW	
19				BOD	

### WELL DEVELOPMENT DATA

Date:  
 Method:  
 Duration:  
 Rate:  
 Total Volume  
 Removed (gals):

### WATER LEVELS

	<u>Date</u>	<u>Time</u>	<u>Depth, TR</u>	
Development				▽
Installation				▼

### LEGEND

TR TOP OF WELL RISER GS GROUND SURFACE TBS TOP BENTONITE SEAL TSP TOP OF SANDPACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN POW POINT OF WELL BOD BOTTOM OF DRILL HOLE in INCHES ft FEET ID INSIDE DIAMETER gals GALLONS SCH SCHEDULE NA NOT APPLICABLE	<b>WELL DETAILS</b> [Black box] SEAL [White box] SANDPACK	<b>LITHOLOGY</b> [Cross-hatch] FILL [Diagonal lines] TILL [Horizontal lines] SHALE
---	---	---

NOTES:

# OVERBURDEN MONITORING WELL COMPLETION REPORT & INSTALLATION DETAIL PROTECTIVE RISER COMPLETION

<b>1</b> Parsons ES Inc.	CLIENT: <u>Seneca Army Depot</u>	WELL #: <u>MW12-4</u>
PROJECT: <u>Sead-12 RI/FS</u>	PROJECT NO: <u>730047-01001</u>	INSPECTOR: <u>EAF</u>
LOCATION: <u>Background, North end</u>	CHECKED BY: _____	

DRILLING CONTRACTOR: <u>Maxim Tech</u>	POW DEPTH: <u>12.4 (BGS)</u>
DRILLER: <u>Sohn Warner</u>	INSTALLATION STARTED: <u>11/5/97</u>
DRILLING COMPLETED: <u>11/4/97</u>	INSTALLATION COMPLETED: <u>11/5/97</u>
BORING DEPTH: <u>12.4 (BGS)</u>	SURFACE COMPLETION DATE: <u>11/7/99</u>
DRILLING METHOD(S): <u>4Y4 HSA</u>	COMPLETION CONTRACTOR/CREW: <u>Maxim Tech</u>
BORING DIAMETER(S): <u>8"</u>	BEDROCK CONFIRMED (Y/N?): <u>Y</u>
ASSOCIATED SWMU/AOC: <u>Sead-12</u>	ESTIMATED GROUND ELEVATION: _____

PROTECTIVE SURFACE CASING:

DIAMETER: 4"      LENGTH: 5'

RISER:

TR: -2.5      TYPE: Sch 40 pu      DIAMETER: 2"      LENGTH: 4.8' <sup>6.25</sup> ~~7.27~~

SCREEN:

TSC: 4.77      TYPE: Sch 40 PVC      DIAMETER: 2"      LENGTH: 7.21'      SLOT SIZE: 0.010"

POINT OF WELL: (SILT SUMP)

TYPE: Sump      BSC: 11.98      POW: 12.2

GROUT:

None      TG: \_\_\_\_\_      TYPE: \_\_\_\_\_      LENGTH: \_\_\_\_\_

SEAL:

TBS: 2.4'      TYPE: Bentonite chip      LENGTH: 1'

SAND PACK:

TSP: 3.4' / 3.9'      TYPE: none #10 / none #0      LENGTH: 0.5' / 8.3'

SURFACE COLLAR:

TYPE: Concrete      RADIUS: 2'      THICKNESS CENTER: 1'      THICKNESS EDGE: 4"

CENTRALIZER DEPTHS

None

DEPTH 1: \_\_\_\_\_      DEPTH 2: \_\_\_\_\_      DEPTH 3: \_\_\_\_\_      DEPTH 4: \_\_\_\_\_

COMMENTS:

\* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

PAGE 1 OF 2

# TEMPORARY WELL COMPLETION REPORT: MW12-7

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/28/98  
**WELL INSTALLATION COMPLETED:** 10/28/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13.6  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.55	TR																
0	[Cross-hatch]	[Well Riser]	0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.55															
1	[Cross-hatch]	[Well Riser]			<b>SEAL</b> Type: BENTONITE Length (ft): 2															
2	[Diagonal lines]	[Well Riser]	2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 6 Slot Size (in): 10															
3	[Diagonal lines]	[Well Riser]			<b>SANDPACK</b> Type: #0, #00 Length (ft): 9.8															
4	[Diagonal lines]	[Well Riser]	4	TSP																
5	[Diagonal lines]	[Well Riser]																		
6	[Diagonal lines]	[Well Riser]	6	TSC																
7	[Diagonal lines]	[Well Riser]																		
8	[Diagonal lines]	[Well Riser]																		
9	[Diagonal lines]	[Well Riser]																		
10	[Diagonal lines]	[Well Riser]																		
11	[Diagonal lines]	[Well Riser]																		
12	[Diagonal lines]	[Well Riser]	12	BSC																
13	[Diagonal lines]	[Well Riser]																		
14	[Diagonal lines]	[Well Riser]	13.6	POW																
14	[Diagonal lines]	[Well Riser]	13.8	BOD																
15	[Diagonal lines]	[Well Riser]																		
16	[Diagonal lines]	[Well Riser]																		
17	[Diagonal lines]	[Well Riser]																		
18	[Diagonal lines]	[Well Riser]																		
19	[Diagonal lines]	[Well Riser]																		
<b>WELL DEVELOPMENT DATA</b>																				
Date: Method: Duration: Rate: Total Volume Removed (gals):																				
<b>WATER LEVELS</b>																				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 15%; text-align: center;"><u>Date</u></th> <th style="width: 15%; text-align: center;"><u>Time</u></th> <th style="width: 15%; text-align: center;"><u>Depth, TR</u></th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Development</td> <td></td> <td></td> <td style="text-align: center;">▽</td> <td></td> </tr> <tr> <td style="text-align: center;">Installation</td> <td></td> <td></td> <td style="text-align: center;">▼</td> <td></td> </tr> </tbody> </table>							<u>Date</u>	<u>Time</u>	<u>Depth, TR</u>		Development			▽		Installation			▼	
	<u>Date</u>	<u>Time</u>	<u>Depth, TR</u>																	
Development			▽																	
Installation			▼																	
<b>LEGEND</b>																				
TR TOP OF WELL RISER GS GROUND SURFACE TBS TOP BENTONITE SEAL TSP TOP OF SANDPACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN POW POINT OF WELL BOD BOTTOM OF DRILL HOLE in INCHES ft FEET ID INSIDE DIAMETER gals GALLONS SCH SCHEDULE NA NOT APPLICABLE		<b>WELL DETAILS</b> [Solid black] SEAL [Dotted] SANDPACK		<b>LITHOLOGY</b> [Cross-hatch] FILL [Diagonal lines] TILL [Horizontal lines] SHALE																

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-7**

# TEMPORARY WELL COMPLETION REPORT: MW12-8

Sheet 1 of 1

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/28/98  
**WELL INSTALLATION COMPLETED:** 11/2/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 12  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.6	TR																
0			0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.6  <b>SEAL</b> Type: BENTONITE Length (ft): 1.5															
1																				
2			2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 6.85 Slot Size (in): 10  <b>SANDPACK</b> Type: #0, #00 Length (ft): 9															
3																				
4			3.5	TSP																
5			4.6	TSC																
6																				
7																				
8																				
9																				
10																				
11			11.45	BSC																
12			12	POW																
13			12.5	BOD																
14																				
15																				
16																				
17																				
18																				
19																				
<b>WELL DEVELOPMENT DATA</b>																				
Date: Method: Duration: Rate: Total Volume Removed (gals):																				
<b>WATER LEVELS</b>																				
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	<u>Date</u>	<u>Time</u>	<u>Depth, TR</u>																	
Development				▽																
Installation				▼																
<b>LEGEND</b>																				
TR TOP OF WELL RISER GS GROUND SURFACE TBS TOP BENTONITE SEAL TSP TOP OF SANDPACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN POW POINT OF WELL BOD BOTTOM OF DRILL HOLE in INCHES ft FEET ID INSIDE DIAMETER gals GALLONS SCH SCHEDULE NA NOT APPLICABLE		<b>WELL DETAILS</b> ■ SEAL □ SANDPACK		<b>LITHOLOGY</b> ▨ FILL ▩ TILL □ SHALE																

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-8**

# TEMPORARY WELL COMPLETION REPORT: MW12-9

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/17/98  
**WELL INSTALLATION COMPLETED:** 10/17/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.5	TR																
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.3															
1	[Cross-hatch]				<b>SEAL</b> Type: BENTONITE Length (ft): 2															
2	[Diagonal lines]		2.2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.1 Slot Size (in): 10															
3	[Diagonal lines]				<b>SANDPACK</b> Type: #0, #00 Length (ft): 9.9															
4	[Diagonal lines]		4.2	TSP																
5	[Diagonal lines]																			
6	[Diagonal lines]		6.2	TSC																
7	[Diagonal lines]																			
8	[Diagonal lines]																			
9	[Diagonal lines]																			
10	[Diagonal lines]																			
11	[Diagonal lines]																			
12	[Diagonal lines]																			
13	[Diagonal lines]		13.3	BSC																
14	[Diagonal lines]		14.1	POW, BOD																
15																				
16																				
17																				
18																				
19																				
<b>WELL DEVELOPMENT DATA</b>																				
Date: Method: Duration: Rate: Total Volume Removed (gals):																				
<b>WATER LEVELS</b>																				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%;"><u>Date</u></th> <th style="width: 15%;"><u>Time</u></th> <th style="width: 15%;"><u>Depth, TR</u></th> <th style="width: 25%;"></th> </tr> </thead> <tbody> <tr> <td>Development</td> <td></td> <td></td> <td></td> <td style="text-align: center;">▽</td> </tr> <tr> <td>Installation</td> <td></td> <td></td> <td></td> <td style="text-align: center;">▼</td> </tr> </tbody> </table>							<u>Date</u>	<u>Time</u>	<u>Depth, TR</u>		Development				▽	Installation				▼
	<u>Date</u>	<u>Time</u>	<u>Depth, TR</u>																	
Development				▽																
Installation				▼																
<b>LEGEND</b>																				
TR TOP OF WELL RISER GS GROUND SURFACE TBS TOP BENTONITE SEAL TSP TOP OF SANDPACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN POW POINT OF WELL BOD BOTTOM OF DRILL HOLE in INCHES ft FEET ID INSIDE DIAMETER gals GALLONS SCH SCHEDULE NA NOT APPLICABLE		<b>WELL DETAILS</b> [Solid black] SEAL [Diagonal lines] SANDPACK		<b>LITHOLOGY</b> [Cross-hatch] FILL [Diagonal lines] TILL [Horizontal lines] SHALE																

**NOTES:**

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-9**

# TEMPORARY WELL COMPLETION REPORT: MW12-10

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 9/29/98  
**WELL INSTALLATION COMPLETED:** 9/30/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 17.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS
			-2.5	TR	
0			0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 9  <b>SEAL</b> Type: BENTONITE Length (ft): 2
1					
2					
2.5			2.5	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 10 Slot Size (in): 10  <b>SANDPACK</b> Type: #0, #00 Length (ft): 12.5
3					
4					
4.5			4.5	TSP	
5					
6					
6.5			6.5	TSC	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
16.5			16.5	BSC	
17			17	POW, BOD	
18					
19					

WELL DEVELOPMENT DATA			
Date:			
Method:			
Duration:			
Rate:			
Total Volume Removed (gals):			

WATER LEVELS			
Development	<u>Date</u>	<u>Time</u>	<u>Depth, TR</u> ▽
Installation			▾

LEGEND			
TR TOP OF WELL RISER GS GROUND SURFACE TBS TOP BENTONITE SEAL TSP TOP OF SANDPACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN POW POINT OF WELL BOD BOTTOM OF DRILL HOLE in INCHES ft FEET ID INSIDE DIAMETER gals GALLONS SCH SCHEDULE NA NOT APPLICABLE	<b>WELL DETAILS</b> SEAL SANDPACK	<b>LITHOLOGY</b> FILL TILL SHALE	

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-10**

# TEMPORARY WELL COMPLETION REPORT: MW12-11

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/29/98  
**WELL INSTALLATION COMPLETED:** 10/29/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
0			-2.5	TR	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.9  <b>SEAL</b> Type: BENTONITE Length (ft): 2  <b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 5.5 Slot Size (in): 10  <b>SANDPACK</b> Type: #0, #00 Length (ft): 7															
0			0	GS																
3.6			3.6	TBS																
5.6			5.6	TSP																
7.6			7.6	TSC																
<b>WELL DEVELOPMENT DATA</b>																				
Date: Method: Duration: Rate: Total Volume Removed (gals):																				
<b>WATER LEVELS</b>																				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 15%; text-align: center;">Date</th> <th style="width: 15%; text-align: center;">Time</th> <th style="width: 15%; text-align: center;">Depth, TR</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Development</td> <td></td> <td></td> <td></td> <td style="text-align: center;">▽</td> </tr> <tr> <td style="text-align: center;">Installation</td> <td></td> <td></td> <td></td> <td style="text-align: center;">▼</td> </tr> </tbody> </table>							Date	Time	Depth, TR		Development				▽	Installation				▼
	Date	Time	Depth, TR																	
Development				▽																
Installation				▼																
<b>LEGEND</b>																				
		<b>WELL DETAILS</b> ■ SEAL □ SANDPACK	<b>LITHOLOGY</b> ▨ FILL ▩ TILL ▭ SHALE																	
13			13.1	BSC, POW, BOD																
14																				
15																				
16																				
17																				
18																				
19																				

NOTES:

**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
**Seneca Army Depot**  
**Romulus, New York**

**TEMPORARY WELL**  
**COMPLETION REPORT: MW12-11**

# TEMPORARY WELL COMPLETION REPORT: MW12-12

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/6/98  
**WELL INSTALLATION COMPLETED:** 10/6/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS																																													
			-2.5	TR																																														
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft):																																													
1	[Diagonal lines]				<b>SEAL</b> Type: BENTONITE Length (ft): 2																																													
2	[Stippled]				<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7 Slot Size (in): 10																																													
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-12**



# TEMPORARY WELL COMPLETION REPORT: MW12-13

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/1/98  
**WELL INSTALLATION COMPLETED:** 10/1/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.8	TR																
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 10.3															
1	[Diagonal lines]				<b>SEAL</b> Type: BENTONITE Length (ft): 2															
2	[Stippled]		2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.5 Slot Size (in): 10															
3	[Diagonal lines]				<b>SANDPACK</b> Type: #0, #00 Length (ft): 9															
4	[Diagonal lines]		4	TSP																
5	[Diagonal lines]																			
6	[Diagonal lines]		5.5	TSC																
7	[Diagonal lines]																			
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-13**

# TEMPORARY WELL COMPLETION REPORT: MW12-14

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/15/98  
**WELL INSTALLATION COMPLETED:** 10/21/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.5	TR																
0			0	GS																
1					<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.6															
2			2	TBS	<b>SEAL</b> Type: BENTONITE Length (ft): 2.1															
3					<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 6.8 Slot Size (in): 10															
4			4.1	TSP	<b>SANDPACK</b> Type: #0, #00 Length (ft): 9.9															
5																				
6			6.1	TSC																
7																				
8																				
9																				
10																				
11																				
12																				
13			12.9	BSC																
14			14	POW, BOD																
15																				
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-14**

# OVERBURDEN MONITORING WELL COMPLETION REPORT & INSTALLATION DETAIL PROTECTIVE RISER COMPLETION

1 Parsons ES Inc.		CLIENT: <u>Seneca Army Depot</u>	WELL #: <u>112012-15</u>
PROJECT: <u>Seneca Seal-12 RI/FS</u>	PROJECT NO: <u>730047-01001</u>		INSPECTOR: <u>DRG/ITR</u>
LOCATION: <u>North of disposal pit X C</u>	CHECKED BY: <u>DRG</u>		
DRILLING CONTRACTOR: <u>Maxim Tech.</u>	POW DEPTH: <u>13.1</u>		
DRILLER: <u>Rodney Bush</u>	INSTALLATION STARTED: <u>10/1/98</u>		
DRILLING COMPLETED: <u>10/1/98</u>	INSTALLATION COMPLETED: <u>10/1/98</u>		
BORING DEPTH: <u>13.1 (BGS)</u>	SURFACE COMPLETION DATE: <u>10/5/98</u>		
DRILLING METHOD(S): <u>4 1/4 HSA</u>	COMPLETION CONTRACTOR/CREW: <u>Maxim</u>		
BORING DIAMETER(S): <u>8"</u>	BEDROCK CONFIRMED (Y/N?): <u>Y</u>		
ASSOCIATED SWMU/AOC: <u>SEAD-12</u>	ESTIMATED GROUND ELEVATION: _____		
PROTECTIVE SURFACE CASING:			
DIAMETER: <u>8"</u>		LENGTH: <u>5'</u>	
RISER:			
TR: <u>2.6'</u>	TYPE: <u>PK 3/4" 40</u>	DIAMETER: <u>2"</u>	LENGTH: <u>10'</u>
SCREEN:			
TSC: <u>5.4 (BGS)</u>	TYPE: <u>3/4" 40 PK</u>	DIAMETER: <u>2"</u>	LENGTH: <u>7.2'</u> SLOT SIZE: <u>0.010"</u>
POINT OF WELL: (SILT SUMP)			
TYPE: <u>Sump</u>	BSC: <u>12.6 (BGS)</u>	POW: <u>13.1 (BGS)</u>	
GROUT:			
<u>None</u>	TG: <u>1.9' (BGS) (P26)</u>	TYPE: <u>Bentonite (P26)</u>	LENGTH: <u>3.9' (P26)</u>
	<u>Surface (0.0 BGS)</u>		
SEAL:			
TBS: <u>1.9 BGS</u>	TYPE: <u>Bentonite clay</u>	LENGTH: <u>2'</u>	
SAND PACK:			
TSP: <u>3, 4.4 CRS</u>	TYPE: <u>marie sd</u>	LENGTH: <u>0.7'</u>	
	<u>3.9 fine</u>		<u>0.5'</u>
SURFACE COLLAR:			
TYPE: <u>concrete/Bentonite</u>	RADIUS: <u>2'</u>	THICKNESS CENTER: <u>1'</u>	THICKNESS EDGE: <u>4"</u>
CENTRALIZER DEPTHS <u>None</u>			
DEPTH 1: _____	DEPTH 2: _____	DEPTH 3: _____	DEPTH 4: _____
COMMENTS:			

\* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

PAGE 1 OF 2

# TEMPORARY WELL COMPLETION REPORT: MW12-16

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/17/98  
**WELL INSTALLATION COMPLETED:** 10/17/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.2  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS
			-2.45	TR	
0			0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.85  <b>SEAL</b> Type: BENTONITE Length (ft): 2
1					
2			2.4	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7 Slot Size (in): 10  <b>SANDPACK</b> Type: #0, #00 Length (ft): 9.8
3					
4			4.4	TSP	
5					
6			6.4	TSC	
7					
8					
9					
10					
11					
12					
13			13.4	BSC	
14			14.2	POW, BOD	
15					
16					
17					
18					
19					

WELL DEVELOPMENT DATA				
Date:				
Method:				
Duration:				
Rate:				
Total Volume Removed (gals):				

WATER LEVELS				
Development	<u>Date</u>	<u>Time</u>	<u>Depth, TR</u>	▽
Installation				▼

LEGEND			
TR	TOP OF WELL RISER	WELL DETAILS	LITHOLOGY
GS	GROUND SURFACE	SEAL	FILL
TBS	TOP BENTONITE SEAL	SANDPACK	TILL
TSP	TOP OF SANDPACK		SHALE
TSC	TOP OF SCREEN		
BSC	BOTTOM OF SCREEN		
POW	POINT OF WELL		
BOD	BOTTOM OF DRILL HOLE		
in	INCHES		
ft	FEET		
ID	INSIDE DIAMETER		
gals	GALLONS		
SCH	SCHEDULE		
NA	NOT APPLICABLE		

NOTES:

**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
 Seneca Army Depot  
 Romulus, New York

**TEMPORARY WELL**  
**COMPLETION REPORT: MW12-16**

# TEMPORARY WELL COMPLETION REPORT: MW12-17

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/17/98  
**WELL INSTALLATION COMPLETED:** 10/17/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 18.4  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
0			-2.9	TR	<p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.3</p> <p><b>SEAL</b> Type: BENTONITE Length (ft): 1.8</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 12.2 Slot Size (in): 10</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 14.6</p>															
0			0	GS																
1																				
2			2	TBS																
3																				
4			3.8	TSP																
5																				
6			5.4	TSC																
7																				
8																				
<b>WELL DEVELOPMENT DATA</b>																				
Date: Method: Duration: Rate: Total Volume Removed (gals):																				
<b>WATER LEVELS</b>																				
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<b>LEGEND</b>																				
TR TOP OF WELL RISER GS GROUND SURFACE TBS TOP BENTONITE SEAL TSP TOP OF SANDPACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN POW POINT OF WELL BOD BOTTOM OF DRILL HOLE in INCHES ft FEET ID INSIDE DIAMETER gals GALLONS SCH SCHEDULE NA NOT APPLICABLE		<b>WELL DETAILS</b> SEAL  SEAL SANDPACK  SANDPACK		<b>LITHOLOGY</b> FILL  FILL TILL  TILL SHALE  SHALE																
17.6			17.6	BSC																
18.4			18.4	POW																
19				BOD																

NOTES:

**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
 Seneca Army Depot  
 Romulus, New York

**TEMPORARY WELL**  
**COMPLETION REPORT: MW12-17**

# TEMPORARY WELL COMPLETION REPORT: MW12-18

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/2/98  
**WELL INSTALLATION COMPLETED:** 10/2/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.5  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS
			-2.5	TR	
0			0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.5  <b>SEAL</b> Type: BENTONITE Length (ft): 2
1					
2			2.5	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.3 Slot Size (in): 10  <b>SANDPACK</b> Type: #0, #00 Length (ft): 10
3					
4			4.5	TSP	
5					
6			6	TSC	
7					
8					
9					
10					
11					
12					
13			13.3	BSC	
14					
15			14.5	POW, BOD	
16					
17					
18					
19					

WELL DEVELOPMENT DATA	
Date:	
Method:	
Duration:	
Rate:	
Total Volume Removed (gals):	

WATER LEVELS	
	Date      Time      Depth, TR      ∇
Development	∇
Installation	∇

LEGEND	
TR TOP OF WELL RISER GS GROUND SURFACE TBS TOP BENTONITE SEAL TSP TOP OF SANDPACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN POW POINT OF WELL BOD BOTTOM OF DRILL HOLE in INCHES ft FEET ID INSIDE DIAMETER gals GALLONS SCH SCHEDULE NA NOT APPLICABLE	<b>WELL DETAILS</b> SEAL SANDPACK  <b>LITHOLOGY</b> FILL TILL SHALE

NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-18**

# TEMPORARY WELL COMPLETION REPORT: MW12-19

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/3/98  
**WELL INSTALLATION COMPLETED:** 10/3/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 11  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS																														
0			-2.7	TR	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.2</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.8 Slot Size (in): 10</p> </div> <div style="width: 45%;"> <p><b>SEAL</b> Type: BENTONITE Length (ft): 2</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 7</p> </div> </div>																														
1			0	GS																															
2			2	TBS																															
3			4	TSP																															
4			5.5	TSC																															
5			10.3	BSC																															
6			11	POW, BOD																															
7																																			
8																																			
9																																			
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-19**

# TEMPORARY WELL COMPLETION REPORT: MW12-20

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/3/98  
**WELL INSTALLATION COMPLETED:** 10/3/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.4  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.7	TR																
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.5															
1	[Cross-hatch]				<b>SEAL</b> Type: BENTONITE Length (ft): 2															
2	[Cross-hatch]		2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7 Slot Size (in): 10															
3	[Cross-hatch]				<b>SANDPACK</b> Type: #0, #00 Length (ft): 10.4															
4	[Cross-hatch]		4	TSP																
5	[Cross-hatch]																			
6	[Cross-hatch]		5.8	TSC																
7	[Cross-hatch]																			
8	[Cross-hatch]																			
9	[Cross-hatch]																			
10	[Cross-hatch]																			
11	[Cross-hatch]																			
12	[Cross-hatch]																			
13	[Cross-hatch]																			
14	[Cross-hatch]		13.8	BSC																
15	[Cross-hatch]		14.4	POW, BOD																
16	[Cross-hatch]																			
17	[Cross-hatch]																			
18	[Cross-hatch]																			
19	[Cross-hatch]																			
<b>WELL DEVELOPMENT DATA</b>																				
Date: Method: Duration: Rate: Total Volume Removed (gals):																				
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-20**



# TEMPORARY WELL COMPLETION REPORT: MW12-21

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/3/98  
**WELL INSTALLATION COMPLETED:** 10/3/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 11.2  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.9	TR																
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.3															
1	[Cross-hatch]				<b>SEAL</b> Type: BENTONITE Length (ft): 2															
2	[Cross-hatch]		2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.75 Slot Size (in): 10															
3	[Cross-hatch]				<b>SANDPACK</b> Type: #0, #00 Length (ft): 7															
4	[Diagonal lines]		4	TSP																
5	[Diagonal lines]																			
6	[Diagonal lines]		5.6	TSC																
7	[Diagonal lines]																			
8	[Diagonal lines]																			
9	[Diagonal lines]																			
10	[Diagonal lines]		10.35	BSC																
11	[Diagonal lines]		11.2	POW, BOD																
12	[Diagonal lines]																			
13	[Diagonal lines]																			
14	[Diagonal lines]																			
15	[Diagonal lines]																			
16	[Diagonal lines]																			
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18	[Diagonal lines]																			
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-21**

# TEMPORARY WELL COMPLETION REPORT: MW12-22

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/4/98  
**WELL INSTALLATION COMPLETED:** 10/4/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 12.6  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS
			-2.9	TR	
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.3
1	[Diagonal lines]				<b>SEAL</b> Type: BENTONITE Length (ft): 1.5
2	[Diagonal lines]		1.7	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 6.7 Slot Size (in): 10
3	[Diagonal lines]		3.2	TSP	<b>SANDPACK</b> Type: #0, #00 Length (ft): 9.4
4	[Horizontal lines]				
5	[Horizontal lines]		4.4	TSC	
6	[Horizontal lines]				
7	[Horizontal lines]				
8	[Horizontal lines]				
9	[Horizontal lines]				
10	[Horizontal lines]				
11	[Horizontal lines]		11.1	BSC	
12	[Horizontal lines]				
13	[Horizontal lines]		12.6	POW, BOD	
14					
15					
16					
17					
18					
19					

WELL DEVELOPMENT DATA																																																									
Date: Method: Duration: Rate: Total Volume Removed (gals):																																																									
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**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
 Seneca Army Depot  
 Romulus, New York

**TEMPORARY WELL**  
**COMPLETION REPORT: MW12-22**

# TEMPORARY WELL COMPLETION REPORT: MW12-23

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/5/98  
**WELL INSTALLATION COMPLETED:** 10/5/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 13.3  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.4	TR																
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.1															
1					<b>SEAL</b> Type: BENTONITE Length (ft): 1.5															
2	[Diagonal lines]		2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.2 Slot Size (in): 10															
3					<b>SANDPACK</b> Type: #0, #00 Length (ft): 8.6															
4			3.5	TSP																
5			4.7	TSC																
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-23**

# TEMPORARY WELL COMPLETION REPORT: MW12-24

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/19/98  
**WELL INSTALLATION COMPLETED:** 10/19/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.5	TR																
0	[Cross-hatch]		0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.2															
1	[Cross-hatch]				<b>SEAL</b> Type: BENTONITE Length (ft): 1.5															
2	[Cross-hatch]		1.5	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.9 Slot Size (in): 10															
3	[Cross-hatch]		3.1	TSP	<b>SANDPACK</b> Type: #0, #00 Length (ft): 6.9															
4	[Cross-hatch]																			
5	[Cross-hatch]		4.7	TSC																
6	[Cross-hatch]																			
7	[Cross-hatch]																			
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10	[Cross-hatch]		9.6	BSC																
11	[Cross-hatch]		10	POW, BOD																
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-24**

# TEMPORARY WELL COMPLETION REPORT: MW12-25

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/18/98  
**WELL INSTALLATION COMPLETED:** 10/18/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.3  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
			-2.9	TR																
0	[Cross-hatch]	[Well Riser]	0	GS	<b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.85															
1	[Cross-hatch]	[Well Riser]			<b>SEAL</b> Type: BENTONITE Length (ft): 1.95															
2	[Cross-hatch]	[Well Riser]	2	TBS	<b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.9 Slot Size (in): 10															
3	[Cross-hatch]	[Well Riser]			<b>SANDPACK</b> Type: #0, #00 Length (ft): 7.4															
4	[Cross-hatch]	[Well Riser]	3.95	TSP																
5	[Cross-hatch]	[Well Riser]	4.95	TSC																
6	[Cross-hatch]	[Well Riser]																		
7	[Cross-hatch]	[Well Riser]																		
8	[Cross-hatch]	[Well Riser]																		
9	[Cross-hatch]	[Well Riser]																		
10	[Cross-hatch]	[Well Riser]	9.85	BSC																
11	[Cross-hatch]	[Well Riser]	10.3	POW, BOD																
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-25**

# TEMPORARY WELL COMPLETION REPORT: MW12-26

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/18/98  
**WELL INSTALLATION COMPLETED:** 10/18/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**

**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
0			-2.6	TR	<p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.35</p> <p><b>SEAL</b> Type: BENTONITE Length (ft): 1.5</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.85 Slot Size (in): 10</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 6.4</p>															
0			0	GS																
2			2.25	TBS																
3			3.75	TSP																
4			4.75	TSC																
5																				
6																				
7																				
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10			10.1	POW, BOD																
11					<b>WELL DEVELOPMENT DATA</b>															
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NOTES:

**UNITED STATES ARMY**  
**CORPS OF ENGINEERS**  
 Seneca Army Depot  
 Romulus, New York

**TEMPORARY WELL**  
**COMPLETION REPORT: MW12-26**

# TEMPORARY WELL COMPLETION REPORT: MW12-27

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/4/98  
**WELL INSTALLATION COMPLETED:** 10/4/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 12.9  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
0			0	GS	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.5</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.75 Slot Size (in): 10</p> </div> <div style="width: 45%;"> <p><b>SEAL</b> Type: BENTONITE Length (ft): 2</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 6.5</p> </div> </div>															
1			2	TBS																
2			3.5	TSP																
3			4.5	TSC																
4			9.25	BSC																
5			10	POW, BOD																
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**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-27**

# TEMPORARY WELL COMPLETION REPORT: MW12-29

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/15/98  
**WELL INSTALLATION COMPLETED:** 10/15/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
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**TEMPORARY WELL  
 COMPLETION REPORT: MW12-29**



# TEMPORARY WELL COMPLETION REPORT: MW12-30

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/16/98  
**WELL INSTALLATION COMPLETED:** 10/16/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

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 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-30**

# TEMPORARY WELL COMPLETION REPORT: MW12-31

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/26/98  
**WELL INSTALLATION COMPLETED:** 10/26/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 9.8  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS																																				
0			-2.7	TR	<p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 7.6</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.8 Slot Size (in): 10</p> <p><b>SEAL</b> Type: BENTONITE Length (ft): 2</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 6.7</p>																																				
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**NOTES:**

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-31**

# TEMPORARY WELL COMPLETION REPORT: MW12-32

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/26/98  
**WELL INSTALLATION COMPLETED:** 10/26/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.5  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
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5			5.15	TSC																
6																				
7																				
8																				
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**TEMPORARY WELL  
 COMPLETION REPORT: MW12-32**

# TEMPORARY WELL COMPLETION REPORT: MW12-33

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/31/98  
**WELL INSTALLATION COMPLETED:** 10/31/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
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**TEMPORARY WELL  
 COMPLETION REPORT: MW12-33**

# TEMPORARY WELL COMPLETION REPORT: MW12-34

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/31/98  
**WELL INSTALLATION COMPLETED:** 10/31/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 14.1  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
0			-2.3	TR	<p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.55</p> <p><b>SEAL</b> Type: BENTONITE Length (ft): 2</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 6.75 Slot Size (in): 10</p> <p><b>SANDPACK</b> Type: #0 #00 Length (ft): 9.75</p>															
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**TEMPORARY WELL  
 COMPLETION REPORT: MW12-34**

# BEDROCK MONITORING WELL COMPLETION REPORT & INSTALLATION DETAIL PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC.		CLIENT: <u>Seneca Army Depot</u>	WELL #: <u>MW12-35</u>	
PROJECT: <u>Seacd-12 RI/FS</u>		PROJECT NO: <u>730047-01001</u>		
LOCATION: <u>North of 804, immediately downgradient of Washout USI</u>		INSPECTOR: <u>DRG/JTR</u>		
		CHECKED BY: <u>DRG</u>		
DRILLING CONTRACTOR: <u>Maxim Technology</u>		POW DEPTH: <u>38' (BGS)</u>		
DRILLER: <u>Rodney Bush</u>		OUTER CASING INSTALLATION: <u>10/30/98</u>		
DRILLING COMPLETED: <u>11/3/98</u>		INNER CASING INSTALLATION: <u>11/3/98</u>		
DEPTH TO BEDROCK: <u>16.8'</u>		SURFACE COMPLETION DATE: <u>11/4/98</u>		
BORING DEPTH: <u>38.8'</u>		COMPLETION CONTRACTOR/CREW: <u>maxim</u>		
DRILLING METHOD(S): <u>HQ core (2.5")</u>		CORE TYPE/SIZE: <u>HQ (2.5")</u>		
BORING DIAMETER(S): <u>3 1/2</u>		FOOTAGE CORED: <u>2'</u>		
ASSOCIATED SWMU/AOC: <u>Seacd-12</u>		ESTIMATED GROUND ELEVATION: _____		
PROTECTIVE CASING:				
		DIAMETER: <u>6"</u>	LENGTH: <u>19'</u>	
OUTER CASING:				
TC: <u>-2.5'</u>	TYPE: <u>steel</u>	DIAMETER: <u>6"</u>	LENGTH: <u>19'</u>	POC: <u>16.8'</u>
RISER:				
TR: <u>-2.5'</u>	TYPE: <u>PVC sch 40</u>	DIAMETER: <u>2"</u>	LENGTH: <u>30.2'</u>	
SCREEN:				
TSC: <u>27.7' (BGS)</u>	TYPE: <u>sch 40 PVC</u>	DIAMETER: <u>2"</u>	LENGTH: <u>10<sup>(P26)</sup> 9.8'</u>	SLOT SIZE: <u>0.010"</u>
POINT OF WELL: (SILT SUMP)				
TYPE: <u>Sump</u>	BSC: <u>37.5' (BGS)</u>	POW: <u>38' (BGS)</u>		
GROUT:				
OUTER	TG: <u>2'</u>	TYPE: <u>Cement / Bentonite</u>	LENGTH: <u>14.8'</u>	
INNER	TG: <u>0'</u>	TYPE: <u>Cement / Bentonite</u>	LENGTH: <u>14.8'</u>	
SEAL:				
TBS: <u>14.8'</u>	TYPE: <u>Bentonite chip</u>	LENGTH: <u>9.9'</u>		
SAND PACK:				
TSP: <u>24.7</u> <u>25.7</u>	TYPE: <u>more #00</u> <u>more #0</u>	LENGTH: <u>1.0'</u> <u>15.1'</u>		
SURFACE COLLAR:				
TYPE: <u>concrete</u>	RADIUS: <u>2'</u>	THICKNESS CENTER: <u>1'</u>	THICKNESS EDGE: <u>4"</u>	
CENTRALIZER DEPTHS				
DEPTH 1: <u>38'-37.5'</u>	DEPTH 2: <u>27.5'-27.0'</u>	DEPTH 3: _____	DEPTH 4: _____	
COMMENTS: <u>BOD 38.8' Backfill 0.8' with well sand.</u>				

\* ALL MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

# TEMPORARY WELL COMPLETION REPORT: MW12-37

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 11/1/98  
**WELL INSTALLATION COMPLETED:** 11/1/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.7  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS																																										
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NOTES:

**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-37**

# TEMPORARY WELL COMPLETION REPORT: MW12-38

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 11/1/98  
**WELL INSTALLATION COMPLETED:** 11/1/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.5  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
0			-2	TR	<p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.8</p> <p><b>SEAL</b> Type: BENTONITE Length (ft): 2.5</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.9 Slot Size (in): 10</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 6.3</p>															
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3			3.5	TSP																
5			5	TSC																
9.9			9.9	BSC	<p style="text-align: center;"><b>WELL DEVELOPMENT DATA</b></p> <p>Date: Method: Duration: Rate: Total Volume Removed (gals):</p>															
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**NOTES:**

<p><b>UNITED STATES ARMY</b>  <b>CORPS OF ENGINEERS</b>                  Seneca Army Depot                  Romulus, New York</p>	<p><b>TEMPORARY WELL</b>  <b>COMPLETION REPORT: MW12-38</b></p>
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# TEMPORARY WELL COMPLETION REPORT: MW12-39

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 11/1/98  
**WELL INSTALLATION COMPLETED:** 11/1/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.5  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** TGH  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS															
0			-2	TR	<p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.8</p> <p><b>SEAL</b> Type: 1.5 Length (ft): 2.5</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.9 Slot Size (in): 10</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 6.3</p>															
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1.5			1.5	TBS																
3.5			3.5	TSP																
5			5	TSC																
9.9			9.9	BSC																
10.5			10.5	POW. BOD																
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**NOTES:**

**UNITED STATES ARMY  
CORPS OF ENGINEERS  
Seneca Army Depot  
Romulus, New York**

**TEMPORARY WELL  
COMPLETION REPORT: MW12-39**

# TEMPORARY WELL COMPLETION REPORT: MW12-40

**PROJECT:** SEDA  
**PROJECT LOCATION:** Seneca Army Depot, Romulus, New York  
**ASSOCIATED AREA/UNIT:** SEAD 12  
**PROJECT NO.:** 730047  
**WELL INSTALLATION STARTED:** 10/15/98  
**WELL INSTALLATION COMPLETED:** 10/15/98  
**DRILLING CONTRACTOR:** Maxim  
**DRILLING METHOD:** HSA 8"  
**SAMPLING METHOD:** Split Spoon

**TOTAL DEPTH:** 10.9  
**DEPTH TO WATER:**  
**BORING LOCATION:**  
  
**COORDINATE SYSTEM:** NAD83  
**GROUND SURFACE ELEVATION:**  
**ELEVATION DATUM:** NAVD1927  
**INSPECTOR:** ITR  
**CHECKED BY:**

DEPTH (ft)	MACRO SYMBOL	WELL DETAILS	DEPTH (ft)	ELEVATION (ft)	WELL CONSTRUCTION DETAILS																																				
0			-2.7	TR	<p><b>RISER</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 8.4</p> <p><b>SCREEN</b> Diameter (ID) (in): 2 Type: PVC Length (ft): 4.85 Slot Size (in): 10</p> <p><b>SEAL</b> Type: BENTONITE Length (ft): 2</p> <p><b>SANDPACK</b> Type: #0, #00 Length (ft): 6.9</p>																																				
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2			2	TBS																																					
4			4	TSP																																					
5.7			5.7	TSC																																					
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**UNITED STATES ARMY  
 CORPS OF ENGINEERS  
 Seneca Army Depot  
 Romulus, New York**

**TEMPORARY WELL  
 COMPLETION REPORT: MW12-40**

## **APPENDIX C**

### **SURVEY DATA**

- **GP CONTROL**
- **GEOPHYSICAL DOWNHOLE**
- **MONITORING WELLS**
- **SOIL BORINGS**
- **SEDIMENTS**
- **SOIL GAS**
- **SURFACE SOILS**
- **SURFACE WATER**
- **TEST PITS**

1950

1951

1952  
1953  
1954  
1955  
1956  
1957  
1958  
1959  
1960

Appendix C  
Survey Data  
SEAD-12 Remedial Investigation  
Seneca Army Depot

LOC_ID	NORTHING	EASTING	LOC_ELEV
<b>GP CONTROL</b>			
0+00 0000N	1011527.5	741212.37	628.445
0+00 1000N	1012526.4	741168.68	630.668
0+00 2000N	1013525.6	741124.85	632.155
10+00 1000N	1012570.6	742167.44	642.366
20+00 0000N	1011614.9	743210.31	647.89
20+00 1000N	1012614.2	743166.59	648.633
20+00 2000N	1013613.2	743122.82	644.067
20+00 3000N	1014612.2	743079.14	639.175
20+00 4000N	1015610.9	743035.41	636.516
30+00 0000N	1011658.9	744209.2	658.381
30+00 1000N	1012658.4	744166.02	663.8
30+00 2000N	1013657	744121.7	664.403
40+00 0000N	1011702.7	745208.17	661.57
40+00 1000N	1012701.4	745163.43	665.167
40+00 2000N	1013700.3	745119.82	665.618
40+00 3000N	1014701	745077.46	658.131
40+00 4000N	1015699	745032.36	654.951
40+00 4470N	1016168.6	745011.07	650.479
<b>GEOPHYSICAL DOWNHOLE</b>			
GB12-01	1015164.6	745200.1	
GB12-02	1015252	745184.05	
GB12-03	1015331.6	745079.91	
GB12-04	1015299.3	744961.79	
GB12-05	1015257.5	745010.08	
GB12-06	1015241.5	745011.27	
GB12-07	1015226.1	745014.66	
GB12-08	1015211.4	745017.54	
GB12-09	1015198.2	745020.34	
GB12-10	1015182.9	745023.09	
GB12-11	1015185.4	745038.08	
GB12-12	1015187.9	745052	
GB12-13	1015200.4	745035.13	
GB12-14	1015206.1	745064.42	
GB12-15	1015205.9	745049.05	
GB12-16	1015218	745046.43	
GB12-17	1015216	745031.2	
GB12-18	1015221.9	745061.68	
GB12-19	1015225.1	745075.71	
GB12-20	1015198.3	745095.99	
GB12-21	1015195.7	745071.11	
GB12-22	1015194	745080.43	
GB12-23	1015179.1	745083.24	
GB12-24	1015181.7	745098.97	
GB12-25	1015196.9	745096.05	
GB12-26	1015211.6	745092.46	
GB12-27	1015208.6	745076.5	
GB12-28	1015167.2	745102.75	
GB12-29	1015164.9	745085.99	
GB12-30	1015162.6	745072.53	
GB12-31	1015159.8	745058.18	
GB12-32	1015156.4	745043.72	
GB12-33	1015153.5	745029.16	
GB12-34	1015169	745027.12	
GB12-35	1015172.3	745040	
GB12-36	1015174	745054.56	
GB12-37	1015176.7	745069.45	
GB12-38	1015184.3	745113.15	
GB12-39	1015187.7	745127.16	
GB12-40	1015199.4	745110.15	

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LOC_ID	NORTHING	EASTING	LOC_ELEV
GB12-41	1015203.9	745123.61	
GB12-42	1015217.9	745123.02	
GB12-43	1015215.1	745108.25	
GB12-44	1015236.8	745059.03	
GB12-45	1015232.6	745043.62	
GB12-46	1015230.8	745030.39	
GB12-47	1015244	745027.55	
GB12-48	1015248.4	745043.19	
GB12-49	1015251.6	745056.2	
GB12-50	1015261.8	745041.06	
GB12-51	1015265.7	745054.51	
GB12-52	1015144.9	745060.33	
GB12-53	1015140.5	745045.58	
GB12-54	1015137.2	745030.99	
GB12-55	1015150.5	745014.36	
GB12-56	1015135.8	745012.63	
GB12-58	1015163.2	745011.62	
GB12-59	1015132.2	744997.3	
GB12-59	1015189.3	744976.71	
GB12-60	1015186.6	744961.82	
GB12-61	1015184.1	744946.76	
GB12-62	1015181	744932.25	
GB12-63	1015168.4	744948.9	
GB12-64	1015173.3	744963.05	
GB12-65	1015124.8	744982.97	
GB12-66	1015106.5	745022.15	
GB12-67	1015124.7	745032.49	
GB12-68	1015076.3	745009.12	
GB12-69	1015105.7	744958.24	
GB12-70	1015156.1	744982.45	
GB12-71	1015296.4	745139.93	
<b>MONITORING WELLS</b>			
MW12-1	1015591.7	745456.8	654.941
MW12-10	1015189.8	745007.47	660
MW12-11	1015123.1	744975.84	657.2
MW12-12	1015163	744888.01	657
MW12-13	1015212.4	744875.69	656.9
MW12-14	1015306.3	744664.52	654.6
MW12-15	1015521.9	744743.11	654.1
MW12-16	1015979.9	743879.19	651.1
MW12-17	1015807.7	743883.23	652.5
MW12-18	1016052.4	743572.78	649.5
MW12-19	1013585.1	742593.62	638.7
MW12-2	1013710.3	745536.3	665.727
MW12-20	1013484.6	742579.83	638.6
MW12-21	1013550.6	742955.53	640.7
MW12-22	1013588.1	741426.14	636.5
MW12-23	1013490.5	741441.32	636.4
MW12-24	1012214.6	742040.5	642.5
MW12-25	1012127.7	742084.16	641.1
MW12-26	1012155.9	742161.71	641.4
MW12-27	1012826.3	743875.05	662.6
MW12-29	1013765.6	744296.95	661.1
MW12-3	1015079.9	745477	665.886
MW12-30	1013819.9	744281.41	660.8
MW12-31	1012105.1	744693.71	659.3
MW12-32	1012147	744711.31	659.1
MW12-33	1015645.3	744634.37	656
MW12-34	1015800.3	744650.65	655.9
MW12-35	1015919.1	743562.8	648.4
MW12-37	1014123.3	744790.4	662.6
MW12-38	1014091.5	744716.78	663.4

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LOC_ID	NORTHING	EASTING	LOC_ELEV
MW12-39	1013935	744716.72	663.2
MW12-4	1016353.4	744983.6	648.785
MW12-40	1014236.4	744470.3	660.7
MW12-5	1016284.4	743429	650.977
MW12-6	1016120.6	742086.61	636.6
MW12-7	1015394.6	744855.88	659.6
MW12-8	1015208.9	745182.94	664.2
MW12-9	1015955.5	744009.17	651.4
MW12A-1	1015496.5	745165.94	656.9
MW12A-2	1015117.1	744926.75	656.3
MW12A-3	1015521.4	744532.25	655.6
MW12B-1	1015934.4	743739.69	652
MW12B-2	1015920.1	743522.88	648.1
MW12B-3	1015995.9	743517.06	655.6
DW12-815	1013994.5	744508.4	664
<b>SOIL BORINGS</b>			
SB12-1	1015197.4	745057.16	
SB12-10	1015919.3	743578.13	649.96
SB12-11	1015925.3	743574.77	647
SB12-12	1015930.6	743575.36	653.41
SB12-2	1015195.6	745035.92	661
SB12-28	1012776	743922	662
SB12-2B	1015204.8	745044.85	665.47
SB12-3	1015184.3	744969	659
SB12-36	1013530	744539	665
SB12-4	1015183.2	744938.56	657
SB12-5	1015962	743613.3	655.38
SB12-5A	1015967.5	743614.65	652.18
SB12-5B	1015962	743613.26	655.38
SB12-6	1015982	743609	648
SB12-7	1009050	740350	
SB12-8	1012375	740925	625
SB12-9	1014038.3	740903.1	632
SB12B-1	1015915.9	743568.19	
<b>SEDIMENTS</b>			
SD12-1	1011512.9	741246.8	621.541
SD12-10	1014003.7	742626.9	634.215
SD12-11	1014115	743892.2	
SD12-12	1013692.5	745304.2	662.503
SD12-13	1014210.2	745280.3	661.085
SD12-14	1014509.6	745272.4	659.125
SD12-15	1014794.6	745182.5	656.199
SD12-16	1014972.7	744609.1	651.504
SD12-17	1014703.7	744576.5	653.972
SD12-18	1015439.7	745226	656.67
SD12-19	1016123.3	745093.5	647.968
SD12-2	1011607.5	743380.8	645.52
SD12-20	1013548.8	742654.8	636.319
SD12-20A	1015726.7	743091.4	635.546
SD12-21	1013510	742585	
SD12-22	1013548	742654.8	
SD12-23	1013660.2	742765	636.491
SD12-24	1013737.3	742692.1	635.394
SD12-25	1013650.6	742853	636.664
SD12-26	1013393.7	742449.7	636.359
SD12-27	1013401.7	742718.2	637.223
SD12-28	1013557.3	744759.1	659.672
SD12-29	1013630	744778.8	
SD12-3	1012209	745411.1	
SD12-30	1013875.8	744756.2	659.645
SD12-31	1014137.7	744799.1	658.566

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LOC_ID	NORTHING	EASTING	LOC_ELEV
SD12-32	1014152.4	744608.4	657.199
SD12-33	1014151.4	744393.1	656.207
SD12-34	1014015	744401	
SD12-35	1014461.5	744618.5	656.586
SD12-36	1014520.9	744366.9	651.905
SD12-37	1014764.6	744353.6	650.365
SD12-38	1015161.1	744289.2	646.772
SD12-39	1015367.7	743617.4	640.28
SD12-4	1012771.8	741651.5	632.472
SD12-40	1015354.2	743300.4	637.093
SD12-41	1015171.9	743087.4	633.972
SD12-42	1015833.1	743614.3	645.347
SD12-43	1015757.4	743685.4	647.814
SD12-44	1015755	743630	
SD12-45	1015743.6	743470.2	642.587
SD12-46	1015901.3	743518.9	644.061
SD12-47	1015895.7	743389.6	641.934
SD12-48	1015139.7	742814.9	631.07
SD12-49	1014480.3	741600.4	628.356
SD12-5	1013162.8	743108.8	641.718
SD12-50	1014533.2	740458.9	622.138
SD12-51	1015350.9	740064.7	617.191
SD12-52	1015901	738730.4	
SD12-53	1015568	738753.8	
SD12-54	1015231	738756.5	
SD12-55	1016874	737920.3	
SD12-56	1016843	734941.7	
SD12-57	1015249	727700.4	
SD12-59	1008958	741740.3	622.36
SD12-6	1013516.7	744048.9	663.705
SD12-60	1007774.3	742682.8	631.903
SD12-61	1007211.7	742679.3	633.858
SD12-62	1006266.3	742751.5	636.324
SD12-63	1005327.9	742792.2	643.757
SD12-64	1007223.3	742929.9	635.94
SD12-65	1007281.2	744360.5	646.326
SD12-66	1006235.9	745355.4	656.986
SD12-7	1012186.1	744951.6	658.712
SD12-8	1013928.1	741257.2	632.316
SD12-9	1014025.7	742199.4	633.16
SD12A-1	1014741.9	745200.21	
SD12A-2	1015131.9	744339.98	
SD12A-3	1015366.4	743805.06	
SD12A-4	1015196	745046	
<b>SOIL GAS</b>			
SG12-117	1014017.4	744788.1	662.812
SG12-118	1014144.2	744753.8	660.041
SG12-120	1014119.2	744755.5	662.859
SG12-121	1014115.9	744783.1	663.285
SG12-122	1014092.6	744716.6	663.278
SG12-123	1014095.7	744742.9	662.999
SG12-124	1014061.9	744740.9	
SG12-125	1014062.9	744717.4	663.283
SG12-126	1014089.2	744789.5	663.362
SG12-127	1014071.1	744802.9	661.298
SG12-128	1014027.3	744712.6	663.263
SG12-129	1014027.9	744734.4	663.162
SG12-129	1014135.7	744780.5	661.714
SG12-130	1014028.6	744740.94	
SG12-131	1014042.7	744751.67	
SG12-132	1014044.1	744781.56	
SG12-133	1014046.4	744792.2	662.822



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LOC_ID	NORTHING	EASTING	LOC_ELEV
SG12-134	1014028.6	744769.45	
SG12-135	1014024.9	744799.6	662.131
SG12-136	1014041.6	744806.2	660.204
SG12-137	1014015.9	744751.67	
SG12-138	1014015.3	744781.31	
SG12-139	1014011.1	744798.5	662.469
SG12-140	1014019	744808.8	659.815
SG12-141	1014061	744830.9	662.272
SG12-142	1014009.8	744838.9	667.02
SG12-143	1013994.7	744720.5	663.226
SG12-144	1013995.3	744741.8	663.224
SG12-145	1013963.9	744722.1	663.163
SG12-146	1013964.3	744742.3	663.162
SG12-147	1013963.6	744791.7	662.834
SG12-148	1013933.5	744717.22	
SG12-149	1013933.5	744737.13	
SG12-150	1013953.6	744839.6	667.253
SG12-151	1013929.8	744797.15	
SG12-152	1013900.1	744763.1	663.166
SG12-153	1013901.1	744787	663.244
SG12-154	1013885.9	744763.9	662.853
SG12-155	1013889.1	744784.7	662.488
SG12-156	1013603.6	744517.8	665.666
SG12-157	1013604.5	744543.1	665.728
SG12-158	1013587.9	744518.9	665.666
SG12-159	1013589.4	744544.7	665.785
SG12-160	1013564.2	744482.9	665.709
SG12-161	1013567.3	744502.9	665.804
SG12-162	1013570.9	744548.9	665.654
SG12-163	1013571.2	744562.9	662.186
SG12-164	1013546.9	744521.9	663.547
SG12-165	1013550.8	744551	663.618
SG12-166	1013551.9	744562.3	662.005
SG12-167	1013538.2	744503.8	662.641
SG12-168	1013532.5	744522	662.37
SG12-169	1013540.5	744540	662.082
SG12-170	1013532.4	744550.5	661.913
<b>SURFACE SOILS</b>			
SS12-1	1016063	739320.5	614.144
SS12-10	1016008	741972.8	636.144
SS12-100	1012175.1	742177.17	643.162
SS12-101	1012178.1	742234.04	645.707
SS12-102	1013606	741528.47	637.269
SS12-103	1013809.9	741548.69	637.526
SS12-104	1013599.3	741564.64	638.562
SS12-105	1013798.9	741497.61	637.793
SS12-106	1013539	741447.97	637.285
SS12-107	1013649.1	741453.3	627.154
SS12-108	1013765	741568.54	628.213
SS12-109	1013779.4	741442.63	639.584
SS12-11	1015896	742092.1	635.51
SS12-110	1013645.9	741491.27	638.424
SS12-111	1013650.8	741543.32	636.041
SS12-112	1013600.1	741475.68	636.726
SS12-113	1013560.1	741564.59	637.355
SS12-114	1013885.6	741524.28	636.228
SS12-115	1013880.6	741553.76	639.092
SS12-116	1013668.8	741564.05	632.548
SS12-117	1013738.1	741472.86	630.67
SS12-118	1013564.3	741493.61	637.422
SS12-119	1013873.2	741475.22	637.446
SS12-12	1015989.8	742350.79	635.397

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LOC_ID	NORTHING	EASTING	LOC_ELEV
SS12-120	1013738.9	741534.86	634.724
SS12-121	1013706.4	741574.63	645.511
SS12-122	1013613.6	742984.14	649.927
SS12-123	1013587.6	743005.23	647.456
SS12-124	1013631.1	743002.51	648.175
SS12-125	1013625.3	742963.38	645.779
SS12-126	1013567.5	742977.66	643.887
SS12-127	1016087	743922.58	645.407
SS12-128	1015910.6	743876.35	649.457
SS12-129	1015959.3	743808.27	651.069
SS12-13	1015763	742301.5	634.33
SS12-130	1016051.8	743739.45	650.309
SS12-131	1015881.1	743789.2	651.127
SS12-132	1015821.9	743796.87	649.435
SS12-133	1015875.4	743973.76	648.526
SS12-134	1016029.5	743988.33	645.826
SS12-135	1015809.4	744000.49	646.831
SS12-136	1016058.7	743804.09	649.72
SS12-137	1016001.2	743699.7	649.544
SS12-138	1015851.7	743572.33	649.258
SS12-139	1015831.6	743612.45	651.44
SS12-14	1015764.3	742143.73	640.369
SS12-140	1015821.5	743679.11	652.109
SS12-141	1015878.4	743670.31	649.911
SS12-142	1016074.9	743650.82	646.213
SS12-143	1016009.9	743590.89	653.907
SS12-144	1015978.2	743627.76	653.507
SS12-145	1015978.2	743610.82	654.487
SS12-146	1015987.4	743622.98	657.72
SS12-147	1015534.4	744684.95	655.129
SS12-148	1015448.5	744589.37	657.228
SS12-149	1015544.9	744593.01	652.47
SS12-15	1015194.8	745070.55	668.174
SS12-150	1015934.1	744694.03	656.296
SS12-151	1015353.8	744826.82	662.948
SS12-152	1015509.7	744557.02	655.009
SS12-153	1015449.2	744832.72	660.928
SS12-154	1015702.2	744667.14	658.354
SS12-155	1015925.4	744639.73	657.701
SS12-156	1015892.5	744589.64	660.439
SS12-157	1015787.9	744596.74	661.05
SS12-158	1015753.8	744703.72	656.99
SS12-159	1015722	744620.09	660.678
SS12-16	1015182.7	745064.23	675.22
SS12-160	1015658.4	744702.76	654.264
SS12-161	1015345.7	744642.16	657.137
SS12-162	1015386.5	744590.58	657.646
SS12-163	1015349.9	744735.06	660.188
SS12-164	1015862.1	744682.73	661.141
SS12-165	1015798.4	744723.82	658.807
SS12-166	1015800.4	744745.99	655.364
SS12-167	1015199.1	744973.74	654.06
SS12-168	1015164	744972.25	660.909
SS12-169	1015102.4	745018.99	665.042
SS12-17	1015184.6	744965.53	660.865
SS12-170	1015108.1	745052.63	665.854
SS12-171	1015103.2	745081.68	661.406
SS12-172	1015110	745106.06	655.435
SS12-173	1015126	745020.92	666.984
SS12-174	1015124.7	745047.1	660.993
SS12-175	1015126.7	745077.18	662.504
SS12-176	1015131.6	745106	661.997
SS12-177	1015154	745022.16	668.05

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LOC_ID	NORTHING	EASTING	LOC_ELEV
SS12-178	1015155.7	745044.93	661.556
SS12-179	1015156	745074.56	666.154
SS12-18	1015482.8	744711.83	654.046
SS12-180	1015160.8	745109.64	673.177
SS12-181	1015179.8	745017.99	663.748
SS12-182	1015186.3	745047.2	664.901
SS12-183	1015186.6	745072.58	665.841
SS12-184	1015192.1	745104	666.67
SS12-185	1015213.7	745014.56	662.04
SS12-186	1015214.7	745043.78	662.825
SS12-187	1015216.4	745070.01	663.249
SS12-188	1015221.8	745103.53	665.94
SS12-189	1015243.9	745011.67	662.056
SS12-19	1015049.8	743334.28	642.083
SS12-190	1015246.4	745041.53	662.666
SS12-191	1015248.2	745068.22	665.123
SS12-192	1015253.7	745099.36	662.794
SS12-193	1015271.4	745009.48	666.661
SS12-194	1015275.3	745038.29	665.802
SS12-195	1015278.6	745066.05	665.683
SS12-196	1015281.4	745098.07	665.544
SS12-197	1015303.1	745007.48	665.727
SS12-198	1015305.9	745036.17	669.123
SS12-199	1015308.8	745067.66	667.975
SS12-2	1016253	742629.6	645.587
SS12-20	1014472.8	743346.7	646.399
SS12-200	1015311.5	745096.89	666.985
SS12-201	1015516.9	744811.52	654.969
SS12-202	1015515.6	744779.71	654.933
SS12-203	1015515.3	744747.47	653.127
SS12-204	1015515.9	744712.83	653.107
SS12-205	1015516.5	744680.03	654.517
SS12-206	1015518	744647.22	656.739
SS12-207	1015479.5	744646.8	664.521
SS12-208	1015482.5	744683.13	655.45
SS12-21	1013661.6	741950.7	618.922
SS12-210	1015481.6	744745.9	656.84
SS12-211	1015482.7	744778.89	656.723
SS12-212	1015482.7	744811.77	658.889
SS12-213	1015449.8	744647.12	648.355
SS12-214	1015450.4	744681.51	654.563
SS12-215	1015449.8	744713.24	654.657
SS12-216	1015451.5	744746.05	656.297
SS12-217	1015450.6	744778.84	657.192
SS12-218	1015451.3	744811.62	659.955
SS12-219	1015387.9	744781.96	655.864
SS12-22	1013940.2	741405.47	614.927
SS12-220	1015418.5	744779.86	657.426
SS12-221	1015417.1	744745.98	656.083
SS12-222	1015417.7	744715.02	654.955
SS12-223	1015419.6	744684.6	654.717
SS12-224	1015418.7	744652.02	650.48
SS12-225	1015387.9	744656.01	653.742
SS12-226	1015387.2	744689.28	657.159
SS12-227	1015386.6	744717.31	657.422
SS12-228	1015386.7	744748.76	657.223
SS12-229	1015418.9	744814.81	658.491
SS12-23	1013966.4	742508.14	625.088
SS12-230	1015386.5	744816.97	658.36
SS12-232	1015017.8	743484.12	638.947
SS12-233	1015047	743442.05	648.576
SS12-234	1013820.6	744203.88	664.057
SS12-235	1013739.8	744222.21	666.345

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LOC_ID	NORTHING	EASTING	LOC_ELEV
SS12-236	1012900.7	743948.82	646.252
SS12-237	1012824.3	744020.73	649.162
SS12-238	1013854.5	745162.8	658.141
SS12-239	1013994.9	745165.41	655.758
SS12-24	1013863.7	742869.33	622.118
SS12-240	1014070.3	744533.5	665
SS12-241	1014063	744570.73	664.27
SS12-242	1014075.6	744613.51	646.789
SS12-243	1014046.6	744629.04	670.459
SS12-244	1014019.1	744586.33	681.993
SS12-245	1014026.1	744535.66	676.495
SS12-246	1013984.2	744543.31	676.855
SS12-247	1013963.6	744574.83	674.672
SS12-248	1013990.8	744614.08	676.144
SS12-249	1014007.9	744634.49	679.474
SS12-25	1013842.9	743362.09	632.957
SS12-250	1013961.1	744635.19	674.057
SS12-251	1013927.9	744643.44	670.889
SS12-252	1013931.1	744613.55	671.121
SS12-253	1013943.3	744535.16	668.956
SS12-254	1013922.7	744535.46	661.783
SS12-255	1013916.3	744569.59	666.027
SS12-256	1013890.6	744622.87	674.983
SS12-257	1013889	744574.87	671.352
SS12-258	1013892.3	744494.98	658.329
SS12-259	1013892.5	744660.97	666.027
SS12-26	1013234.9	741644.56	623.777
SS12-260	1013839.6	744517.49	663.716
SS12-261	1013850.6	744562.4	671.707
SS12-262	1013851.7	744607.49	669.743
SS12-263	1013830.5	744632.81	672.482
SS12-264	1013798	744600.7	672.784
SS12-265	1013805.5	744554.21	666.758
SS12-266	1013768	744527.66	681.977
SS12-267	1013759	744562.81	685.406
SS12-268	1013764.9	744633.92	680.606
SS12-269	1013733.8	744637.66	682.219
SS12-27	1012838	742294.42	636.75
SS12-270	1013859.6	744479.07	656.529
SS12-271	1013726.2	744595.76	680.982
SS12-272	1013733.8	744528.02	678.955
SS12-273	1013715.8	744560	684.933
SS12-274	1013706.3	744524.14	685.988
SS12-275	1013688.3	744543.73	683.519
SS12-276	1013679.8	744588.49	679.812
SS12-277	1013704.4	744653.79	685.703
SS12-278	1013656.5	744637.33	665.394
SS12-279	1013646.2	744561.95	666.718
SS12-28	1012859.3	742836.13	645.901
SS12-29	1013311.8	744593.62	659.825
SS12-3	1016334	744432.7	648.02
SS12-30	1012655.6	741865.48	642.847
SS12-31	1014031.7	743438.49	632.889
SS12-32	1012643.7	742709.12	641.045
SS12-33	1015510.1	743973.63	657.361
SS12-34	1012966	743580.48	638.056
SS12-35	1012964	744626.23	660.474
SS12-36	1015868.4	744087.07	643.697
SS12-37	1012543.4	744588.74	681.349
SS12-38	1014775.8	745182.8	663.771
SS12-39	1012549.9	743383.63	652.96
SS12-4	1015688	745706.1	657.027
SS12-40	1011654.1	742027.44	637.549

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LOC_ID	NORTHING	EASTING	LOC_ELEV
SS12-41	1014769.7	744430.88	662.004
SS12-42	1012010.5	743500.98	655.636
SS12-43	1014912.1	744896.41	653.72
SS12-44	1014576.1	745052.86	666.495
SS12-45	1011551.4	741660.94	631.908
SS12-46	1014229.6	745033.13	682.255
SS12-47	1011615.8	742700.08	634.877
SS12-48	1015672.9	745138.47	661.903
SS12-49	1011719.9	743742.24	662.968
SS12-5	1016051	745450.6	654.802
SS12-50	1015138.8	743903.84	654.353
SS12-51	1012181.5	745325.13	658.486
SS12-52	1015296.1	744355.07	656.101
SS12-53	1011882.2	744901.58	678.171
SS12-54	1011913.7	743944.97	667.915
SS12-55	1014864.9	744132.97	655.869
SS12-56	1013604.4	744024.66	667.222
SS12-57	1013914.3	743868.37	662.529
SS12-58	1013370.1	743261.37	635.567
SS12-59	1013095.3	742581.4	631.027
SS12-6	1014833	745485.5	663.485
SS12-60	1013056.7	743056.33	653.682
SS12-61	1011896.5	743689.89	664.871
SS12-62	1011966.2	743481.12	656.181
SS12-63	1011897.6	743756	667.692
SS12-64	1015932.4	738805.37	591.771
SS12-65	1015870.6	738811.19	588.535
SS12-66	1014214.5	744546.93	664.109
SS12-67	1014169.8	744519.47	659.832
SS12-68	1014212.9	744488.58	664.901
SS12-69	1013465.5	742892.63	641.134
SS12-7	1012862	745602.9	668.163
SS12-70	1013460.2	742859.05	635.775
SS12-71	1013500.4	742896.06	637.954
SS12-72	1013495.9	742856.14	645.298
SS12-73	1013529.6	742892.37	642.417
SS12-74	1013526.6	742852.35	646.6
SS12-75	1013560.5	742890.73	643.295
SS12-76	1013556.7	742850.39	644.75
SS12-77	1013587	742881.12	644.093
SS12-78	1013585.6	742849.51	642.617
SS12-79	1013588.7	742657.82	634.396
SS12-8	1011784	745733.8	666.28
SS12-80	1013555.7	742627.61	638.449
SS12-81	1013551.7	742659.95	636.937
SS12-82	1013558.4	742688.98	641.843
SS12-83	1013521.2	742630.66	639.651
SS12-84	1013522.1	742659.77	636.046
SS12-85	1013519.6	742692.38	640.82
SS12-86	1013489.6	742630.27	640.283
SS12-87	1013487.2	742658.92	636.373
SS12-88	1013492.6	742690.26	633.354
SS12-89	1013451.8	742666.95	640.776
SS12-9	1016116.2	742191.97	634.04
SS12-90	1012270.3	742231.79	642.754
SS12-91	1012262.5	742172.24	647.635
SS12-92	1012259.7	742119.87	639.511
SS12-93	1012231.9	742121.54	638.731
SS12-94	1012234.3	742177.9	638.356
SS12-95	1012244.4	742232.99	637.88
SS12-96	1012213.9	742232.82	637.739
SS12-97	1012205.2	742170.21	644.968
SS12-98	1012206.5	742113.49	644.285

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LOC_ID	NORTHING	EASTING	LOC_ELEV
SS12-99	1012174.1	742118.14	642.172
<b>SURFACE WATER</b>			
SW12-1	1011512.9	741246.8	621.541
SW12-10	1014003.7	742626.9	634.215
SW12-11	1014115	743892.2	
SW12-12	1013692.5	745304.2	662.503
SW12-13	1014210.2	745280.3	661.085
SW12-14	1014509.6	745272.4	659.125
SW12-15	1014794.6	745182.5	656.199
SW12-16	1014972.7	744609.1	651.504
SW12-17	1014703.7	744576.5	653.972
SW12-18	1015439.7	745226	656.67
SW12-19	1016123.3	745093.5	647.968
SW12-2	1011607.5	743380.8	645.52
SW12-20	1013548.8	742654.8	636.319
SW12-20A	1015726.7	743091.4	635.546
SW12-21	1013510	742585	
SW12-22	1013548	742654.8	
SW12-23	1013660.2	742765	636.491
SW12-24	1013737.3	742692.1	635.394
SW12-25	1013650.6	742853	636.664
SW12-26	1013393.7	742449.7	636.359
SW12-27	1013401.7	742718.2	637.223
SW12-28	1013557.3	744759.1	659.672
SW12-29	1013630	744778.8	
SW12-3	1012209	745411.1	
SW12-30	1013875.8	744756.2	659.645
SW12-31	1014137.7	744799.1	658.566
SW12-32	1014152.4	744608.4	657.199
SW12-33	1014151.4	744393.1	656.207
SW12-34	1014015	744401	
SW12-35	1014461.5	744618.5	656.586
SW12-36	1014520.9	744366.9	651.905
SW12-37	1014764.6	744353.6	650.365
SW12-38	1015161.1	744289.2	646.772
SW12-39	1015367.7	743617.4	640.28
SW12-4	1012771.8	741651.5	632.472
SW12-40	1015354.2	743300.4	637.093
SW12-41	1015171.9	743087.4	633.972
SW12-42	1015833.1	743614.3	645.347
SW12-43	1015757.4	743685.4	647.814
SW12-44	1015755	743630	
SW12-45	1015743.6	743470.2	642.587
SW12-46	1015901.3	743518.9	644.061
SW12-47	1015895.7	743389.6	641.934
SW12-48	1015139.7	742814.9	631.07
SW12-49	1014480.3	741600.4	628.356
SW12-5	1013162.8	743108.8	641.718
SW12-50	1014533.2	740458.9	622.138
SW12-51	1015350.9	740064.7	617.191
SW12-52	1015901	738730.4	
SW12-53	1015568	738753.8	
SW12-54	1015231	738756.5	
SW12-55	1016874	737920.3	
SW12-56	1016843	734941.7	
SW12-57	1015249	727700.4	
SW12-59	1008958	741740.3	622.36
SW12-6	1013516.7	744048.9	663.705
SW12-60	1007774.3	742682.8	631.903
SW12-61	1007211.7	742679.3	633.858
SW12-62	1006266.3	742751.5	636.324
SW12-63	1005327.9	742792.2	643.757



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LOC_ID		NORTHING	EASTING	LOC_ELEV
SW12-64		1007223.3	742929.9	635.94
SW12-65		1007281.2	744360.5	646.326
SW12-66		1006235.9	745355.4	656.986
SW12-7		1012186.1	744951.6	658.712
SW12-8		1013928.1	741257.2	632.316
SW12-9		1014025.7	742199.4	633.16
SW12A-1		1014741.9	745200.21	
SW12A-2		1015131.9	744339.98	
SW12A-3		1015366.4	743805.06	
<b>TEST PITS</b>				
TP12-10A		1012340	742676.04	633.8
TP12-10B		1012351.8	742677.46	620.302
TP12-10C		1012339.4	742676.59	633.476
TP12-10NORT	H_	1012344.7	742675.45	645.61
TP12-10SOUT	H_	1012296.8	742659.85	646.777
TP12-11A		1012232.2	742159.16	644.076
TP12-11B		1012209.3	742135.67	641.571
TP12-11C		1012204.1	742133.75	644.16
TP12-11_SOU	TH	1012193.3	742115.52	638.508
TP12-12A		1012223.9	742134.06	637.691
TP12-12B		1012225	742131.99	639.172
TP12-12C		1012229.6	742128.78	638.679
TP12-12_NWE	ST	1012247.8	742111.31	638.216
TP12-12_SOU	TH	1012195.5	742157.65	640.942
TP12-13A		1012730.9	741307.98	627.148
TP12-13B		1012723.8	741335.06	629.944
TP12-13C		1012721.9	741335.25	627.445
TP12-13_EAS	T_	1012707.1	741353.7	633.65
TP12-13_WES	T_	1012731.4	741301.26	627.76
TP12-14A		1012482.8	744102.21	653.886
TP12-14B		1012473.4	744106.19	664.745
TP12-14C		1012466.9	744111.34	659.592
TP12-14_NOR	TH	1012482.1	744107.28	658.972
TP12-14_SOU	TH	1012464.1	744111.17	662.227
TP12-15A		1013566.9	741513.95	631.95
TP12-15B		1013579.3	741514.33	629.747
TP12-15C		1013588.3	741513.88	631.635
TP12-15_NOR	TH	1013600.4	741514.01	631.147
TP12-15_SOU	TH	1013554.9	741512.51	632.931
TP12-16A		1013689.7	741517.88	637.611
TP12-16B		1013683.1	741535.29	629.116
TP12-16C		1013682.8	741503.69	635.126
TP12-16_EAS	T_	1013676.6	741540.58	635.66
TP12-16_WES	T_	1013668.4	741488.62	639.647
TP12-17A		1013610.2	742966.4	646.138
TP12-17B		1013604.7	742965.63	645.174
TP12-17C		1013599.7	742965.16	645.097
TP12-17NORT	H_	1013621.1	742965.52	644.695
TP12-17_SOU	TH	1013570.8	742970.38	640.746
TP12-18A		1013803.4	744236.6	661.43
TP12-18B		1013803.2	744232.58	653.577
TP12-18C		1013802.7	744235.25	652.86
TP12-18_EAS	T_	1013788.9	744271.47	664.654
TP12-18_WES	T_	1013810.1	744231.33	665.99
TP12-19A		1013778	744229.14	660.715
TP12-19B		1013777.2	744228.73	659.621
TP12-19C		1013777.1	744229.1	659.859
TP12-19_NEA	ST	1013773.8	744259.25	667.526
TP12-19_NWE	ST	1013776.6	744223.2	670.485
TP12-1A		1015242.1	745060.34	664.862
TP12-1B		1015245.7	745062.26	665.751
TP12-1C		1015244.1	745061.22	664.267

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LOC_ID		NORTHING	EASTING	LOC_ELEV
TP12-1_NORT	HE	1015261.3	745077.72	676.735
TP12-1_SWES	T_	1015238	745059.49	664.325
TP12-20A		1014134.9	745256.54	660.619
TP12-20B		1014134.6	745256.42	659.388
TP12-20C		1014134.2	745256.31	659.65
TP12-20_NOR	TH	1014143.8	745253.72	660.409
TP12-20_SOU	TH	1014123.2	745258.75	655.184
TP12-21A		1012865.9	743981.39	669.844
TP12-21B		1012856.5	743980.6	671.005
TP12-21C		1012859.5	743981.63	669.232
TP12-21_NOR	TH	1012868.8	743983.46	666.001
TP12-21_SOU	TH	1012839.2	743980.55	668.094
TP12-22AA		1011750.1	743817.44	650.821
TP12-22A_EA	ST	1011748.4	743820.73	661.314
TP12-22A_WE	ST	1011746.1	743786.58	660.462
TP12-22BA		1011737.8	743845.24	653.863
TP12-22BB		1011728.2	743857.62	656.16
TP12-22B_NO	RT	1011740.9	743842.72	660.305
TP12-22B_SO	UT	1011726.1	743864.26	658.279
TP12-23A		1015632.6	744650.92	652.675
TP12-23B		1015628.8	744641.02	651.728
TP12-23C		1015630.1	744644.55	653.004
TP12-23_EAS	T_	1015633	744653.19	656.559
TP12-23_WES	T_	1015623	744631.15	653.327
TP12-24_EA	ST	1012108.5	744770.45	665.51
TP12-24A		1012116.5	744756.83	669.253
TP12-24B		1012119.3	744753.36	668.53
TP12-24C		1012115	744760.72	668.53
TP12-24_WES	T_	1012113.2	744742.2	663.214
TP12-25A		1015851.1	743786.12	638.651
TP12-25B		1015852.6	743759.93	638.108
TP12-25C		1015855.9	743761.15	645.501
TP12-25_EAS	T_	1015859.7	743804.22	645.028
TP12-25_WES	T_	1015858.8	743705.97	647.012
TP12-26A		1015873.2	743899.15	642.822
TP12-26B		1015873.2	743912.55	641.14
TP12-26C		1015878.8	743853.89	654.039
TP12-26_EAS	T_	1015874.1	743944.25	643.788
TP12-26_WES	T_	1015879.3	743854.4	644.277
TP12-2A		1015242.6	745035.94	665.688
TP12-2B		1015242	745037.72	665.193
TP12-2C		1015240.6	745043.1	666.979
TP12-2_NWES	T_	1015257.8	745018.57	664.597
TP12-2_SEAS	T_	1015233.5	745047.91	666.598
TP12-3A		1015459.6	744704.91	653.683
TP12-3B		1015457	744705.91	654.571
TP12-3C		1015454.9	744707.33	653.945
TP12-3_NORT	H	1015491.3	744689.42	651.827
TP12-3_SOUT	H	1015375.3	744714.98	658.714
TP12-4A		1015429.9	744780.29	660.245
TP12-4B		1015429.4	744781.55	662.786
TP12-4C		1015430	744780.12	659.901
TP12-4_NEAS	T	1015455.7	744799.88	659.581
TP12-4_SWES	T_	1015423.1	744775.31	660.962
TP12-5A		1015674.9	744634.57	650.165
TP12-5B		1015674.8	744645.65	651.048
TP12-5C		1015676.4	744651.41	649.431
TP12-5D		1015675.5	744634.68	651.589
TP12-5_EAST	_E	1015674.8	744665.23	650.655
TP12-5_WEST	_E	1015678.5	744623.69	650.912
TP12-6A		1015575	744645.75	649.56
TP12-6B		1015567.6	744651.16	650.966
TP12-6C		1015579.5	744641.93	650.367



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LOC_ID		NORTHING	EASTING	LOC_ELEV
TP12-6_NWES	T_	1015586.1	744639.54	648.306
TP12-6_SEAS	T_	1015564.6	744655.29	648.471
TP12-7AA		1015714.7	744643.14	652.454
TP12-7A_EAS	T_	1015713.2	744650.76	649.435
TP12-7A_WES	T_	1015709.2	744638.24	648.515
TP12-7BA		1015788.5	744661.5	655.555
TP12-7BB		1015788.9	744664.43	653.346
TP12-7B_NOR	TH	1015797.3	744659.25	654.432
TP12-7B_SOU	TH	1015789.2	744665.28	657.059
TP12-8A		1015831.6	744661.61	652.346
TP12-8B		1015833.8	744644.54	652.762
TP12-8C		1015833.1	744650	652.346
TP12-8_EAST	EN	1015832.8	744665.94	648.893
TP12-8_WEST	_E	1015831.7	744641.64	653.467
TP12-9A		1012433	742048.49	639.686
TP12-9B		1012433	742048.68	641.149
TP12-9C		1012432.4	742048.38	644.032
TP12-9_EAST	_E	1012416.4	742071.54	644.824
TP12-9_WEST	_E	1012440.2	742024.79	644.496
TP12A-1		1015185.2	745067.48	
TP12A-2		1015182.1	744970.74	
TP12A-3		1015418	744748.96	
TP12A-4		1015477.2	744707.44	
TP12A-5		1015686.3	744634.71	
TP12A-6		1015736.2	744639.42	
TP12A-7		1015803.8	744651.74	
TP12A-8		1015891.1	744581.5	
TP12B-1		1015914.2	743579.24	
TP12B-2		1015976.8	743609.61	
TP12B-3		1016014.3	743592.14	
TP12B-4		1016021.8	743560.38	

TABLE 1

Year	1980	1981	1982	1983	1984
Population	100,000	105,000	110,000	115,000	120,000
Area (sq. miles)	100	100	100	100	100
Density (per sq. mile)	1,000	1,050	1,100	1,150	1,200

**APPENDIX D**

**HYDRAULIC CONDUCTIVITY RESULTS**



Page 10

THE UNIVERSITY OF CHICAGO



Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12A-1**  
 Test Date: **May 11, 1999**

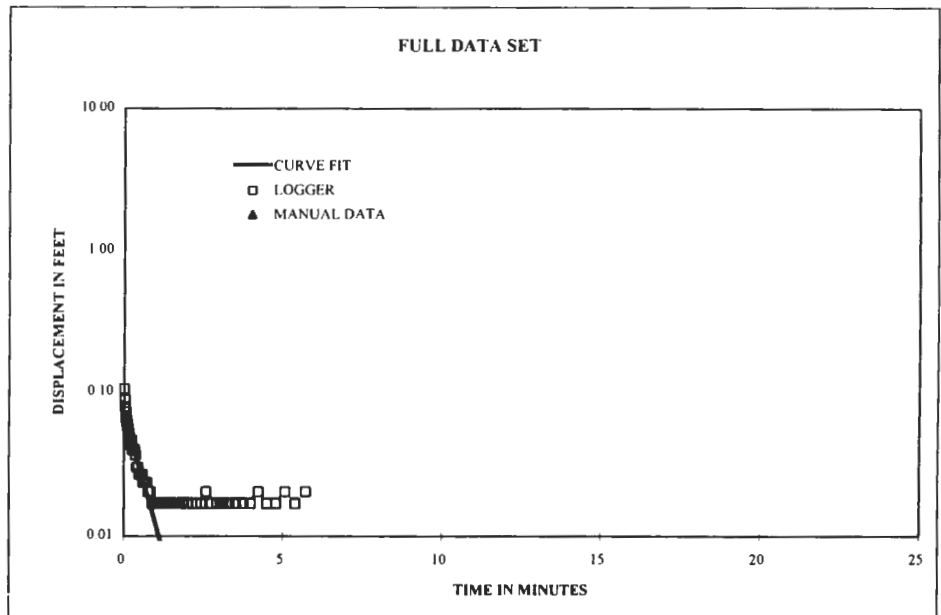
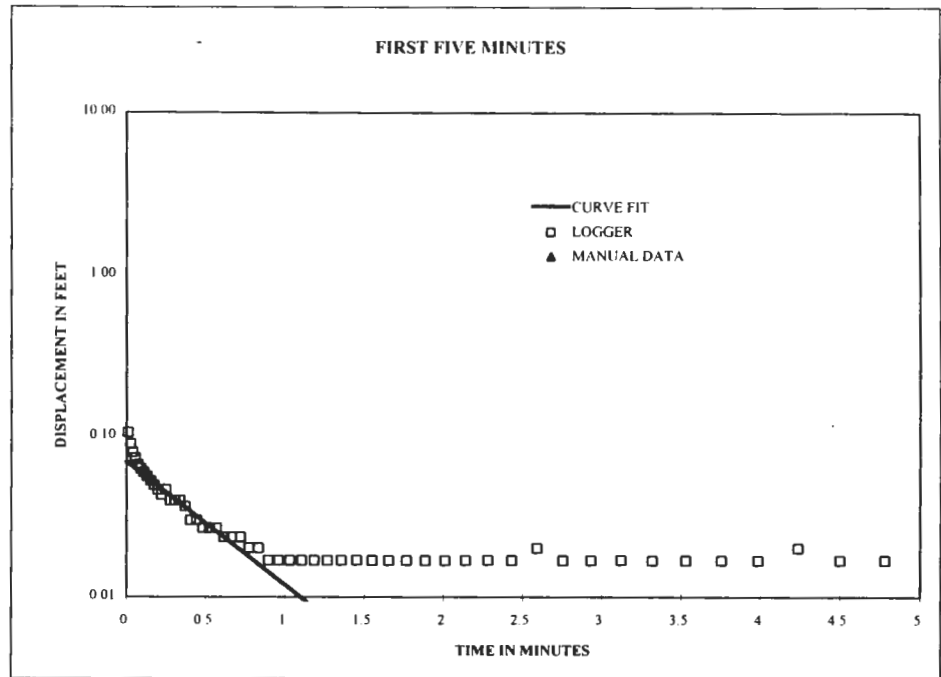
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:

Hydraulic conductivity **8.19E-04 cm/sec**  
**1.61E-03 ft/min**  
**2.32 ft/day**

Casing stickup	1.40 feet
Static water level (from top of casing)	5.81 feet
Depth to bottom of screen (from ground level)	13.00 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	9.00 feet
Depth to "impermeable boundary"	14.00 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	0.069 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	1.21 min

Bouwer-Rice Parameters		
feet	cm	cm
4.41	134.42	SW
8.59	261.82	H
4	121.92	$T_s$
0.333	10.16	Rw
0.083	2.54	Rc
0.167	5.08	DS
8.59	261.82	L
9.59	292.30	D
0.069	2.10	$Y_0$
0.0082	0.25	$Y_t$
	72.60	$t$ (seconds)
	0.30	n
		25.77 L/Rw
		0.90 H/D
		2.30 A
		0.32 B
		1.80 C
		1.10 $\ln[(D-H)/Rw]$
		1.10 $\ln[(D-H)/Rw]$
		2.27 equation (8)
		2.45 equation (9)
		2.27 $\ln(Rw/Rw)$
		8.2E-04 equation (5)



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update" Ground Water vol. 27, no. 3, May-June 1989  
 Bouwer, H and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research vol 12, no. 3, June 1976

Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12A-2**  
 Test Date: **May 11, 1999**

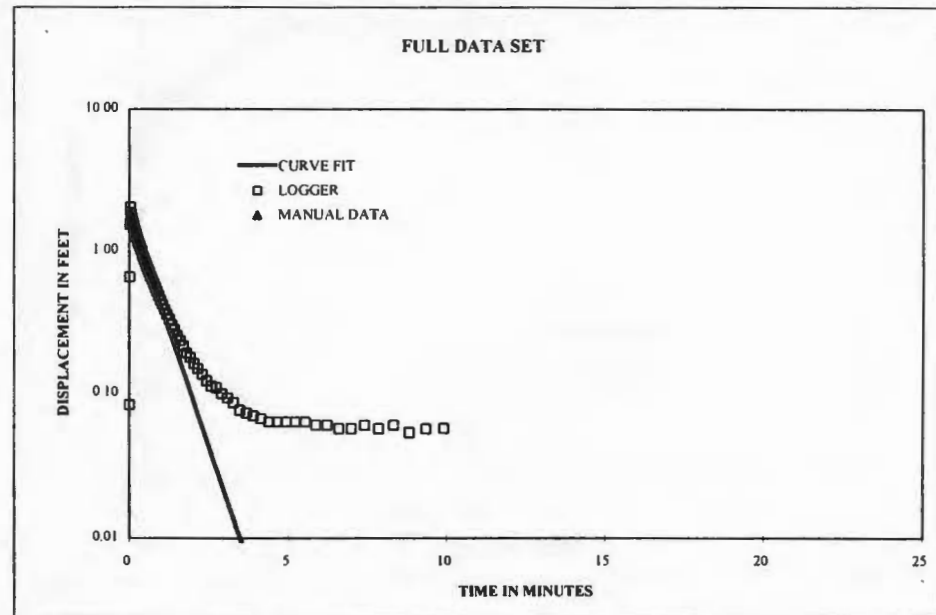
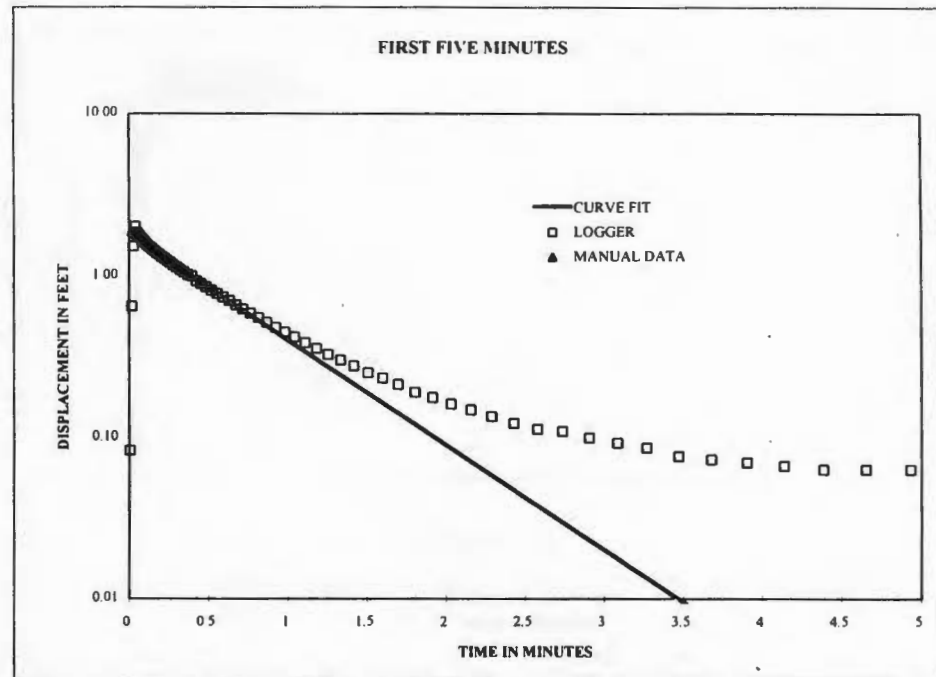
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:

Hydraulic conductivity **1.27E-03 cm/sec**  
**2.50E-03 ft/min**  
**3.59 ft/day**

Casing stickup	2.50 feet
Static water level (from top of casing)	4.13 feet
Depth to bottom of screen (from ground level)	9.64 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	6.80 feet
Depth to "impermeable boundary"	10.54 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	1.800 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	3.60 min

Bouwer-Rice Parameters		
feet	cm	cm
1.63	49.68 <i>SW</i>	
8.01	244.14 <i>H</i>	81.60 <i>L/Rw</i>
2.84	86.56 <i>Ts</i>	0.90 <i>H/D</i>
0.083	2.54 <i>Rw</i>	3.80 <i>A</i>
0.083	2.54 <i>Rc</i>	0.65 <i>B</i>
0.167	5.08 <i>DS</i>	3.50 <i>C</i>
6.80	207.26 <i>L</i>	2.38 $\ln[(D-H)/Rw]^*$
8.91	271.58 <i>D</i>	2.38 $\ln[(D-H)/Rw]$
1.8	54.86 $Y_0$	3.26 equation (8)
0.0082	0.25 $Y_t$	3.52 equation (9)
	216.00 <i>t (seconds)</i>	3.26 $\ln(Rw/Rw)$
	0.30 <i>n</i>	1.3E-03 equation (5)



Bouwer, Herman 1989 "The Bouwer and Rice Slug Test - An Update". Ground Water vol 27, no 3, May-June 1989  
 Bouwer, H and R C. Rice 1976 A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research. vol 12, no. 3, June 1976.

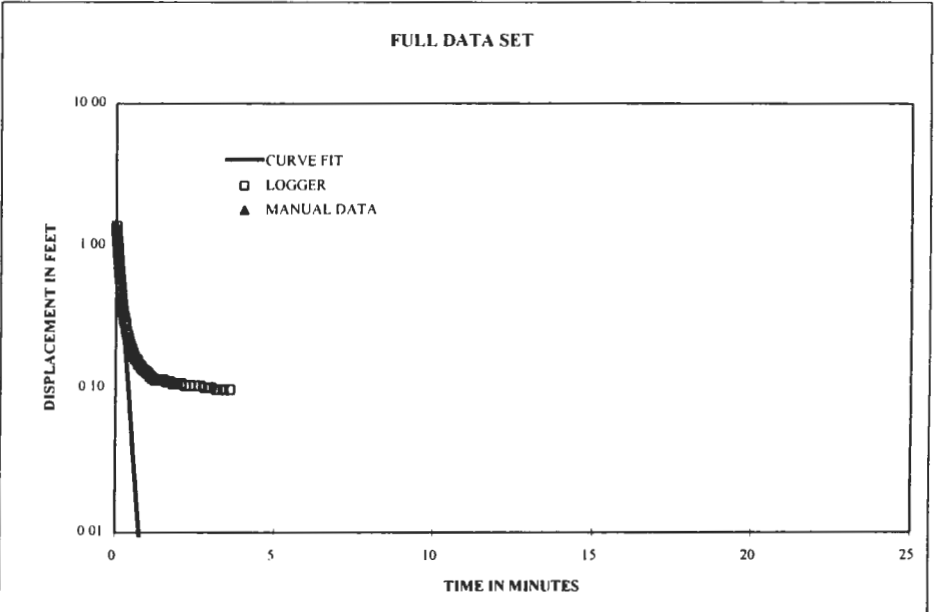
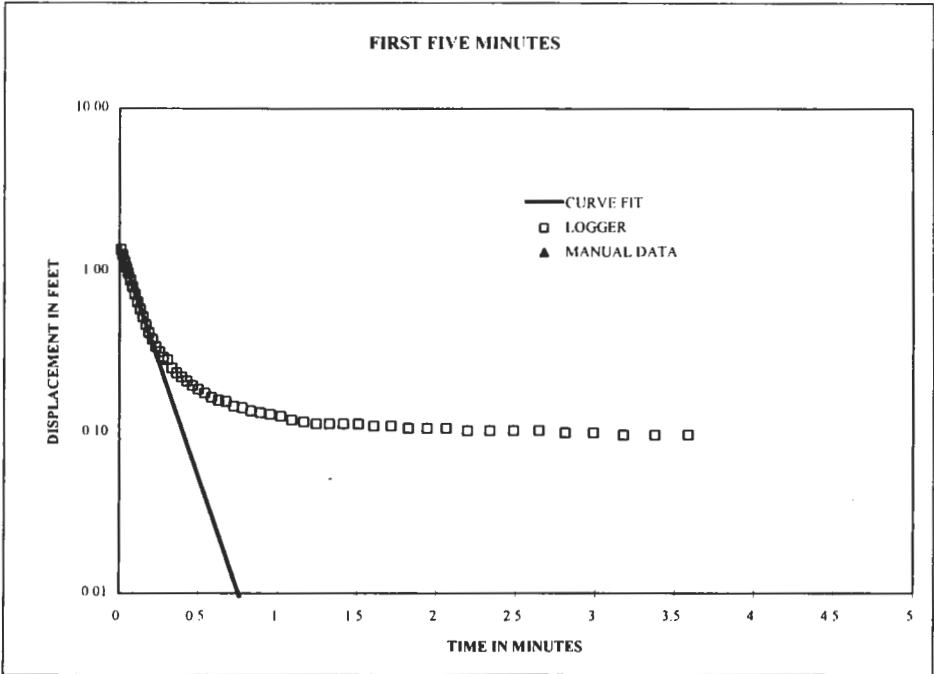
Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12B-2**  
 Test Date: **May 11, 1999**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity **3.16E-03 cm/sec**  
**6.21E-03 ft/min**  
**8.94 ft/day**

Casing stickup	2.50 feet
Static water level (from top of casing)	6.74 feet
Depth to bottom of screen (from ground level)	12.40 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	9.00 feet
Depth to "impermeable boundary"	13.50 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	1.400 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	0.78 min

Bower-Rice Parameters		
feet	cm	cm
4.24	129.24 <i>SW</i>	
8.16	248.72 <i>H</i>	24.48 <i>L/Rw</i>
3.4	103.63 <i>Ts</i>	0.88 <i>H/D</i>
0.333	10.16 <i>Rw</i>	2.25 <i>A</i>
0.083	2.54 <i>Rc</i>	0.32 <i>B</i>
0.167	5.08 <i>DS</i>	1.70 <i>C</i>
8.16	248.72 <i>L</i>	1.19 $\ln[(D-H)/Rw]$
9.26	282.24 <i>D</i>	1.19 $\ln[(D-H)/Rw]$
1.4	42.67 $Y_0$	2.21 equation (8)
0.0082	0.25 $Y_t$	2.42 equation (9)
	46.80 <i>t (seconds)</i>	2.21 $\ln(R_0/R_w)$
	0.30 <i>n</i>	3.2E-03 equation (5)



Bowser, Herman 1989. "The Bowser and Rice Slug Test - An Update" Ground Water vol 27, no. 3, May-June 1989  
 Bowser, H. and R.C. Rice 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research vol 12, no 3, June 1976

Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12B-3**  
 Test Date: **May 10, 1999**

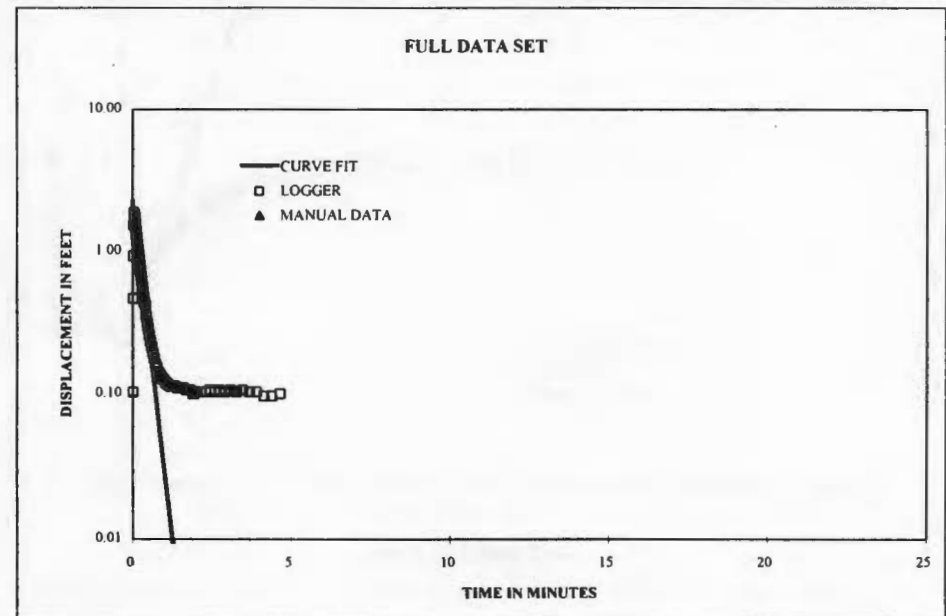
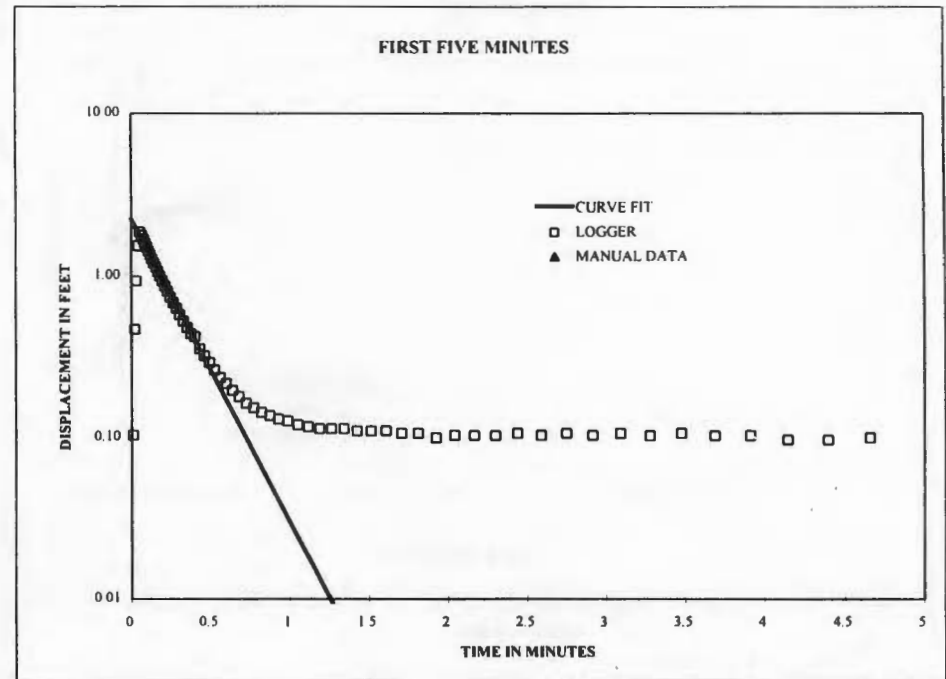
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:

Hydraulic conductivity **2.27E-03 cm/sec**  
**4.47E-03 ft/min**  
**6.43 ft/day**

Casing stickup	2.50 feet
Static water level (from top of casing)	6.79 feet
Depth to bottom of screen (from ground level)	12.38 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	14.96 feet
Depth to "impermeable boundary"	12.48 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	2.250 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	1.30 min

Bouwer-Rice Parameters		
feet	cm	cm
4.29	130.76 <i>SW</i>	
8.09	246.58 <i>H</i>	24.27 <i>L/Rw</i>
-2.5768	-78.54 <i>Ts</i>	0.99 <i>H/D</i>
0.333	10.16 <i>Rw</i>	2.25 <i>A</i>
0.083	2.54 <i>Rc</i>	0.31 <i>B</i>
0.167	5.08 <i>DS</i>	1.70 <i>C</i>
8.09	246.58 <i>L</i>	-1.20 $\ln[(D-H)/Rw]$
8.19	249.63 <i>D</i>	-1.20 $\ln[(D-H)/Rw]$
2.25	68.58 $Y_0$	2.37 equation (8)
0.0082	0.25 $Y_t$	2.41 equation (9)
	78.00 <i>t (seconds)</i>	2.41 $\ln(Rc/Rw)$
	0.30 <i>n</i>	2.3E-03 equation (5)



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research. vol 12, no. 3, June 1976.



Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-4**  
 Test Date: **May 11, 1999**

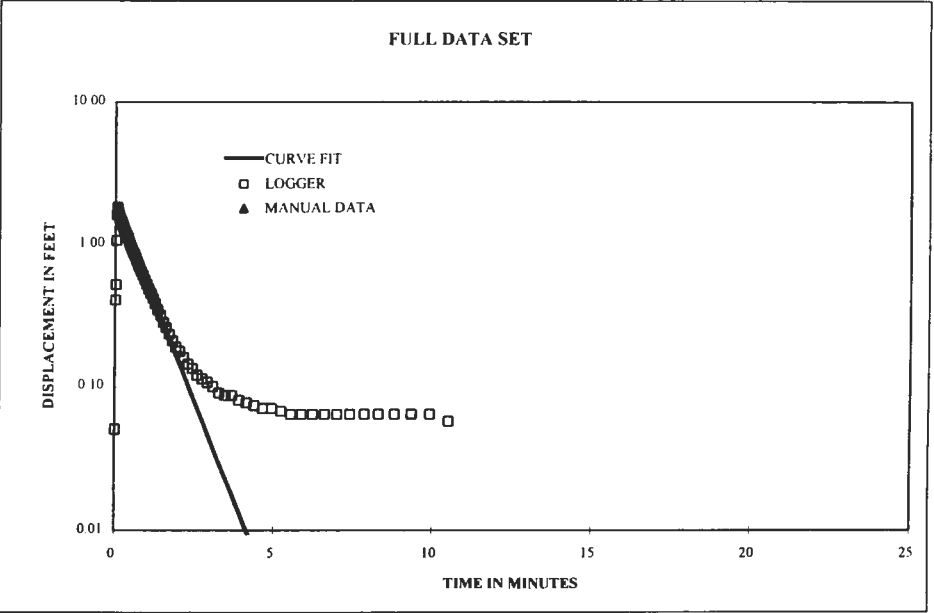
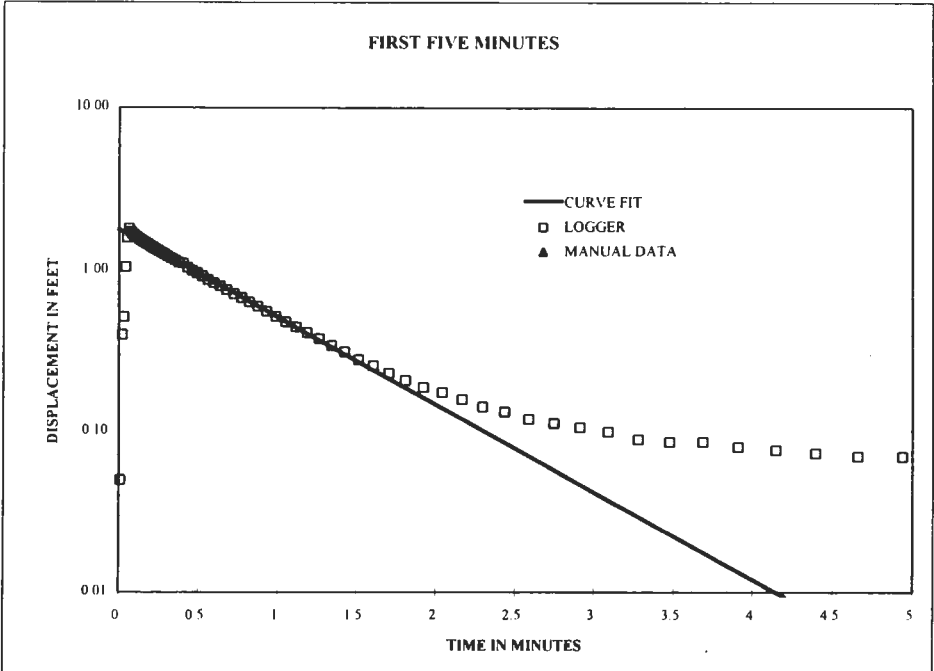
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity

1.12E-03 cm/sec  
 2.20E-03 ft/min  
 3.17 ft/day

Casing stickup	2.68 feet
Static water level (from top of casing)	4.80 feet
Depth to bottom of screen (from ground level)	11.56 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.21 feet
Depth to "impermeable boundary"	11.78 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	1.800 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	4.30 min

Bouwer-Rice Parameters		
feet	cm	cm
2.12	64.62	SW
9.44	287.73	H
4.35	132.59	$T_s$
0.083	2.54	$R_w$
0.083	2.54	$R_c$
0.167	5.08	$D_S$
7.21	219.76	L
9.66	294.44	D
1.8	54.86	$Y_0$
0.0082	0.25	$Y_t$
	258.00	$t$ (seconds)
	0.30	n
		1.1E-03 equation (5)
		86.52 $L/R_w$
		0.98 $H/D$
		3.90 A
		0.65 B
		3.63 C
		0.97 $\ln[(D-H)/R_w]$
		0.97 $\ln[(D-H)/R_w]$
		3.51 equation (8)
		3.64 equation (9)
		3.64 $\ln(R_0/R_w)$



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research. vol 12, no. 3, June 1976.

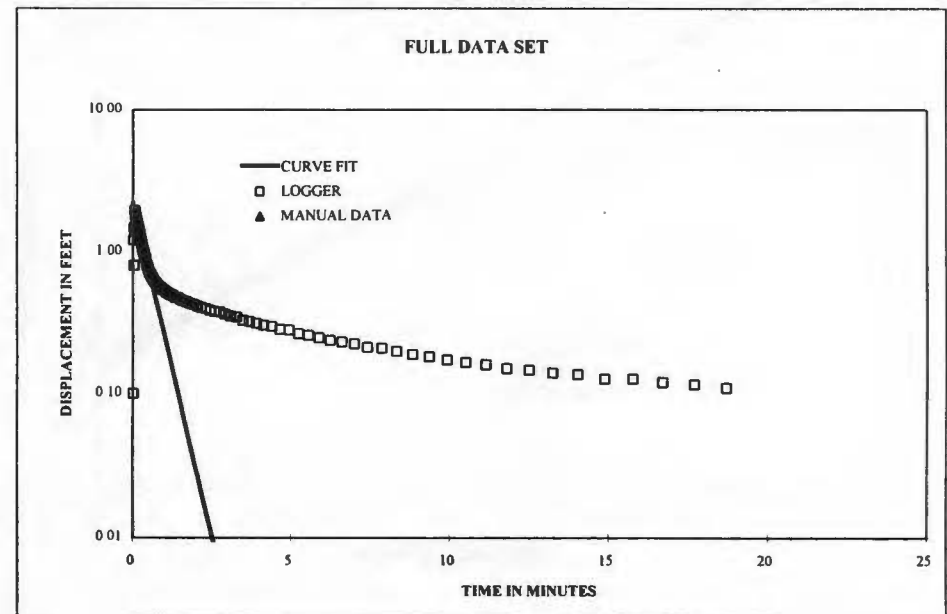
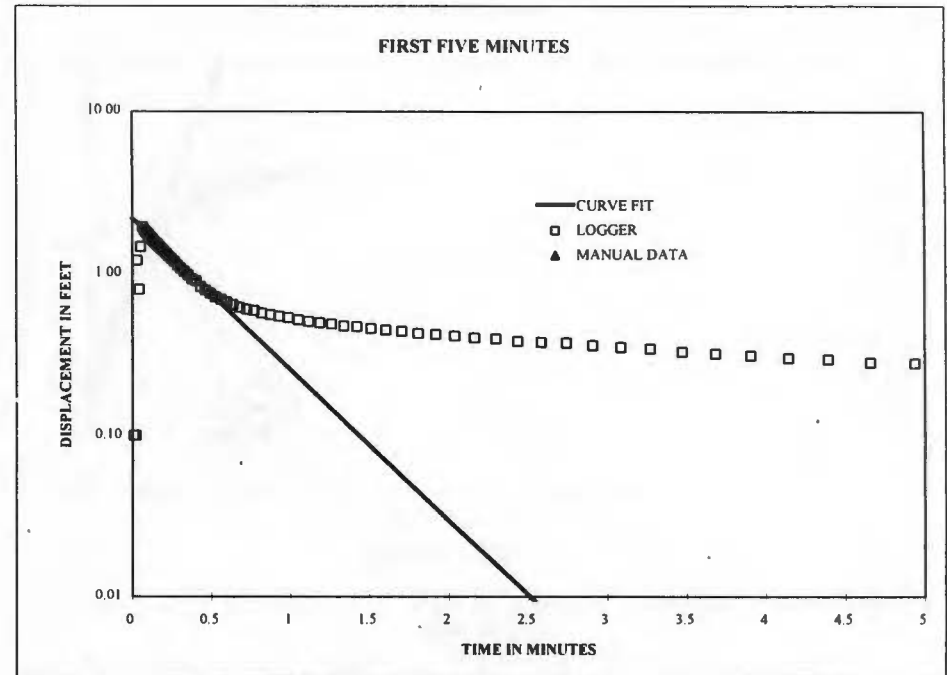
Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-5**  
 Test Date: **May 11, 1999**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity **9.44E-04 cm/sec**  
**1.86E-03 ft/min**  
**2.68 ft/day**

Casing stickup	2.39 feet
Static water level (from top of casing)	9.77 feet
Depth to bottom of screen (from ground level)	17.90 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	13.00 feet
Depth to "impermeable boundary"	18.40 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	2.200 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	2.60 min

Bouwer-Rice Parameters		
feet	cm	cm
7.38	224.94 <i>SW</i>	
10.52	320.65 <i>H</i>	31.56 <i>L/Rw</i>
4.9	149.35 <i>Ts</i>	0.95 <i>H/D</i>
0.333	10.16 <i>Rw</i>	2.40 <i>A</i>
0.083	2.54 <i>Rc</i>	0.35 <i>B</i>
0.167	5.08 <i>DS</i>	2.00 <i>C</i>
10.52	320.65 <i>L</i>	0.41 $\ln[(D-H)/Rw]^*$
11.02	335.89 <i>D</i>	0.41 $\ln[(D-H)/Rw]$
2.2	67.06 $Y_0$	2.50 equation (8)
0.0082	0.25 $Y_t$	2.62 equation (9)
	156.00 $t$ (seconds)	2.62 $\ln(Rs/Rw)$
	0.30 <i>n</i>	9.4E-04 equation (6)



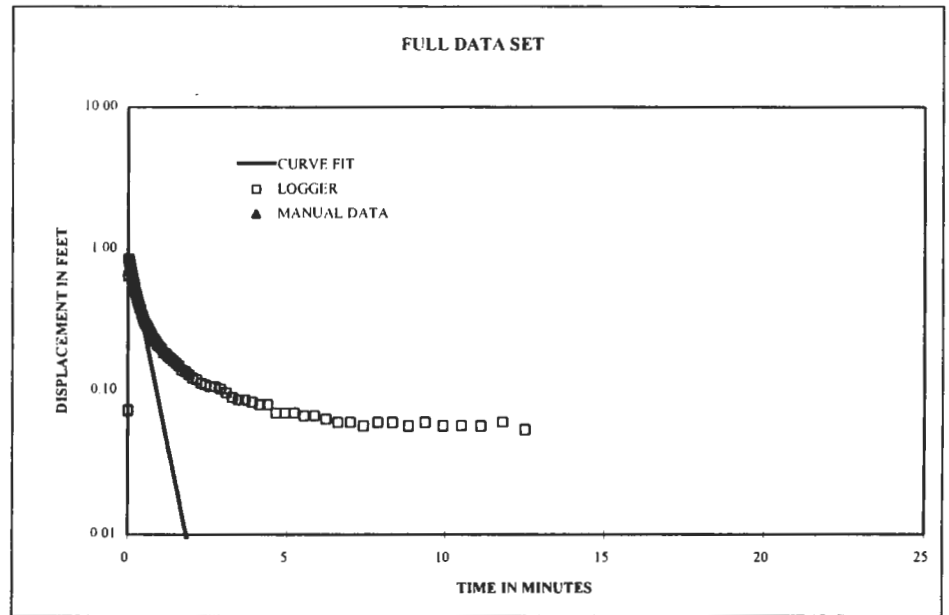
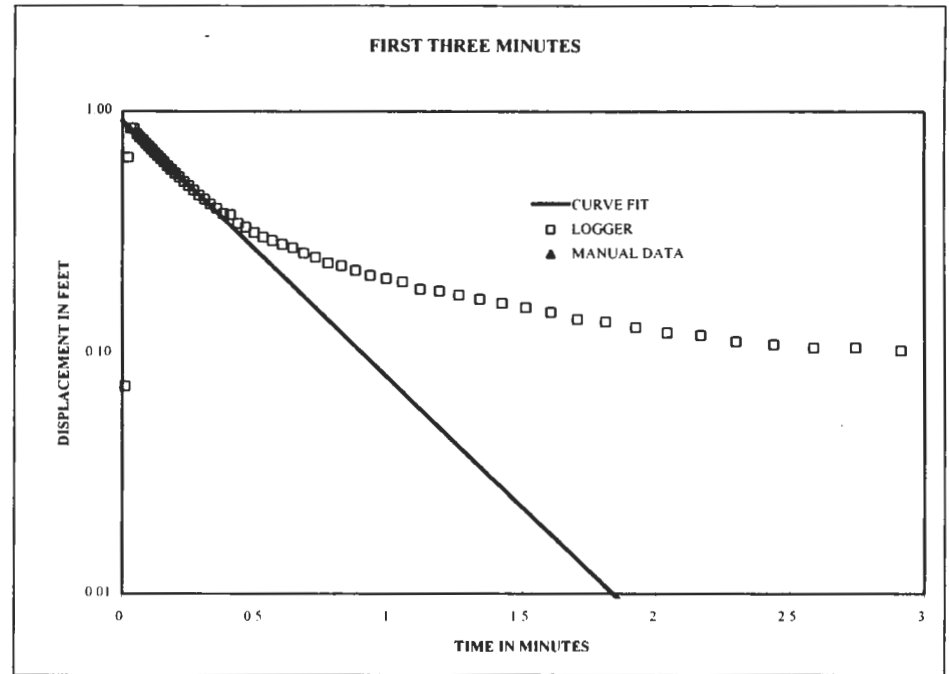
Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research vol 12, no. 3, June 1976.

Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-7**  
 Test Date: **May 11, 1999**  
 Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**  
 Logger Data File:  
 Hydraulic conductivity

8.42E-03 cm/sec  
 1.66E-02 ft/min  
 23.86 ft/day

Casing stickup	2.59 feet
Static water level (from top of casing)	10.00 feet
Depth to bottom of screen (from ground level)	13.59 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.00 feet
Depth to "impermeable boundary"	13.64 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	0.911 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	1.92 min

Bouwer-Rice Parameters		
feet	cm	cm
7.41	225.86	<i>SW</i>
6.18	188.37	<i>H</i>
6.59	200.86	<i>Ts</i>
0.333	10.16	<i>Rw</i>
0.195	5.96	<i>Rc</i>
0.167	5.08	<i>DS</i>
6.18	188.37	<i>L</i>
6.23	189.89	<i>D</i>
0.9112	27.77	$Y_0$
0.0082	0.25	$Y_t$
	115.20	<i>t (seconds)</i>
	0.30	<i>n</i>
		18.54 <i>L/Rw</i>
		0.99 <i>H/D</i>
		2.10 <i>A</i>
		0.29 <i>B</i>
		1.50 <i>C</i>
		-1.90 $\ln[(D-H)/Rw]$
		-1.90 $\ln[(D-H)/Rw]$
		2.17 equation (8)
		2.19 equation (9)
		2.19 $\ln(Re/Rw)$
		8.4E-03 equation (5)



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. "A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976.

Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-9**  
 Test Date: **May 10, 1999**

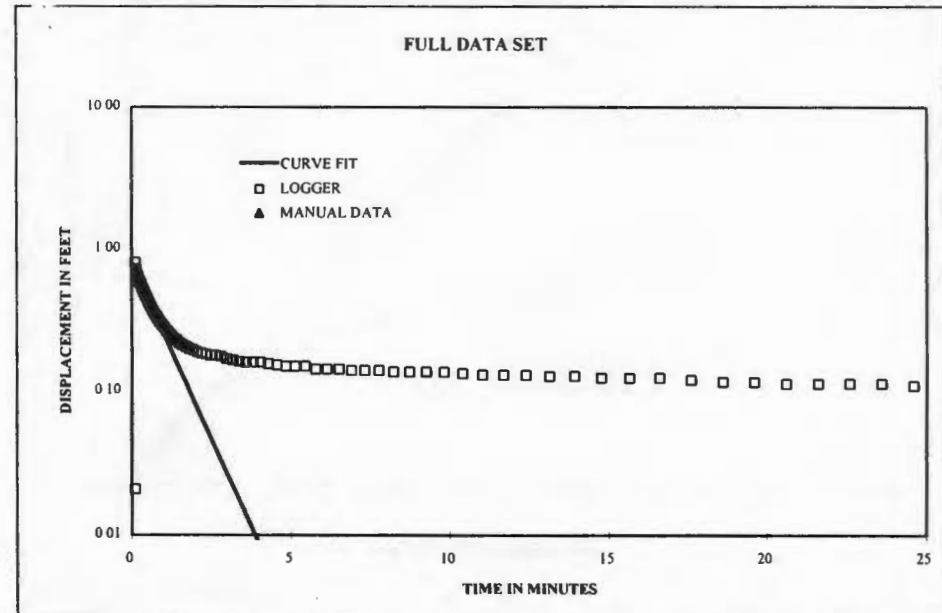
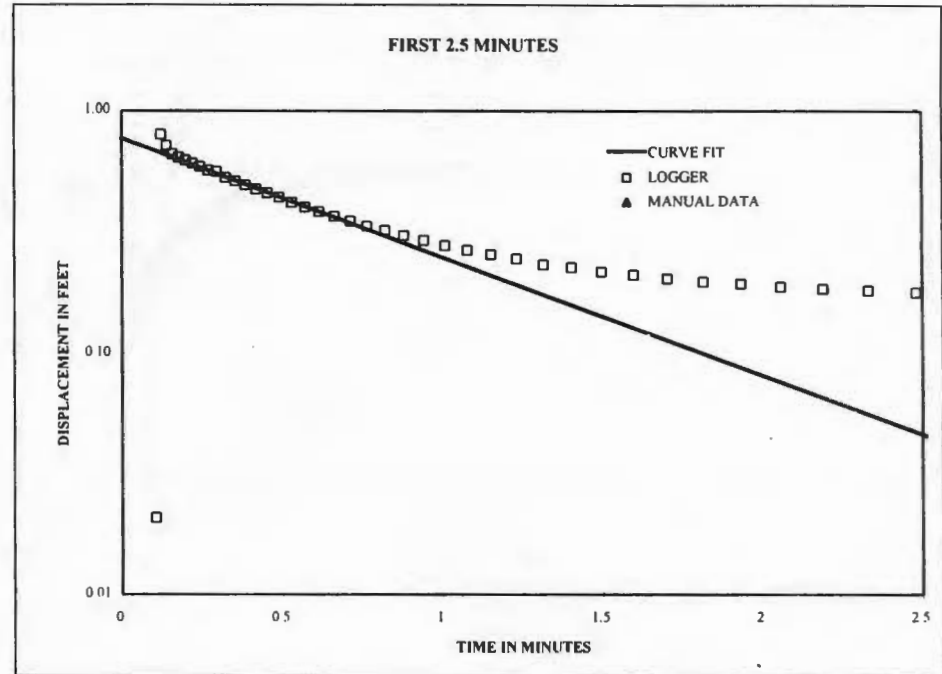
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity

3.54E-03 cm/sec  
 6.98E-03 ft/min  
 10.05 ft/day

Casing stickup	2.59 feet
Static water level (from top of casing)	9.88 feet
Depth to bottom of screen (from ground level)	13.30 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.10 feet
Depth to "impermeable boundary"	14.21 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	0.771 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	4.03 min

Bouwer-Rice Parameters		
feet	cm	cm
7.29	222.20	SW
6.01	183.18	H
6.2	188.98	$T_s$
0.333	10.16	Rw
0.195	5.96	Rc
0.167	5.08	DS
6.01	183.18	L
6.92	210.92	D
0.7712	23.51	$Y_0$
0.0082	0.25	$Y_t$
	242.00	t (seconds)
	0.30	n
		3.5E-03 equation (5)
		18.03 L/Rw
		0.87 H/D
		2.10 A
		0.29 B
		1.50 C
		1.00 $\ln[(D-H)/Rw]$
		1.00 $\ln[(D-H)/Rw]$
		1.95 equation (8)
		2.16 equation (9)
		1.95 $\ln(R_0/R_w)$



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research, vol 12, no. 3, June 1976.

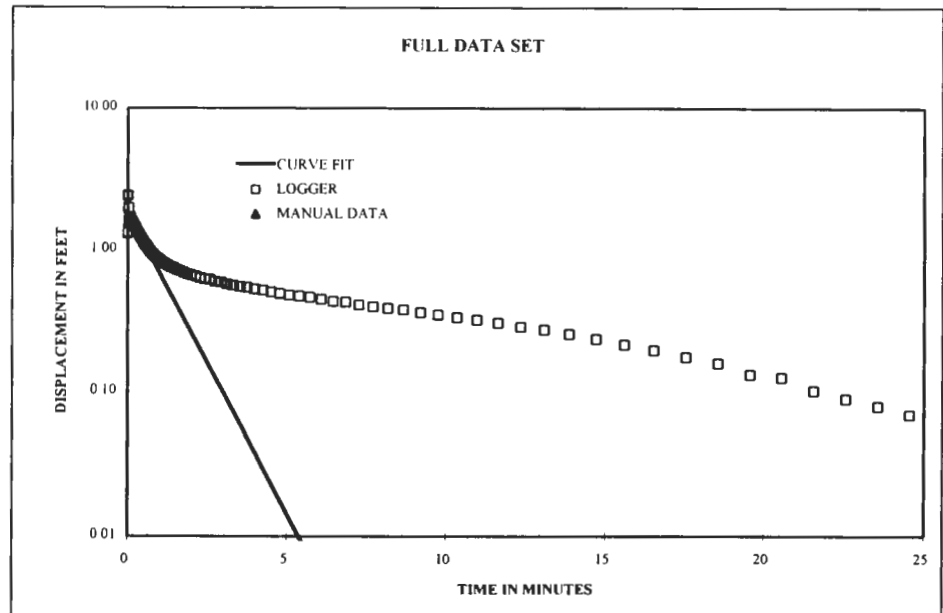
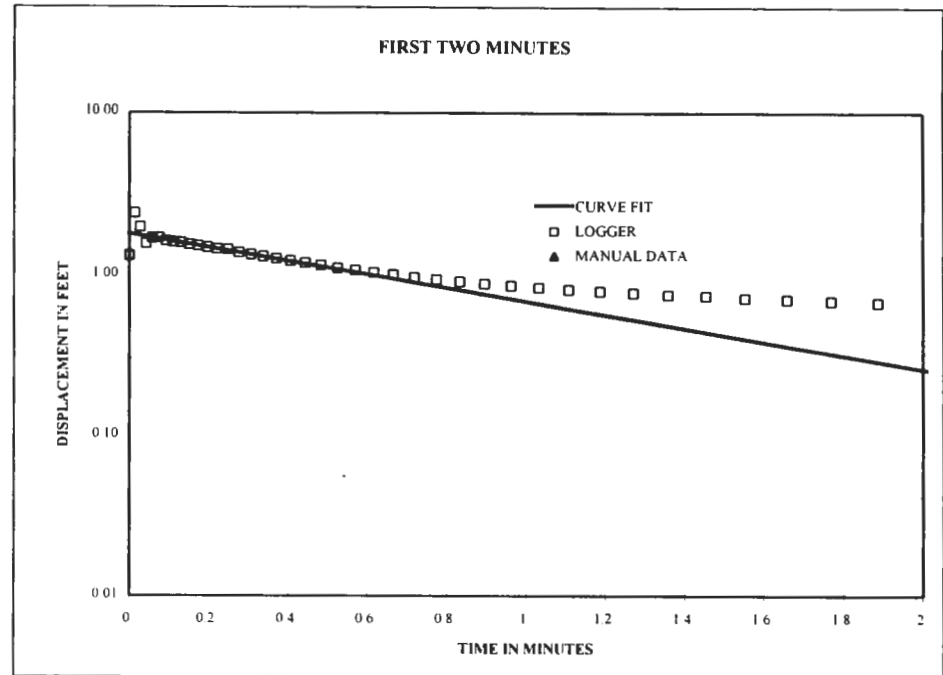
Client: **Seneca Army Depot Activity**  
 Project: **Seneca SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-10**  
 Test Date: **May 5, 1999**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity **4.45E-04 cm/sec**  
**8.75E-04 ft/min**  
**1.26 ft/day**

Casing stickup	2.49 feet
Static water level (from top of casing)	9.38 feet
Depth to bottom of screen (from ground level)	16.50 feet
Boring diameter	8.50 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	10.00 feet
Depth to "impermeable boundary"	17.11 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	1.801 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	5.57 min

Bouwer-Rice Parameters		
feet	cm	cm
6.89	210.01 <i>SW</i>	
9.61	292.91 <i>H</i>	27.13 <i>L/Rw</i>
6.5	198.12 <i>Ts</i>	0.94 <i>H/D</i>
0.354	10.80 <i>Rw</i>	2.30 <i>A</i>
0.083	2.54 <i>Rc</i>	0.33 <i>B</i>
0.167	5.08 <i>DS</i>	1.80 <i>C</i>
9.61	292.91 <i>L</i>	0.54 $\ln[(D-H)/Rw]^*$
10.22	311.51 <i>D</i>	0.54 $\ln[(D-H)/Rw]$
1.80120001	54.90 $Y_0$	2.35 equation (8)
0.0082	0.25 $Y_t$	2.50 equation (9)
	334.20 <i>t (seconds)</i>	2.50 $\ln(R_0/Rw)$
	0.30 <i>n</i>	4.4E-04 equation (5)



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update" Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R. C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976.

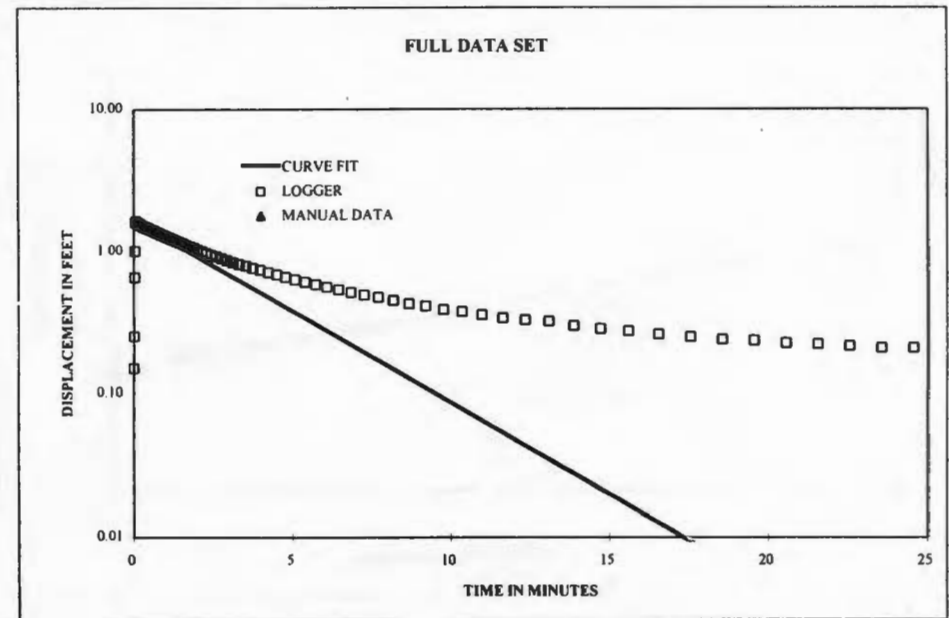
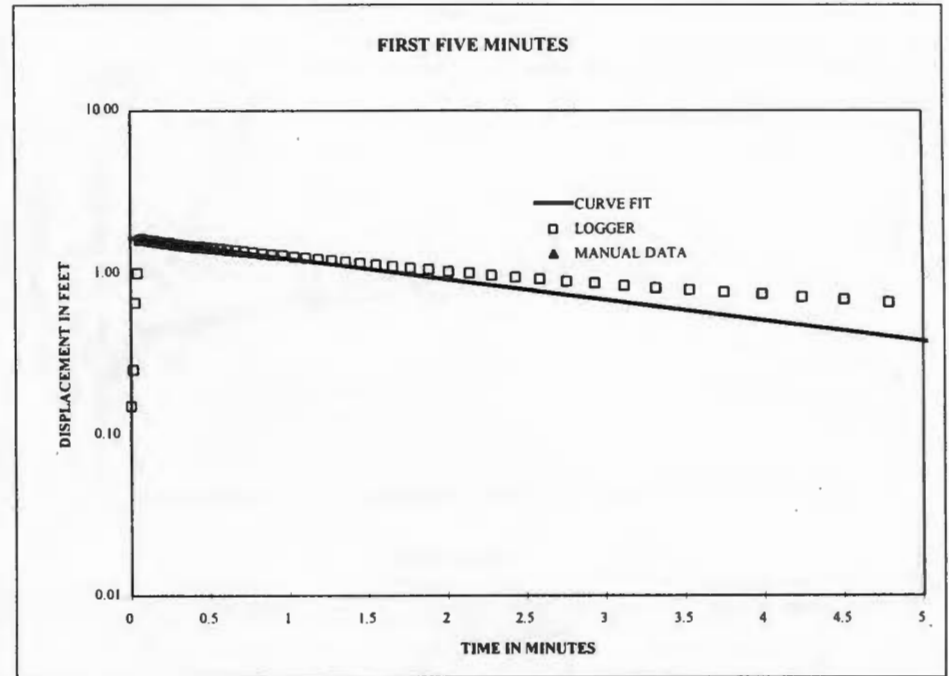
Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-12**  
 Test Date: **May 5, 1999**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity 2.63E-04 cm/sec  
 5.18E-04 ft/min  
 0.75 ft/day

Casing stickup	2.69 feet
Static water level (from top of casing)	6.93 feet
Depth to bottom of screen (from ground level)	12.50 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.00 feet
Depth to "impermeable boundary"	13.00 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	1.650 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	18.00 min

Bouwer-Rice Parameters		
feet	cm	cm
4.24	129.24	SW
8.26	251.76	H
5.5	167.64	$T_s$
0.083	2.54	$R_w$
0.083	2.54	$R_c$
0.167	5.08	$D_S$
7.00	213.36	L
8.76	267.00	b
1.65	50.29	$Y_0$
0.0082	0.25	$Y_t$
	1080.00	$t$ (seconds)
	0.30	n
		2.6E-04 equation (6)
		84.00 $L/R_w$
		0.94 $H/D$
		3.88 A
		0.65 B
		3.60 C
		1.79 $\ln[(D-H)/R_w]'$
		1.79 $\ln[(D-H)/R_w]$
		3.34 equation (8)
		3.54 equation (9)
		3.54 $\ln(R_c/R_w)$



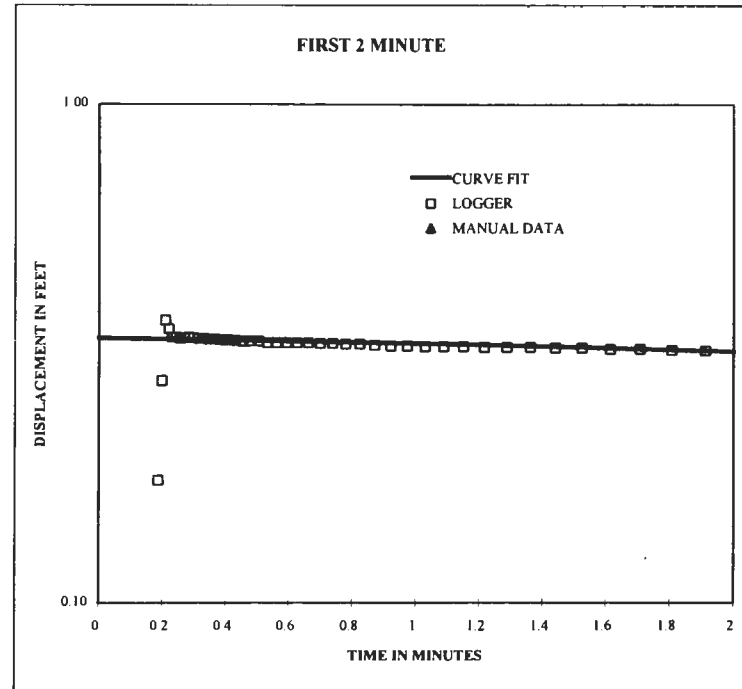
Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research, vol 12, no. 3, June 1976.

Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-13**  
 Test Date: **5/10/99**

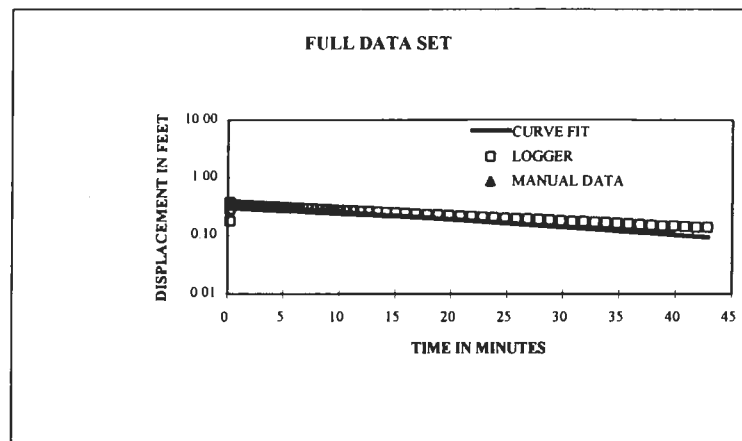
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **2.52E-05 cm/sec**  
**4.95E-05 ft/min**  
**0.07 ft/day**

Casing stickup	2.68 feet
Static water level (from top of casing)	7.27 feet
Depth to bottom of screen (from ground level)	12.50 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.50 feet
Depth to "impermeable boundary"	13.00 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	0.34 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.32 feet
Time	2.00 minutes



Bouwer-Rice Parameters		
feet	cm	cm
4.59	139.90	$SW$
7.91	241.10	$H$ 90.00 $L/Rw$
5	152.40	$Ts$ 0.94 $H/D$
0.083	2.54	$Rw$ 4.00 $A$
0.083	2.54	$Rc$ 0.70 $B$
0.167	5.08	$DS$ 3.75 $C$
7.50	228.60	$L$ 1.79 $\ln[(D-H)/Rw]$
8.41	256.34	$D$ 1.79 $\ln[(D-H)/Rw]$
0.34	10.36	$Y_0$ 3.33 equation (8)
0.32	9.75	$Y_t$ 3.53 equation (9)
	120.00	$t$ (seconds) 3.53 $\ln(Rc/Rw)$
	1.00	$M$ 2.5E-05 equation (6)
	0.30	$n$



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976.

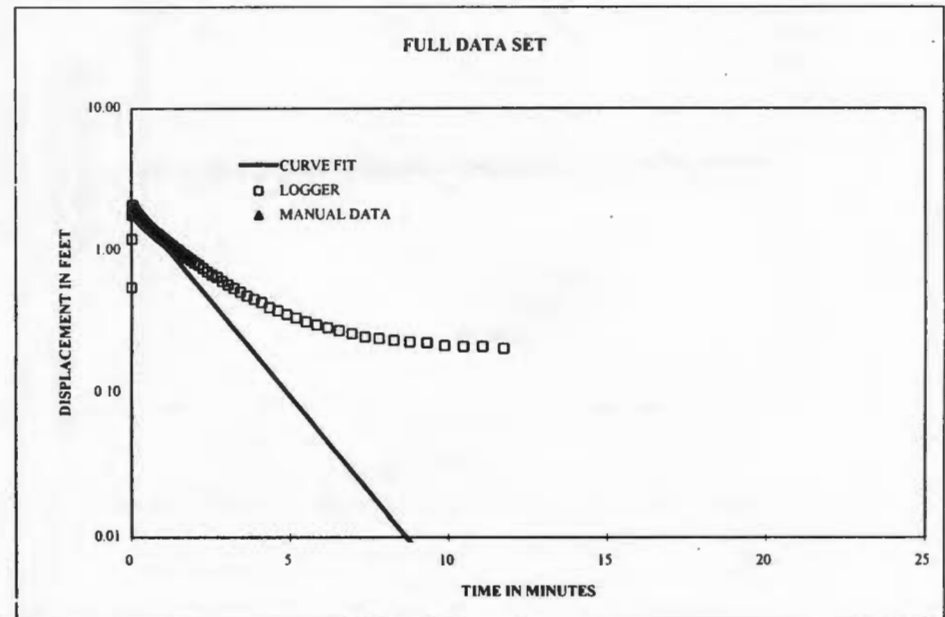
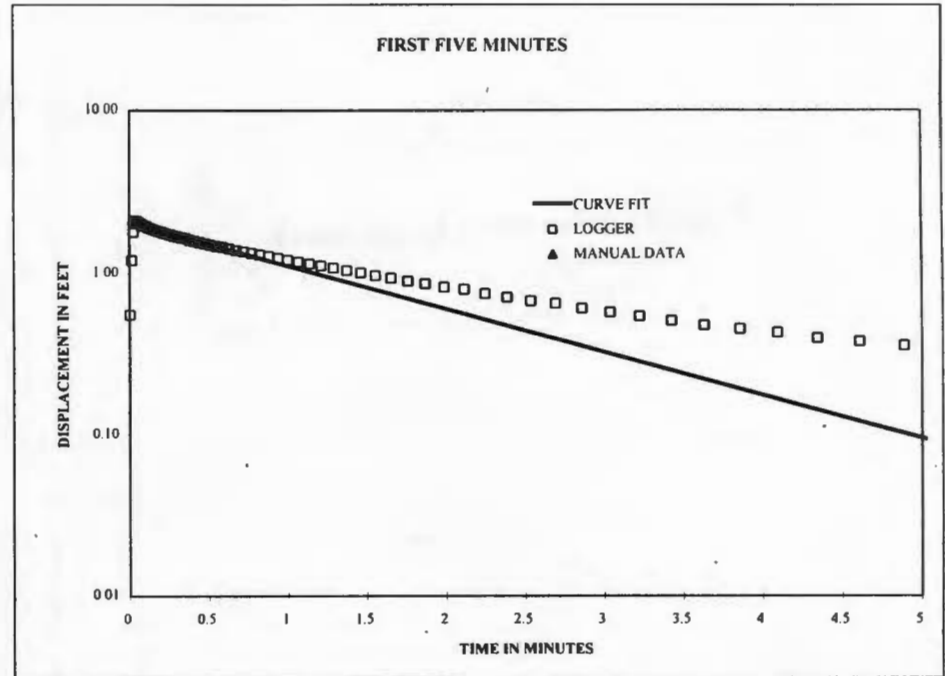
Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-14**  
 Test Date: **May 10, 1999**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity **5.89E-04 cm/sec**  
**1.16E-03 ft/min**  
**1.67 ft/day**

Casing stickup	2.65 feet
Static water level (from top of casing)	5.24 feet
Depth to bottom of screen (from ground level)	13.10 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	6.80 feet
Depth to "impermeable boundary"	14.00 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	2.050 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	9.00 min

Bower-Rice Parameters		
feet	cm	cm
2.59	78.94	SW
10.51	320.34	H
6.3	192.02	$T_s$
0.083	2.54	Rw
0.083	2.54	Rc
0.167	5.08	DS
6.80	207.26	L
11.41	347.78	D
2.05	62.48	$Y_0$
0.0082	0.25	$Y_t$
	540.00	t(seconds)
	0.30	n
		5.9E-04 equation (5)
		2.38 $\ln[(D-H)/Rw]$
		2.38 $\ln[(D-H)/Rw]$
		3.41 equation (8)
		3.70 equation (9)
		3.70 $\ln(Rc/Rw)$



Bowser, Herman 1989. "The Bowser and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bowser, H and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research. vol 12, no. 3, June 1976.



Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-15**  
 Test Date: **May 10, 1999**

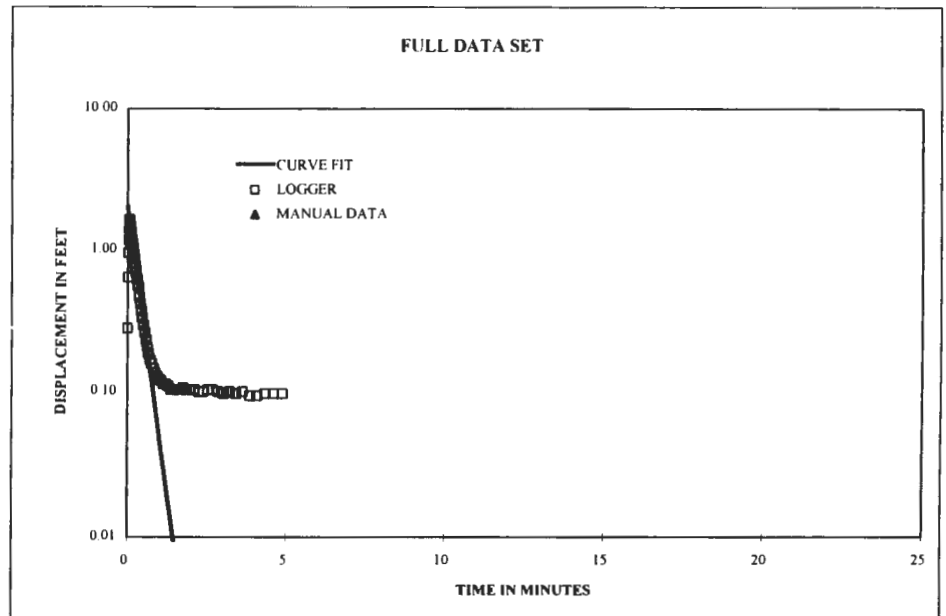
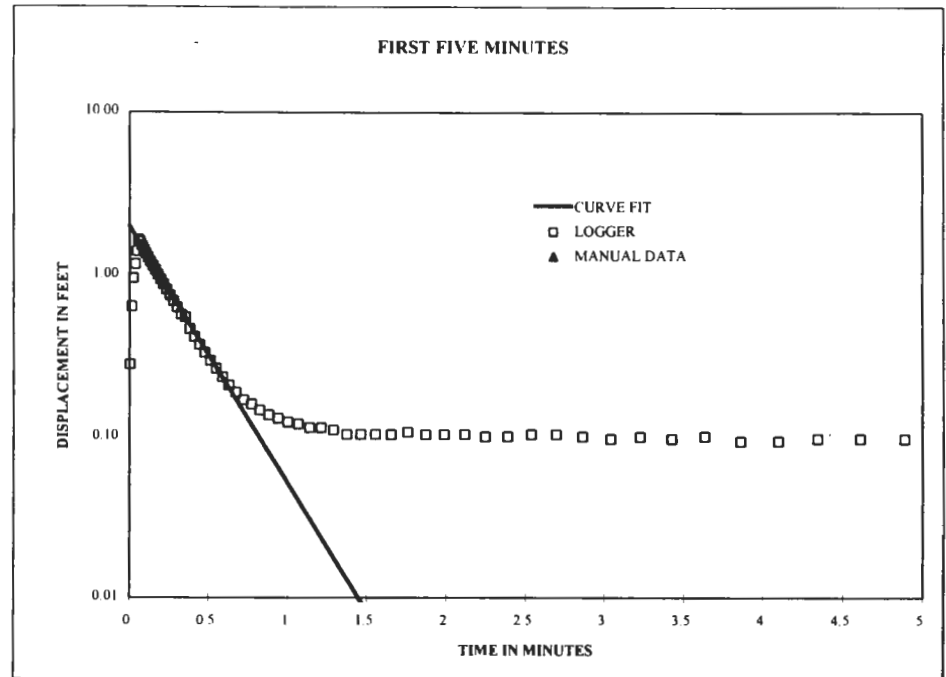
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:

Hydraulic conductivity 3.31E-03 cm/sec  
6.52E-03 ft/min  
9.38 ft/day

Casing stickup	2.60 feet
Static water level (from top of casing)	4.54 feet
Depth to bottom of screen (from ground level)	12.04 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.20 feet
Depth to "impermeable boundary"	12.54 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	2.000 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	1.50 min

Bouwer-Rice Parameters		
feet	cm	cm
1.94	59.13	SW
10.1	307.85	H
4.84	147.52	$T_s$
0.083	2.54	$R_w$
0.083	2.54	$R_c$
0.167	5.08	$D_S$
7.20	219.46	L
10.6	323.09	D
2	60.96	$Y_0$
0.0082	0.25	$Y_t$
	90.00	$t$ (seconds)
	0.30	n
		3.3E-03 equation (6)
		86.40 $L/R_w$
		0.95 $H/D$
		3.90 A
		0.65 B
		3.63 C
		1.79 $\ln[(D-H)/R_w]$
		1.79 $\ln[(D-H)/R_w]$
		3.47 equation (8)
		3.69 equation (9)
		3.69 $\ln(R_c/R_w)$



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research. vol 12, no. 3, June 1976

Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-17**  
 Test Date: **May 10, 1999**

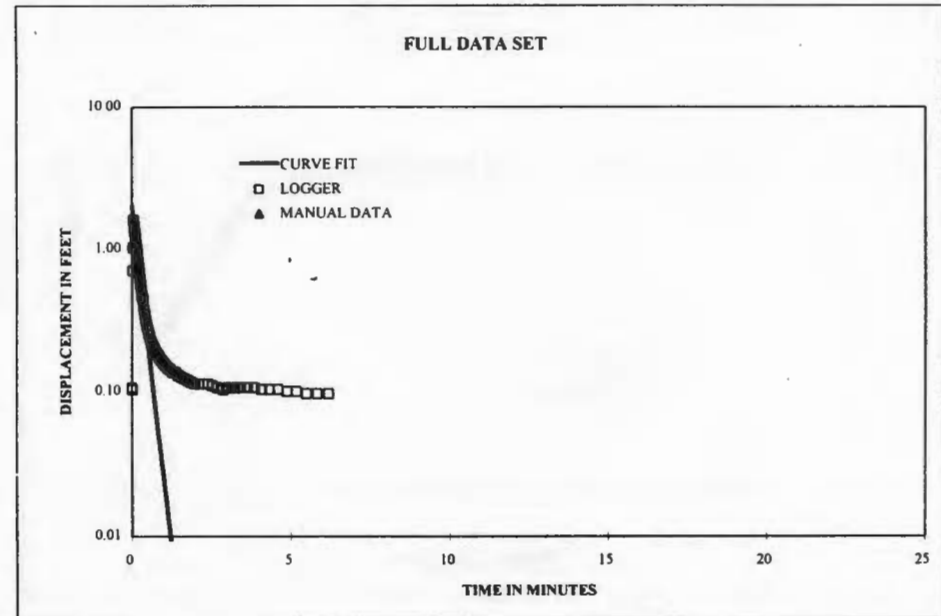
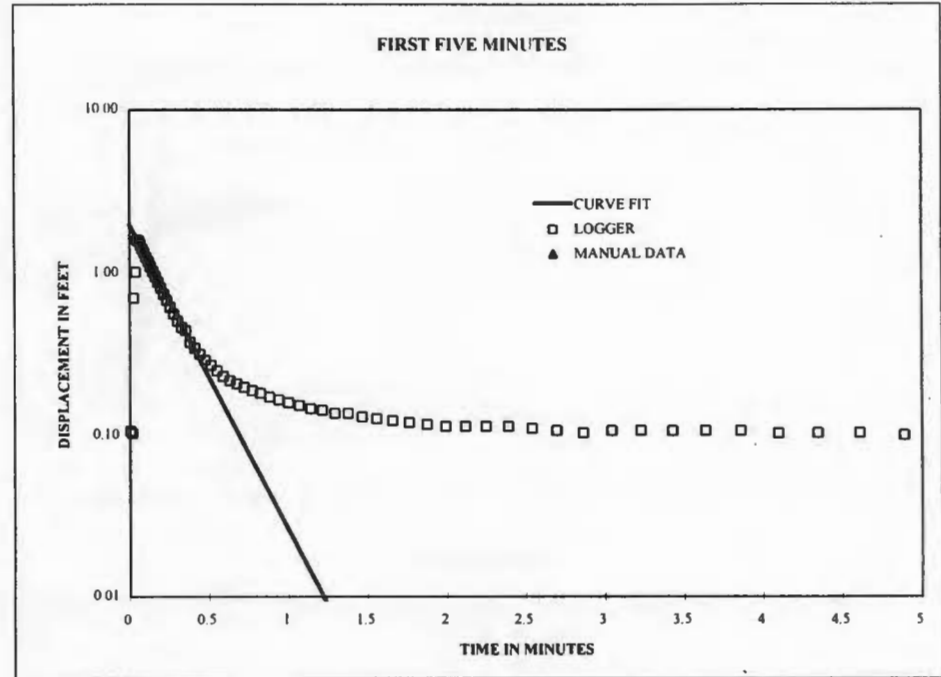
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:

Hydraulic conductivity 1.24E-02 cm/sec  
2.44E-02 ft/min  
35.14 ft/day

Casing stickup	2.78 feet
Static water level (from top of casing)	12.05 feet
Depth to bottom of screen (from ground level)	17.60 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	8.33 feet
Depth to "impermeable boundary"	18.40 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	2.000 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	1.26 min

Bouwer-Rice Parameters		
feet	cm	cm
9.27	282.55	SW
8.33	253.90	H
9.27	282.55	$T_s$
0.333	10.16	Rw
0.195	5.96	Rc
0.167	5.08	DS
8.33	253.90	L
9.13	278.28	D
2	60.96	$Y_0$
0.0082	0.25	$Y_t$
	75.60	t (seconds)
	0.30	n
		1.2E-02 equation (5)
		0.88 $\ln[(D-H)/Rw]'$
		0.88 $\ln[(D-H)/Rw]$
		2.26 equation (8)
		2.44 equation (9)
		2.44 $\ln(Rc/Rw)$



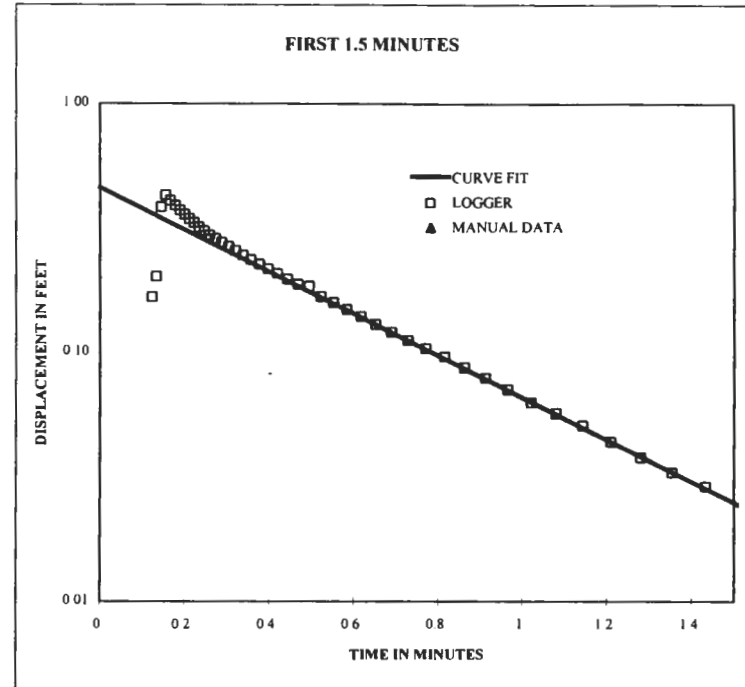
Bouwer, Herman 1989 "The Bouwer and Rice Slug Test - An Update". Ground Water vol 27, no. 3, May-June 1989  
 Bouwer, H and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976.

Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-18**  
 Test Date: **5/10/99**

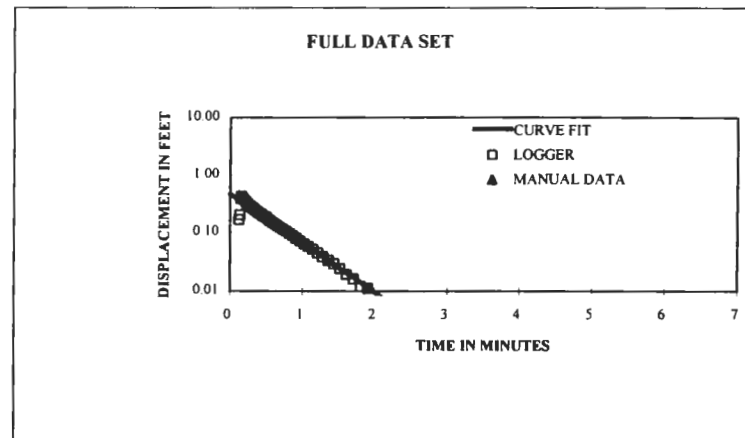
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **1.66E-03 cm/sec**  
**3.27E-03 ft/min**  
**4.70 ft/day**

Casing stickup	2.55 feet
Static water level (from top of casing)	8.59 feet
Depth to bottom of screen (from ground level)	14.00 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.30 feet
Depth to "impermeable boundary"	14.50 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	0.46 feet
$\Delta H$ at time t ( $Y_t$ )	0.03 feet
Time	1.50 minutes



Bouwer-Rice Parameters			
feet	cm		cm
6.04	184.10	<i>SW</i>	
7.96	242.62	<i>H</i>	87.60 <i>L/Rw</i>
6.7	204.22	<i>Ts</i>	0.94 <i>H/D</i>
0.083	2.54	<i>Rw</i>	3.90 <i>A</i>
0.083	2.54	<i>Rc</i>	0.65 <i>B</i>
0.167	5.08	<i>DS</i>	3.63 <i>C</i>
7.30	222.50	<i>L</i>	1.79 $\ln\{(D-H)/Rw\}$
8.46	257.86	<i>D</i>	1.79 $\ln\{(D-H)/Rw\}$
0.46	14.02	$Y_0$	3.34 equation (8)
0.025	0.76	$Y_t$	3.54 equation (9)
	90.00	<i>t (seconds)</i>	3.54 $\ln(Rw/Rw)$
	1.00	<i>M</i>	1.7E-03 equation (5)
	0.30	<i>n</i>	



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976

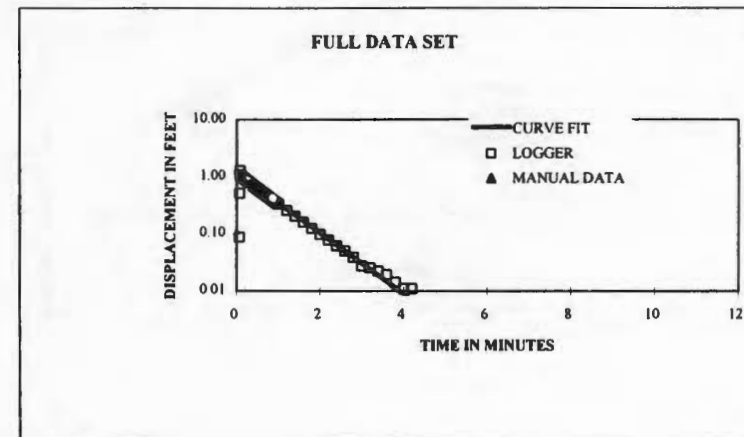
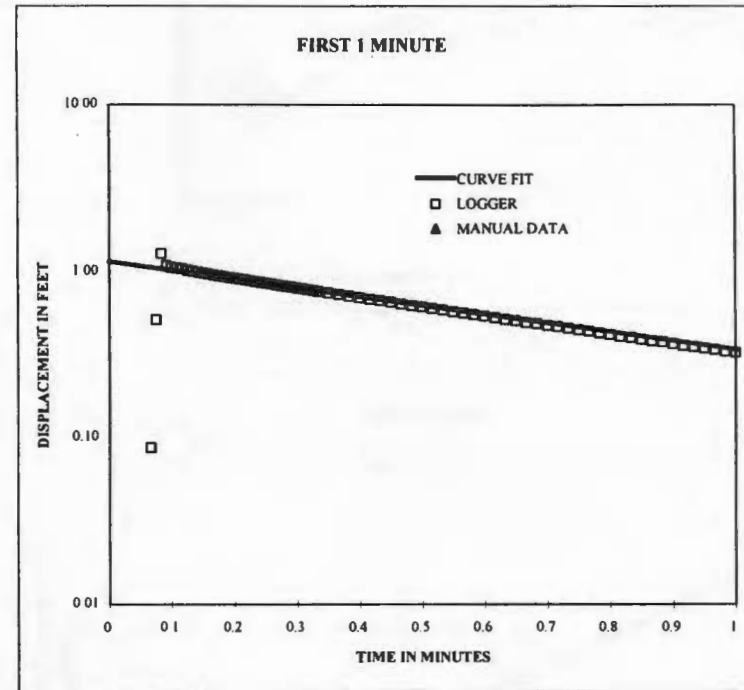
Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-19**  
 Test Date: **5/10/98**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **1.50E-03 cm/sec**  
**2.94E-03 ft/min**  
**4.24 ft/day**

Casing stickup	2.10 feet
Static water level (from top of casing)	5.71 feet
Depth to bottom of screen (from ground level)	10.50 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	4.80 feet
Depth to "impermeable boundary"	11.00 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	1.15 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.01 feet
Time	3.70 minutes

Bouwer-Rice Parameters		
feet	cm	cm
3.61	110.03	<i>SW</i>
6.89	210.01	<i>H</i> 57.60 <i>L/Rw</i>
5.7	173.74	<i>Ts</i> 0.93 <i>H/D</i>
0.083	2.54	<i>Rw</i> 3.20 <i>A</i>
0.083	2.54	<i>Rc</i> 0.48 <i>B</i>
0.167	5.08	<i>DS</i> 2.80 <i>C</i>
4.80	146.30	<i>L</i> 1.79 $\ln[(D-H)/Rw]$
7.39	225.25	<i>D</i> 1.79 $\ln[(D-H)/Rw]$
1.15	35.05	$Y_0$ 3.13 equation (8)
0.013	0.40	$Y_t$ 3.36 equation (9)
	222.00	<i>t (seconds)</i> 3.36 $\ln(Rw/Rw)$
		1.00 <i>M</i> 1.5E-03 equation (5)
	0.30	<i>n</i>



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976.

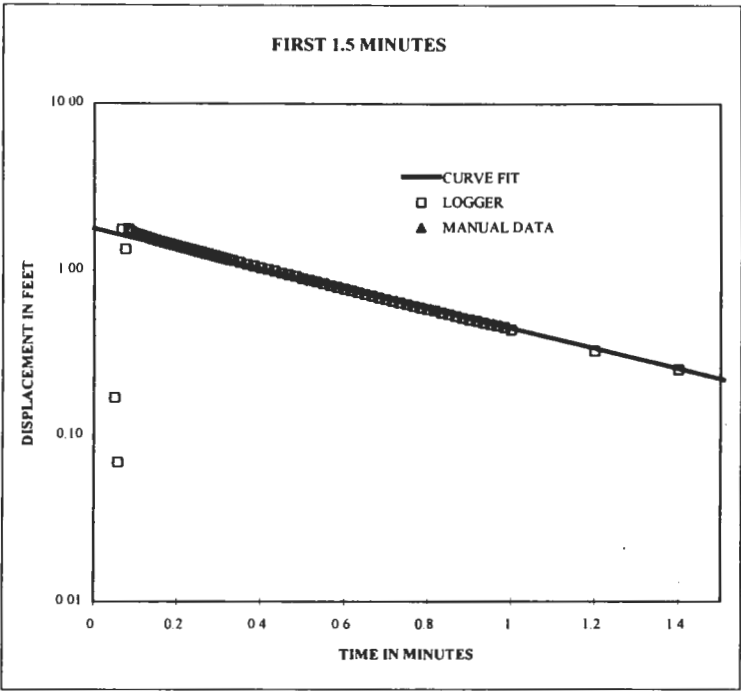
Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-20**  
 Test Date: **5/9/99**

Formation Tested: **Till**

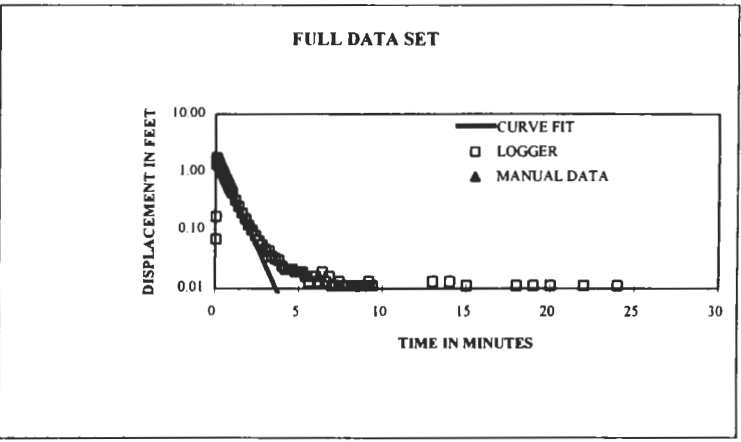
Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **1.35E-03 cm/sec**  
**2.65E-03 ft/min**  
**3.82 ft/day**

Casing stickup	2.55 feet
Static water level (from top of casing)	5.30 feet
Depth to bottom of screen (from ground level)	13.70 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.00 feet
Depth to "impermeable boundary"	14.40 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	1.78 feet
$\Delta H$ at time t ( $Y_t$ )	0.02 feet
Time	3.20 minutes



Bouwer-Rice Parameters		
feet	cm	cm
2.75	83.82	<i>SW</i>
10.95	333.76	<i>H</i>
6.7	204.22	<i>Ts</i>
0.083	2.54	<i>Rw</i>
0.083	2.54	<i>Rc</i>
0.167	5.08	<i>DS</i>
7.00	213.36	<i>L</i>
11.65	355.09	<i>D</i>
1.78	54.25	$Y_0$
0.018	0.55	$Y_t$
	192.00	<i>t (seconds)</i>
	1.00	<i>M</i>
	0.30	<i>n</i>
		84.00 <i>L/Rw</i>
		0.94 <i>H/D</i>
		3.88 <i>A</i>
		0.65 <i>B</i>
		3.60 <i>C</i>
		2.13 $\ln[(D-H)/Rw]^*$
		2.13 $\ln[(D-H)/Rw]$
		3.47 equation (8)
		3.73 equation (9)
		3.73 $\ln(Rc/Rw)$
		1.3E-03 equation (5)



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update" Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research. vol 12, no. 3, June 1976.

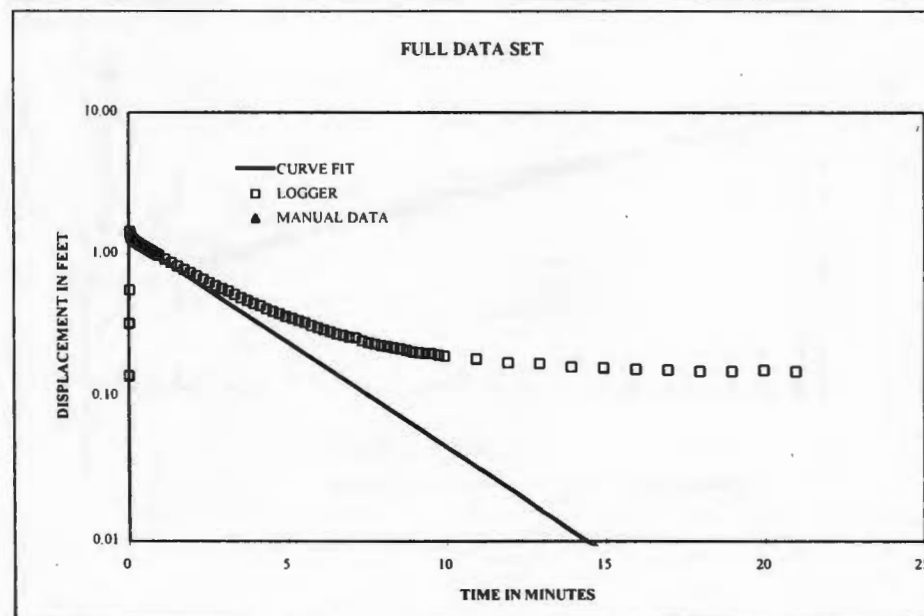
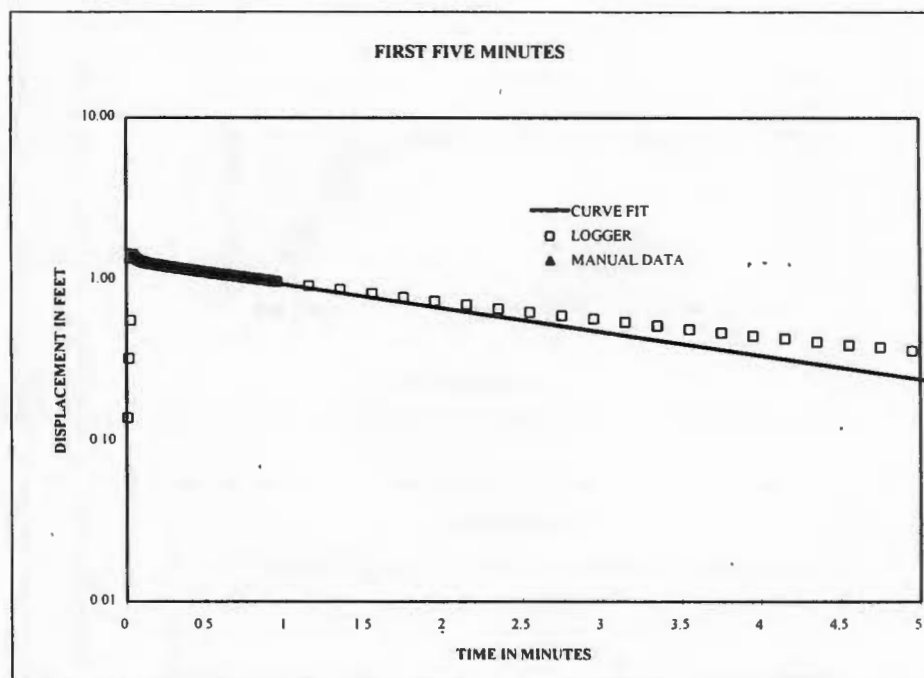
Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-21**  
 Test Date: **May 10, 1999**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:  
 Hydraulic conductivity **4.26E-04 cm/sec**  
**8.39E-04 ft/min**  
**1.21 ft/day**

Casing stickup	2.91 feet
Static water level (from top of casing)	5.85 feet
Depth to bottom of screen (from ground level)	10.35 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	4.75 feet
Depth to "impermeable boundary"	10.79 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	1.300 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	15.00 min

Bouwer-Rice Parameters		
feet	cm	cm
2.94	89.61 <i>SW</i>	
7.41	225.86 <i>H</i>	57.00 <i>L/Rw</i>
5.6	170.69 <i>Ts</i>	0.94 <i>H/D</i>
0.083	2.54 <i>Rw</i>	3.20 <i>A</i>
0.083	2.54 <i>Rc</i>	0.48 <i>B</i>
0.167	5.08 <i>DS</i>	2.80 <i>C</i>
4.75	144.78 <i>L</i>	1.66 $\ln[(D-H)/Rw]$
7.85	239.27 <i>D</i>	1.66 $\ln[(D-H)/Rw]$
1.3	39.62 $Y_0$	3.17 equation (8)
0.0082	0.25 $Y_t$	3.40 equation (9)
	900.00 <i>t (seconds)</i>	3.40 $\ln(Ra/Rw)$
	0.30 <i>n</i>	4.3E-04 equation (5)



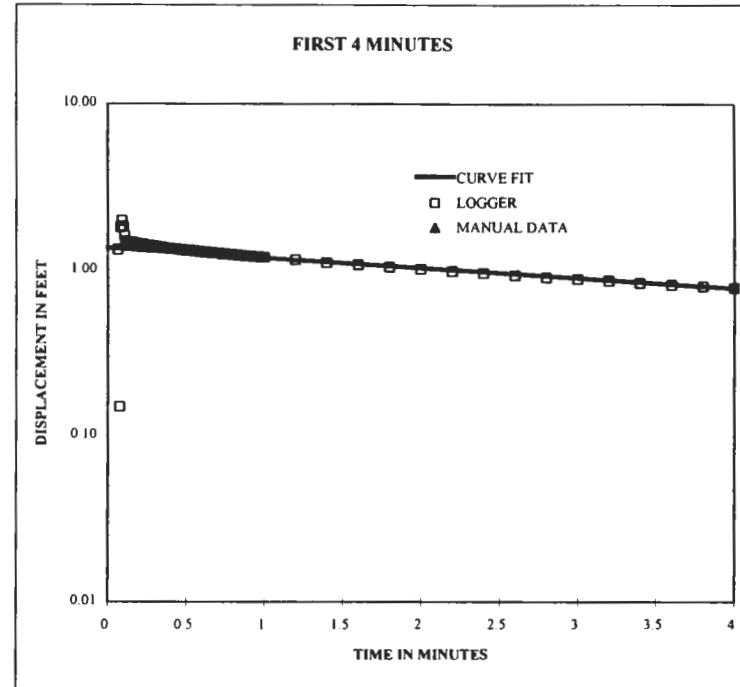
Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research. vol 12, no. 3, June 1976.

Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-22**  
 Test Date: **5/9/99**

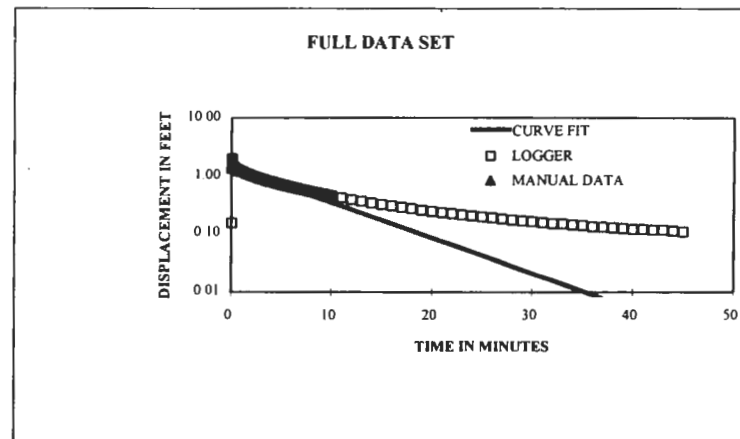
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **1.34E-04 cm/sec**  
**2.64E-04 ft/min**  
**0.38 ft/day**

Casing stickup	3.12 feet
Static water level (from top of casing)	5.40 feet
Depth to bottom of screen (from ground level)	12.10 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	6.70 feet
Depth to "impermeable boundary"	12.60 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	1.36 feet
$\Delta H$ at time t ( $Y_t$ )	0.06 feet
Time	23.00 minutes



Bouwer-Rice Parameters		
feet	cm	cm
2.28	69.49	SW
9.82	299.31	H
5.4	164.59	$T_s$
0.083	2.54	$R_w$
0.083	2.54	$R_c$
0.167	5.08	$D_S$
6.70	204.22	L
10.32	314.55	D
1.36	41.45	$Y_0$
0.055	1.68	$Y_t$
	1380.00	t (seconds)
	1.00	M
	0.30	n
		80.40
		L/Rw
		0.95
		H/D
		3.80
		A
		0.65
		B
		3.50
		C
		1.79
		$\ln[(D-H)/R_w]$
		1.79
		$\ln[(D-H)/R_w]$
		3.42
		equation (8)
		3.65
		equation (9)
		3.65
		$\ln(R_c/R_w)$
		1.3E-04
		equation (5)



Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research. vol 12, no. 3, June 1976.

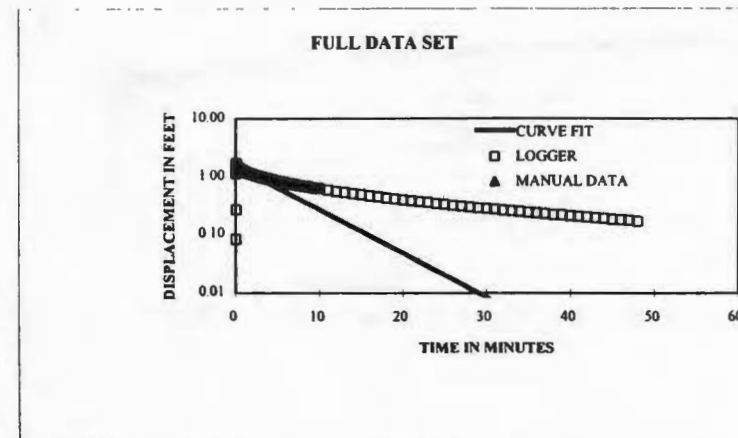
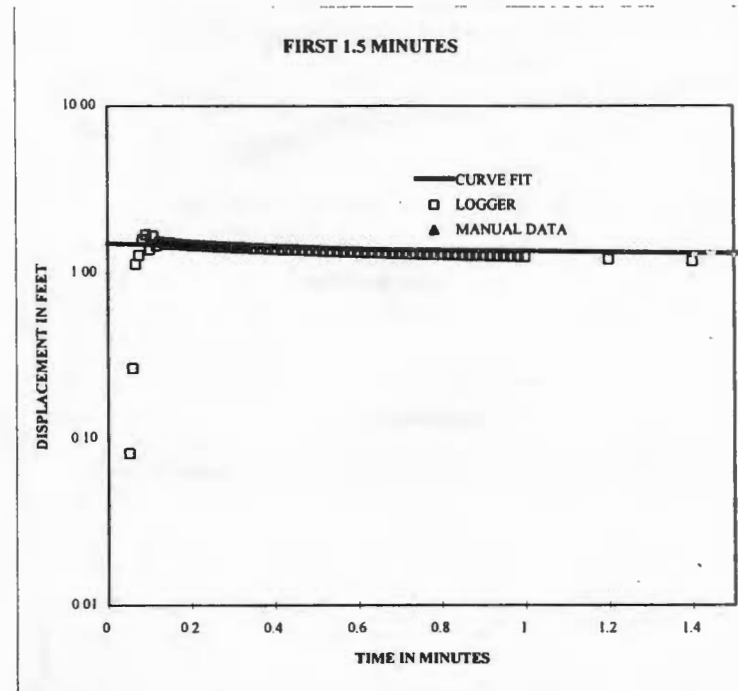
Client: Seneca Army Depot  
 Project: SEAD-12 RI/FS  
 Project No.: 730047-01001  
 Well No.: MW12-23  
 Test Date: 5/10/99

Formation Tested: Till  
 Rising (R) or Falling (F) Head Test: R

Hydraulic conductivity 1.57E-04 cm/sec  
 3.09E-04 ft/min  
 0.44 ft/day

Casing stickup	2.36 feet
Static water level (from top of casing)	4.71 feet
Depth to bottom of screen (from ground level)	12.70 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.20 feet
Depth to "impermeable boundary"	13.30 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	1.50 feet
$\Delta H$ at time t ( $Y_t$ )	0.55 feet
Time	5.80 minutes

Bower-Rice Parameters		
feet	cm	cm
2.35	71.63	SW
10.35	315.47	H
5.5	167.64	$T_s$
0.083	2.54	Rw
0.083	2.54	Rc
0.167	5.08	DS
7.20	219.46	L
10.95	333.76	D
1.5	45.72	$Y_0$
0.55	16.76	$Y_t$
	348.00	t (seconds)
	1.00	M
	0.30	n
		86.40 L/Rw
		0.95 H/D
		3.90 A
		0.65 B
		3.63 C
		1.97 $\ln[(D-H)/Rw]^2$
		1.97 $\ln[(D-H)/Rw]$
		3.47 equation (8)
		3.70 equation (9)
		3.70 $\ln(Rc/Rw)$
		1.6E-04 equation (5)



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research. vol 12, no 3, June 1976.



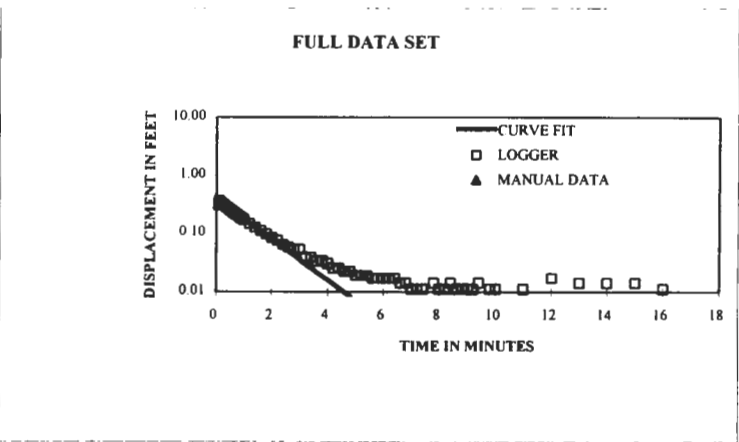
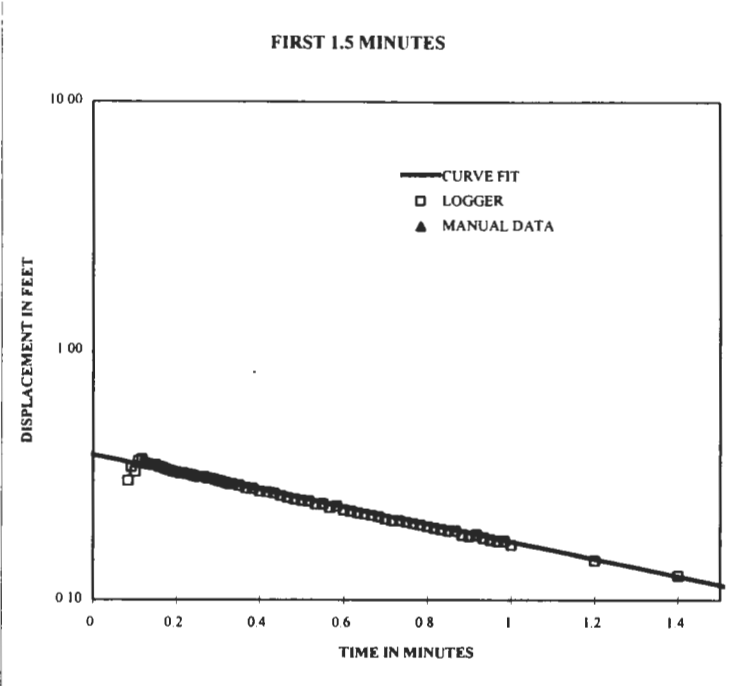
Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-25**  
 Test Date: **5/9/99**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **9.29E-04 cm/sec**  
**1.83E-03 ft/min**  
**2.63 ft/day**

Casing stickup	2.78	feet
Static water level (from top of casing)	6.95	feet
Depth to bottom of screen (from ground level)	9.80	feet
Boring diameter	8.00	inches
Casing diameter	2.00	inches
Screen diameter	2.00	inches
Screen length	4.90	feet
Depth to "impermeable boundary"	10.30	feet
Estimated ratio of Kh/Kv	1.00	
Porosity of filter pack	0.30	
$\Delta H$ at time zero ( $Y_0$ )	0.38	feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.12	feet
Time	1.50	minutes

Bouwer-Rice Parameters		
feet	cm	cm
4.17	127.10	$SW$
5.63	171.60	$H$
4.9	149.35	$T_s$
0.083	2.54	$R_w$
0.083	2.54	$R_c$
0.167	5.08	$DS$
4.90	149.35	$L$
6.13	186.84	$D$
0.38	11.58	$Y_0$
0.115	3.51	$Y_t$
	90.00	$t$ (seconds)
	1.00	$M$
	0.30	$n$
		58.80 $L/R_w$
		0.92 $H/D$
		3.20 $A$
		0.48 $B$
		2.80 $C$
		1.79 $\ln[(D-H)/R_w]$
		1.79 $\ln[(D-H)/R_w]$
		3.03 equation (8)
		3.24 equation (9)
		3.24 $\ln(R_c/R_w)$
		9.3E-04 equation (5)



Bouwer, Herman 1989 "The Bouwer and Rice Slug Test - An Update" Ground Water vol. 27, no 3, May-June 1989.  
 Bouwer, H. and R.C. Rice 1976 A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research. vol 12, no 3, June 1976.

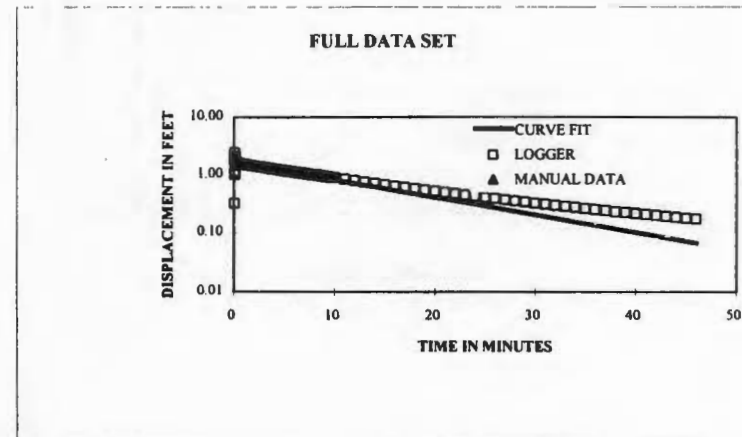
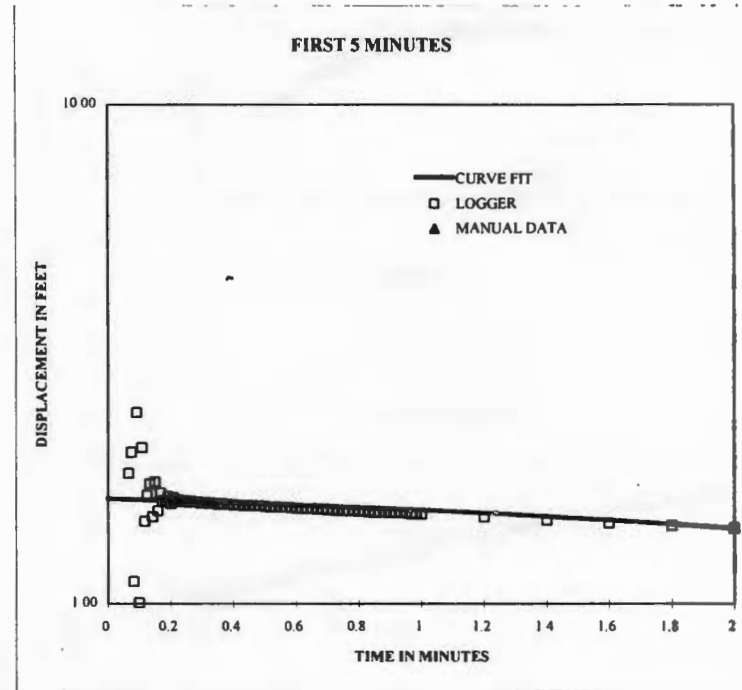
Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-30**  
 Test Date: **5/10/99**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **6.37E-05 cm/sec**  
**1.25E-04 ft/min**  
**0.18 ft/day**

Casing stickup	2.30 feet
Static water level (from top of casing)	4.55 feet
Depth to bottom of screen (from ground level)	13.30 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	7.20 feet
Depth to "impermeable boundary"	14.10 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	1.62 feet
$\Delta H$ at time $t$ ( $Y_t$ )	1.41 feet
Time	2.00 minutes

Bouwer-Rice Parameters		
feet	cm	cm
2.25	68.58	<i>SW</i>
11.05	336.80	<i>H</i> 86.40 <i>L/Rw</i>
6.1	185.93	<i>Ts</i> 0.93 <i>H/D</i>
0.083	2.54	<i>Rw</i> 3.90 <i>A</i>
0.083	2.54	<i>Rc</i> 0.65 <i>B</i>
0.167	5.08	<i>DS</i> 3.63 <i>C</i>
7.20	219.46	<i>L</i> 2.26 $\ln[(D-H)/Rw]$
11.85	361.19	<i>D</i> 2.26 $\ln[(D-H)/Rw]$
1.62	49.38	$Y_0$ 3.48 equation (8)
1.41	42.98	$Y_t$ 3.74 equation (9)
	120.00	<i>t</i> (seconds) 3.74 $\ln(Rw/Rw)$
	1.00	<i>M</i> 6.4E-05 equation (5)
	0.30	<i>n</i>



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976.

Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-33**  
 Test Date: **May 9, 1999**

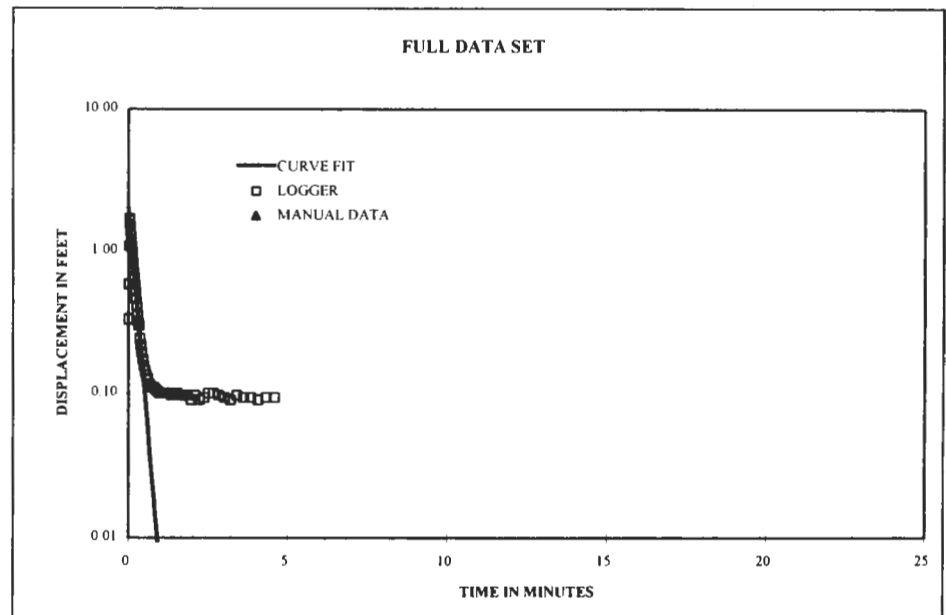
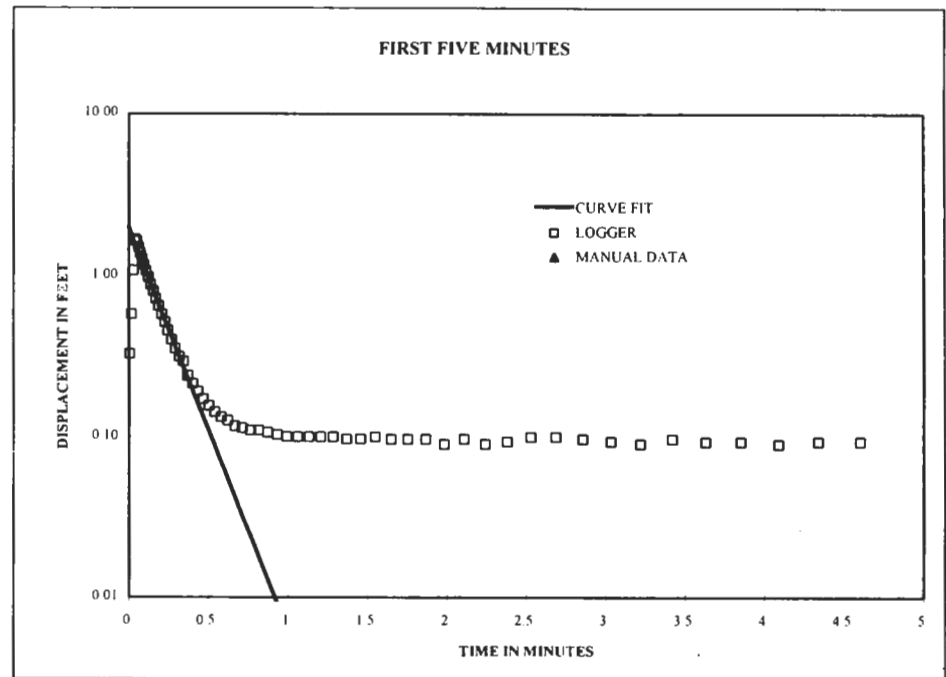
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

Logger Data File:

Hydraulic conductivity 5.04E-03 cm/sec  
9.92E-03 ft/min  
14.29 ft/day

Casing stickup	2.84 feet
Static water level (from top of casing)	6.61 feet
Depth to bottom of screen (from ground level)	12.55 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	6.55 feet
Depth to "impermeable boundary"	15.04 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	2.000 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	0.95 min

Bouwer-Rice Parameters		
feet	cm	cm
3.77	114.91 <i>SW</i>	
8.78	267.61 <i>H</i>	78.60 <i>L/Rw</i>
6	182.88 <i>Ts</i>	0.78 <i>H/D</i>
0.083	2.54 <i>Rw</i>	3.70 <i>A</i>
0.083	2.54 <i>Rc</i>	0.60 <i>B</i>
0.167	5.08 <i>DS</i>	3.40 <i>C</i>
6.55	199.64 <i>L</i>	3.40 $\ln[(D-H)/Rw]^*$
11.27	343.51 <i>D</i>	3.40 $\ln[(D-H)/Rw]$
2	60.96 $Y_0$	3.23 equation (8)
0.0082	0.25 $Y_t$	3.58 equation (9)
	57.00 <i>t (seconds)</i>	3.23 $\ln(Rc/Rw)$
	0.30 <i>n</i>	5.0E-03 equation (5)



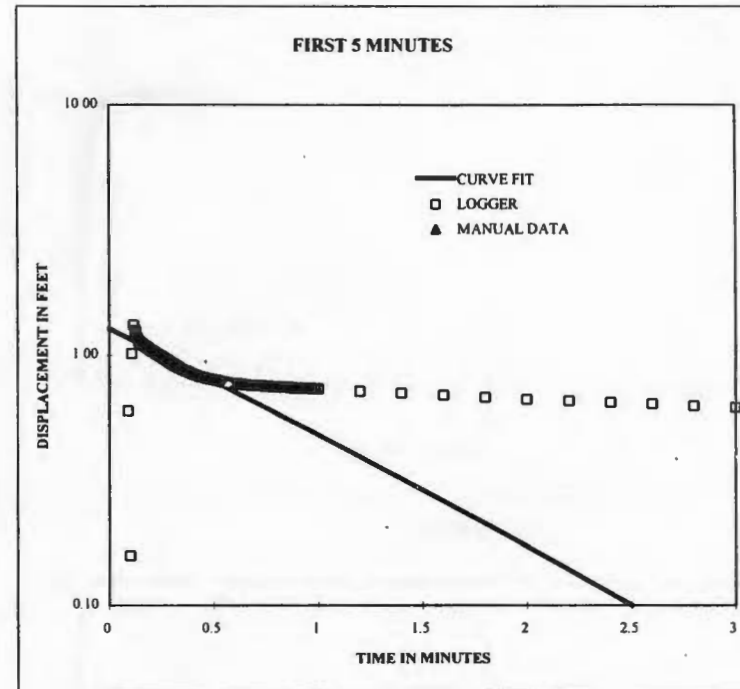
Bouwer, Herman 1989. "The Bouwer and Rice Slug Test - An Update" Ground Water vol 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells" Water Resources Research vol 12, no. 3, June 1976.

Client: **Seneca Army Depot**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-38**  
 Test Date: **5/10/99**

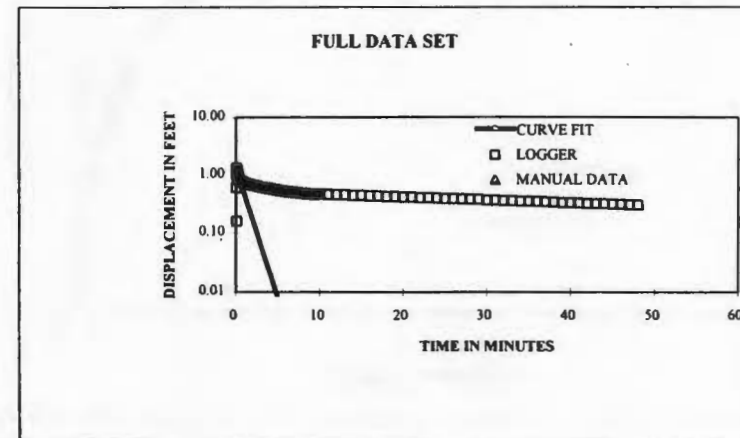
Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **R**

Hydraulic conductivity **1.18E-03 cm/sec**  
**2.33E-03 ft/min**  
**3.35 ft/day**

Casing stickup	0.05 feet
Static water level (from top of casing)	4.55 feet
Depth to bottom of screen (from ground level)	10.00 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	4.90 feet
Depth to "impermeable boundary"	10.50 feet
Estimated ratio of Kh/Kv	1.00
Porosity of filter pack	0.30
$\Delta H$ at time zero ( $Y_0$ )	1.28 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.10 feet
Time	2.50 minutes



Bouwer-Rice Parameters		
feet	cm	cm
4.5	137.16	<i>SW</i>
5.5	167.64	<i>H</i>
5.1	155.45	<i>Ts</i>
0.083	2.54	<i>Rw</i>
0.083	2.54	<i>Rc</i>
0.167	5.08	<i>DS</i>
4.90	149.35	<i>L</i>
6	182.88	<i>D</i>
1.28	39.01	<i>Y<sub>0</sub></i>
0.1	3.05	<i>Y<sub>t</sub></i>
	150.00	<i>t (seconds)</i>
	1.00	<i>M</i>
	0.30	<i>n</i>
		58.80 <i>L/Rw</i>
		0.92 <i>H/D</i>
		3.20 <i>A</i>
		0.48 <i>B</i>
		2.80 <i>C</i>
		1.79 $\ln[(D-H)/Rw]$
		1.79 $\ln[(D-H)/Rw]$
		3.02 equation (8)
		3.22 equation (9)
		3.22 $\ln(Rc/Rw)$
		1.2E-03 equation (5)



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989.  
 Bouwer, H. and R.C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completeness or Partially Penetrating Wells". Water Resources Research. vol 12, no. 3, June 1976.

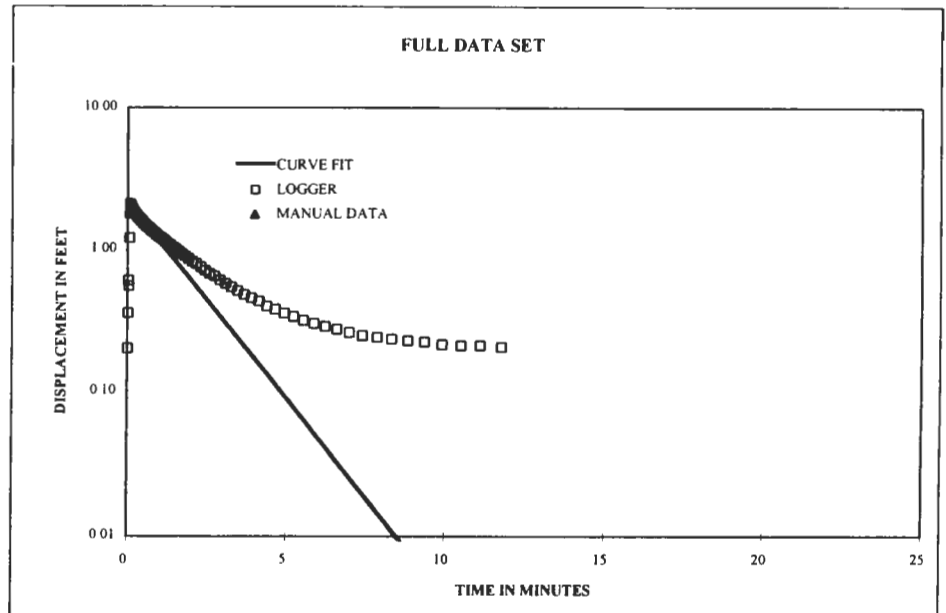
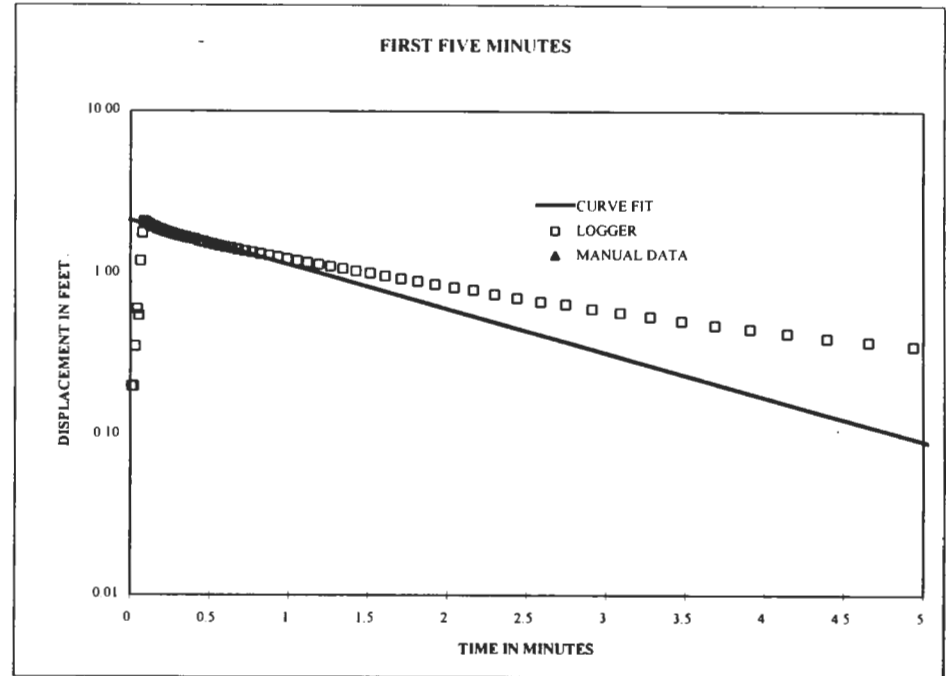
Client: **Seneca Army Depot Activity**  
 Project: **SEAD-12 RI/FS**  
 Project No.: **730047-01001**  
 Well No.: **MW12-39**  
 Test Date: **May 10, 1999**

Formation Tested: **Till**  
 Rising (R) or Falling (F) Head Test: **rising**

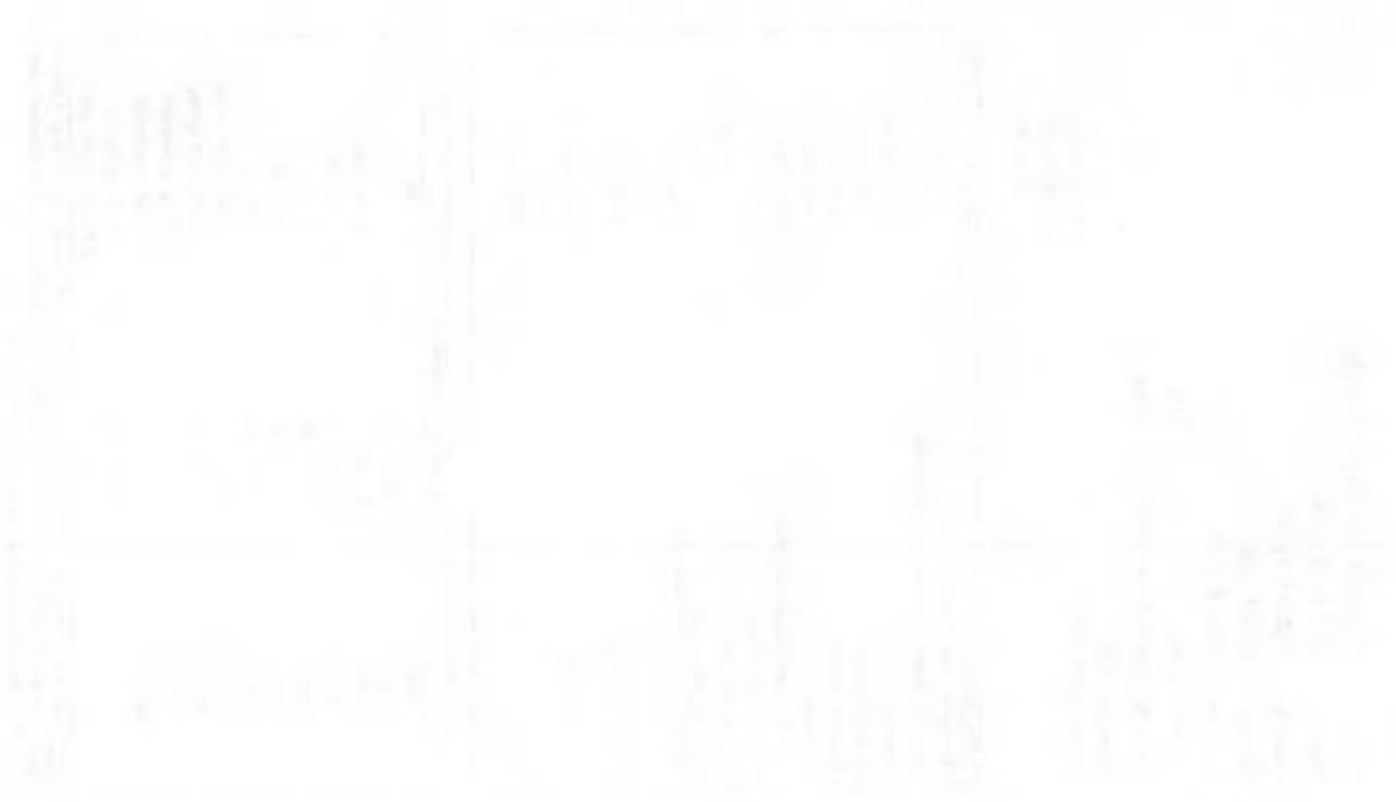
Logger Data File:  
 Hydraulic conductivity **7.76E-04 cm/sec**  
**1.53E-03 ft/min**  
**2.20 ft/day**

Casing stickup	-0.22 feet
Static water level (from top of casing)	2.50 feet
Depth to bottom of screen (from ground level)	10.00 feet
Boring diameter	8.00 inches
Casing diameter	2.00 inches
Screen diameter	2.00 inches
Screen length	4.90 feet
Depth to "impermeable boundary"	10.50 feet
Porosity of filter pack	0.30
Slug diameter (optional)	inches
Slug length (optional)	feet
Theoretical $\Delta H$ at time zero ( $Y_0$ )	0.00 feet
Actual $\Delta H$ at time zero ( $Y_0$ )	2.150 feet
$\Delta H$ at time $t$ ( $Y_t$ )	0.008 feet
Time	8.80 min

Bouwer-Rice Parameters		
feet	cm	cm
2.72	82.91 <i>SW</i>	
7.28	221.89 <i>H</i>	58.80 <i>L/Rw</i>
5.1	155.45 <i>Ts</i>	0.94 <i>H/D</i>
0.083	2.54 <i>Rw</i>	3.20 <i>A</i>
0.083	2.54 <i>Rc</i>	0.48 <i>B</i>
0.167	5.08 <i>DS</i>	2.80 <i>C</i>
4.90	149.35 <i>L</i>	1.79 $\ln[(D-H)/Rw]^*$
7.78	237.13 <i>D</i>	1.79 $\ln[(D-H)/Rw]$
2.15	65.53 $Y_0$	3.17 equation (8)
0.0082	0.25 $Y_t$	3.40 equation (8)
	528.00 <i>t (seconds)</i>	3.40 $\ln(R_0/Rw)$
	0.30 <i>n</i>	7.8E-04 equation (5)



Bouwer, Herman. 1989. "The Bouwer and Rice Slug Test - An Update". Ground Water vol. 27, no. 3, May-June 1989  
 Bouwer, H. and R. C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells". Water Resources Research vol 12, no. 3, June 1976.



**APPENDIX E**

**RESRAD MODEL INPUTS AND OUTPUT FOR DCGL DEVELOPMENT**

**(RESRAD Backup for Risk Assessment is found in Appendix L)**

SECRET

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE



## APPENDIX E – RESRAD MODEL INPUTS

RESRAD requires 122 input parameters for the model setup. The input parameters are divided into ten categories:

- Potential exposure pathways;
- Basic Radiation Dose Limit;
- Contaminated soil zone parameters;
- Cover, contaminated, and uncontaminated saturated zone hydrogeologic data;
- Unsaturated zone parameters;
- Occupancy, inhalation, and external gamma data;
- Ingestion dietary and non-dietary data;
- Site specific radiochemistry data;
- Storage and calculation time;
- Bio-accumulation data.

Site specific data were used when it was available. In cases where site specific data were not available, conservative values drawn from literature or RESRAD default values were used. Input parameters are presented in **Table E-1**. References are given for all non-default parameters utilized in the RESRAD modeling runs. Actual model run results are provided at the end of this Appendix.

### Justification of Site-Specific Parameters

The following subsections provide justification for the selection of site-specific input parameters used in the RESRAD modeling runs. Because of variability in exposure scenario parameters, sensitivity analyses were performed by running RESRAD for an on-site resident and an on-site worker. The intent is to use the most conservative DCGL<sub>s</sub> for SEAD-12 sites that resulted from these two scenarios. DCGL<sub>w</sub>s were established for soils within each of the potential areas of concern.

### Transport Factors

The input transport factors, or  $K_d$  values, are based on soil conditions at the site. Based on the SEAD-12 soil investigation, the SEAD-12 soil is predominantly clay with a pH of 6 to 6.5 (Parsons Engineering Science, 1996). Uranium  $K_d$  factors are based on the DOE, "Data Collection Handbook to support Modeling Impacts of Radioactive Material in Soil (DOE, 1993). The  $K_d$  for clay soil was selected from this handbook.

### Radiation Dose Limit

The basic radiation dose limit of 10 millirems per year was used based on NYSDEC TAGM 4006

**Area of Contaminated Zone.** The area of contamination for each of the sites modeled is listed in **Table E-2**. It was assumed for the purposes of modeling that entire potential area of concern was impacted. Because the Class 3 area represents a large portion of SEAD-12 (any area not designated as Class 1 or Class 2), the Class 3 area used in the modeling was a typical residential area of 1/3 acre (1349 m<sup>2</sup>).

**Thickness of Contaminated Zone and Uncontaminated Unsaturated Zone.** The thickness of the contaminated zones and uncontaminated zones are based on site-specific conditions, **Table E-2**.

The thickness of the uncontaminated unsaturated zone is the distance from the bottom of the contaminated zone to the groundwater table. Because the depth to groundwater varies seasonally, the thickness of the uncontaminated unsaturated zone was assumed to be 1 m for all the sites.

**Cover Depth.** It was conservatively assumed that any impacted area at the site had not been covered. Therefore, a cover depth of 0 m was selected.

**Hydrologic Data.** The hydrologic data input parameters are based on the soil and condition at the site. The site is primarily clay, while the RESRAD default parameters more closely model sand type conditions. The hydrologic data input parameters such as total porosity, effective porosity, hydraulic conductivity, and the contaminant zone b parameter were taken from the USDOE, "Data Collection Handbook to Support Modeling the Impacts of Radioactive Material in Soil (USDOE, 1993). Hydrologic data including depth to groundwater, hydraulic gradient, and screened interval are site specific and described in Section 3.4 of the RI.

### **Receptor Selection and Exposure Parameters**

Model runs were performed for the on-site residential farmer and the on-site worker scenario to evaluate both the worst case and the more likely exposure scenario given the future use of the land at SEAD-12.

For the residential farmer scenario, exposure pathways evaluated include incidental and direct radiation from soil, inhalation of airborne dust from soil, and ingestion of groundwater used as drinking water. Indirect pathways such as ingestion of meat, produce and milk are also included. It is assumed that the fraction of the ingested produce, meat, and milk is also contaminated from on-site exposure. Justification of the key exposure parameters used to quantify this scenario is provided below. For the worker scenario, exposure pathways evaluated include incidental and direct radiation from soil and inhalation of airborne dust from soil.

Where applicable, EPA Exposure Factors Handbook (EPA, 1997b) was used to develop these parameters because this guidance supercedes all other EPA guidance on exposure parameters published prior to its issue.

**Inhalation Rate.** An inhalation rate of 11,000 cubic meters per year ( $m^3/yr$ ) ( $18 m^3/day$ ) based on an active adult (EPA, 1996) is used. This value is significantly higher than the RESRAD default parameter of  $8,400 m^3/yr$ . The higher inhalation rate was used, increasing the potential risk to the receptor and corresponding to a more conservative DCGL<sub>W</sub>.

**Ingestion Rate.** Soil ingestion rate is based on a child receptor per "Superfund Standards Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure" (EPA, 1993). The conservative ingestion rate of 200 milligrams per day (mg/day) (73 grams per year [g/yr]) was utilized to model the worst-case scenario of a child receptor for the on-site resident. An ingestion rate of 100 mg/day was used for the worker scenario. The RESRAD default ingestion rate of 100 mg/day is for an adult receptor.

Dietary ingestion rates used were taken from EPA (1997b). The input parameters for livestock fodder and soil intake are based on the EPA guidance "Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities" (EPA, 1998).

**Indoor/Outdoor Factors.** RESRAD scenarios include inputs to determine risk based on time spent indoors and outdoors. It was assumed that 65-percent of the residential receptors time will be spent indoors and 8-percent will be spent outdoors (EPA, 1997b). The worker is assumed spend 23 percent of their total annual time outdoors (8 hours a day, 250 days a year).

**TABLE E-1**  
**INPUT PARAMETERS FOR RESRAD**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot Activity**

Input Parameter	Default Value	Units	User Inputs (if not default)		Basis/Reference
			Residential Scenario	Worker Scenario	
<b>Pathway</b>					
External gamma	--		active	active	
Inhalation (except radon)	--		active	active	
Plant ingestion	--		active	suppressed	
Meat ingestion	--		active	suppressed	
Milk ingestion	--		active	suppressed	See conceptual site model (figure xx)
Aquatic foods	--		active	suppressed	
Drinking water	--		active	active	
Soil ingestion	--		active	active	
Radon	--		active	suppressed	
<b>Soil Concentrations</b>					
Initial Concentration (pCi/g)					
Ac-227	NA		100.00		
Co-57	NA		101.00		
Co-60	NA		102.00		
Cs-137+D	NA		103.00		
H-3	NA		104.00		
Pa-231	NA		105.00		
Pb-210+D	NA		106.00		
Pm-147	NA		107.00		Arbitrary, DCGL independent of initial concentration
Pu-239	NA		108.00		
Ra-226+D	NA		109.00		
Ra-228+D	NA		110.00		
Sm-147	NA		111.00		
Th-228+D	NA		112.00		
Th-230	NA		113.00		
Th-232	NA		114.00		
U-234	NA		115.00		
U-235+D	NA		116.00		
U-238+D	NA		117.00		
<b>Transport Factors</b>					
Distribution coefficients					
Ac-227	20	cc/g	2400		
Co-57	1000	cc/g	550		
Co-60	1000	cc/g	550		
Cs-137+D	1900	cc/g	1000		
H-3	0	cc/g	0		
Pa-231	50	cc/g	2700		
Pb-210+D	100	cc/g	550		
Pm-147	-1	cc/g	-1		
Pu-239	2000	cc/g	5100		
Ra-226+D	9100	cc/g	7		(1) for clay soils. Soil type in (2)
Ra-228+D	9100	cc/g	7		
Sm-147	-1	cc/g	-1		
Th-228+D	60000	cc/g	5800		
Th-230	60000	cc/g	5800		
Th-232	60000	cc/g	5800		
U-234	1600	cc/g	5		
U-235+D	1600	cc/g	5		
U-238+D	1600	cc/g	5		
Number of Unsaturated Zones	1		1		--
<b>Water Concentration</b>					
Time since material placement	0	years	Default used		--
Groundwater Concentration	0	pCi/L	Default used		--
Solubility Limit	0	mol/L	Default used		--
Leach Rate	0	/year	Default used		--
Use Plant Soil ratio	No		Default used		--
<b>Calculation Times</b>					
Basic Radiation Dose Limit	30	mrem/yr	10		NYSDEC TAGM
Calculation Times	1, 3, 10, 30, 100, 300, 1000	years	Default used		--
<b>Contaminated Zone</b>					
Thickness of contaminated zone	Site -Specific	m	Site-Specific (Table 1)		--
Area of contaminated zone	Site -Specific	m <sup>2</sup>	Site-Specific (Table 1)		--
Length parallel to aquifer flow	Site -Specific	m <sup>2</sup>	Site-Specific (Table 1)		--
<b>Cover and Contaminated Zone Hydrological Data</b>					

**TABLE E-1**  
**INPUT PARAMETERS FOR RESRAD**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot Activity**

Input Parameter	Default Value	Units	User Inputs (if not default)		
			Residential Scenario	Worker Scenario	Basis/Reference
Cover depth.	0	m	Default used		Contamination begins at surface
Density of cover material	1.5	g/cc	not used		--
Cover erosion rate	0.001	m/yr	not used		--
Density of contaminated zone	1.5	g/cc	1.5		--
Contaminated zone erosion rate	0.001	m/yr	0.00006		(1) Appendix A - Assume 2% slope, farm family
Contaminated zone total porosity	0.4		0.37		(2)
Contaminated zone effective porosity	0.2		0.06		(3)
Contaminated zone hydraulic conductivity	10	m/yr	208		(4) P 3.40
Contaminated zone b parameter	5.3		7.75		(1) App. E, Silty Clay Loam
Humidity in air	8	g/m <sup>3</sup>	6.6		(1) App. L, Fig. L-1
Evapotranspiration coefficient	0.5		0.7		(3) calcs attached
Wind speed	2	m/s	3		Estimated using wind rose for Syracuse NY (Fig 2-7)
Precipitation	1	m/yr	0.75		(4) p 1-16
Irrigation	0.2	m/yr	0		No irrigation on site
Irrigation mode	Overhead		NA		For overhead
Runoff Coefficient	0.2		0.2		--
Watershed area for nearby stream or pond	1000000	m <sup>2</sup>	13000000		(4) Fig 1-9 attached
Accuracy for water/soil computation	0.001		NA		--
<b>Saturated zone hydrological data</b>					
Density of saturated zone	1.5	g/cc	1.5		--
Saturated zone total porosity	0.4		0.37		(2)
Saturated zone effective porosity	0.2		0.175		(3)
Saturated zone hydraulic conductivity	100	m/yr	208		(4) p. 3-40
Saturated zone hydraulic gradient	0.02		0.012		(4) p. 3-41
Saturated zone b parameter.	5.3		5.3		
Water table drop rate	0.001	m/yr	0		Assumption
Well pump intake depth (below water table)	10	m	3		(4) p. 1-14
Model: nondispersion (ND) or mass balance (MB)	ND		ND		(1) App. E, p. 207
Well pumping rate	250	m <sup>3</sup> /yr	50 (100 ml/min)		(5)
<b>Uncontaminated unsaturated zone parameters</b>					
Number of unsaturated zones	1		Default used		--
Unsaturation zone 1					
Thickness	4	m	1		Site-Specific, see text
Soil density	1.5	g/cc	Default used		--
Total porosity	0.4		0.37		(2)
Effective porosity	0.2		0.175		(3)
Hydraulic conductivity	10	m/yr	208		(1) App. E, silty clay loam
Soil-specific b parameter	5.3		7.75		(4) p. 3-40
<b>Occupancy</b>					
Inhalation rate	8400	m <sup>3</sup> /yr	11,000	11,000	(7)
Mass loading for inhalation	0.0001	g/m <sup>3</sup>	Default Used	Default used	(7)
Exposure duration	30	yr	Default Used	1	(7)
Indoor dust filtration factor	0.4		Default Used	0.2	(9)
External gamma shielding factor	0.7		0.65	0	See text
Indoor time fraction	0.5		0.08	0.23	(7)
Outdoor time fraction	0.25		Default Used		
Shape of the contaminated zone	Square				
<b>Ingestion pathway, dietary data</b>					
Fruit, vegetable, and grain consumption	160	kg/yr	301	NA	(7)
Leafy vegetable consumption	14	kg/yr	0	NA	(7) rate for fruits includes leafy vegetables
Milk consumption	92	L/yr	82	NA	(7)
Meat and poultry consumption	63	kg/yr	45	NA	(7)
Soil ingestion	36.5	g/yr	73	Default used	(7)
Groundwater ingestion	510	L/yr		Default Used	--
Contaminated fractions					
Drinking water	1		1	NA	--
Household water	1		1	NA	--
Livestock water	1		1	NA	--
Irrigation water	1		1	NA	--
Plant food	-1		0.5	NA	Assumed half of plant food is from offsite
Meat	-1		0.5	NA	Assumed half of meat is from offsite
Milk	-1		0.5	NA	Assumed half of milk is from offsite
<b>Ingestion pathway, nondietary data</b>					
Livestock fodder intake for meat	68	kg/d	11.8	NA	(10) Table B-3-10
Livestock fodder intake for milk	55	kg/d	20.3	NA	(10) Table B-3-11
Livestock water intake for meat	50	L/d	50	NA	--

**TABLE E-1**  
**INPUT PARAMETERS FOR RESRAD**  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot Activity

Input Parameter	Default Value	Units	User Inputs (if not default)		
			Residential Scenario	Worker Scenario	Basis/Reference
Livestock water intake for milk	160	L/d	160	NA	--
Livestock soil intake	0.5	kg/d	0.5	NA	--
Mass loading for foliar deposition	0.0001	g·m <sup>3</sup>		Default Used	--
Depth of soil mixing layer	0.15	m		Default Used	--
Depth of roots	0.9	m		Default Used	--
Groundwater fractional usage					
Drinking water	1			Default Used	--
Household water	1			Default Used	--
Livestock water	1			Default Used	--
Irrigation water	1			Default Used	--
<b>Radon data</b>					
Cover total porosity	0.4			Default Used	--
Cover volumetric water content	0.05			Default Used	--
Cover radon diffusion coefficient	0.000002	m <sup>2</sup> /s		Default Used	--
Building foundation thickness	0.15	m		Default Used	--
Building foundation density	2.4	g/cc		Default Used	--
Building foundation total porosity	0.1			Default Used	--
Building foundation volumetric water content	0.03			Default Used	--
Building foundation radon diffusion coefficient	0.0000003	m <sup>2</sup> /s		Default Used	--
Contaminated radon diffusion coefficient	0.000002	m <sup>2</sup> /s		Default Used	--
Radon vertical dimension of mixing	2	m		Default Used	--
Building air exchange rate	0.5	/hr		Default Used	--
Building room height	2.5	m		Default Used	--
Building indoor area factor	0			Default Used	--
Foundation depth below ground surface	-1	m		Default Used	--
Radon 222 emanation coefficient	0.25			Default Used	--
Radon 220 emanation coefficient	0.15			Default Used	--
<b>Storage time before use data</b>					
Fruits, nonleafy vegetables, and grain	14	days	--		--
Leafy vegetables	1	days	--		--
Milk	1	days	--		--
Meat	20	days	--		--
Fish	7	days	NA		--
Crustacea and mollusks	7	days	NA		--
Well water	1	days	--		--
Surface Water	1	days	--		--
Livestock fodder	45	days	--		--

Sources

- 1 Argonne National Laboratory, Manual for Implementing Residual Radioactive Material Guidelines Using RESRAD including Data Collection Handbook, Version 5.0, September 1993
- 2 U. S. Army Environmental Hygiene Agency (USAEHA), Phase 4 Evaluation of the Open Burning/Open Detonation Grounds Investigation of Soil Contamination, Hazardous Waste Study No. 37-26-047
- 3 Calculation of Evapotranspiration Coefficient, RESRAD Manual, Version 5, page 198, with following parameters from Parsons Engineering Science, Final Groundwater Modeling Report at the Ash Landfill Site, June 1996  
 I = Infiltration Rate, m/yr (7 in/year = 0.18 m/yr)  
 Ce = Evapotranspiration Coefficient  
 Cr = runoff coefficient (0.2)  
 Pr = Precipitation rate, annual rainfall, m/yr (0.75 m/yr)  
 Irr = Irrigation rate (0 m/yr)
- 4 Parsons Engineering Science, Remedial Investigation Report at the Open Burning Grounds, September 1994
- 5 Based on field experience that 100 ml/min is a sustainable rate for extraction of groundwater from upper aquifer during well purging in preparation for groundwater sampling
- 6 Parsons Engineering Science, Expanded Site Inspection Seven Low Priority AOCs – SEADs 60, 62, 63, 64 (A, B, C, D) 67, 70, and 71, April 1996
- 7 EPA, 1996, Exposure Factors Handbook: Volume I, II, and III, Office of Research and Development
- 8 EPA, 1990, Exposure Factors Handbook, Office of Health and Environmental Assessment, Washington, D.C., EPA/600/8-89/043.
- 9 Shielding factor from Figure xx. Cember, Health Physics and Radiation Protection, assuming 6 inch concrete foundation and gamma of 1.7 MeV
- 10 EPA, 1998, Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Volume 3, Peer Review Draft, EPA530-D-98-001C July

**Table E-2**  
**Potential Areas of Concern Dimensions**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot Activity**

Site	Area Name	Depth to Bedrock (ft)	Depth to undisturbed till (ft)	Area of contamination (m**2)	Length parallel to flow (m)
A	EM 5	3.5	3.5	6438	50.3
B	EM 6	8	8	1510	49.5
C	Bldg 819/EM 27	8	2.9	6401	103
D	Bldg 815/816	2	2	6837	61.7
E	Disposal Pit A/B	6	6	2195	50.3
F	Disposal Pit C	10	10	13111	96
G	Former Dry Waste Disposal Pit	3.5	2.5	14254	164
H	Class III area	7.5	2	1349	36.7

## **Representative RESRAD Output from Worker DCGL Determination (Disposal Pit A/B)**

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Dose Conversion Factor (and Related) Parameter Summary  
 File: DOSFAC.BIN

Menu	Parameter	Current Value	Default	Parameter Name
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Ac-227+D	6.720E+00	6.720E+00	DCF2( 1)
B-1	Co-57	9.070E-06	9.070E-06	DCF2( 2)
B-1	Co-60	2.190E-04	2.190E-04	DCF2( 3)
B-1	Cs-137+D	3.190E-05	3.190E-05	DCF2( 4)
B-1	H-3	6.400E-08	6.400E-08	DCF2( 5)
B-1	Pa-231	1.280E+00	1.280E+00	DCF2( 6)
B-1	Pb-210+D	2.320E-02	2.320E-02	DCF2( 7)
B-1	Pm-147	3.920E-05	3.920E-05	DCF2( 8)
B-1	Pu-239	4.290E-01	4.290E-01	DCF2( 9)
B-1	Ra-226+D	8.600E-03	8.600E-03	DCF2(10)
B-1	Ra-228+D	5.080E-03	5.080E-03	DCF2(11)
B-1	Sm-147	7.470E-02	7.470E-02	DCF2(12)
B-1	Th-228+D	3.450E-01	3.450E-01	DCF2(13)
B-1	Th-230	3.260E-01	3.260E-01	DCF2(14)
B-1	Th-232	1.640E+00	1.640E+00	DCF2(15)
B-1	U-234	1.320E-01	1.320E-01	DCF2(16)
B-1	U-235+D	1.230E-01	1.230E-01	DCF2(17)
B-1	U-238+D	1.180E-01	1.180E-01	DCF2(18)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Ac-227+D	1.480E-02	1.480E-02	DCF3( 1)
D-1	Co-57	1.180E-06	1.180E-06	DCF3( 2)
D-1	Co-60	2.690E-05	2.690E-05	DCF3( 3)
D-1	Cs-137+D	5.000E-05	5.000E-05	DCF3( 4)



D-1	H-3	6.400E-08	6.400E-08	DCF3( 5)
D-1	Pu-231	1.060E-02	1.060E-02	DCF3( 6)
D-1	Pb-210+D	7.270E-03	7.270E-03	DCF3( 7)
D-1	Pm-147	1.050E-06	1.050E-06	DCF3( 8)
D-1	Pu-239	3.540E-03	3.540E-03	DCF3( 9)
D-1	Ra-226+D	1.330E-03	1.330E-03	DCF3(10)
D-1	Ra-228+D	1.440E-03	1.440E-03	DCF3(11)
D-1	Sm-147	1.850E-04	1.850E-04	DCF3(12)
D-1	Th-228+D	8.080E-04	8.080E-04	DCF3(13)
D-1	Th-230	5.480E-04	5.480E-04	DCF3(14)
D-1	Th-232	2.730E-03	2.730E-03	DCF3(15)
D-1	U-234	2.830E-04	2.830E-04	DCF3(16)
D-1	U-235+D	2.670E-04	2.670E-04	DCF3(17)
D-1	U-238+D	2.690E-04	2.690E-04	DCF3(18)
D-34 Food transfer factors:				
D-34	Ac-227+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF( 1,1)
D-34	Ac-227+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF( 1,2)
D-34	Ac-227+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF( 1,3)
D-34				
D-34	Co-57 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF( 2,1)
D-34	Co-57 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF( 2,2)
D-34	Co-57 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF( 2,3)
D-34				

1RESRAD, Version 5.82 Tr Limit = 0.5 year 05/17/00 08:47 Page 3  
 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Dose Conversion Factor (and Related) Parameter Summary (continued)  
 File: DOSFAC.BIN

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF( 3,1)
D-34	Co-60 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF( 3,2)
D-34	Co-60 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF( 3,3)
D-34				
D-34	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF( 4,1)
D-34	Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-02	3.000E-02	RTF( 4,2)
D-34	Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF( 4,3)
D-34				
D-34	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF( 5,1)
D-34	H-3 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.200E-02	1.200E-02	RTF( 5,2)
D-34	H-3 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF( 5,3)
D-34				
D-34	Pu-231 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF( 6,1)
D-34	Pu-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF( 6,2)
D-34	Pu-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF( 6,3)
D-34				
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF( 7,1)
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF( 7,2)
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF( 7,3)
D-34				
D-34	Pm-147 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF( 8,1)
D-34	Pm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF( 8,2)
D-34	Pm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF( 8,3)
D-34				
D-34	Pu-239 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF( 9,1)
D-34	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF( 9,2)

D-34	Pu-239	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF( 9,3)
D-34					
D-34	Ra-226+D	, plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(10,1)
D-34	Ra-226+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(10,2)
D-34	Ra-226+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(10,3)
D-34					
D-34	Ra-228+D	, plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(11,1)
D-34	Ra-228+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(11,2)
D-34	Ra-228+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(11,3)
D-34					
D-34	Sm-147	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(12,1)
D-34	Sm-147	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(12,2)
D-34	Sm-147	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(12,3)
D-34					
D-34	Th-228+D	, plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(13,1)
D-34	Th-228+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(13,2)
D-34	Th-228+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(13,3)
D-34					
D-34	Th-230	, plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(14,1)
D-34	Th-230	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(14,2)
D-34	Th-230	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(14,3)
D-34					
D-34	Th-232	, plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(15,1)
U-34	Th-232	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(15,2)
D-34	Th-232	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(15,3)

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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Dose Conversion Factor (and Related) Parameter Summary (continued)  
 File: DOSFAC.BIN

Menu	Parameter	Current Value	Default	Parameter Name	
D-34	U-234	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(16,1)
D-34	U-234	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(16,2)
D-34	U-234	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(16,3)
D-34					
D-34	U-235+D	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(17,1)
D-34	U-235+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(17,2)
D-34	U-235+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(17,3)
D-34					
D-34	U-238+D	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(18,1)
D-34	U-238+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(18,2)
D-34	U-238+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(18,3)
D-5	Bioaccumulation factors, fresh water, L/kg:				
U-5	Ac-227+D	, fish	1.500E+01	1.500E+01	BIOFAC( 1,1)
D-5	Ac-227+D	, crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC( 1,2)
U-5					
D-5	Co-57	, fish	3.000E+02	3.000E+02	BIOFAC( 2,1)
D-5	Co-57	, crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC( 2,2)
D-5					
D-5	Co-60	, fish	3.000E+02	3.000E+02	BIOFAC( 3,1)
D-5	Co-60	, crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC( 3,2)
D-5					
D-5	Cs-137+D	, fish	2.000E+03	2.000E+03	BIOFAC( 4,1)
D-5	Cs-137+D	, crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 4,2)
D-5					

D-5	H-3	, fish	1.000E+00	1.000E+00	BIOFAC( 5,1)
D-5	H-3	, crustacea and mollusks	1.000E+00	1.000E+00	BIOFAC( 5,2)
D-5					
D-5	Pj-231	, fish	1.000E+01	1.000E+01	BIOFAC( 6,1)
D-5	Pj-231	, crustacea and mollusks	1.100E+02	1.100E+02	BIOFAC( 6,2)
D-5					
D-5	Pb-210+D	, fish	3.000E+02	3.000E+02	BIOFAC( 7,1)
D-5	Pb-210+D	, crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 7,2)
D-5					
D-5	Pm-147	, fish	3.000E+01	3.000E+01	BIOFAC( 8,1)
D-5	Pm-147	, crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC( 8,2)
D-5					
D-5	Pu-239	, fish	3.000E+01	3.000E+01	BIOFAC( 9,1)
D-5	Pu-239	, crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 9,2)
D-5					
D-5	Ra-226+D	, fish	5.000E+01	5.000E+01	BIOFAC(10,1)
D-5	Ra-226+D	, crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(10,2)
D-5					
D-5	Ra-228+D	, fish	5.000E+01	5.000E+01	BIOFAC(11,1)
D-5	Ra-228+D	, crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(11,2)
D-5					
D-5	Sm-147	, fish	2.500E+01	2.500E+01	BIOFAC(12,1)
D-5	Sm-147	, crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(12,2)
D-5					
D-5	Th-228+D	, fish	1.000E+02	1.000E+02	BIOFAC(13,1)
D-5	Th-228+D	, crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(13,2)

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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Dose Conversion Factor (and Related) Parameter Summary (continued)

File: DOSFAC.BIN

Menu	Parameter	Current Value	Default	Parameter Name
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC(14,1)
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(14,2)
D-5				
D-5	Th-232 , fish	1.000E+02	1.000E+02	BIOFAC(15,1)
D-5	Th-232 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(15,2)
D-5				
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC(16,1)
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(16,2)
D-5				
D-5	U-235+D , fish	1.000E+01	1.000E+01	BIOFAC(17,1)
D-5	U-235+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(17,2)
D-5				
D-5	U-238+D , fish	1.000E+01	1.000E+01	BIOFAC(18,1)
D-5	U-238+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(18,2)

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Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	Used by RESRAD (if different from user input)	Parameter Name
R011	Area of contaminated zone (m**2)	2.195E+03	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	1.800E+00	2.000E+00	---	THICK0

R011	Length parallel to aquifer flow (m)	not used	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	1.000E+01	3.000E+01	---	BRDL
R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---	TI
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---	T( 2)
R011	Times for calculations (yr)	3.000E+00	3.000E+00	---	T( 3)
R011	Times for calculations (yr)	1.000E+01	1.000E+01	---	T( 4)
R011	Times for calculations (yr)	3.000E+01	3.000E+01	---	T( 5)
R011	Times for calculations (yr)	1.000E+02	1.000E+02	---	T( 6)
R011	Times for calculations (yr)	3.000E+02	3.000E+02	---	T( 7)
R011	Times for calculations (yr)	1.000E+03	1.000E+03	---	T( 8)
R011	Times for calculations (yr)	not used	0.000E+00	---	T( 9)
R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
R012	Initial principal radionuclide (pCi/g): Ac-227	1.000E+02	0.000E+00	---	S1( 1)
R012	Initial principal radionuclide (pCi/g): Co-57	1.000E+02	0.000E+00	---	S1( 2)
R012	Initial principal radionuclide (pCi/g): Co-60	1.000E+02	0.000E+00	---	S1( 3)
R012	Initial principal radionuclide (pCi/g): Cs-137	1.000E+02	0.000E+00	---	S1( 4)
R012	Initial principal radionuclide (pCi/g): H-3	1.000E+02	0.000E+00	---	S1( 5)
R012	Initial principal radionuclide (pCi/g): Pa-231	1.000E+02	0.000E+00	---	S1( 6)
R012	Initial principal radionuclide (pCi/g): Pb-210	1.000E+02	0.000E+00	---	S1( 7)
R012	Initial principal radionuclide (pCi/g): Pm-147	1.000E+02	0.000E+00	---	S1( 8)
R012	Initial principal radionuclide (pCi/g): Pu-239	1.000E+02	0.000E+00	---	S1( 9)
R012	Initial principal radionuclide (pCi/g): Ra-226	1.000E+02	0.000E+00	---	S1(10)
R012	Initial principal radionuclide (pCi/g): Ra-228	1.000E+02	0.000E+00	---	S1(11)
R012	Initial principal radionuclide (pCi/g): Sm-147	1.000E+02	0.000E+00	---	S1(12)
R012	Initial principal radionuclide (pCi/g): Th-228	1.000E+02	0.000E+00	---	S1(13)
R012	Initial principal radionuclide (pCi/g): Th-230	1.000E+02	0.000E+00	---	S1(14)
R012	Initial principal radionuclide (pCi/g): Th-232	1.000E+02	0.000E+00	---	S1(15)
R012	Initial principal radionuclide (pCi/g): U-234	1.000E+02	0.000E+00	---	S1(16)
R012	Initial principal radionuclide (pCi/g): U-235	1.000E+02	0.000E+00	---	S1(17)
R012	Initial principal radionuclide (pCi/g): U-238	1.000E+02	0.000E+00	---	S1(18)
R012	Concentration in groundwater (pCi/L): Ac-227	not used	0.000E+00	---	W1( 1)
R012	Concentration in groundwater (pCi/L): Co-57	not used	0.000E+00	---	W1( 2)
R012	Concentration in groundwater (pCi/L): Co-60	not used	0.000E+00	---	W1( 3)
R012	Concentration in groundwater (pCi/L): Cs-137	not used	0.000E+00	---	W1( 4)
R012	Concentration in groundwater (pCi/L): H-3	not used	0.000E+00	---	W1( 5)
R012	Concentration in groundwater (pCi/L): Pa-231	not used	0.000E+00	---	W1( 6)
R012	Concentration in groundwater (pCi/L): Pb-210	not used	0.000E+00	---	W1( 7)
R012	Concentration in groundwater (pCi/L): Pm-147	not used	0.000E+00	---	W1( 8)
R012	Concentration in groundwater (pCi/L): Pu-239	not used	0.000E+00	---	W1( 9)
R012	Concentration in groundwater (pCi/L): Ra-226	not used	0.000E+00	---	W1(10)
R012	Concentration in groundwater (pCi/L): Ra-228	not used	0.000E+00	---	W1(11)
R012	Concentration in groundwater (pCi/L): Sm-147	not used	0.000E+00	---	W1(12)
R012	Concentration in groundwater (pCi/L): Th-228	not used	0.000E+00	---	W1(13)
R012	Concentration in groundwater (pCi/L): Th-230	not used	0.000E+00	---	W1(14)
R012	Concentration in groundwater (pCi/L): Th-232	not used	0.000E+00	---	W1(15)
R012	Concentration in groundwater (pCi/L): U-234	not used	0.000E+00	---	W1(16)
R012	Concentration in groundwater (pCi/L): U-235	not used	0.000E+00	---	W1(17)
R012	Concentration in groundwater (pCi/L): U-238	not used	0.000E+00	---	W1(18)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R013	Cover depth (m)	0.000E+00	0.000E+00	---	COVER0
R013	Density of cover material (g/cm**3)	not used	1.500E+00	---	DENSCV

R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---	VCV
R013	Density of contaminated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	6.000E-05	1.000E-03	---	VCZ
R013	Contaminated zone total porosity	3.700E-01	4.000E-01	---	TPCZ
R013	Contaminated zone effective porosity	1.750E-01	2.000E-01	---	EPCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	2.080E+02	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	7.750E+00	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	3.000E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	6.600E+00	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	7.000E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	7.500E-01	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	0.000E+00	2.000E-01	---	RI
R013	Irrigation mode	overhead	overhead	---	ID1TCH
R013	Runoff coefficient	2.000E-01	2.000E-01	---	RUNOFF
R013	Watershed area for nearby stream or pond (m**2)	not used	1.000E+06	---	WAREA
R013	Accuracy for water/soil computations	not used	1.000E-03	---	EPS
R014	Density of saturated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	3.700E-01	4.000E-01	---	TPSZ
R014	Saturated zone effective porosity	1.750E-01	2.000E-01	---	EPSZ
R014	Saturated zone hydraulic conductivity (m/yr)	2.080E+02	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	1.200E-02	2.000E-02	---	HGWT
R014	Saturated zone b parameter	5.300E+00	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	0.000E+00	1.000E-03	---	WWT
R014	Well pump intake depth (m below water table)	3.000E+00	1.000E+01	---	DWIBWT
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	5.000E+01	2.500E+02	---	UW
R015	Number of unsaturated zone strata	not used	1	---	NS
R015	Unsat. zone 1, thickness (m)	not used	4.000E+00	---	H(1)
R015	Unsat. zone 1, soil density (g/cm**3)	not used	1.500E+00	---	DENSUZ(1)
R015	Unsat. zone 1, total porosity	not used	4.000E-01	---	TPUZ(1)
R015	Unsat. zone 1, effective porosity	not used	2.000E-01	---	EPUZ(1)
R015	Unsat. zone 1, soil-specific b parameter	not used	5.300E+00	---	BUZ(1)
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	not used	1.000E+01	---	HCUZ(1)
R016	Distribution coefficients for Ac-227				
R016	Contaminated zone (cm**3/g)	3.400E+03	2.000E+01	---	DCNUCC( 1)
R016	Unsaturated zone 1 (cm**3/g)	not used	2.000E+01	---	DCNUCU( 1,1)
R016	Saturated zone (cm**3/g)	not used	2.000E+01	---	DCNUCS( 1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.778E-05	ALEACH( 1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK( 1)
R016	Distribution coefficients for Co-57				
R016	Contaminated zone (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCC( 2)
R016	Unsaturated zone 1 (cm**3/g)	not used	1.000E+03	---	DCNUCU( 2,1)
R016	Saturated zone (cm**3/g)	not used	1.000E+03	---	DCNUCS( 2)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.212E-04	ALEACH( 2)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK( 2)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (1 if different from user input)	Parameter Name
R016	Distribution coefficients for Co-60				
R016	Contaminated zone (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCC( 3)

R016	Unsaturated zone 1 (cm**3/g)	not used	1.000E+03	---	DCNUCU ( 3,1)
R016	Saturated zone (cm**3/g)	not used	1.000E+03	---	DCNUCS ( 3)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.212E-04	ALEACH ( 3)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 3)
R016	Distribution coefficients for Cs-137				
R016	Contaminated zone (cm**3/g)	1.900E+03	1.000E+03	---	DCNUCC ( 4)
R016	Unsaturated zone 1 (cm**3/g)	not used	1.000E+03	---	DCNUCU ( 4,1)
R016	Saturated zone (cm**3/g)	not used	1.000E+03	---	DCNUCS ( 4)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.508E-05	ALEACH ( 4)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 4)
R016	Distribution coefficients for H-3				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC ( 5)
R016	Unsaturated zone 1 (cm**3/g)	not used	0.000E+00	---	DCNUCU ( 5,1)
R016	Saturated zone (cm**3/g)	not used	0.000E+00	---	DCNUCS ( 5)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.957E-01	ALEACH ( 5)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 5)
R016	Distribution coefficients for Pa-231				
R016	Contaminated zone (cm**3/g)	2.700E+03	5.000E+01	---	DCNUCC ( 6)
R016	Unsaturated zone 1 (cm**3/g)	not used	5.000E+01	---	DCNUCU ( 6,1)
R016	Saturated zone (cm**3/g)	not used	5.000E+01	---	DCNUCS ( 6)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.469E-05	ALEACH ( 6)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 6)
R016	Distribution coefficients for Pb-210				
R016	Contaminated zone (cm**3/g)	5.500E+02	1.000E+02	---	DCNUCC ( 7)
R016	Unsaturated zone 1 (cm**3/g)	not used	1.000E+02	---	DCNUCU ( 7,1)
R016	Saturated zone (cm**3/g)	not used	1.000E+02	---	DCNUCS ( 7)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.212E-04	ALEACH ( 7)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 7)
R016	Distribution coefficients for Pm-147				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC ( 8)
R016	Unsaturated zone 1 (cm**3/g)	not used	-1.000E+00	---	DCNUCU ( 8,1)
R016	Saturated zone (cm**3/g)	not used	-1.000E+00	---	DCNUCS ( 8)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.081E-05	ALEACH ( 8)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 8)
R016	Distribution coefficients for Pu-239				
R016	Contaminated zone (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCC ( 9)
R016	Unsaturated zone 1 (cm**3/g)	not used	2.000E+03	---	DCNUCU ( 9,1)
R016	Saturated zone (cm**3/g)	not used	2.000E+03	---	DCNUCS ( 9)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.307E-05	ALEACH ( 9)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 9)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ra-226				
R016	Contaminated zone (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCC (10)
R016	Unsaturated zone 1 (cm**3/g)	not used	7.000E+01	---	DCNUCU (10,1)
R016	Saturated zone (cm**3/g)	not used	7.000E+01	---	DCNUCS (10)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.326E-06	ALEACH (10)

R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(10)
R016	Distribution coefficients for Ra-228				
R016	Contaminated zone (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCC(11)
R016	Unsaturated zone 1 (cm**3/g)	not used	7.000E+01	---	DCNUCU(11,1)
R016	Saturated zone (cm**3/g)	not used	7.000E+01	---	DCNUCS(11)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.326E-06	ALEACH(11)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(11)
R016	Distribution coefficients for Sm-147				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC(12)
R016	Unsaturated zone 1 (cm**3/g)	not used	-1.000E+00	---	DCNUCU(12,1)
R016	Saturated zone (cm**3/g)	not used	-1.000E+00	---	DCNUCS(12)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.081E-05	ALEACH(12)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(12)
R016	Distribution coefficients for Th-228				
R016	Contaminated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCC(13)
R016	Unsaturated zone 1 (cm**3/g)	not used	6.000E+04	---	DCNUCU(13,1)
R016	Saturated zone (cm**3/g)	not used	6.000E+04	---	DCNUCS(13)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.149E-05	ALEACH(13)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(13)
R016	Distribution coefficients for Th-230				
R016	Contaminated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCC(14)
R016	Unsaturated zone 1 (cm**3/g)	not used	6.000E+04	---	DCNUCU(14,1)
R016	Saturated zone (cm**3/g)	not used	6.000E+04	---	DCNUCS(14)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.149E-05	ALEACH(14)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(14)
R016	Distribution coefficients for Th-232				
R016	Contaminated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCC(15)
R016	Unsaturated zone 1 (cm**3/g)	not used	6.000E+04	---	DCNUCU(15,1)
R016	Saturated zone (cm**3/g)	not used	6.000E+04	---	DCNUCS(15)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.149E-05	ALEACH(15)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(15)
R016	Distribution coefficients for U-234				
R016	Contaminated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCC(16)
R016	Unsaturated zone 1 (cm**3/g)	not used	5.000E+01	---	DCNUCU(16,1)
R016	Saturated zone (cm**3/g)	not used	5.000E+01	---	DCNUCS(16)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.166E-05	ALEACH(16)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(16)

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Summary : RESRAD Default Parameters

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for U-234				
R016	Contaminated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCC(17)
R016	Unsaturated zone 1 (cm**3/g)	not used	5.000E+01	---	DCNUCU(17,1)
R016	Saturated zone (cm**3/g)	not used	5.000E+01	---	DCNUCS(17)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.166E-05	ALEACH(17)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(17)
R016	Distribution coefficients for U-238				

R016	Contaminated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCC(18)
R016	Unsaturated zone 1 (cm**3/g)	not used	5.000E+01	---	DCNUCU(18,1)
R016	Saturated zone (cm**3/g)	not used	5.000E+01	---	DCNUCS(18)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.166E-05	ALEACH(18)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(18)
R017	Inhalation rate (m**3/yr)	1.100E+04	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	1.000E-03	1.000E-04	---	MLINH
R017	Exposure duration	1.000E+00	3.000E+01	---	ED
R017	Shielding factor, inhalation	1.000E+00	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	1.000E+00	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	0.000E+00	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	2.300E-01	2.500E-01	---	FOTD
R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.	FS
R017	Radii of shape factor array (used if FS = -1):				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	RAD_SHAPE( 1)
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	RAD_SHAPE( 2)
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	RAD_SHAPE( 3)
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	RAD_SHAPE( 4)
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	RAD_SHAPE( 5)
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	RAD_SHAPE( 6)
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	RAD_SHAPE( 7)
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	RAD_SHAPE( 8)
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	RAD_SHAPE( 9)
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	RAD_SHAPE(10)
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	RAD_SHAPE(11)
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	RAD_SHAPE(12)
R017	Fractions of annular areas within AREA:				
R017	Ring 1	not used	1.000E+00	---	FRACA( 1)
R017	Ring 2	not used	2.732E-01	---	FRACA( 2)
R017	Ring 3	not used	0.000E+00	---	FRACA( 3)
R017	Ring 4	not used	0.000E+00	---	FRACA( 4)
R017	Ring 5	not used	0.000E+00	---	FRACA( 5)
R017	Ring 6	not used	0.000E+00	---	FRACA( 6)
R017	Ring 7	not used	0.000E+00	---	FRACA( 7)
R017	Ring 8	not used	0.000E+00	---	FRACA( 8)
R017	Ring 9	not used	0.000E+00	---	FRACA( 9)
R017	Ring 10	not used	0.000E+00	---	FRACA(10)
R017	Ring 11	not used	0.000E+00	---	FRACA(11)
R017	Ring 12	not used	0.000E+00	---	FRACA(12)
R018	Fruits, vegetables and grain consumption (kg/yr)	not used	1.600E+02	---	DIET(1)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R018	Leafy vegetable consumption (kg/yr)	not used	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	not used	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	not used	6.300E+01	---	DIET(4)
R018	Fish consumption (kg/yr)	not used	5.400E+00	---	DIET(5)
R018	Other seafood consumption (kg/yr)	not used	9.000E-01	---	DIET(6)
R018	Soil ingestion rate (g/yr)	1.752E+02	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	not used	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	not used	1.000E+00	---	FDW



R018	Contamination fraction of household water	not used	1.000E+00	---	FHHW
R018	Contamination fraction of livestock water	not used	1.000E+00	---	FLW
R018	Contamination fraction of irrigation water	not used	1.000E+00	---	PIRW
R018	Contamination fraction of aquatic food	not used	5.000E-01	---	FR9
R018	Contamination fraction of plant food	not used	-1	---	FPLANT
R018	Contamination fraction of meat	not used	-1	---	FMEAT
R018	Contamination fraction of milk	not used	-1	---	FMILK
R019	Livestock fodder intake for meat (kg/day)	not used	6.800E+01	---	LFIS
R019	Livestock fodder intake for milk (kg/day)	not used	5.500E+01	---	LFM6
R019	Livestock water intake for meat (L/day)	not used	5.000E+01	---	LWIS
R019	Livestock water intake for milk (L/day)	not used	1.600E+02	---	LWIG
R019	Livestock soil intake (kg/day)	not used	5.000E-01	---	LS1
R019	Mass loading for foliar deposition (g/m**3)	not used	1.000E-04	---	MLPD
R019	Depth of soil mixing layer (m)	1.500E-01	1.500E-01	---	DM
R019	Depth of roots (m)	not used	9.000E-01	---	DROOT
R019	Drinking water fraction from ground water	1.000E+00	1.000E+00	---	FGWDW
R019	Household water fraction from ground water	not used	1.000E+00	---	FGWHH
R019	Livestock water fraction from ground water	not used	1.000E+00	---	FGWLW
R019	Irrigation fraction from ground water	not used	1.000E+00	---	FGWIR
R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	not used	7.000E-01	---	YV(1)
R19B	Wet weight crop yield for Leafy (kg/m**2)	not used	1.500E+00	---	YV(2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	not used	1.100E+00	---	YV(3)
R19B	Growing Season for Non-Leafy (years)	not used	1.700E-01	---	TE(1)
R19B	Growing Season for Leafy (years)	not used	3.500E-01	---	TE(2)
R19B	Growing Season for Fodder (years)	not used	8.000E-02	---	TE(3)
R19B	Translocation Factor for Non-Leafy	not used	1.000E-01	---	TIV(1)
R19B	Translocation Factor for Leafy	not used	1.000E+00	---	TIV(2)
R19B	Translocation Factor for Fodder	not used	1.000E+00	---	TIV(3)
R19B	Dry Foliar Interception Fraction for Non-Leafy	not used	3.500E-01	---	RDRY(1)
R19B	Dry Foliar Interception Fraction for Leafy	not used	2.500E-01	---	RDRY(2)
R19B	Dry Foliar Interception Fraction for Fodder	not used	2.500E-01	---	RDRY(3)
R19B	Wet Foliar Interception Fraction for Non-Leafy	not used	2.500E-01	---	RWET(1)
R19B	Wet Foliar Interception Fraction for Leafy	not used	2.500E-01	---	RWET(2)
R19B	Wet Foliar Interception Fraction for Fodder	not used	2.500E-01	---	RWET(3)
R19B	Weathering Removal Constant for Vegetation	not used	2.000E+01	---	WLAM
C14	C-12 concentration in water (g/cm**3)	not used	2.000E-05	---	C12WTR
C14	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02	---	C12CZ
C14	Fraction of vegetation carbon from soil	not used	2.000E-02	---	CSOIL
C14	Fraction of vegetation carbon from air	not used	9.800E-01	---	CAIR
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01	---	DMC

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Site-Specific Parameter Summary (continued)

0 Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07	---	EVSN
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10	---	REVSN
C14	Fraction of grain in beef cattle feed	not used	8.000E-01	---	AVFG4
C14	Fraction of grain in milk cow feed	not used	2.000E-01	---	AVFG5
STOR	Storage times of contaminated foodstuffs (days):				
STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01	---	STOR_T(1)
STOR	Leafy vegetables	1.000E+00	1.000E+00	---	STOR_T(2)

STOR	Milk	1.000E+00	1.000E+00	---	STOR_T (3)
STOR	Meat and poultry	2.000E+01	2.000E+01	---	STOR_T (4)
STOR	Fish	7.000E+00	7.000E+00	---	STOR_T (5)
STOR	Crustacea and mollusks	7.000E+00	7.000E+00	---	STOR_T (6)
STOR	Well water	1.000E+00	1.000E+00	---	STOR_T (7)
STOR	Surface water	1.000E+00	1.000E+00	---	STOR_T (8)
STOR	Livestock fodder	4.500E+01	4.500E+01	---	STOR_T (9)
R021	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR
R021	Bulk density of building foundation (g/cm <sup>3</sup> )	not used	2.400E+00	---	DENSFL
R021	Total porosity of the cover material	not used	4.000E-01	---	TPCV
R021	Total porosity of the building foundation	not used	1.000E-01	---	TPFL
R021	Volumetric water content of the cover material	not used	5.000E-02	---	PH2OCV
R021	Volumetric water content of the foundation	not used	3.000E-02	---	PH2OFL
R021	Diffusion coefficient for radon gas (m/sec):				
R021	in cover material	not used	2.000E-06	---	DIFCV
R021	in foundation material	not used	3.000E-07	---	DIFFL
R021	in contaminated zone soil	not used	2.000E-06	---	DIFCZ
R021	Radon vertical dimension of mixing (m)	not used	2.000E+00	---	HMIX
R021	Average building air exchange rate (1/hr)	not used	5.000E-01	---	REXG
R021	Height of the building (room) (m)	not used	2.500E+00	---	HRM
R021	Building interior area factor	not used	0.000E+00	---	FAI
R021	Building depth below ground surface (m)	not used	-1.000E+00	---	DMFL
R021	Emanating power of Rn-222 gas	not used	2.500E-01	---	EMANA (1)
R021	Emanating power of Rn-220 gas	not used	1.500E-01	---	EMANA (2)

Summary of Pathway Selections

Pathway	User Selection
1 -- external gamma	active
2 -- inhalation (w/o radon)	active
3 -- plant ingestion	suppressed
4 -- meat ingestion	suppressed
5 -- milk ingestion	suppressed
6 -- aquatic foods	suppressed
7 -- drinking water	suppressed
8 -- soil ingestion	active
9 -- radon	suppressed
Find peak pathway doses	suppressed

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Summary : RESRAD Default Parameters    File: WORK12-E.RAD

Contaminated Zone Dimensions

Area: 2195.00 square meters  
Thickness: 1.80 meters  
Cover Depth: 0.00 meters

Initial Soil Concentrations, pCi/g

Ac-227 1.000E+02  
Co-57 1.000E+02  
Co-60 1.000E+02  
Cs-137 1.000E+02  
H-3 1.000E+02  
Pa-231 1.000E+02  
Pb-210 1.000E+02  
Pm-147 1.000E+02  
Pu-239 1.000E+02

Ra-226 1.000E+02  
 Ra-228 1.000E+02  
 Sm-147 1.000E+02  
 Th-228 1.000E+02  
 Th-230 1.000E+02  
 Th-232 1.000E+02  
 U-234 1.000E+02  
 U-235 1.000E+02  
 U-238 1.000E+02

0

Total Dose: TDOSE(t), mrem/yr  
 Basic Radiation Dose Limit = 10 mrem/yr  
 Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years): 0.000E+00 1.000E+00 3.000E+00 1.000E+01 3.000E+01 1.000E+02 3.000E+02 1.000E+03  
 TDOSE(t): 1.593E+03 1.543E+03 1.468E+03 1.320E+03 1.215E+03 1.178E+03 1.167E+03 1.154E+03  
 M(t): 1.593E+02 1.543E+02 1.468E+02 1.320E+02 1.215E+02 1.178E+02 1.167E+02 1.154E+02  
 Maximum TDOSE(t): 1.593E+03 mrem/yr at t = 0.000E+00 years  
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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years  
 Water Independent Pathways (Inhalation excludes radon)

0

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	4.232E+01	0.0266	2.139E+02	0.1343	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.964E+01	0.0374
Co-57	1.071E+01	0.0067	2.888E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.755E-03	0.0000
Co-60	3.381E+02	0.2122	6.972E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.084E-01	0.0001
Cs-137	7.061E+01	0.0443	1.016E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.015E-01	0.0001
H-3	0.000E+00	0.0000	3.258E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.579E-04	0.0000
Pb-210	1.324E-01	0.0001	7.386E-01	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.930E+01	0.0184
Pm-147	1.072E-03	0.0000	1.248E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.231E-03	0.0000
Pu-239	6.352E-03	0.0000	1.366E+01	0.0086	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.426E+01	0.0090
Ra-226	2.343E+02	0.1470	2.738E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.359E+00	0.0034
Ra-228	1.249E+02	0.0784	1.617E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.803E+00	0.0036
Sm-147	0.000E+00	0.0000	2.378E+00	0.0015	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.455E-01	0.0005
Th-228	2.138E+02	0.1342	1.098E+01	0.0069	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.256E+00	0.0020
Th-230	2.043E-02	0.0000	1.038E+01	0.0065	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.208E+00	0.0014
Th-232	1.120E-02	0.0000	5.221E+01	0.0328	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.100E+01	0.0069
U-234	8.689E-03	0.0000	4.302E+00	0.0026	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.140E+00	0.0007
U-235	1.610E+01	0.0101	3.916E+00	0.0025	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.076E+00	0.0007
U-238	2.869E+00	0.0018	3.757E+00	0.0024	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.084E+00	0.0007
Total	1.058E+03	0.6640	3.574E+02	0.2243	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.779E+02	0.1117

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years  
 Water Dependent Pathways

0

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.

Radionuclide	Ground	Inhalation	Radon	Radon	Plant	Meat	Milk	Soil
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.159E+02
Co-60	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.071E+01
Cs-137	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.382E+02
H-3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.081E+01
I-131	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.284E+02
Ir-192	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.751E+01
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.017E+01
Pb-214	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.551E+03
Pu-239	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.793E+01
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.394E+02
Sm-147	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.309E+02
Th-232	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.124E+00
Th-234	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.281E+02
U-235	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.261E+01
U-238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.322E+01
Total	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.351E+00
U-235	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.104E+01
U-238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.710E+00
Total	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.593E+03

U-Sum of all water independent and dependent pathways.  
 IRESRAD, Version 5.82 Td Limit = 0.5 year 05/17/00 08:47 Page 16  
 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Total Dose Contributions TPOSE(i,P,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Radionuclide	Ground	Inhalation	Radon	Radon	Plant	Meat	Milk	Soil
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	4.094E+01	0.0266	2.072E+02	0.1343	0.000E+00	0.000E+00	0.000E+00	5.777E+01
Co-60	4.504E+00	0.0027	1.134E-04	0.0000	0.000E+00	0.000E+00	0.000E+00	1.867E-03
Cs-137	2.964E+02	0.1921	6.112E-03	0.0000	0.000E+00	0.000E+00	0.000E+00	9.503E-02
H-3	6.899E+01	0.0447	9.423E-04	0.0000	0.000E+00	0.000E+00	0.000E+00	1.969E-01
I-131	0.000E+00	0.0000	8.224E-03	0.0000	0.000E+00	0.000E+00	0.000E+00	6.509E-05
Ir-192	5.375E+00	0.0035	4.745E+01	0.0307	0.000E+00	0.000E+00	0.000E+00	4.458E+01
Pb-210	1.243E-01	0.0001	7.115E-01	0.0005	0.000E+00	0.000E+00	0.000E+00	2.840E+01
Pb-214	8.232E-04	0.0000	9.581E-04	0.0000	0.000E+00	0.000E+00	0.000E+00	3.248E-03
Pu-239	6.325E-03	0.0000	1.366E+01	0.0088	0.000E+00	0.000E+00	0.000E+00	1.426E+01
Ra-226	2.342E+02	0.1517	2.963E-01	0.0002	0.000E+00	0.000E+00	0.000E+00	6.253E+00
Ra-228	1.717E+02	0.1113	3.277E+00	0.0021	0.000E+00	0.000E+00	0.000E+00	6.072E+00
Sm-147	0.000E+00	0.0000	2.578E+00	0.0015	0.000E+00	0.000E+00	0.000E+00	7.454E-01
Th-232	1.488E+02	0.0964	7.645E+00	0.0050	0.000E+00	0.000E+00	0.000E+00	2.266E+00
Th-234	1.274E+01	0.0001	1.038E+01	0.0067	0.000E+00	0.000E+00	0.000E+00	2.211E+00
U-235	1.819E+01	0.0118	5.224E+01	0.0340	0.000E+00	0.000E+00	0.000E+00	1.172E+01
U-238	8.689E-03	0.0000	4.222E+00	0.0027	0.000E+00	0.000E+00	0.000E+00	1.140E+00
U-235	1.610E+01	0.0104	3.917E+00	0.0025	0.000E+00	0.000E+00	0.000E+00	1.077E+00
U-238	2.869E+00	0.0019	3.757E+00	0.0024	0.000E+00	0.000E+00	0.000E+00	1.084E+00
Total	1.908E+03	0.6532	3.574E+02	0.2315	0.000E+00	0.000E+00	0.000E+00	1.779E+02

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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Total Dose Contributions TPOSE(i,P,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Radionuclide	Water	Fish	Radon	Plant	Meat	Milk	All Pathways*
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr
Ac-227	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Co-60	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cs-137	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H-3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-131	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ir-192	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-214	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-239	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-228	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sm-147	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-232	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-234	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-235	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Total	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Radio-Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.060E+02	0.1983
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.207E+00	0.0027
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.965E+02	0.1921
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.919E+01	0.0448
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.289E-03	0.0000
Pu-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.741E+01	0.0631
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.924E+01	0.0189
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.030E-03	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.793E+01	0.0181
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.407E+02	0.1560
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.811E+02	0.1173
Sr-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.123E+00	0.0020
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.588E+02	0.1029
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.272E+01	0.0082
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.234E+01	0.0533
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.351E+00	0.0035
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.109E+01	0.0137
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.710E+00	0.0050
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.543E+03	1.0000

Σ Cum of all water independent and dependent pathways.

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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years  
 Water Independent Pathways (Inhalation excludes radon)

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	3.846E+01	0.0262	1.944E+02	0.1324	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.420E+01	0.0369
Co-57	6.486E-01	0.0004	1.749E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.880E-04	0.0000
Co-60	2.278E+02	0.1552	4.698E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.303E-03	0.0000
Cs-137	6.587E+01	0.0449	9.475E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.880E-01	0.0001
H-3	0.000E+00	0.0000	5.239E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.146E-06	0.0000
Pu-231	7.903E+00	0.0054	6.023E+01	0.0410	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.814E+01	0.0328
Pu-238	1.205E-01	0.0001	6.726E-01	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.668E+01	0.0182
Pm-147	4.855E-04	0.0000	5.648E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.915E-03	0.0000
Pu-239	6.352E-03	0.0000	1.366E+01	0.0093	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.426E+01	0.0097
Ra-226	2.340E+02	0.1594	3.391E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.958E+00	0.0054
Ra-228	2.022E+02	0.1377	6.026E+00	0.0041	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.795E+00	0.0039
Sr-147	0.000E+00	0.0000	2.378E+00	0.0016	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.453E-01	0.0005
Th-228	7.211E+01	0.0491	3.704E+00	0.0025	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.098E+00	0.0007
Th-230	3.302E-01	0.0002	1.038E+01	0.0071	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.217E+00	0.0015
Th-232	6.451E+01	0.0439	5.362E+01	0.0365	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.317E+01	0.0090
U-234	8.692E-03	0.0000	4.202E+00	0.0029	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.140E+00	0.0008
U-235	1.610E+01	0.0110	3.919E+00	0.0027	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.079E+00	0.0007
U-238	2.869E+00	0.0020	3.756E+00	0.0026	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.084E+00	0.0007
Total	9.329E+02	0.6355	3.573E+02	0.2434	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.778E+02	0.1211

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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.871E+02	0.1956
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.489E-01	0.0004
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.279E+02	0.1552
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.606E+01	0.0450
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.280E-04	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.163E+02	0.0792
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.747E+01	0.0187
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.965E-03	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.793E+01	0.0190
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.423E+02	0.1650
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.140E+02	0.1458
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.123E+00	0.0021
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.692E+01	0.0524
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.293E+01	0.0088
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.313E+02	0.0894
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.351E+00	0.0036
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.110E+01	0.0144
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.709E+00	0.0053
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.468E+03	1.0000

0\*Sum of all water independent and dependent pathways.  
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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	3.077E+01	0.0233	1.556E+02	0.1178	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.337E+01	0.0328
Co-57	9.344E-04	0.0000	2.520E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.149E-07	0.0000
Co-60	9.067E+01	0.0687	1.870E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.907E-02	0.0000
Cs-137	5.602E+01	0.0424	8.058E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.599E-01	0.0001
H-3	0.000E+00	0.0000	3.410E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.699E-10	0.0000
Pa-231	1.558E+01	0.0118	9.904E+01	0.0750	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.895E+01	0.0447
Pb-210	9.688E-02	0.0001	5.406E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.144E+01	0.0162
Pm-147	7.629E-05	0.0000	8.879E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.010E-04	0.0000
Pu-239	6.350E-03	0.0000	1.365E+01	0.0103	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.426E+01	0.0108
Ra-226	2.333E+02	0.1767	4.693E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.314E+01	0.0100
Ra-228	1.249E+02	0.0946	4.539E+00	0.0034	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.069E+00	0.0023
Sm-147	0.000E+00	0.0000	2.376E+00	0.0018	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.449E-01	0.0006
Th-228	5.709E+00	0.0043	2.932E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.692E-02	0.0001
Th-230	1.038E+00	0.0008	1.038E+01	0.0079	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.249E+00	0.0017
Th-232	2.082E+02	0.1577	5.852E+01	0.0443	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.690E+01	0.0128
U-234	8.733E-03	0.0000	4.201E+00	0.0032	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.140E+00	0.0009
U-235	1.610E+01	0.0122	3.929E+00	0.0030	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.086E+00	0.0008
U-238	2.868E+00	0.0022	3.755E+00	0.0028	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.084E+00	0.0008
Total	7.852E+02	0.5948	3.573E+02	0.2706	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.777E+02	0.1346

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.297E+02	0.1740
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.349E-04	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.070E+01	0.0687
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.618E+01	0.0426
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.437E-08	0.0000
Pu-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.736E+02	0.1315
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.208E+01	0.0167
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.661E-04	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.792E+01	0.0211
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.469E+02	0.1870
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.325E+02	0.1003
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.121E+00	0.0024
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.089E+00	0.0046
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.367E+01	0.0104
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.836E+02	0.2148
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.350E+00	0.0041
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.111E+01	0.0160
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.707E+00	0.0058
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.320E+03	1.0000

\*Sum of all water independent and dependent pathways.

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Summary : RESRAD default Parameters

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 3.000E+01 years

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	1.627E+01	0.0134	8.225E+01	0.0677	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.293E+01	0.0184
Co-57	7.115E-12	0.0000	1.919E-16	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.159E-15	0.0000
Co-60	6.519E+00	0.0054	1.344E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.090E-03	0.0000
Cs-137	3.527E+01	0.0290	5.073E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.000E-01	0.0001
H-3	0.000E+00	0.0000	3.668E-20	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.903E-22	0.0000
Pu-231	3.005E+01	0.0247	1.722E+02	0.1417	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.930E+01	0.0653
Pb-210	5.191E-02	0.0000	2.896E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.144E+01	0.0095
Pm-147	3.862E-07	0.0000	4.495E-07	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.524E-06	0.0000
Pu-239	6.345E-03	0.0000	1.364E+01	0.0112	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.425E+01	0.0117
Ra-226	2.313E+02	0.1904	7.140E-01	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.289E+01	0.0188
Ra-228	1.196E+01	0.0098	4.464E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.870E-01	0.0002
Sm-147	0.000E+00	0.0000	2.472E+00	0.0020	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.437E-01	0.0006
Th-228	4.068E-03	0.0000	2.089E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.194E-05	0.0000
Th-230	3.050E+00	0.0025	1.038E+01	0.0085	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.408E+00	0.0020
Th-232	3.267E+02	0.2640	6.289E+01	0.0518	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.977E+01	0.0163
U-234	9.093E-03	0.0000	4.200E+00	0.0035	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.139E+00	0.0009
U-235	1.609E+01	0.0132	3.985E+00	0.0033	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.115E+00	0.0009
U-238	3.866E+00	0.0024	3.752E+00	0.0031	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.083E+00	0.0009

Total 6.801E+02 0.5599 3.571E+02 0.2940 0.000E+00 0.0000 0.000E+00 0.0000 0.000E+00 0.0000 0.000E+00 0.0000 1.775E+02 0.1461  
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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+01 years

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.215E+02	0.1000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.119E-12	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.521E+00	0.0054
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.537E+01	0.0291
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.697E-20	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.815E+02	0.2318
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.183E+01	0.0097
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.360E-06	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.789E+01	0.0230
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.549E+02	0.2098
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.270E+01	0.0105
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.116E+00	0.0026
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.339E-03	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.584E+01	0.0130
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.094E+02	0.3370
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.348E+00	0.0044
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.119E+01	0.0174
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.701E+00	0.0063
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.215E+03	1.0000

\*Sum of all water independent and dependent pathways.  
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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	1.749E+00	0.0015	8.841E+00	0.0075	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.465E+00	0.0021
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	6.498E-04	0.0000	1.340E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.083E-07	0.0000
Cs-137	6.981E+00	0.0059	1.004E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.992E-02	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	4.443E+01	0.0377	2.448E+02	0.2077	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.945E+01	0.0844
Pb-210	5.842E-03	0.0000	3.260E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.293E+00	0.0011
Pm-147	3.564E-15	0.0000	5.839E-11	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.832E-11	0.0000
Pu-239	6.327E-03	0.0000	1.360E+01	0.0115	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.421E+01	0.0121
Ra-226	2.243E+02	0.1903	9.432E-01	0.0008	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.215E+01	0.0273
Ra-228	2.589E-03	0.0000	9.662E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.209E-05	0.0000
Sm-147	0.000E+00	0.0000	2.359E+00	0.0020	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.395E-01	0.0006
Th-228	3.930E-14	0.0000	2.019E-15	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.984E-16	0.0000
Th-230	9.947E+00	0.0084	1.039E+01	0.0088	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.292E+00	0.0028
Th-232	3.384E+02	0.2872	6.328E+01	0.0537	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.004E+01	0.0170



U-234	1.317E-02	0.0000	4.193E+00	0.0036	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.138E+00	0.0010
U-235	1.611E+01	0.0137	4.301E+00	0.0036	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.249E+00	0.0011
U-238	2.858E+00	0.0024	3.742E+00	0.0032	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.080E+00	0.0009
<b>Total</b>	<b>6.448E+02</b>	<b>0.5472</b>	<b>3.565E+02</b>	<b>0.3020</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>1.771E+02</b>	<b>0.1503</b>

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Total Dose Contributions THOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.305E+01	0.0111
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.500E-04	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.001E+00	0.0059
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Po-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.887E+02	0.3298
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.332E+00	0.0011
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.671E-11	0.0000
Po-214	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.781E+01	0.0236
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.574E+02	0.2184
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.748E-03	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.099E+00	0.0026
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.192E-14	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.363E+01	0.0201
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.217E+02	0.3579
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.344E+00	0.0045
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.166E+01	0.0184
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.680E+00	0.0065
<b>Total</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>1.178E+03</b>	<b>1.0000</b>

Sum of all water independent and dependent pathways.  
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Total Dose Contributions THOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	2.986E-03	0.0000	1.510E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.209E-03	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	2.399E-15	0.0000	4.948E-20	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.692E-19	0.0000
Cs-137	6.823E-02	0.0001	9.814E-07	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.947E-04	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Po-210	4.575E+01	0.0392	2.513E+02	0.2153	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.010E+02	0.0865
Pb-210	1.138E-05	0.0000	6.352E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.519E-03	0.0000
Pm-147	0.000E+00	0.0000	5.745E-11	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.801E-11	0.0000
Po-214	6.278E-03	0.0000	1.349E+01	0.0116	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.409E+01	0.0121
Ra-226	2.054E+02	0.1759	8.937E-01	0.0008	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.063E+01	0.0262
Ra-228	8.747E-14	0.0000	3.264E-15	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.098E-15	0.0000
Sr-90	0.000E+00	0.0000	2.321E+00	0.0020	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.276E-01	0.0006

Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	2.847E+01	0.0244	1.043E+01	0.0089	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0052
Th-232	3.376E+02	0.2892	6.314E+01	0.0541	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0171
U-234	4.776E-02	0.0000	4.175E+00	0.0036	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0010
U-235	1.616E+01	0.0138	5.323E+00	0.0046	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0014
U-238	2.834E+00	0.0024	3.714E+00	0.0032	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0009
Total	6.363E+02	0.5451	3.548E+02	0.3039	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.1510

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.229E-02	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.400E-15	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.843E-02	0.0001
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.981E+02	0.3410
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.594E-03	0.0000
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.546E-11	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.758E+01	0.0236
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.369E+02	0.2029
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.283E-14	0.0000
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.049E+00	0.0026
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.493E+01	0.0385
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.208E+02	0.3604
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.358E+00	0.0046
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.315E+01	0.0198
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.619E+00	0.0065
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.167E+03	1.0000

\*Sum of all water independent and dependent pathways.  
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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	6.146E-13	0.0000	3.107E-12	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.662E-13	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	6.299E-09	0.0000	9.060E-14	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.797E-11	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	4.431E+01	0.0384	2.434E+02	0.2110	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.780E+01	0.0848
Pb-210	3.716E-15	0.0000	2.073E-14	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.224E-13	0.0000
Pm-147	0.000E+00	0.0000	5.429E-11	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.702E-11	0.0000
Pu-239	6.107E-03	0.0000	1.310E+01	0.0114	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.368E+01	0.0119

Ra-226	1.509E+02	0.1308	6.566E-01	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.250E+01	0.0195
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sm-147	0.000E+00	0.0000	2.194E+00	0.0019	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.876E-01	0.0006
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	8.125E+01	0.0704	1.051E+01	0.0091	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.388E+01	0.0120
Th-232	3.349E+02	0.2903	6.263E+01	0.0543	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.983E+01	0.0172
U-234	3.964E-01	0.0003	4.112E+00	0.0036	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.164E+00	0.0010
U-235	1.636E+01	0.0142	8.780E+00	0.0076	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.068E+00	0.0027
U-238	2.753E+00	0.0024	3.615E+00	0.0031	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.043E+00	0.0009
Total	6.309E+02	0.5469	3.490E+02	0.3025	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.736E+02	0.1505

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Total Dose Contributions TDSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.588E-12	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.317E-09	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.855E+02	0.3342
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.468E-13	0.0000
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.131E-11	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.678E+01	0.0232
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.740E+02	0.1509
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.881E+00	0.0025
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.056E+02	0.0916
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.174E+02	0.3618
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.672E+00	0.0049
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.820E+01	0.0245
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.411E+00	0.0064
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.154E+03	1.0000

\*Sum of all water independent and dependent pathways.  
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Dose/Source Ratios Summed over All Pathways  
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t = 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Ac-227	1.000E+00	3.159E+00	3.060E+00	2.871E+00	2.297E+00	1.215E+00	1.305E-01	2.229E-04	4.588E-14
Co-57	Co-57	1.000E+00	1.071E-01	4.207E-02	6.489E-03	9.349E-06	7.119E-14	2.742E-42	0.000E+00	0.000E+00
Co-60	Co-60	1.000E+00	3.382E+00	2.965E+00	2.279E+00	9.070E-01	6.521E-02	6.500E-06	2.400E-17	0.000E+00
Cs-137	Cs-137	1.000E+00	7.081E-01	6.919E-01	6.606E-01	5.618E-01	3.537E-01	7.001E-02	6.843E-04	6.317E-11
H-3	H-3	1.000E+00	3.284E-04	8.289E-05	5.280E-06	3.437E-10	3.697E-22	0.000E+00	0.000E+00	0.000E+00
Pa-231	Pa-231	1.000E+00	8.751E-01	8.751E-01	8.750E-01	8.747E-01	8.739E-01	8.711E-01	8.633E-01	8.359E-01
Pb-210	Ac-227	1.000E+00	0.000E+00	4.898E-02	2.877E-01	8.610E-01	1.941E+00	3.016E+00	3.117E+00	3.019E+00
Pu-239	ESR(j)		8.751E-01	9.741E-01	1.163E+00	1.736E+00	2.815E+00	3.887E+00	3.981E+00	3.892E+00

OPb-210	Pb-210	1.000E+00	3.017E-01	2.924E-01	2.747E-01	2.208E-01	1.183E-01	1.332E-02	2.594E-05	8.468E-15
OPm-147	Pm-147	1.000E+00	6.551E-05	5.030E-05	2.965E-05	4.661E-06	2.360E-08	2.178E-16	2.407E-39	0.000E+00
Pm-147	Sm-147	1.000E+00	0.000E+00	1.795E-13	4.230E-13	7.174E-13	7.709E-13	7.669E-13	7.546E-13	7.131E-13
Pm-147	ΣDSR(j)		6.551E-05	5.030E-05	2.965E-05	4.661E-06	2.360E-08	7.671E-13	7.546E-13	7.131E-13
OPu-239	Pu-239	1.000E+00	2.793E-01	2.793E-01	2.793E-01	2.792E-01	2.789E-01	2.781E-01	2.758E-01	2.678E-01
Pu-239	U-235	1.000E+00	0.000E+00	2.077E-10	6.232E-10	2.077E-09	6.225E-09	2.069E-08	6.155E-08	1.992E-07
Pu-239	Pa-231	1.000E+00	0.000E+00	9.119E-15	8.205E-14	9.114E-13	8.196E-12	9.079E-11	8.101E-10	8.733E-09
Pu-239	Ac-227	1.000E+00	0.000E+00	3.531E-16	9.213E-15	3.230E-13	7.540E-12	1.839E-10	2.377E-09	2.962E-08
Pu-239	ΣDSR(j)		2.793E-01	2.793E-01	2.793E-01	2.792E-01	2.789E-01	2.781E-01	2.758E-01	2.678E-01
ORa-226	Ra-226	1.000E+00	2.399E+00	2.398E+00	2.396E+00	2.388E+00	2.367E+00	2.295E+00	2.102E+00	1.544E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	9.230E-03	2.683E-02	8.036E-02	1.813E-01	2.782E-01	2.670E-01	1.962E-01
Ra-226	ΣDSR(j)		2.399E+00	2.407E+00	2.423E+00	2.469E+00	2.549E+00	2.574E+00	2.369E+00	1.740E+00
ORa-228	Ra-228	1.000E+00	1.309E+00	1.160E+00	9.117E-01	3.921E-01	3.517E-02	7.608E-06	2.571E-16	0.000E+00
Ra-228	Th-228	1.000E+00	0.000E+00	6.507E-01	1.228E+00	9.325E-01	9.179E-02	1.987E-05	6.713E-16	0.000E+00
Ra-228	ΣDSR(j)		1.309E+00	1.811E+00	2.140E+00	1.325E+00	1.270E-01	2.748E-05	9.283E-16	0.000E+00
OSm-147	Sm-147	1.000E+00	3.124E-02	3.123E-02	3.123E-02	3.121E-02	3.116E-02	3.099E-02	3.049E-02	2.881E-02
OTh-228	Th-228	1.000E+00	2.281E+00	1.588E+00	7.692E-01	6.089E-02	4.339E-05	4.192E-16	0.000E+00	0.000E+00
OTh-230	Th-230	1.000E+00	1.261E-01	1.261E-01	1.261E-01	1.261E-01	1.261E-01	1.259E-01	1.254E-01	1.236E-01
Th-230	Ra-226	1.000E+00	0.000E+00	1.039E-03	3.116E-03	1.037E-02	3.096E-02	1.016E-01	2.911E-01	8.313E-01
Th-230	Pb-210	1.000E+00	0.000E+00	2.010E-06	1.771E-05	1.832E-04	1.363E-03	8.865E-03	3.278E-02	1.015E-01
Th-230	ΣDSR(j)		1.261E-01	1.272E-01	1.293E-01	1.367E-01	1.584E-01	2.363E-01	4.493E-01	1.056E+00
OTh-232	Th-232	1.000E+00	6.322E-01	6.322E-01	6.322E-01	6.322E-01	6.320E-01	6.315E-01	6.301E-01	6.250E-01
Th-232	Ra-228	1.000E+00	0.000E+00	1.486E-01	3.972E-01	9.167E-01	1.273E+00	1.307E+00	1.304E+00	1.294E+00
Th-232	Th-228	1.000E+00	0.000E+00	4.252E-02	2.836E-01	1.287E+00	2.188E+00	2.278E+00	2.273E+00	2.255E+00
Th-232	ΣDSR(j)		6.322E-01	8.234E-01	1.313E+00	2.836E+00	4.094E+00	4.217E+00	4.208E+00	4.174E+00

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Dose/Source Ratios Summed Over All Pathways

Parent and Progeny Principal Radionuclide Contributions Indicated

OParent (i)	Product (j)	Branch Fraction*	DSR(j,t) (mrem/yr)/(pCi/g)							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
U-234	U-234	1.000E+00	5.351E-02	5.351E-02	5.351E-02	5.349E-02	5.344E-02	5.328E-02	5.280E-02	5.119E-02
U-234	Th-230	1.000E+00	0.000E+00	1.135E-06	3.406E-06	1.135E-05	3.403E-05	1.132E-04	3.373E-04	1.099E-03
U-234	Ra-226	1.000E+00	0.000E+00	4.677E-09	4.208E-08	4.670E-07	4.189E-06	4.600E-05	4.004E-04	3.970E-03
U-234	Pb-210	1.000E+00	0.000E+00	6.046E-12	1.607E-10	5.640E-09	1.317E-07	3.209E-06	4.076E-05	4.687E-04
U-234	ΣDSR(j)		5.351E-02	5.351E-02	5.351E-02	5.350E-02	5.348E-02	5.344E-02	5.358E-02	5.672E-02
OU-235	U-235	1.000E+00	2.109E-01	2.109E-01	2.109E-01	2.108E-01	2.107E-01	2.101E-01	2.083E-01	2.023E-01
U-235	Pa-231	1.000E+00	0.000E+00	1.852E-05	5.554E-05	1.851E-04	5.548E-04	1.844E-03	5.482E-03	1.772E-02
U-235	Ac-227	1.000E+00	0.000E+00	1.053E-06	9.276E-06	9.591E-05	7.127E-04	4.652E-03	1.773E-02	6.200E-02
U-235	ΣDSR(j)		2.109E-01	2.109E-01	2.110E-01	2.111E-01	2.119E-01	2.166E-01	2.315E-01	2.820E-01
OU-238	U-238	1.000E+00	7.710E-02	7.710E-02	7.709E-02	7.707E-02	7.701E-02	7.678E-02	7.614E-02	7.396E-02
U-238	U-234	1.000E+00	0.000E+00	1.517E-07	4.551E-07	1.516E-06	4.545E-06	1.511E-05	4.493E-05	1.453E-04
U-238	Th-230	1.000E+00	0.000E+00	1.609E-12	1.448E-11	1.609E-10	1.447E-09	1.604E-08	1.433E-07	1.553E-06
U-238	Ra-226	1.000E+00	0.000E+00	4.453E-15	1.194E-13	4.414E-12	1.189E-10	4.360E-09	1.146E-07	3.867E-06
U-238	Pb-210	1.000E+00	0.000E+00	1.446E-17	3.544E-16	4.059E-14	2.924E-12	2.550E-10	1.066E-08	4.424E-07
U-238	ΣDSR(j)		7.710E-02	7.710E-02	7.709E-02	7.707E-02	7.701E-02	7.680E-02	7.619E-02	7.411E-02

\*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)\*BRF(2)\* ... BRF(j).  
 The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Single Radionuclide Soil Guidelines G(i,t) in pCi/g  
 Basic Radiation Dose Limit = 10 mrem/yr

ONuclide (i)	t=							
	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	3.166E+00	3.268E+00	3.483E+00	4.353E+00	8.234E+00	7.660E+01	4.486E+04	*7.230E+13

Co-57	4.334E+01	2.377E+02	1.541E+03	1.070E+06	1.405E+14	*8.464E+15	*8.464E+15	*8.464E+15
Co-60	2.956E+00	3.372E+00	4.388E+00	1.103E+01	1.533E+02	1.539E+06	*1.131E+15	*1.131E+15
Cs-137	1.412E+01	1.445E+01	1.514E+01	1.780E+01	2.827E+01	1.428E+02	1.461E+04	1.583E+11
H-3	3.045E+04	1.206E+05	1.884E+06	2.909E+10	*9.594E+15	*9.594E+15	*9.594E+15	*9.594E+15
Pu-231	1.143E+01	1.027E+01	8.601E+00	5.761E+00	3.552E+00	2.573E+00	2.512E+00	2.594E+00
Pb-210	3.315E+01	3.420E+01	3.640E+01	4.529E+01	8.453E+01	7.510E+02	3.855E+05	*7.631E+13
Pm-147	1.526E+05	1.988E+05	3.373E+05	2.145E+06	4.238E+08	1.304E+13	1.325E+13	1.402E+13
Pu-239	3.581E+01	3.581E+01	3.581E+01	3.582E+01	3.585E+01	3.596E+01	3.626E+01	3.734E+01
Ru-226	4.169E+00	4.155E+00	4.128E+00	4.051E+00	3.924E+00	3.886E+00	4.221E+00	5.746E+00
Ru-228	7.640E+00	5.522E+00	4.674E+00	7.549E+00	7.876E+01	3.640E+05	*2.726E+14	*2.726E+14
Sr-147	3.201E+02	3.202E+02	3.202E+02	3.204E+02	3.209E+02	3.227E+02	3.240E+02	3.471E+02
Th-228	4.384E+00	6.299E+00	1.300E+01	1.642E+02	2.305E+05	*8.192E+14	*8.192E+14	*8.192E+14
Th-230	7.928E+01	7.864E+01	7.737E+01	7.318E+01	6.314E+01	4.232E+01	2.226E+01	9.466E+00
Th-232	1.582E+01	1.214E+01	7.616E+00	3.526E+00	2.443E+00	2.371E+00	2.377E+00	2.396E+00
U-234	1.869E+02	1.869E+02	1.869E+02	1.869E+02	1.870E+02	1.871E+02	1.866E+02	1.763E+02
U-235	4.741E+01	4.741E+01	4.740E+01	4.736E+01	4.718E+01	4.618E+01	4.319E+01	3.545E+01
U-238	1.297E+02	1.297E+02	1.297E+02	1.298E+02	1.299E+02	1.302E+02	1.313E+02	1.349E+02

\*AI specific activity limit  
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Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)  
 and Single Radionuclide Soil Guidelines G(i,t) in pCi/g  
 at tmin = time of minimum single radionuclide soil guideline  
 and at tmax = time of maximum total dose = 0.000E+00 years

ONuclide (i)	Initial pCi/g	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
Ac-227	1.000E+02	0.000E+00	3.159E+00	3.166E+00	3.159E+00	3.166E+00
Co-57	1.000E+02	0.000E+00	1.071E-01	9.434E+01	1.071E-01	9.434E+01
Co-60	1.000E+02	0.000E+00	3.382E+00	2.956E+00	3.382E+00	2.956E+00
Cs-137	1.000E+02	0.000E+00	7.081E-01	1.412E+01	7.081E-01	1.412E+01
H-3	1.000E+02	0.000E+00	3.284E-04	3.045E+04	3.284E-04	3.045E+04
Pu-231	1.000E+02	198.1 ± 0.4	3.944E+00	2.504E+00	8.751E-01	1.143E+01
Pb-210	1.000E+02	0.000E+00	3.017E-01	3.315E+01	3.017E-01	3.315E+01
Pm-147	1.000E+02	0.000E+00	6.551E-05	1.526E+05	6.551E-05	1.526E+05
Pu-239	1.000E+02	0.000E+00	2.793E-01	3.581E+01	2.793E-01	3.581E+01
Ru-226	1.000E+02	67.6 ± 0.1	2.587E+00	3.865E+00	2.399E+00	4.169E+00
Ru-228	1.000E+02	3.211 ± 0.006	2.142E+00	4.669E+00	1.309E+00	7.640E+00
Sr-147	1.000E+02	0.000E+00	3.124E-02	3.201E+02	3.124E-02	3.201E+02
Th-228	1.000E+02	0.000E+00	2.281E+00	4.384E+00	2.281E+00	4.384E+00
Th-230	1.000E+02	1.000E+03	1.056E+00	9.466E+00	1.261E-01	7.928E+01
Th-232	1.000E+02	78.1 ± 0.2	4.218E+00	2.371E+00	6.322E-01	1.582E+01
U-234	1.000E+02	1.000E+03	5.672E-02	1.763E+02	5.351E-02	1.869E+02
U-235	1.000E+02	1.000E+03	2.820E-01	3.545E+01	2.109E-01	4.741E+01
U-238	1.000E+02	0.000E+00	7.710E-02	1.297E+02	7.710E-02	1.297E+02

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 Summary : RESRAD Default Parameters File: WORK12-E.RAD

Individual Nuclide Dose Summed Over All Pathways  
 Parent Nuclide and Branch Fraction Indicated

ONuclide (j)	Parent (i)	BRF(i)	DOSE(j,t), mrem/yr							
			L= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Ac-227	1.000E+00	3.159E+02	3.060E+02	2.871E+02	2.297E+02	1.215E+02	1.305E+01	2.229E-02	4.588E-12

Ac-227	Pa-231	1.000E+00	0.000E+00	9.898E+00	2.877E+01	8.610E+01	1.941E+02	3.016E+02	3.117E+02	3.019E+02
Ac-227	Pu-239	1.000E+00	0.000E+00	3.531E-14	9.213E-13	3.230E-11	7.540E-10	1.839E-08	2.377E-07	2.962E-06
Ac-227	U-235	1.000E+00	0.000E+00	1.053E-04	9.276E-04	9.591E-03	7.127E-02	4.652E-01	1.773E+00	6.200E+00
Ac-227	EDOSE(j):		3.159E+02	3.159E+02	3.159E+02	3.158E+02	3.156E+02	3.151E+02	3.135E+02	3.081E+02
OC0-57	Co-57	1.000E+00	1.071E+01	4.207E+00	6.489E-01	9.349E-04	7.119E-12	0.000E+00	0.000E+00	0.000E+00
OC0-60	Co-60	1.000E+00	3.382E+02	2.965E+02	2.279E+02	9.070E+01	6.521E+00	6.500E-04	2.400E-15	0.000E+00
OCs-137	Cs-137	1.000E+00	7.081E+01	6.919E+01	6.606E+01	5.618E+01	3.537E+01	7.001E+00	6.843E-02	6.317E-09
OH-3	H-3	1.000E+00	3.284E-02	8.289E-03	5.280E-04	3.437E-08	3.697E-20	0.000E+00	0.000E+00	0.000E+00
OPa-231	Pa-231	1.000E+00	8.751E+01	8.751E+01	8.750E+01	8.747E+01	8.739E+01	8.711E+01	8.632E+01	8.359E+01
Pa-231	Pu-239	1.000E+00	0.000E+00	9.119E-13	8.205E-12	9.114E-11	8.196E-10	9.079E-09	8.101E-08	8.733E-07
Pa-231	U-235	1.000E+00	0.000E+00	1.852E-03	5.554E-03	1.851E-02	5.548E-02	1.844E-01	5.482E-01	1.772E+00
Pa-231	EDOSE(j):		8.751E+01	8.751E+01	8.751E+01	8.749E+01	8.745E+01	8.730E+01	8.687E+01	8.536E+01
OPb-210	Pb-210	1.000E+00	3.017E+01	2.924E+01	2.747E+01	2.208E+01	1.183E+01	1.332E+00	2.594E-03	8.468E-13
Pb-210	Ra-226	1.000E+00	0.000E+00	9.230E-01	2.683E+00	8.036E+00	1.813E+01	2.782E+01	2.670E+01	1.962E+01
Pb-210	Th-230	1.000E+00	0.000E+00	2.010E-04	1.771E-03	1.832E-02	1.363E-01	8.865E-01	3.278E+00	1.015E+01
Pb-210	U-234	1.000E+00	0.000E+00	6.046E-10	1.607E-08	5.640E-07	1.317E-05	3.209E-04	4.076E-03	4.687E-02
Pb-210	U-238	1.000E+00	0.000E+00	1.446E-15	3.544E-14	4.059E-12	2.924E-10	2.550E-08	1.066E-06	4.424E-05
Pb-210	EDOSE(j):		3.017E+01	3.016E+01	3.016E+01	3.013E+01	3.009E+01	3.004E+01	2.999E+01	2.981E+01
OPm-147	Pm-147	1.000E+00	6.551E-03	5.030E-03	2.965E-03	4.661E-04	2.360E-06	2.178E-14	0.000E+00	0.000E+00
OSm-147	Pm-147	1.000E+00	0.000E+00	1.795E-11	4.230E-11	7.174E-11	7.709E-11	7.669E-11	7.546E-11	7.131E-11
Sm-147	Sm-147	1.000E+00	3.124E+00	3.123E+00	3.123E+00	3.121E+00	3.116E+00	3.099E+00	3.049E+00	2.881E+00
Sm-147	EDOSE(j):		3.124E+00	3.123E+00	3.123E+00	3.121E+00	3.116E+00	3.099E+00	3.049E+00	2.881E+00
OPu-239	Pu-239	1.000E+00	2.793E+01	2.793E+01	2.793E+01	2.792E+01	2.789E+01	2.781E+01	2.758E+01	2.678E+01
OU-235	Pu-239	1.000E+00	0.000E+00	2.077E-08	6.232E-08	2.077E-07	6.225E-07	2.069E-06	6.155E-06	1.992E-05
U-235	U-235	1.000E+00	2.109E+01	2.109E+01	2.109E+01	2.108E+01	2.107E+01	2.101E+01	2.083E+01	2.023E+01
U-235	EDOSE(j):		2.109E+01	2.109E+01	2.109E+01	2.108E+01	2.107E+01	2.101E+01	2.083E+01	2.023E+01
ORa-226	Ra-226	1.000E+00	2.399E+02	2.398E+02	2.396E+02	2.388E+02	2.367E+02	2.295E+02	2.102E+02	1.544E+02
Ra-226	Th-230	1.000E+00	0.000E+00	1.039E-01	3.116E-01	1.037E+00	3.096E+00	1.016E+01	2.911E+01	8.313E+01
Ra-226	U-234	1.000E+00	0.000E+00	4.677E-07	4.208E-06	4.670E-05	4.189E-04	4.600E-03	4.004E-02	3.970E-01
Ra-226	U-238	1.000E+00	0.000E+00	4.453E-13	1.194E-11	4.414E-10	1.189E-08	4.360E-07	1.146E-05	3.867E-04
Ra-226	EDOSE(j):		2.399E+02	2.399E+02	2.399E+02	2.399E+02	2.398E+02	2.397E+02	2.393E+02	2.379E+02
ORa-228	Ra-228	1.000E+00	1.309E+02	1.160E+02	9.117E+01	3.921E+01	3.517E+00	7.608E-04	2.571E-14	0.000E+00
Ra-228	Th-232	1.000E+00	0.000E+00	1.486E+01	3.972E+01	9.167E+01	1.273E+02	1.307E+02	1.304E+02	1.294E+02
Ra-228	EDOSE(j):		1.309E+02	1.309E+02	1.309E+02	1.309E+02	1.309E+02	1.307E+02	1.304E+02	1.294E+02

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Summary : RESRAD Default Parameters      File: WORK12-E.RAD

Individual Nuclide Dose Summed Over All Pathways  
Parent Nuclide and Branch Fraction Indicated

ONuclide (j)	Parent (i)	BRF(i)	DOSE(j,t), mrem/yr							
			t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02
Th-228	Ra-228	1.000E+00	0.000E+00	6.507E+01	1.228E+02	9.325E+01	9.179E+00	1.987E-03	6.713E-14	0.000E+00
Th-228	Th-228	1.000E+00	2.281E+02	1.588E+02	7.692E+01	6.089E+00	4.339E-03	4.192E-14	0.000E+00	0.000E+00
Th-228	Th-232	1.000E+00	0.000E+00	4.252E+00	2.836E+01	1.287E+02	2.188E+02	2.278E+02	2.273E+02	2.255E+02
Th-228	EDOSE(j):		2.281E+02	2.281E+02	2.281E+02	2.281E+02	2.280E+02	2.278E+02	2.273E+02	2.255E+02
OTh-230	Th-230	1.000E+00	1.261E+01	1.261E+01	1.261E+01	1.261E+01	1.261E+01	1.259E+01	1.254E+01	1.236E+01
Th-230	U-234	1.000E+00	0.000E+00	1.135E-04	3.406E-04	1.135E-03	3.403E-03	1.132E-02	3.373E-02	1.099E-01
Th-230	U-238	1.000E+00	0.000E+00	1.609E-10	1.448E-09	1.609E-08	1.447E-07	1.604E-06	1.433E-05	1.553E-04
Th-230	EDOSE(j):		1.261E+01	1.261E+01	1.261E+01	1.261E+01	1.261E+01	1.260E+01	1.257E+01	1.247E+01
OTh-232	Th-232	1.000E+00	6.322E+01	6.322E+01	6.322E+01	6.322E+01	6.320E+01	6.315E+01	6.301E+01	6.250E+01
OU-234	U-234	1.000E+00	5.351E+00	5.351E+00	5.351E+00	5.349E+00	5.344E+00	5.328E+00	5.280E+00	5.119E+00
U-234	U-238	1.000E+00	0.000E+00	1.517E-05	4.551E-05	1.516E-04	4.545E-04	1.511E-03	4.493E-03	1.453E-02
U-234	EDOSE(j):		5.351E+00	5.351E+00	5.351E+00	5.349E+00	5.345E+00	5.329E+00	5.285E+00	5.133E+00
OU-238	U-238	1.000E+00	7.710E+00	7.710E+00	7.709E+00	7.707E+00	7.701E+00	7.678E+00	7.614E+00	7.396E+00

BRF(i) is the branch fraction of the parent nuclide.  
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Individual Nuclide Soil Concentration  
Parent Nuclide and Branch Fraction Indicated

ONuclide (i)	Parent (i)	BRF(i)	t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Ac-227	1.000E+00	1.000E+02	9.686E+01	9.088E+01	7.271E+01	3.845E+01	4.132E+00	7.057E-03	1.452E-12	
Ac-227	Pu-231	1.000E+00	0.000E+00	3.133E+00	9.108E+00	2.726E+01	6.145E+01	9.546E+01	9.868E+01	9.557E+01	
Ac-227	Pu-239	1.000E+00	0.000E+00	1.118E-14	2.917E-13	1.023E-11	2.387E-10	5.821E-09	7.524E-08	9.376E-07	
Ac-227	U-235	1.000E+00	0.000E+00	3.332E-05	2.937E-04	3.036E-03	2.256E-02	1.473E-01	5.611E-01	1.964E+00	
Ac-227	ES(j):		1.000E+02	1.000E+02	9.999E+01	9.997E+01	9.992E+01	9.974E+01	9.925E+01	9.754E+01	
Co-57	Co-57	1.000E+00	1.000E+02	3.927E+01	6.057E+00	8.722E-03	6.645E-11	2.560E-39	0.000E+00	0.000E+00	
Co-60	Co-60	1.000E+00	1.000E+02	8.767E+01	6.738E+01	2.681E+01	1.928E+00	1.922E-04	7.096E-16	0.000E+00	
Cs-137	Cs-137	1.000E+00	1.000E+02	9.771E+01	9.329E+01	7.934E+01	4.995E+01	9.887E+00	9.664E-02	8.921E-09	
H-3	H-3	1.000E+00	1.000E+02	2.524E+01	1.608E+00	1.047E-04	1.126E-16	0.000E+00	0.000E+00	0.000E+00	
Pu-231	Pa-231	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.995E+01	9.986E+01	9.954E+01	9.863E+01	9.552E+01	
Pu-231	Pu-239	1.000E+00	0.000E+00	1.042E-12	9.376E-12	1.041E-10	9.365E-10	1.037E-08	9.257E-08	9.979E-07	
Pu-231	U-235	1.000E+00	0.000E+00	2.116E-03	6.347E-03	2.115E-02	6.339E-02	2.107E-01	6.265E-01	2.025E+00	
Pu-231	ES(j):		1.000E+02	1.000E+02	9.999E+01	9.998E+01	9.993E+01	9.975E+01	9.926E+01	9.754E+01	
Pb-210	Pb-210	1.000E+00	1.000E+02	9.693E+01	9.106E+01	7.320E+01	3.921E+01	4.414E+00	8.600E-03	2.807E-12	
Pb-210	Ra-226	1.000E+00	0.000E+00	3.060E+00	8.896E+00	2.664E+01	6.009E+01	9.222E+01	8.832E+01	6.504E+01	
Pb-210	Th-230	1.000E+00	0.000E+00	6.662E-04	5.872E-03	6.074E-02	4.517E-01	2.939E+00	1.087E+01	3.364E+01	
Pb-210	U-234	1.000E+00	0.000E+00	2.004E-09	5.327E-08	1.870E-06	4.367E-05	1.064E-03	1.351E-02	1.554E-01	
Pb-210	U-238	1.000E+00	0.000E+00	4.795E-15	1.175E-13	1.345E-11	4.692E-10	8.454E-08	3.535E-06	1.466E-04	
Pb-210	ES(j):		1.000E+02	9.999E+01	9.997E+01	9.989E+01	9.976E+01	9.958E+01	9.941E+01	9.883E+01	
Pm-147	Pm-147	1.000E+00	1.000E+02	7.677E+01	4.525E+01	7.115E+00	3.602E-02	3.324E-10	3.673E-33	0.000E+00	
Sm-147	Pm-147	1.000E+00	0.000E+00	5.746E-10	1.354E-09	2.297E-09	2.468E-09	2.455E-09	2.416E-09	2.283E-09	
Sm-147	Sm-147	1.000E+00	1.000E+02	9.999E+01	9.998E+01	9.992E+01	9.976E+01	9.920E+01	9.760E+01	9.224E+01	
Sm-147	ES(j):		1.000E+02	9.999E+01	9.998E+01	9.992E+01	9.976E+01	9.920E+01	9.760E+01	9.224E+01	
Pu-239	Pu-239	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.987E+01	9.958E+01	9.875E+01	9.590E+01	
U-235	Pu-239	1.000E+00	0.000E+00	9.848E-08	2.954E-07	9.845E-07	2.951E-06	4.808E-06	2.918E-05	9.446E-05	
U-235	U-235	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.988E+01	9.958E+01	9.876E+01	9.592E+01	
U-235	ES(j):		1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.988E+01	9.958E+01	9.876E+01	9.592E+01	
Ra-226	Ra-226	1.000E+00	1.000E+02	9.996E+01	9.987E+01	9.956E+01	9.869E+01	9.569E+01	8.762E+01	6.437E+01	
Ra-226	Th-230	1.000E+00	0.000E+00	4.331E-02	1.299E-01	4.322E-01	1.291E+00	4.234E+00	1.214E+01	3.466E+01	
Ra-226	U-234	1.000E+00	0.000E+00	1.950E-07	1.754E-06	1.947E-05	1.746E-04	1.917E-03	1.669E-02	1.655E-01	
Ra-226	U-238	1.000E+00	0.000E+00	1.856E-13	4.978E-12	1.840E-10	4.955E-09	1.818E-07	4.776E-06	1.612E-04	
Ra-226	ES(j):		1.000E+02	1.000E+02	1.000E+02	9.999E+01	9.998E+01	9.993E+01	9.977E+01	9.919E+01	
Ra-228	Ra-228	1.000E+00	1.000E+02	8.864E+01	6.965E+01	2.995E+01	2.687E+00	5.813E-04	1.964E-14	0.000E+00	
Ra-228	Th-232	1.000E+00	0.000E+00	1.136E+01	3.035E+01	7.004E+01	9.728E+01	9.984E+01	9.966E+01	9.886E+01	
Ra-228	ES(j):		1.000E+02	1.000E+02	1.000E+02	9.999E+01	9.997E+01	9.989E+01	9.966E+01	9.886E+01	

RESRAD, Version 5.82      T<sub>1/2</sub> Limit = 0.5 year      05/17/00 08:47      Page 36  
Summary : RESRAD Default Parameters      File: WORK12-E.RAD

Individual Nuclide Soil Concentration  
Parent Nuclide and Branch Fraction Indicated

ONuclide (i)	Parent (i)	BRF(i)	t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Th-228	Ra-228	1.000E+00	0.000E+00	2.853E+01	5.384E+01	4.089E+01	4.024E+00	8.711E-04	2.943E-14	0.000E+00	
Th-228	Th-228	1.000E+00	1.000E+02	6.961E+01	3.372E+01	2.670E+00	1.902E-03	1.838E-14	0.000E+00	0.000E+00	
Th-228	Th-232	1.000E+00	0.000E+00	1.864E+00	1.243E+01	5.643E+01	9.594E+01	9.984E+01	9.966E+01	9.886E+01	
Th-228	ES(j):		1.000E+02	1.000E+02	1.000E+02	9.999E+01	9.997E+01	9.989E+01	9.966E+01	9.886E+01	
Th-230	Th-230	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.998E+01	9.994E+01	9.980E+01	9.939E+01	9.797E+01	
Th-230	U-234	1.000E+00	0.000E+00	9.002E-04	2.700E-03	8.999E-03	2.699E-02	8.973E-02	2.674E-01	8.714E-01	
Th-230	U-238	1.000E+00	0.000E+00	1.276E-09	1.148E-08	1.276E-07	1.147E-06	1.271E-05	1.136E-04	1.231E-03	
Th-230	ES(j):		1.000E+02	1.000E+02	1.000E+02	9.999E+01	9.997E+01	9.989E+01	9.966E+01	9.886E+01	

0Th-232	Th-232	1.000E+00	1.000E+02	1.000E+02	1.000E+02	9.999E+01	9.997E+01	9.989E+01	9.966E+01	9.886E+01
0U-234	U-234	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.987E+01	9.956E+01	9.867E+01	9.565E+01
U-234	U-238	1.000E+00	0.000E+00	2.835E-04	8.504E-04	2.834E-03	8.494E-03	2.823E-02	8.396E-02	2.715E-01
U-234	$\Sigma S(j)$ :		1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.988E+01	9.958E+01	9.876E+01	9.592E+01
0U-238	U-238	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.988E+01	9.958E+01	9.876E+01	9.592E+01

BRF(i) is the branch fraction of the parent nuclide.



**Representative RESRAD Output from Residential DCGL Determination (Disposal Pit A/B)**

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Dose Conversion Factor (and Related) Parameter Summary  
 File: DOSFAC.BIN

Menu	Parameter	Current Value	Default	Parameter Name
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Ac-227+D	6.720E+00	6.720E+00	DCF2 ( 1)
B-1	Co-57	9.070E-06	9.070E-06	DCF2 ( 2)
B-1	Co-60	2.190E-04	2.190E-04	DCF2 ( 3)
B-1	Cs-137+D	3.190E-05	3.190E-05	DCF2 ( 4)
B-1	H-3	6.400E-08	6.400E-08	DCF2 ( 5)
B-1	Pa-231	1.280E+00	1.280E+00	DCF2 ( 6)
B-1	Pb-210+D	2.320E-02	2.320E-02	DCF2 ( 7)
B-1	Pm-147	3.920E-05	3.920E-05	DCF2 ( 8)
B-1	Pu-239	4.290E-01	4.290E-01	DCF2 ( 9)
B-1	Ra-226+D	8.600E-03	8.600E-03	DCF2 (10)
B-1	Ra-228+D	5.080E-03	5.080E-03	DCF2 (11)
B-1	Sm-147	7.470E-02	7.470E-02	DCF2 (12)
B-1	Th-228+D	3.450E-01	3.450E-01	DCF2 (13)
B-1	Th-230	3.260E-01	3.260E-01	DCF2 (14)
B-1	Th-232	1.640E+00	1.640E+00	DCF2 (15)
B-1	U-234	1.320E-01	1.320E-01	DCF2 (16)
B-1	U-235+D	1.230E-01	1.230E-01	DCF2 (17)
B-1	U-238+D	1.180E-01	1.180E-01	DCF2 (18)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Ac-227+D	1.480E-02	1.480E-02	DCF3 ( 1)
D-1	Co-57	1.180E-06	1.180E-06	DCF3 ( 2)
D-1	Co-60	2.690E-05	2.690E-05	DCF3 ( 3)
D-1	Cs-137+D	5.000E-05	5.000E-05	DCF3 ( 4)

D-1	H-3	6.400E-08	6.400E-08	DCF3 ( 5)
D-1	Pu-231	1.060E-02	1.060E-02	DCF3 ( 6)
D-1	Pb-210+D	7.270E-03	7.270E-03	DCF3 ( 7)
D-1	Pm-147	1.050E-06	1.050E-06	DCF3 ( 8)
D-1	Pu-239	3.540E-03	3.540E-03	DCF3 ( 9)
D-1	Ra-226+D	1.330E-03	1.330E-03	DCF3 (10)
D-1	Ra-228+D	1.440E-03	1.440E-03	DCF3 (11)
D-1	Sr-90	1.850E-04	1.850E-04	DCF3 (12)
D-1	Th-232+D	8.080E-04	8.080E-04	DCF3 (13)
D-1	Th-230	5.480E-04	5.480E-04	DCF3 (14)
D-1	Th-232	2.730E-03	2.730E-03	DCF3 (15)
D-1	U-234	2.830E-04	2.830E-04	DCF3 (16)
D-1	U-235+D	2.670E-04	2.670E-04	DCF3 (17)
D-1	U-238+D	2.690E-04	2.690E-04	DCF3 (18)
D-34 Food transfer factors:				
D-34	Ac-227+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF( 1,1)
D-34	Ac-227+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF( 1,2)
D-34	Ac-227+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF( 1,3)
D-34	Co-57 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF( 2,1)
D-34	Co-57 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF( 2,2)
D-34	Co-57 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF( 2,3)

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 Summary : RESRAD Default Parameters File: RESE6.RAD

Dose Conversion Factor (and Related) Parameter Summary (continued)  
 File: DOSFAC.BIN

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF( 3,1)
D-34	Co-60 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF( 3,2)
D-34	Co-60 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF( 3,3)
D-34	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF( 4,1)
D-34	Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-02	3.000E-02	RTF( 4,2)
D-34	Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF( 4,3)
D-34	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF( 5,1)
D-34	H-3 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.200E-02	1.200E-02	RTF( 5,2)
D-34	H-3 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF( 5,3)
D-34	Pu-231 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF( 6,1)
D-34	Pu-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF( 6,2)
D-34	Pu-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF( 6,3)
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF( 7,1)
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF( 7,2)
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF( 7,3)
D-34	Pm-147 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF( 8,1)
D-34	Pm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF( 8,2)
D-34	Pm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF( 8,3)
D-34	Pu-239 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF( 9,1)
D-34	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF( 9,2)

D-34	Pu-239	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF( 9,3)
D-34	Ra-226+D	, plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(10,1)
D-34	Ra-226+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(10,2)
D-34	Ra-226+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(10,3)
D-34	Ra-228+D	, plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(11,1)
D-34	Ra-228+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(11,2)
D-34	Ra-228+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(11,3)
D-34	Sm-147	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(12,1)
D-34	Sm-147	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(12,2)
D-34	Sm-147	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(12,3)
D-34	Th-228+D	, plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(13,1)
D-34	Th-228+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(13,2)
D-34	Th-228+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(13,3)
D-34	Th-230	, plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(14,1)
D-34	Th-230	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(14,2)
D-34	Th-230	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(14,3)
D-34	Th-232	, plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(15,1)
D-34	Th-232	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(15,2)
D-34	Th-232	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(15,3)

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 Summary : RESRAD Default Parameters File: RESE6.RAD

Dose Conversion Factor (and Related) Parameter Summary (continued)  
 File: DOSFAC.BIN

Menu	Parameter	Current Value	Default	Parameter Name	
D-34	U-234	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(16,1)
D-34	U-234	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(16,2)
D-34	U-234	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(16,3)
D-34	U-235+D	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(17,1)
D-34	U-235+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(17,2)
D-34	U-235+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(17,3)
D-34	U-238+D	, plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(18,1)
D-34	U-238+D	, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(18,2)
D-34	U-238+D	, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(18,3)
D-5	Bioaccumulation factors, fresh water, L/kg:				
D-5	Ac-227+D	, fish	1.500E+01	1.500E+01	BIOFAC( 1,1)
D-5	Ac-227+D	, crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC( 1,2)
D-5	Co-57	, fish	3.000E+02	3.000E+02	BIOFAC( 2,1)
D-5	Co-57	, crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC( 2,2)
D-5	Co-60	, fish	3.000E+02	3.000E+02	BIOFAC( 3,1)
D-5	Co-60	, crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC( 3,2)
D-5	Cs-137+D	, fish	2.000E+03	2.000E+03	BIOFAC( 4,1)
D-5	Cs-137+D	, crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 4,2)

D-5	H-3	, fish	1.000E+00	1.000E+00	BIOFAC( 5,1)
D-5	H-3	, crustacea and mollusks	1.000E+00	1.000E+00	BIOFAC( 5,2)
D-5					
D-5	Pd-231	, fish	1.000E+01	1.000E+01	BIOFAC( 6,1)
D-5	Pd-231	, crustacea and mollusks	1.100E+02	1.100E+02	BIOFAC( 6,2)
D-5					
D-5	Pb-210+D	, fish	3.000E+02	3.000E+02	BIOFAC( 7,1)
D-5	Pb-210+D	, crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 7,2)
D-5					
D-5	Pm-147	, fish	3.000E+01	3.000E+01	BIOFAC( 8,1)
D-5	Pm-147	, crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC( 8,2)
D-5					
D-5	Pu-239	, fish	3.000E+01	3.000E+01	BIOFAC( 9,1)
D-5	Pu-239	, crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 9,2)
D-5					
D-5	Ra-226+D	, fish	5.000E+01	5.000E+01	BIOFAC(10,1)
D-5	Ra-226+D	, crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(10,2)
D-5					
D-5	Ra-228+D	, fish	5.000E+01	5.000E+01	BIOFAC(11,1)
D-5	Ra-228+D	, crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(11,2)
D-5					
D-5	Sm-147	, fish	2.500E+01	2.500E+01	BIOFAC(12,1)
D-5	Sm-147	, crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(12,2)
D-5					
D-5	Th-228+D	, fish	1.000E+02	1.000E+02	BIOFAC(13,1)
D-5	Th-228+D	, crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(13,2)

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Summary : RESRAD Default Parameters      File: RESE6.RAD

Dose Conversion Factor (and Related) Parameter Summary (continued)  
File: DOSEFAC.BIN

0 Menu	Parameter	Current Value	Default	Parameter Name
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC(14,1)
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(14,2)
D-5				
D-5	Th-232 , fish	1.000E+02	1.000E+02	BIOFAC(15,1)
D-5	Th-232 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(15,2)
D-5				
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC(16,1)
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(16,2)
D-5				
D-5	U-235+D , fish	1.000E+01	1.000E+01	BIOFAC(17,1)
D-5	U-235+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(17,2)
D-5				
D-5	U-238+D , fish	1.000E+01	1.000E+01	BIOFAC(18,1)
D-5	U-238+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(18,2)

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Summary : RESRAD Default Parameters      File: RESE6.RAD

Site-Specific Parameter Summary

0 Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R011	Area of contaminated zone (m**2)	2.195E+03	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	1.830E+00	2.000E+00	---	THICK0

R011	Length parallel to aquifer flow (m)	5.030E+01	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	1.000E+01	3.000E+01	---	BRDL
R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---	TI
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---	T( 2)
R011	Times for calculations (yr)	3.000E+00	3.000E+00	---	T( 3)
R011	Times for calculations (yr)	1.000E+01	1.000E+01	---	T( 4)
R011	Times for calculations (yr)	3.000E+01	3.000E+01	---	T( 5)
R011	Times for calculations (yr)	1.000E+02	1.000E+02	---	T( 6)
R011	Times for calculations (yr)	3.000E+02	3.000E+02	---	T( 7)
R011	Times for calculations (yr)	1.000E+03	1.000E+03	---	T( 8)
R011	Times for calculations (yr)	not used	0.000E+00	---	T( 9)
R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
R012	Initial principal radionuclide (pCi/g): Ac-227	1.000E+02	0.000E+00	---	S1( 1)
R012	Initial principal radionuclide (pCi/g): Co-57	1.000E+02	0.000E+00	---	S1( 2)
R012	Initial principal radionuclide (pCi/g): Co-60	1.000E+02	0.000E+00	---	S1( 3)
R012	Initial principal radionuclide (pCi/g): Cs-137	1.000E+02	0.000E+00	---	S1( 4)
R012	Initial principal radionuclide (pCi/g): H-3	1.000E+02	0.000E+00	---	S1( 5)
R012	Initial principal radionuclide (pCi/g): Pa-231	1.000E+02	0.000E+00	---	S1( 6)
R012	Initial principal radionuclide (pCi/g): Pb-210	1.000E+02	0.000E+00	---	S1( 7)
R012	Initial principal radionuclide (pCi/g): Pm-147	1.000E+02	0.000E+00	---	S1( 8)
R012	Initial principal radionuclide (pCi/g): Pu-239	1.000E+02	0.000E+00	---	S1( 9)
R012	Initial principal radionuclide (pCi/g): Ra-226	1.000E+02	0.000E+00	---	S1(10)
R012	Initial principal radionuclide (pCi/g): Ra-228	1.000E+02	0.000E+00	---	S1(11)
R012	Initial principal radionuclide (pCi/g): Sm-147	1.000E+02	0.000E+00	---	S1(12)
R012	Initial principal radionuclide (pCi/g): Th-228	1.000E+02	0.000E+00	---	S1(13)
R012	Initial principal radionuclide (pCi/g): Th-230	1.000E+02	0.000E+00	---	S1(14)
R012	Initial principal radionuclide (pCi/g): Th-232	1.000E+02	0.000E+00	---	S1(15)
R012	Initial principal radionuclide (pCi/g): U-234	1.000E+02	0.000E+00	---	S1(16)
R012	Initial principal radionuclide (pCi/g): U-235	1.000E+02	0.000E+00	---	S1(17)
R012	Initial principal radionuclide (pCi/g): U-238	1.000E+02	0.000E+00	---	S1(18)
R012	Concentration in groundwater (pCi/L): Ac-227	not used	0.000E+00	---	W1( 1)
R012	Concentration in groundwater (pCi/L): Co-57	not used	0.000E+00	---	W1( 2)
R012	Concentration in groundwater (pCi/L): Co-60	not used	0.000E+00	---	W1( 3)
R012	Concentration in groundwater (pCi/L): Cs-137	not used	0.000E+00	---	W1( 4)
R012	Concentration in groundwater (pCi/L): H-3	not used	0.000E+00	---	W1( 5)
R012	Concentration in groundwater (pCi/L): Pa-231	not used	0.000E+00	---	W1( 6)
R012	Concentration in groundwater (pCi/L): Pb-210	not used	0.000E+00	---	W1( 7)
R012	Concentration in groundwater (pCi/L): Pm-147	not used	0.000E+00	---	W1( 8)
R012	Concentration in groundwater (pCi/L): Pu-239	not used	0.000E+00	---	W1( 9)
R012	Concentration in groundwater (pCi/L): Ra-226	not used	0.000E+00	---	W1(10)
R012	Concentration in groundwater (pCi/L): Ra-228	not used	0.000E+00	---	W1(11)
R012	Concentration in groundwater (pCi/L): Sm-147	not used	0.000E+00	---	W1(12)
R012	Concentration in groundwater (pCi/L): Th-228	not used	0.000E+00	---	W1(13)
R012	Concentration in groundwater (pCi/L): Th-230	not used	0.000E+00	---	W1(14)
R012	Concentration in groundwater (pCi/L): Th-232	not used	0.000E+00	---	W1(15)
R012	Concentration in groundwater (pCi/L): U-234	not used	0.000E+00	---	W1(16)
R012	Concentration in groundwater (pCi/L): U-235	not used	0.000E+00	---	W1(17)
R012	Concentration in groundwater (pCi/L): U-238	not used	0.000E+00	---	W1(18)

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Site-Specific Parameter Summary (continued)					
Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R013	Cover depth (m)	0.000E+00	0.000E+00	---	COVER0
R013	Density of cover material (g/cm <sup>3</sup> )	not used	1.500E+00	---	DENSCV

R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---	VCV
R013	Density of contaminated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	6.000E-05	1.000E-03	---	VCZ
R013	Contaminated zone total porosity	3.700E-01	4.000E-01	---	TPCZ
R013	Contaminated zone effective porosity	1.750E-01	2.000E-01	---	EPCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	2.080E+02	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	7.750E+00	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	3.000E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	6.600E+00	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	7.000E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	7.500E-01	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	0.000E+00	2.000E-01	---	RI
R013	Irrigation mode	overhead	overhead	---	IRITCH
R013	Runoff coefficient	2.000E-01	2.000E-01	---	RUNOFF
R013	Watershed area for nearby stream or pond (m**2)	1.000E+06	1.000E+06	---	WAREA
R013	Accuracy for water/soil computations	1.000E-03	1.000E-03	---	EPS
R014	Density of saturated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	3.700E-01	4.000E-01	---	TPSZ
R014	Saturated zone effective porosity	1.750E-01	2.000E-01	---	EPSZ
R014	Saturated zone hydraulic conductivity (m/yr)	2.080E+02	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	1.200E-02	2.000E-02	---	HGWT
R014	Saturated zone b parameter	5.300E+00	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	0.000E+00	1.000E-03	---	VWT
R014	Well pump intake depth (m below water table)	3.000E+00	1.000E+01	---	DWIBWT
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	5.000E+01	2.500E+02	---	UW
R015	Number of unsaturated zone strata	1	1	---	NS
R015	Unsat. zone 1, thickness (m)	1.000E+00	4.000E+00	---	H(1)
R015	Unsat. zone 1, soil density (g/cm**3)	1.500E+00	1.500E+00	---	DENSUZ(1)
R015	Unsat. zone 1, total porosity	3.700E-01	4.000E-01	---	TPUZ(1)
R015	Unsat. zone 1, effective porosity	1.750E-01	2.000E-01	---	EPUZ(1)
R015	Unsat. zone 1, soil-specific b parameter	7.750E+00	5.300E+00	---	BUZ(1)
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	2.080E+02	1.000E+01	---	RCUZ(1)
R016	Distribution coefficients for Ac-227				
R016	Contaminated zone (cm**3/g)	2.400E+03	2.000E+01	---	DCNUCC( 1)
R016	Unsat. zone 1 (cm**3/g)	2.400E+03	2.000E+01	---	DCNUCU( 1,1)
R016	Saturated zone (cm**3/g)	2.400E+03	2.000E+01	---	DCNUCS( 1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.732E-05	ALEACH( 1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK( 1)
R016	Distribution coefficients for Co-57				
R016	Contaminated zone (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCC( 2)
R016	Unsat. zone 1 (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCU( 2,1)
R016	Saturated zone (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCS( 2)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.192E-04	ALEACH( 2)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK( 2)

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Menu	Parameter	User Input	Default	Used by RESRAD (if different from user input)	Parameter Name
R016	Distribution coefficients for Co-60				
R016	Contaminated zone (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCC( 3)

R016	Unsaturated zone 1 (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCU ( 3,1)
R016	Saturated zone (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCS ( 3)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.192E-04	ALEACH ( 3)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 3)
R016	Distribution coefficients for Cs-137				
R016	Contaminated zone (cm**3/g)	1.900E+03	1.000E+03	---	DCNUCC ( 4)
R016	Unsaturated zone 1 (cm**3/g)	1.900E+03	1.000E+03	---	DCNUCU ( 4,1)
R016	Saturated zone (cm**3/g)	1.900E+03	1.000E+03	---	DCNUCS ( 4)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.451E-05	ALEACH ( 4)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 4)
R016	Distribution coefficients for H-3				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC ( 5)
R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU ( 5,1)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS ( 5)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.892E-01	ALEACH ( 5)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 5)
R016	Distribution coefficients for Pa-231				
R016	Contaminated zone (cm**3/g)	2.700E+03	5.000E+01	---	DCNUCC ( 6)
R016	Unsaturated zone 1 (cm**3/g)	2.700E+03	5.000E+01	---	DCNUCU ( 6,1)
R016	Saturated zone (cm**3/g)	2.700E+03	5.000E+01	---	DCNUCS ( 6)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.429E-05	ALEACH ( 6)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 6)
R016	Distribution coefficients for Pb-210				
R016	Contaminated zone (cm**3/g)	5.500E+02	1.000E+02	---	DCNUCC ( 7)
R016	Unsaturated zone 1 (cm**3/g)	5.500E+02	1.000E+02	---	DCNUCU ( 7,1)
R016	Saturated zone (cm**3/g)	5.500E+02	1.000E+02	---	DCNUCS ( 7)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.192E-04	ALEACH ( 7)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 7)
R016	Distribution coefficients for Pm-147				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC ( 8)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU ( 8,1)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS ( 8)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.948E-05	ALEACH ( 8)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 8)
R016	Distribution coefficients for Pu-239				
R016	Contaminated zone (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCC ( 9)
R016	Unsaturated zone 1 (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCU ( 9,1)
R016	Saturated zone (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCS ( 9)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.286E-05	ALEACH ( 9)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 9)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ra-226				
R016	Contaminated zone (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCC (10)
R016	Unsaturated zone 1 (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCU (10,1)
R016	Saturated zone (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCS (10)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.206E-06	ALEACH (10)



R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(10)
R016	Distribution coefficients for Ra-228				
R016	Contaminated zone (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCC(11)
R016	Unsaturated zone 1 (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCU(11, 1)
R016	Saturated zone (cm**3/g)	9.100E+03	7.000E+01	---	DCNUCS(11)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.006E-06	ALEACH(11)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(11)
R016	Distribution coefficients for Sm-147				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC(12)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU(12, 1)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS(12)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.948E-05	ALEACH(12)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(12)
R016	Distribution coefficients for Th-228				
R016	Contaminated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCC(13)
R016	Unsaturated zone 1 (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCU(13, 1)
R016	Saturated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCS(13)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E-05	ALEACH(13)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(13)
R016	Distribution coefficients for Th-230				
R016	Contaminated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCC(14)
R016	Unsaturated zone 1 (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCU(14, 1)
R016	Saturated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCS(14)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E-05	ALEACH(14)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(14)
R016	Distribution coefficients for Th-232				
R016	Contaminated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCC(15)
R016	Unsaturated zone 1 (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCU(15, 1)
R016	Saturated zone (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCS(15)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E-05	ALEACH(15)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(15)
R016	Distribution coefficients for U-234				
R016	Contaminated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCC(16)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU(16, 1)
R016	Saturated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCS(16)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.098E-05	ALEACH(16)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(16)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for U-235				
R016	Contaminated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCC(17)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU(17, 1)
R016	Saturated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCS(17)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.098E-05	ALEACH(17)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(17)
R016	Distribution coefficients for U-238				

R016	Contaminated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCC(18)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU(18,1)
R016	Saturated zone (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCS(18)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.098E-05	ALEACH(18)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(18)
R017	Inhalation rate (m**3/yr)	1.100E+04	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	1.000E-03	1.000E-04	---	MLINH
R017	Exposure duration	3.000E+01	3.000E+01	---	ED
R017	Shielding factor, inhalation	4.000E-01	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	2.000E-01	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	6.500E-01	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	8.000E-02	2.500E-01	---	FOTD
R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.	FS
R017	Radii of shape factor array (used if FS = -1):				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	RAD_SHAPE( 1)
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	RAD_SHAPE( 2)
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	RAD_SHAPE( 3)
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	RAD_SHAPE( 4)
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	RAD_SHAPE( 5)
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	RAD_SHAPE( 6)
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	RAD_SHAPE( 7)
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	RAD_SHAPE( 8)
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	RAD_SHAPE( 9)
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	RAD_SHAPE(10)
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	RAD_SHAPE(11)
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	RAD_SHAPE(12)
R017	Fractions of annular areas within AREA:				
R017	Ring 1	not used	1.000E+00	---	FRACA( 1)
R017	Ring 2	not used	2.732E-01	---	FRACA( 2)
R017	Ring 3	not used	0.000E+00	---	FRACA( 3)
R017	Ring 4	not used	0.000E+00	---	FRACA( 4)
R017	Ring 5	not used	0.000E+00	---	FRACA( 5)
R017	Ring 6	not used	0.000E+00	---	FRACA( 6)
R017	Ring 7	not used	0.000E+00	---	FRACA( 7)
R017	Ring 8	not used	0.000E+00	---	FRACA( 8)
R017	Ring 9	not used	0.000E+00	---	FRACA( 9)
R017	Ring 10	not used	0.000E+00	---	FRACA(10)
R017	Ring 11	not used	0.000E+00	---	FRACA(11)
R017	Ring 12	not used	0.000E+00	---	FRACA(12)
R018	Fruits, vegetables and grain consumption (kg/yr)	4.450E+01	1.600E+02	---	DIET(1)

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Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R018	Leafy vegetable consumption (kg/yr)	0.000E+00	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	8.200E+01	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	4.500E+01	6.300E+01	---	DIET(4)
R018	Fish consumption (kg/yr)	not used	5.400E+00	---	DIET(5)
R018	Other seafood consumption (kg/yr)	not used	9.000E-01	---	DIET(6)
R018	Soil ingestion rate (g/yr)	3.650E+01	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	5.100E+02	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	1.000E+00	1.000E+00	---	FDW

R018	Contamination fraction of household water	1.000E+00	1.000E+00	---	FHHW
R018	Contamination fraction of livestock water	1.000E+00	1.000E+00	---	FLW
R018	Contamination fraction of irrigation water	1.000E+00	1.000E+00	---	FIRW
R018	Contamination fraction of aquatic food	not used	5.000E-01	---	FR9
R018	Contamination fraction of plant food	1.000E+00	-1	---	FPLANT
R018	Contamination fraction of meat	5.000E-01	-1	---	FMEAT
R018	Contamination fraction of milk	5.000E-01	-1	---	FMILK
R019	Livestock fodder intake for meat (kg/day)	1.180E+01	6.800E+01	---	LF15
R019	Livestock fodder intake for milk (kg/day)	2.030E+01	5.500E+01	---	LF16
R019	Livestock water intake for meat (l/day)	5.000E+01	5.000E+01	---	LW15
R019	Livestock water intake for milk (l/day)	1.600E+02	1.600E+02	---	LW16
R019	Livestock soil intake (kg/day)	5.000E-01	5.000E-01	---	LS1
R019	Mass loading for foliar deposition (g/m**3)	1.000E-04	1.000E-04	---	MLFD
R019	Depth of soil mixing layer (m)	1.500E-01	1.500E-01	---	DM
R019	Depth of roots (m)	9.000E-01	9.000E-01	---	DR00T
R019	Drinking water fraction from ground water	1.000E+00	1.000E+00	---	FGW0W
R019	Household water fraction from ground water	1.000E+00	1.000E+00	---	FGW0H
R019	Livestock water fraction from ground water	1.000E+00	1.000E+00	---	FGW1W
R019	Irrigation fraction from ground water	1.000E+00	1.000E+00	---	FGW1R
R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	7.000E-01	7.000E-01	---	YV(1)
R19B	Wet weight crop yield for Leafy (kg/m**2)	1.500E+00	1.500E+00	---	YV(2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	1.100E+00	1.100E+00	---	YV(3)
R19B	Growing Season for Non-Leafy (years)	1.700E-01	1.700E-01	---	TE(1)
R19B	Growing Season for Leafy (years)	2.500E-01	2.500E-01	---	TE(2)
R19B	Growing Season for Fodder (years)	8.000E-02	8.000E-02	---	TE(3)
R19B	Translocation Factor for Non-Leafy	1.000E-01	1.000E-01	---	TIV(1)
R19B	Translocation Factor for Leafy	1.000E+00	1.000E+00	---	TIV(2)
R19B	Translocation Factor for Fodder	1.000E+00	1.000E+00	---	TIV(3)
R19B	Dry Foliar Interception Fraction for Non-Leafy	2.500E-01	2.500E-01	---	RDRY(1)
R19B	Dry Foliar Interception Fraction for Leafy	2.500E-01	2.500E-01	---	RDRY(2)
R19B	Dry Foliar Interception Fraction for Fodder	2.500E-01	2.500E-01	---	RDRY(3)
R19B	Wet Foliar Interception Fraction for Non-Leafy	2.500E-01	2.500E-01	---	RWET(1)
R19B	Wet Foliar Interception Fraction for Leafy	2.500E-01	2.500E-01	---	RWET(2)
R19B	Wet Foliar Interception Fraction for Fodder	2.500E-01	2.500E-01	---	RWET(3)
R19B	Weathering Removal Constant for Vegetation	2.000E+01	2.000E+01	---	WLAM
C14	C-12 concentration in water (g/cm**3)	not used	2.000E-05	---	C12WTR
C14	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02	---	C12CZ
C14	Fraction of vegetation carbon from soil	not used	2.000E-02	---	CS01L
C14	Fraction of vegetation carbon from air	not used	9.800E-01	---	CAIR
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01	---	DMC

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Menu	Parameter	User Input	Default	Used by RESRAD (if different from user input)	Parameter Name
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07	---	EVS0N
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10	---	REVS0N
C14	Fraction of grain in beef cattle feed	not used	8.000E-01	---	AVFG4
C14	Fraction of grain in milk cow feed	not used	2.000E-01	---	AVFG5
STOR	Storage times of contaminated foodstuffs (days):				
STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01	---	STOR_T(1)
STOR	Leafy vegetables	1.000E+00	1.000E+00	---	STOR_T(2)

STOR	Milk	1.000E+00	1.000E+00	---	STOR_T(3)
STOR	Meat and poultry	2.000E+01	2.000E+01	---	STOR_T(4)
STOR	Fish	7.000E+00	7.000E+00	---	STOR_T(5)
STOR	Crustacea and mollusks	7.000E+00	7.000E+00	---	STOR_T(6)
STOR	Well water	1.000E+00	1.000E+00	---	STOR_T(7)
STOR	Surface water	1.000E+00	1.000E+00	---	STOR_T(8)
STOR	Livestock fodder	4.500E+01	4.500E+01	---	STOR_T(9)
R021	Thickness of building foundation (m)	1.500E-01	1.500E-01	---	FLOOR
R021	Bulk density of building foundation (g/cm**3)	2.400E+00	2.400E+00	---	DENSEFL
R021	Total porosity of the cover material	not used	4.000E-01	---	TPCV
R021	Total porosity of the building foundation	1.000E-01	1.000E-01	---	TPFL
R021	Volumetric water content of the cover material	not used	5.000E-02	---	PH2OCV
R021	Volumetric water content of the foundation	3.000E-02	3.000E-02	---	PH2OFL
R021	Diffusion coefficient for radon gas (m/sec):				
R021	in cover material	not used	2.000E-06	---	DIFCV
R021	in foundation material	3.000E-07	3.000E-07	---	DIFFL
R021	in contaminated zone soil	2.000E-06	2.000E-06	---	DIFCZ
R021	Radon vertical dimension of mixing (m)	2.000E+00	2.000E+00	---	HMIX
R021	Average building air exchange rate (1/hr)	5.000E-01	5.000E-01	---	REXG
R021	Height of the building (room) (m)	2.500E+00	2.500E+00	---	HRM
R021	Building interior area factor	0.000E+00	0.000E+00	code computed (time dependent)	FAI
R021	Building depth below ground surface (m)	-1.000E+00	-1.000E+00	code computed (time dependent)	DMFL
R021	Emanating power of Rn-222 gas	2.500E-01	2.500E-01	---	EMANA(1)
R021	Emanating power of Rn-220 gas	1.500E-01	1.500E-01	---	EMANA(2)

Summary of Pathway Selections

Pathway	User Selection
1 -- external gamma	active
2 -- inhalation (w/o radon)	active
3 -- plant ingestion	active
4 -- meat ingestion	active
5 -- milk ingestion	active
6 -- aquatic foods	suppressed
7 -- drinking water	active
8 -- soil ingestion	active
9 -- radon	active
Find peak pathway doses	suppressed

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Contaminated Zone Dimensions	Initial Soil Concentrations, pCi/g
Area: 2195.00 square meters	Ac-227 1.000E+02
Thickness: 1.83 meters	Co-57 1.000E+02
Cover Depth: 0.00 meters	Co-60 1.000E+02
	Cs-137 1.000E+02
	H-3 1.000E+02
	Pa-231 1.000E+02
	Pb-210 1.000E+02
	Pm-147 1.000E+02
	Pu-239 1.000E+02

Ra-226 1.000E+02  
 Ra-228 1.000E+02  
 Sm-147 1.000E+02  
 Th-228 1.000E+02  
 Th-230 1.000E+02  
 Th-232 1.000E+02  
 U-234 1.000E+02  
 U-235 1.000E+02  
 U-238 1.000E+02

0

Total Dose TDOSE(t), mrem/yr  
 Basic Radiation Dose Limit = 10 mrem/yr  
 Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years): 0.000E+00 1.000E+00 3.000E+00 1.000E+01 3.000E+01 1.000E+02 3.000E+02 1.000E+03  
 TDOSE(t): 1.082E+04 1.077E+04 1.071E+04 1.056E+04 1.045E+04 1.040E+04 1.037E+04 1.029E+04  
 M(t): 1.082E+03 1.077E+03 1.071E+03 1.056E+03 1.045E+03 1.040E+03 1.037E+03 1.029E+03  
 OMaximum TDOSE(t): 1.082E+04 mrem/yr at t = 0.000E+00 years  
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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years  
 Water Independent Pathways (Inhalation excludes radon)

0  
0

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	3.864E+01	0.0036	3.163E+02	0.0292	0.000E+00	0.0000	1.647E+02	0.0152	3.527E-01	0.0000	6.685E-01	0.0001	3.943E+01	0.0036
Co-57	9.777E+00	0.0009	4.269E-04	0.0000	0.000E+00	0.0000	4.201E-01	0.0000	7.668E-02	0.0000	2.055E-02	0.0000	3.144E-03	0.0000
Co-60	3.087E+02	0.0285	1.031E-02	0.0000	0.000E+00	0.0000	9.576E+00	0.0009	1.748E+00	0.0003	4.665E-01	0.0000	7.168E-02	0.0000
Cs-137	6.447E+01	0.0060	1.501E-03	0.0000	0.000E+00	0.0000	8.900E+00	0.0008	3.781E+00	0.0003	2.192E+00	0.0002	1.332E-01	0.0000
H-3	0.000E+00	0.0000	3.258E-02	0.0000	0.000E+00	0.0000	1.351E+00	0.0001	8.147E-02	0.0000	1.268E-01	0.0000	1.705E-04	0.0000
Pa-231	3.697E+00	0.0003	6.024E+01	0.0056	0.000E+00	0.0000	4.717E+02	0.0436	7.370E+01	0.0068	1.528E-01	0.0000	2.824E+01	0.0026
Pb-210	1.209E-01	0.0000	1.092E+00	0.0001	0.000E+00	0.0000	3.235E+02	0.0299	8.088E+00	0.0007	6.287E+00	0.0006	1.937E+01	0.0018
Pm-147	9.790E-04	0.0000	1.845E-03	0.0000	0.000E+00	0.0000	1.168E-02	0.0000	2.502E-03	0.0000	4.743E-05	0.0000	2.798E-03	0.0000
Pu-239	5.800E-03	0.0000	2.019E+01	0.0019	0.000E+00	0.0000	1.576E+01	0.0015	4.077E-01	0.0000	7.554E-03	0.0000	9.432E+00	0.0009
Ra-226	2.139E+02	0.0198	4.047E-01	0.0000	7.555E+03	0.6984	2.367E+02	0.0219	2.909E+00	0.0003	7.155E+00	0.0007	3.544E+00	0.0003
Ra-228	1.141E+02	0.0105	2.391E-01	0.0000	0.000E+00	0.0000	2.563E+02	0.0237	3.149E+00	0.0003	7.746E+00	0.0007	3.837E+00	0.0004
Sm-147	0.000E+00	0.0000	3.516E+00	0.0003	0.000E+00	0.0000	2.059E+00	0.0002	4.408E-01	0.0000	8.356E-03	0.0000	4.929E-01	0.0000
Th-228	1.952E+02	0.0180	1.624E+01	0.0015	1.144E+01	0.0011	3.598E+00	0.0003	9.305E-02	0.0000	8.619E-03	0.0000	2.153E+00	0.0002
Th-230	2.368E-02	0.0000	1.534E+01	0.0014	0.000E+00	0.0000	2.440E+00	0.0002	6.311E-02	0.0000	5.846E-03	0.0000	1.460E+00	0.0001
Th-232	1.023E-02	0.0000	7.718E+01	0.0071	0.000E+00	0.0000	1.216E+01	0.0011	3.144E-01	0.0000	2.912E-02	0.0000	7.274E+00	0.0007
U-234	7.933E-03	0.0000	6.212E+00	0.0006	0.000E+00	0.0000	3.149E+00	0.0003	1.146E-01	0.0000	3.835E-01	0.0000	7.541E-01	0.0001
U-235	1.470E+01	0.0014	5.789E+00	0.0005	0.000E+00	0.0000	2.971E+00	0.0003	1.082E-01	0.0000	3.618E-01	0.0000	7.114E-01	0.0001
U-238	2.620E+00	0.0002	5.553E+00	0.0005	0.000E+00	0.0000	2.993E+00	0.0003	1.040E-01	0.0000	3.645E-01	0.0000	7.168E-01	0.0001
Total	9.660E+02	0.0893	5.283E+02	0.0488	7.566E+03	0.6994	1.518E+03	0.1404	9.504E+01	0.0088	2.595E+01	0.0024	1.176E+02	0.0109

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years  
 Water Dependent Pathways

0  
0

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.

Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.600E+02	0.0518
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.030E+01	0.0010
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.206E+02	0.0296
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.893E+01	0.0073
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.592E+00	0.0001
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.378E+02	0.0590
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.585E+02	0.0331
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.986E-02	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.581E+01	0.0042
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.019E+03	0.7413
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.854E+02	0.0356
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.516E+00	0.0006
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.288E+02	0.0211
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.934E+01	0.0018
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.697E+01	0.0090
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.062E+01	0.0010
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.464E+01	0.0023
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.236E+01	0.0011
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.082E+04	1.0000

0\*Sum of all water independent and dependent pathways.

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	3.743E+01	0.0035	3.063E+02	0.0284	0.000E+00	0.0000	1.595E+02	0.0148	3.416E-01	0.0000	6.475E-01	0.0001	3.820E+01	0.0035
Co-57	3.840E+00	0.0004	1.676E-04	0.0000	0.000E+00	0.0000	1.650E-01	0.0000	3.011E-02	0.0000	8.072E-03	0.0000	1.235E-03	0.0000
Co-60	2.706E+02	0.0251	9.036E-03	0.0000	0.000E+00	0.0000	8.396E+00	0.0008	1.532E+00	0.0001	4.108E-01	0.0000	6.284E-02	0.0000
Cs-137	6.299E+01	0.0058	1.467E-03	0.0000	0.000E+00	0.0000	8.697E+00	0.0008	3.206E+00	0.0003	2.103E+00	0.0002	1.302E-01	0.0000
H-3	0.000E+00	0.0000	8.405E-03	0.0000	0.000E+00	0.0000	3.663E-01	0.0000	2.661E-02	0.0000	3.848E-02	0.0000	4.398E-05	0.0000
Pa-231	4.908E+00	0.0005	7.015E+01	0.0065	0.000E+00	0.0000	4.775E+02	0.0443	7.389E+01	0.0069	1.744E-01	0.0000	2.948E+01	0.0027
Pb-210	1.171E-01	0.0000	1.058E+00	0.0001	0.000E+00	0.0000	3.136E+02	0.0291	7.839E+00	0.0007	6.094E+00	0.0006	1.878E+01	0.0017
Pm-147	7.516E-04	0.0000	1.416E-03	0.0000	0.000E+00	0.0000	8.971E-03	0.0000	1.921E-03	0.0000	3.641E-05	0.0000	2.148E-03	0.0000
Pu-239	5.800E-03	0.0000	2.019E+01	0.0019	0.000E+00	0.0000	1.576E+01	0.0015	4.077E-01	0.0000	7.552E-03	0.0000	9.432E+00	0.0009
Ra-226	2.138E+02	0.0198	4.380E-01	0.0000	7.551E+03	0.7009	2.477E+02	0.0230	3.186E+00	0.0003	7.368E+00	0.0007	4.135E+00	0.0004
Ra-228	1.568E+02	0.0146	4.844E+00	0.0004	3.264E+00	0.0003	2.300E+02	0.0213	2.851E+00	0.0003	6.873E+00	0.0006	4.015E+00	0.0004
Sm-147	0.000E+00	0.0000	3.515E+00	0.0003	0.000E+00	0.0000	2.059E+00	0.0002	4.408E-01	0.0000	8.355E-03	0.0000	4.929E-01	0.0000
Th-228	1.359E+02	0.0126	1.130E+01	0.0010	7.964E+00	0.0007	2.504E+00	0.0002	6.477E-02	0.0000	6.000E-03	0.0000	1.499E+00	0.0001
Th-230	1.163E-01	0.0000	1.534E+01	0.0014	3.272E+00	0.0003	2.542E+00	0.0002	6.429E-02	0.0000	8.756E-03	0.0000	1.462E+00	0.0001
Th-232	1.660E+01	0.0015	7.751E+01	0.0072	2.133E-01	0.0000	4.039E+01	0.0037	6.359E-01	0.0001	8.381E-01	0.0001	7.750E+00	0.0007
U-234	7.934E-03	0.0000	6.212E+00	0.0006	1.473E-05	0.0000	3.149E+00	0.0003	1.146E-01	0.0000	3.835E-01	0.0000	7.540E-01	0.0001
U-235	1.470E+01	0.0014	5.790E+00	0.0005	0.000E+00	0.0000	2.981E+00	0.0003	1.096E-01	0.0000	3.618E-01	0.0000	7.120E-01	0.0001
U-238	2.620E+00	0.0002	5.553E+00	0.0005	1.399E-11	0.0000	2.993E+00	0.0003	1.090E-01	0.0000	3.645E-01	0.0000	7.167E-01	0.0001
Total	9.205E+02	0.0854	5.283E+02	0.0490	7.566E+03	0.7023	1.518E+03	0.1409	9.485E+01	0.0088	2.570E+01	0.0024	1.176E+02	0.0109

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Radio-Nuclide	Water		Fish	Radon		Plant	Meat	Milk	All Pathways*					
	mrem/yr	fract.		mrem/yr	fract.									
Ac-227	3.743E+01	0.0035	3.063E+02	0.0284	0.000E+00	0.0000	1.595E+02	0.0148	3.416E-01	0.0000	6.475E-01	0.0001	3.820E+01	0.0035
Co-57	3.840E+00	0.0004	1.676E-04	0.0000	0.000E+00	0.0000	1.650E-01	0.0000	3.011E-02	0.0000	8.072E-03	0.0000	1.235E-03	0.0000
Co-60	2.706E+02	0.0251	9.036E-03	0.0000	0.000E+00	0.0000	8.396E+00	0.0008	1.532E+00	0.0001	4.108E-01	0.0000	6.284E-02	0.0000
Cs-137	6.299E+01	0.0058	1.467E-03	0.0000	0.000E+00	0.0000	8.697E+00	0.0008	3.206E+00	0.0003	2.103E+00	0.0002	1.302E-01	0.0000
H-3	0.000E+00	0.0000	8.405E-03	0.0000	0.000E+00	0.0000	3.663E-01	0.0000	2.661E-02	0.0000	3.848E-02	0.0000	4.398E-05	0.0000
Pa-231	4.908E+00	0.0005	7.015E+01	0.0065	0.000E+00	0.0000	4.775E+02	0.0443	7.389E+01	0.0069	1.744E-01	0.0000	2.948E+01	0.0027
Pb-210	1.171E-01	0.0000	1.058E+00	0.0001	0.000E+00	0.0000	3.136E+02	0.0291	7.839E+00	0.0007	6.094E+00	0.0006	1.878E+01	0.0017
Pm-147	7.516E-04	0.0000	1.416E-03	0.0000	0.000E+00	0.0000	8.971E-03	0.0000	1.921E-03	0.0000	3.641E-05	0.0000	2.148E-03	0.0000
Pu-239	5.800E-03	0.0000	2.019E+01	0.0019	0.000E+00	0.0000	1.576E+01	0.0015	4.077E-01	0.0000	7.552E-03	0.0000	9.432E+00	0.0009
Ra-226	2.138E+02	0.0198	4.380E-01	0.0000	7.551E+03	0.7009	2.477E+02	0.0230	3.186E+00	0.0003	7.368E+00	0.0007	4.135E+00	0.0004
Ra-228	1.568E+02	0.0146	4.844E+00	0.0004	3.264E+00	0.0003	2.300E+02	0.0213	2.851E+00	0.0003	6.873E+00	0.0006	4.015E+00	0.0004
Sm-147	0.000E+00	0.0000	3.515E+00	0.0003	0.000E+00	0.0000	2.059E+00	0.0002	4.408E-01	0.0000	8.355E-03	0.0000	4.929E-01	0.0000
Th-228	1.359E+02	0.0126	1.130E+01	0.0010	7.964E+00	0.0007	2.504E+00	0.0002	6.477E-02	0.0000	6.000E-03	0.0000	1.499E+00	0.0001
Th-230	1.163E-01	0.0000	1.534E+01	0.0014	3.272E+00	0.0003	2.542E+00	0.0002	6.429E-02	0.0000	8.756E-03	0.0000	1.462E+00	0.0001
Th-232	1.660E+01	0.0015	7.751E+01	0.0072	2.133E-01	0.0000	4.039E+01	0.0037	6.359E-01	0.0001	8.381E-01	0.0001	7.750E+00	0.0007
U-234	7.934E-03	0.0000	6.212E+00	0.0006	1.473E-05	0.0000	3.149E+00	0.0003	1.146E-01	0.0000	3.835E-01	0.0000	7.540E-01	0.0001
U-235	1.470E+01	0.0014	5.790E+00	0.0005	0.000E+00	0.0000	2.981E+00	0.0003	1.096E-01	0.0000	3.618E-01	0.0000	7.120E-01	0.0001
U-238	2.620E+00	0.0002	5.553E+00	0.0005	1.399E-11	0.0000	2.993E+00	0.0003	1.090E-01	0.0000	3.645E-01	0.0000	7.167E-01	0.0001
Total	9.205E+02	0.0854	5.283E+02	0.0490	7.566E+03	0.7023	1.518E+03	0.1409	9.485E+01	0.0088	2.570E+01	0.0024	1.176E+02	0.0109

Radio-Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.425E+02	0.0504
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.044E+00	0.0004
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.811E+02	0.0261
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.713E+01	0.0072
H-3	1.962E+00	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.685E-02	0.0000	1.250E-01	0.0000	2.564E+00	0.0002
Pu-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.561E+02	0.0609
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.475E+02	0.0323
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.524E-02	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.581E+01	0.0043
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.028E+03	0.7452
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.086E+02	0.0379
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.516E+00	0.0006
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.592E+02	0.0148
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.281E+01	0.0021
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.439E+02	0.0134
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.062E+01	0.0010
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.466E+01	0.0023
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.236E+01	0.0011
Total	1.962E+00	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.685E-02	0.0000	1.250E-01	0.0000	1.077E+04	1.0000

\*Sum of all water independent and dependent pathways.

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 Summary : RESRAD Default Parameters File: RESE6.KAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years  
 Water Independent Pathways (Inhalation excludes radon)

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	3.512E+01	0.0033	2.874E+02	0.0268	0.000E+00	0.0000	1.497E+02	0.0140	3.205E-01	0.0000	6.075E-01	0.0001	3.584E+01	0.0033
Co-57	5.922E-01	0.0001	2.585E-05	0.0000	0.000E+00	0.0000	2.545E-02	0.0000	4.645E-03	0.0000	1.245E-03	0.0000	1.904E-04	0.0000
Co-60	2.080E+02	0.0194	6.944E-03	0.0000	0.000E+00	0.0000	6.452E+00	0.0006	1.178E+00	0.0001	3.157E-01	0.0000	4.829E-02	0.0000
Cs-137	6.014E+01	0.0056	1.401E-03	0.0000	0.000E+00	0.0000	8.303E+00	0.0008	3.061E+00	0.0003	2.007E+00	0.0002	1.243E-01	0.0000
H-3	0.000E+00	0.0000	5.591E-04	0.0000	0.000E+00	0.0000	2.437E-02	0.0000	1.770E-03	0.0000	2.579E-03	0.0000	2.926E-06	0.0000
Pu-231	7.216E+00	0.0007	8.904E+01	0.0083	0.000E+00	0.0000	4.873E+02	0.0459	7.490E+01	0.0069	2.143E-01	0.0000	3.183E+01	0.0030
Pb-210	1.101E-01	0.0000	9.943E-01	0.0001	0.000E+00	0.0000	2.946E+02	0.0275	7.365E+00	0.0007	5.725E+00	0.0005	1.764E+01	0.0016
Pm-147	4.430E-04	0.0000	8.349E-04	0.0000	0.000E+00	0.0000	5.288E-03	0.0000	1.132E-03	0.0000	2.146E-05	0.0000	1.266E-03	0.0000
Pu-239	5.799E-03	0.0000	2.019E+01	0.0019	0.000E+00	0.0000	1.576E+01	0.0015	4.076E-01	0.0000	7.552E-03	0.0000	9.431E+00	0.0009
Ra-226	2.136E+02	0.0199	5.013E-01	0.0000	7.545E+03	0.7046	2.664E+02	0.0249	3.655E+00	0.0003	7.728E+00	0.0007	5.262E+00	0.0005
Ra-228	1.846E+02	0.0172	8.909E+00	0.0008	6.160E+00	0.0006	1.818E+02	0.0170	2.269E+00	0.0002	5.404E+00	0.0005	3.832E+00	0.0004
Sr-90	0.000E+00	0.0000	3.515E+00	0.0003	0.000E+00	0.0000	2.058E+00	0.0002	4.407E-01	0.0000	8.354E-03	0.0000	4.928E-01	0.0000
Th-232	6.584E+01	0.0061	5.475E+00	0.0005	3.859E+00	0.0004	1.213E+00	0.0001	3.138E-02	0.0000	2.907E-03	0.0000	7.260E-01	0.0001
Th-230	3.015E-01	0.0000	1.534E+01	0.0014	9.813E+00	0.0009	2.764E+00	0.0003	6.726E-02	0.0000	1.530E-02	0.0000	1.466E+00	0.0001
Th-232	5.890E+01	0.0055	7.927E+01	0.0074	1.423E+00	0.0001	8.981E+01	0.0084	1.251E+00	0.0001	2.311E+00	0.0002	8.706E+00	0.0008
U-234	7.937E-03	0.0000	6.213E+00	0.0006	1.325E-04	0.0000	3.149E+00	0.0003	1.146E-01	0.0000	3.834E-01	0.0000	7.540E-01	0.0001
U-235	1.470E+01	0.0014	5.793E+00	0.0005	0.000E+00	0.0000	3.001E+00	0.0003	1.127E-01	0.0000	3.618E-01	0.0000	7.132E-01	0.0001
U-238	2.620E+00	0.0002	5.553E+00	0.0005	3.760E-10	0.0000	2.993E+00	0.0003	1.090E-01	0.0000	3.645E-01	0.0000	7.167E-01	0.0001
Total	8.517E+02	0.0795	5.282E+02	0.0493	7.566E+03	0.7066	1.515E+03	0.1415	9.429E+01	0.0088	2.546E+01	0.0024	1.176E+02	0.0110

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.090E+02	0.0475
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.237E-01	0.0001
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.160E+02	0.0202
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.364E+01	0.0069
H-3	8.605E+00	0.0008	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.886E-01	0.0000	5.520E-01	0.0001	9.375E+00	0.0009
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.895E+02	0.0644
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.265E+02	0.0305
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.985E-03	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.580E+01	0.0043
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.042E+03	0.7510
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.930E+02	0.0367
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.515E+00	0.0006
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.715E+01	0.0072
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.977E+01	0.0028
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.417E+02	0.0226
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.062E+01	0.0010
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.468E+01	0.0023
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.236E+01	0.0012
Total	8.605E+00	0.0008	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.886E-01	0.0000	5.520E-01	0.0001	1.071E+04	1.0000

0\*Sum of all water independent and dependent pathways.  
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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Water Independent Pathways (Inhalation excludes radon)

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	2.810E+01	0.0027	2.300E+02	0.0218	0.000E+00	0.0000	1.198E+02	0.0113	2.564E-01	0.0000	4.861E-01	0.0000	2.867E+01	0.0027
Co-57	8.532E-04	0.0000	3.725E-08	0.0000	0.000E+00	0.0000	3.666E-05	0.0000	6.692E-06	0.0000	1.794E-06	0.0000	2.744E-07	0.0000
Co-60	8.278E+01	0.0078	2.764E-03	0.0000	0.000E+00	0.0000	2.568E+00	0.0002	4.687E-01	0.0000	1.256E-01	0.0000	1.922E-02	0.0000
Cs-137	5.115E+01	0.0048	1.191E-03	0.0000	0.000E+00	0.0000	7.062E+00	0.0007	2.603E+00	0.0002	1.707E+00	0.0002	1.057E-01	0.0000
H-3	0.000E+00	0.0000	4.235E-08	0.0000	0.000E+00	0.0000	1.846E-06	0.0000	1.341E-07	0.0000	1.939E-07	0.0000	2.217E-10	0.0000
Pa-231	1.423E+01	0.0013	1.464E+02	0.0139	0.000E+00	0.0000	5.170E+02	0.0490	7.394E+01	0.0070	3.356E-01	0.0000	3.898E+01	0.0037
Pb-210	8.846E-02	0.0000	7.992E-01	0.0001	0.000E+00	0.0000	2.368E+02	0.0224	5.920E+00	0.0006	4.602E+00	0.0004	1.418E+01	0.0013
Pm-147	6.966E-05	0.0000	1.313E-04	0.0000	0.000E+00	0.0000	8.314E-04	0.0000	1.780E-04	0.0000	3.374E-06	0.0000	1.991E-04	0.0000
Pu-239	5.798E-03	0.0000	2.018E+01	0.0019	0.000E+00	0.0000	1.576E+01	0.0015	4.075E-01	0.0000	7.550E-03	0.0000	9.428E+00	0.0009
Ra-226	2.130E+02	0.0202	6.938E-01	0.0001	7.521E+03	0.7125	3.230E+02	0.0306	5.081E+00	0.0005	8.822E+00	0.0008	8.688E+00	0.0008
Ra-228	1.140E+02	0.0108	6.710E+00	0.0006	4.678E+00	0.0004	7.883E+01	0.0075	9.924E-01	0.0001	2.325E+00	0.0002	2.030E+00	0.0002
Sm-147	0.000E+00	0.0000	3.513E+00	0.0003	0.000E+00	0.0000	2.057E+00	0.0002	4.405E-01	0.0000	8.349E-03	0.0000	4.925E-01	0.0000
Th-228	5.212E+00	0.0005	4.334E-01	0.0000	3.054E-01	0.0000	9.605E-02	0.0000	2.484E-03	0.0000	2.301E-04	0.0000	5.747E-02	0.0000
Th-230	9.482E-01	0.0001	1.534E+01	0.0015	3.265E+01	0.0031	3.661E+00	0.0003	8.058E-02	0.0000	4.045E-02	0.0000	1.487E+00	0.0001
Th-232	1.901E+02	0.0180	8.650E+01	0.0082	6.457E+00	0.0006	1.939E+02	0.0184	2.556E+00	0.0002	5.391E+00	0.0005	1.118E+01	0.0011
U-234	7.974E-03	0.0000	6.211E+00	0.0006	1.471E-03	0.0000	3.148E+00	0.0003	1.146E-01	0.0000	3.833E-01	0.0000	7.539E-01	0.0001
U-235	1.474E+01	0.0014	5.809E+00	0.0006	0.000E+00	0.0000	3.075E+00	0.0003	3.617E-01	0.0000	3.617E-01	0.0000	7.183E-01	0.0001
U-238	2.619E+00	0.0002	5.551E+00	0.0005	1.390E-08	0.0000	2.992E+00	0.0003	1.089E-01	0.0000	3.644E-01	0.0000	7.165E-01	0.0001
Total	7.169E+02	0.0679	5.281E+02	0.0500	7.565E+03	0.7167	1.510E+03	0.1430	9.310E+01	0.0088	2.496E+01	0.0024	1.175E+02	0.0111

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.072E+02	0.0386
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.986E-04	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.547E+01	0.0081
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.263E+01	0.0059
H-3	5.437E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.235E-02	0.0000	3.494E-02	0.0000	5.910E-01	0.0001
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.909E+02	0.0749
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.624E+02	0.0249
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.413E-03	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.579E+01	0.0043
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.081E+03	0.7655
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.096E+02	0.0199
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.511E+00	0.0006
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.107E+00	0.0006
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.421E+01	0.0051
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.961E+02	0.0470
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.062E+01	0.0010
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.478E+01	0.0023
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.235E+01	0.0012
Total	5.437E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.235E-02	0.0000	3.494E-02	0.0000	1.056E+04	1.0000

\*Sum of all water independent and dependent pathways.

RESRAD, Version 5.82 Td Limit = 0.5 year

Summary : RESRAD Default Parameters

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File: RESEG.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+01 years

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	1.486E+01	0.0014	1.216E+02	0.0116	0.000E+00	0.0000	6.332E+01	0.0061	1.356E-01	0.0000	2.570E-01	0.0000	1.516E+01	0.0015
Co-57	6.497E-12	0.0000	2.836E-16	0.0000	0.000E+00	0.0000	2.792E-13	0.0000	5.096E-14	0.0000	1.366E-14	0.0000	2.089E-15	0.0000
Co-60	5.952E+00	0.0006	1.987E-04	0.0000	0.000E+00	0.0000	1.846E-01	0.0000	3.370E-02	0.0000	9.044E-03	0.0000	1.382E-03	0.0000
Cs-137	3.220E+01	0.0031	7.499E-04	0.0000	0.000E+00	0.0000	4.445E+00	0.0004	1.639E+00	0.0002	1.075E+00	0.0001	6.654E-02	0.0000
H-3	0.000E+00	0.0000	7.029E-20	0.0000	0.000E+00	0.0000	3.064E-18	0.0000	2.226E-19	0.0000	3.219E-19	0.0000	3.678E-22	0.0000
Pa-231	2.744E+01	0.0026	2.545E+02	0.0244	0.000E+00	0.0000	5.729E+02	0.0548	7.400E+01	0.0071	5.640E-01	0.0001	5.244E+01	0.0050
Pb-210	4.740E-02	0.0000	4.282E-01	0.0000	0.000E+00	0.0000	1.269E+02	0.0121	3.172E+00	0.0003	2.466E+00	0.0002	7.597E+00	0.0007
Pm-147	3.526E-07	0.0000	6.646E-07	0.0000	0.000E+00	0.0000	4.209E-06	0.0000	9.012E-07	0.0000	1.708E-08	0.0000	1.008E-06	0.0000
Pu-239	5.793E-03	0.0000	2.016E+01	0.0019	0.000E+00	0.0000	1.574E+01	0.0015	1.574E-01	0.0000	7.543E-03	0.0000	9.421E+00	0.0009
Ra-226	2.111E+02	0.0202	1.056E+00	0.0001	7.455E+03	0.7134	4.292E+02	0.0411	7.761E+00	0.0007	1.086E+01	0.0010	1.514E+01	0.0014
Ra-228	1.092E+01	0.0010	6.598E-01	0.0001	4.604E-01	0.0000	7.085E+00	0.0007	8.936E-02	0.0000	2.086E-01	0.0000	1.897E-01	0.0000
Sr-90	0.000E+00	0.0000	3.507E+00	0.0003	0.000E+00	0.0000	2.054E+00	0.0002	4.398E-01	0.0000	8.336E-03	0.0000	4.918E-01	0.0000
Th-228	3.714E-03	0.0000	3.089E-04	0.0000	2.177E-04	0.0000	6.845E-05	0.0000	1.770E-06	0.0000	1.640E-07	0.0000	4.096E-05	0.0000
Th-230	2.785E+00	0.0003	1.534E+01	0.0015	9.750E+01	0.0093	6.967E+00	0.0007	1.374E-01	0.0000	1.267E-01	0.0000	1.593E+00	0.0002
Th-232	2.983E+02	0.0285	9.297E+01	0.0089	1.098E+01	0.0011	2.657E+02	0.0254	3.461E+00	0.0003	7.507E+00	0.0007	1.307E+01	0.0013
U-234	8.303E-03	0.0000	6.208E+00	0.0006	1.319E-02	0.0000	3.146E+00	0.0003	1.145E-01	0.0000	3.830E-01	0.0000	7.535E-01	0.0001
U-235	1.469E+01	0.0014	5.891E+00	0.0006	0.000E+00	0.0000	3.304E+00	0.0003	1.548E-01	0.0000	3.616E-01	0.0000	7.373E-01	0.0001
U-238	2.617E+00	0.0003	5.547E+00	0.0005	3.743E-07	0.0000	2.990E+00	0.0003	1.088E-01	0.0000	3.641E-01	0.0000	7.159E-01	0.0001

Total 6.210E+02 0.0594 5.279E+02 0.0505 7.564E+03 0.7238 1.504E+03 0.1439 9.165E+01 0.0088 2.420E+01 0.0023 1.174E+02 0.0112  
 1RESRAD, Version 5.82 T½ Limit = 0.5 year 05/17/00 08:32 Page 23  
 Summary : RESRAD Default Parameters File: RESE6.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+01 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.153E+02	0.0206
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.843E-12	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.181E+00	0.0006
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.943E+01	0.0038
H-3	7.362E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.672E-06	0.0000	4.731E-06	0.0000	8.002E-05	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.818E+02	0.0940
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.406E+02	0.0135
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.152E-06	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.575E+01	0.0044
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.130E+03	0.7780
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.962E+01	0.0019
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.501E+00	0.0006
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.352E-03	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.245E+02	0.0119
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.920E+02	0.0662
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.063E+01	0.0010
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.514E+01	0.0024
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.234E+01	0.0012
Total	7.362E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.672E-06	0.0000	4.731E-06	0.0000	1.045E+04	1.0000

\*Sum of all water independent and dependent pathways.

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 Summary : RESRAD Default Parameters File: RESE6.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	1.597E+00	0.0002	1.307E+01	0.0013	0.000E+00	0.0000	6.806E+00	0.0007	1.457E-02	0.0000	2.763E-02	0.0000	1.630E+00	0.0002
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	5.934E-04	0.0000	1.981E-08	0.0000	0.000E+00	0.0000	1.841E-05	0.0000	3.360E-06	0.0000	9.005E-07	0.0000	1.378E-07	0.0000
Cs-137	6.374E+00	0.0006	1.484E-04	0.0000	0.000E+00	0.0000	8.800E-01	0.0001	3.244E-01	0.0000	2.128E-01	0.0000	1.317E-02	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	4.057E+01	0.0039	3.619E+02	0.0348	0.000E+00	0.0000	6.274E+02	0.0603	7.388E+01	0.0071	7.910E-01	0.0001	6.576E+01	0.0063
Pb-210	5.336E-03	0.0000	4.820E-02	0.0000	0.000E+00	0.0000	1.428E+01	0.0014	3.571E-01	0.0000	2.776E-01	0.0000	8.552E-01	0.0001
Pm-147	3.255E-15	0.0000	8.632E-11	0.0000	0.000E+00	0.0000	5.059E-11	0.0000	1.083E-11	0.0000	2.053E-13	0.0000	1.211E-11	0.0000
Pu-239	5.777E-03	0.0000	2.011E+01	0.0019	0.000E+00	0.0000	1.570E+01	0.0015	4.060E-01	0.0000	7.521E-03	0.0000	9.393E+00	0.0009
Ra-226	2.048E+02	0.0197	1.394E+00	0.0001	7.228E+03	0.6948	5.260E+02	0.0506	1.027E+01	0.0010	1.267E+01	0.0012	2.126E+01	0.0020
Ra-228	2.364E-03	0.0000	1.428E-04	0.0000	9.967E-05	0.0000	1.533E-03	0.0000	1.933E-05	0.0000	4.513E-05	0.0000	4.106E-05	0.0000
Sm-147	0.000E+00	0.0000	3.488E+00	0.0003	0.000E+00	0.0000	2.042E+00	0.0002	4.374E-01	0.0000	8.290E-03	0.0000	4.890E-01	0.0000
Th-228	3.588E-14	0.0000	2.984E-15	0.0000	2.103E-15	0.0000	6.613E-16	0.0000	1.710E-17	0.0000	1.584E-18	0.0000	3.957E-16	0.0000
Th-230	9.083E+00	0.0009	1.536E+01	0.0015	3.198E+02	0.0307	2.201E+01	0.0021	4.250E-01	0.0000	4.943E-01	0.0000	2.177E+00	0.0002
Th-232	3.090E+02	0.0297	9.355E+01	0.0090	1.143E+01	0.0011	2.726E+02	0.0262	3.548E+00	0.0003	7.709E+00	0.0007	1.325E+01	0.0013

U-234 1.202E-02 0.0000 6.199E+00 0.0006 1.448E-01 0.0000 3.146E+00 0.0003 1.143E-01 0.0000 3.820E-01 0.0000 7.523E-01 0.0001  
 U-235 1.471E+01 0.0014 6.358E+00 0.0006 0.000E+00 0.0000 4.196E+00 0.0004 2.638E-01 0.0000 3.616E-01 0.0000 8.261E-01 0.0001  
 U-238 2.609E+00 0.0003 5.532E+00 0.0005 1.373E-05 0.0000 2.982E+00 0.0003 1.086E-01 0.0000 3.631E-01 0.0000 7.140E-01 0.0001  
 Total 5.887E+02 0.0566 5.270E+02 0.0507 7.560E+03 0.7266 1.498E+03 0.1440 9.015E+01 0.0087 2.330E+01 0.0022 1.171E+02 0.0113  
 RESRAD, Version 5.82 T<sub>1/2</sub> Limit = 0.5 year 05/17/00 08:32 Page 25  
 Summary : RESRAD Default Parameters File: RESE6.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.314E+01	0.0022
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.162E-04	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.804E+00	0.0008
H-3	2.127E-18	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.831E-20	0.0000	1.367E-19	0.0000	2.312E-18	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.170E+03	0.1125
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.583E+01	0.0015
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.601E-10	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.562E+01	0.0044
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.005E+03	0.7694
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.244E-03	0.0000
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.465E+00	0.0006
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.205E-14	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.694E+02	0.0355
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.110E+02	0.0683
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.075E+01	0.0010
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.671E+01	0.0026
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.231E+01	0.0012
Total	2.127E-18	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.831E-20	0.0000	1.367E-19	0.0000	1.040E+04	1.0000

\*Sum of all water independent and dependent pathways.  
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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	2.727E-03	0.0000	2.232E-02	0.0000	0.000E+00	0.0000	1.162E-02	0.0000	2.489E-05	0.0000	4.718E-05	0.0000	2.783E-03	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	2.192E-15	0.0000	7.318E-20	0.0000	0.000E+00	0.0000	6.800E-17	0.0000	1.241E-17	0.0000	3.327E-18	0.0000	5.089E-19	0.0000
Cs-137	6.231E-02	0.0000	1.451E-06	0.0000	0.000E+00	0.0000	8.602E-03	0.0000	3.171E-03	0.0000	2.080E-03	0.0000	1.288E-04	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	4.178E+01	0.0040	3.716E+02	0.0358	0.000E+00	0.0000	6.285E+02	0.0006	7.333E+01	0.0071	8.111E-01	0.0001	6.678E+01	0.0064
Pb-210	1.040E-05	0.0000	9.395E-05	0.0000	0.000E+00	0.0000	2.784E-02	0.0000	6.959E-04	0.0000	5.410E-04	0.0000	1.667E-03	0.0000
Pm-147	0.000E+00	0.0000	8.496E-11	0.0000	0.000E+00	0.0000	4.975E-11	0.0000	1.065E-11	0.0000	2.019E-13	0.0000	1.191E-11	0.0000
Pu-239	5.732E-03	0.0000	1.994E+01	0.0019	0.000E+00	0.0000	1.557E+01	0.0015	4.026E-01	0.0000	7.459E-03	0.0000	9.315E+00	0.0009
Ra-226	1.875E+02	0.0181	1.331E+00	0.0001	6.617E+03	0.6379	4.949E+02	0.0477	9.736E+00	0.0009	1.186E+01	0.0011	2.025E+01	0.0020
Ra-228	7.987E-14	0.0000	4.826E-15	0.0000	3.368E-15	0.0000	5.178E-14	0.0000	6.531E-16	0.0000	1.525E-15	0.0000	1.387E-15	0.0000
Sm-147	0.000E+00	0.0000	3.433E+00	0.0003	0.000E+00	0.0000	2.010E+00	0.0002	4.305E-01	0.0000	8.159E-03	0.0000	4.813E-01	0.0000

Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	2.599E+01	0.0025	1.542E+01	0.0015	9.165E+02	0.0884	6.646E+01	0.0064	1.298E+00	0.0001	1.560E+00	0.0002	3.987E+00	0.0004
Th-232	3.083E+02	0.0297	9.334E+01	0.0090	1.140E+01	0.0011	2.719E+02	0.0262	3.540E+00	0.0003	7.692E+00	0.0007	1.322E+01	0.0013
U-234	4.361E-02	0.0000	6.172E+00	0.0006	1.261E+00	0.0001	3.198E+00	0.0003	1.149E-01	0.0000	3.805E-01	0.0000	7.513E-01	0.0001
U-235	1.476E+01	0.0014	7.870E+00	0.0008	0.000E+00	0.0000	6.818E+00	0.0007	5.716E-01	0.0001	3.621E-01	0.0000	1.101E+00	0.0001
U-238	2.588E+00	0.0002	5.491E+00	0.0005	3.607E-04	0.0000	2.960E+00	0.0003	1.077E-01	0.0000	3.604E-01	0.0000	7.086E-01	0.0001
Total	5.810E+02	0.0560	5.246E+02	0.0506	7.546E+03	0.7275	1.492E+03	0.1439	8.943E+01	0.0086	2.304E+01	0.0022	1.166E+02	0.0112

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.953E-02	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.276E-15	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.629E-02	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.183E+03	0.1140
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.085E-02	0.0000
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.575E-10	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.524E+01	0.0044
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.343E+03	0.7078
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.434E-13	0.0000
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.363E+00	0.0006
Th-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.031E+03	0.0994
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.094E+02	0.0684
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.192E+01	0.0011
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.149E+01	0.0030
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.222E+01	0.0012
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.037E+04	1.0000

\*Sum of all water independent and dependent pathways.  
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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
 As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Radio-Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	5.614E-13	0.0000	4.596E-12	0.0000	0.000E+00	0.0000	2.393E-12	0.0000	5.125E-15	0.0000	9.714E-15	0.0000	5.730E-13	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	5.755E-09	0.0000	1.340E-13	0.0000	0.000E+00	0.0000	7.945E-10	0.0000	2.928E-10	0.0000	1.921E-10	0.0000	1.189E-11	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	4.048E+01	0.0039	3.599E+02	0.0350	0.000E+00	0.0000	6.088E+02	0.0592	7.094E+01	0.0069	7.858E-01	0.0001	6.469E+01	0.0063
Pb-210	3.399E-15	0.0000	3.071E-14	0.0000	0.000E+00	0.0000	9.100E-12	0.0000	2.275E-13	0.0000	1.768E-13	0.0000	5.449E-13	0.0000
Pm-147	0.000E+00	0.0000	8.036E-11	0.0000	0.000E+00	0.0000	4.706E-11	0.0000	1.008E-11	0.0000	1.910E-13	0.0000	1.127E-11	0.0000
Pu-239	5.578E-03	0.0000	1.937E+01	0.0019	0.000E+00	0.0000	1.512E+01	0.0015	3.910E-01	0.0000	7.245E-03	0.0000	9.047E+00	0.0009

Ka-226	1.378E+02	0.0134	9.708E-01	0.0001	4.857E+03	0.4720	3.636E+02	0.0353	7.154E+00	0.0007	8.711E+00	0.0008	1.488E+01	0.0014
Ka-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sm-147	0.000E+00	0.0000	3.247E+00	0.0003	0.000E+00	0.0000	1.901E+00	0.0002	4.072E-01	0.0000	7.718E-03	0.0000	4.553E-01	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	7.420E+01	0.0072	1.554E+01	0.0015	2.615E+03	0.2542	1.937E+02	0.0188	3.802E+00	0.0004	4.609E+00	0.0004	9.177E+00	0.0009
Th-232	3.059E+02	0.0297	9.261E+01	0.0090	1.131E+01	0.0011	2.698E+02	0.0262	3.512E+00	0.0003	7.631E+00	0.0007	1.311E+01	0.0013
U-234	3.621E-01	0.0000	6.082E+00	0.0006	1.249E+01	0.0012	3.432E+00	0.0004	1.277E-01	0.0000	3.887E-01	0.0000	7.704E-01	0.0001
U-235	1.495E+01	0.0015	1.299E+01	0.0013	0.000E+00	0.0000	1.566E+01	0.0015	1.608E+00	0.0002	3.635E-01	0.0000	2.030E+00	0.0002
U-238	2.515E+00	0.0002	5.347E+00	0.0005	1.217E-02	0.0000	2.883E+00	0.0003	1.049E-01	0.0000	3.509E-01	0.0000	6.901E-01	0.0001
Total	5.761E+02	0.0560	5.161E+02	0.0502	7.496E+03	0.7285	1.475E+03	0.1434	8.804E+01	0.0086	2.285E+01	0.0022	1.144E+02	0.0112

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Total Dose Contributions TRSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Radio-Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ac-227	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.138E-12	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.046E-09	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pa-231	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.146E+03	0.1113
Pb-210	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.008E-11	0.0000
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.490E-10	0.0000
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.394E+01	0.0043
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.390E+03	0.5238
Ra-228	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.619E+00	0.0006
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.916E+03	0.2834
Th-232	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.038E+02	0.0684
U-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.415E+01	0.0023
U-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.759E+01	0.0046
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.190E+01	0.0012
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.029E+04	1.0000

\*Sum of all water independent and dependent pathways.  
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Dose/Source Ratios Summed Over All Pathways  
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	Dose(j,t) (mrem/yr)/(pCi/q)								
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	
Ac-227	Ac-227	1.000E+00	5.600E+00	5.425E+00	5.090E+00	4.072E+00	2.153E+00	2.314E-01	3.953E-04	8.138E-14	
Co-57	Co-57	1.000E+00	1.030E-01	4.044E-02	6.237E-03	8.986E-06	6.843E-14	2.639E-42	0.000E+00	0.000E+00	
Co-60	Co-60	1.000E+00	3.206E+00	2.811E+00	2.160E+00	8.597E-01	6.181E-02	6.162E-06	2.276E-17	0.000E+00	
Cs-137	Cs-137	1.000E+00	7.893E-01	7.713E-01	7.364E-01	6.263E-01	3.943E-01	7.804E-02	7.629E-04	7.046E-11	
H-3	H-3	1.000E+00	1.592E-02	2.564E-02	9.375E-02	5.910E-03	8.002E-07	2.312E-20	0.000E+00	0.000E+00	
Pa-231	Pa-231	1.000E+00	6.378E+00	6.377E+00	6.377E+00	6.375E+00	6.369E+00	6.349E+00	6.291E+00	6.094E+00	
Pu-231	Ac-227	1.000E+00	0.000E+00	1.833E-01	5.179E-01	1.534E+00	3.449E+00	5.354E+00	5.535E+00	5.362E+00	
Pu-231	ESDR(j)		6.378E+00	6.561E+00	6.895E+00	7.909E+00	9.818E+00	1.170E+01	1.183E+01	1.146E+01	

OPb-210	Pb-210	1.000E+00	3.585E+00	3.475E+00	3.265E+00	2.624E+00	1.406E+00	1.583E-01	3.085E-04	1.008E-13
OPm-147	Pm-147	1.000E+00	1.986E-04	1.524E-04	8.985E-05	1.413E-05	7.152E-08	6.601E-16	7.297E-39	0.000E+00
Pm-147	Sm-147	1.000E+00	0.000E+00	3.744E-13	8.825E-13	1.497E-12	1.608E-12	1.600E-12	1.575E-12	1.490E-12
Pm-147	EDSR(j)		1.986E-04	1.524E-04	8.985E-05	1.413E-05	7.152E-08	1.601E-12	1.575E-12	1.490E-12
OPu-239	Pu-239	1.000E+00	4.581E-01	4.581E-01	4.580E-01	4.579E-01	4.575E-01	4.562E-01	4.524E-01	4.394E-01
Pu-239	U-235	1.000E+00	0.000E+00	2.419E-10	7.273E-10	2.425E-09	7.271E-09	2.417E-08	7.191E-08	2.329E-07
Pu-239	Pa-231	1.000E+00	0.000E+00	6.267E-14	5.864E-13	6.603E-12	5.961E-11	6.613E-10	5.903E-09	6.367E-08
Pu-239	Ac-227	1.000E+00	0.000E+00	6.873E-16	1.704E-14	5.808E-13	1.344E-11	3.268E-10	4.222E-09	5.261E-08
Pu-239	EDSR(j)		4.581E-01	4.581E-01	4.580E-01	4.579E-01	4.575E-01	4.562E-01	4.524E-01	4.394E-01
ORa-226	Ra-226	1.000E+00	8.019E+01	8.016E+01	8.009E+01	7.984E+01	7.914E+01	7.673E+01	7.024E+01	5.156E+01
Ra-226	Pb-210	1.000E+00	0.000E+00	1.218E-01	3.310E-01	9.671E-01	2.166E+00	3.318E+00	3.184E+00	2.340E+00
Ra-226	EDSR(j)		8.019E+01	8.028E+01	8.042E+01	8.081E+01	8.130E+01	8.005E+01	7.343E+01	5.390E+01
ORa-228	Ra-228	1.000E+00	3.854E+00	3.416E+00	2.684E+00	1.154E+00	1.036E-01	2.240E-05	7.569E-16	0.000E+00
Ra-228	Th-228	1.000E+00	0.000E+00	6.702E-01	1.246E+00	9.413E-01	9.260E-02	2.004E-05	6.772E-16	0.000E+00
Ra-228	EDSR(j)		3.854E+00	4.086E+00	3.930E+00	2.096E+00	1.962E-01	4.244E-05	1.434E-15	0.000E+00
OSm-147	Sm-147	1.000E+00	6.516E-02	6.516E-02	6.515E-02	6.511E-02	6.501E-02	6.465E-02	6.363E-02	6.019E-02
OTh-228	Th-228	1.000E+00	2.288E+00	1.592E+00	7.715E-01	6.107E-02	4.352E-05	4.205E-16	0.000E+00	0.000E+00
OTh-230	Th-230	1.000E+00	1.934E-01	1.933E-01	1.933E-01	1.933E-01	1.932E-01	1.930E-01	1.922E-01	1.895E-01
Th-230	Ra-226	1.000E+00	0.000E+00	3.469E-02	1.041E-01	3.466E-01	1.035E+00	3.395E+00	9.729E+00	2.776E+01
Th-230	Pb-210	1.000E+00	0.000E+00	2.887E-05	2.260E-04	2.230E-03	1.635E-02	1.059E-01	3.911E-01	1.210E+00
Th-230	EDSR(j)		1.934E-01	2.281E-01	2.977E-01	5.421E-01	1.245E+00	3.694E+00	1.031E+01	2.916E+01
OTh-232	Th-232	1.000E+00	9.697E-01	9.697E-01	9.696E-01	9.696E-01	9.693E-01	9.686E-01	9.664E-01	9.588E-01
Th-232	Ra-228	1.000E+00	0.000E+00	4.250E-01	1.157E+00	2.686E+00	3.736E+00	3.837E+00	3.824E+00	3.798E+00
Th-232	Th-228	1.000E+00	0.000E+00	4.481E-02	2.903E-01	1.305E+00	2.214E+00	2.305E+00	2.300E+00	2.282E+00
Th-232	EDSR(j)		9.697E-01	1.439E+00	2.417E+00	4.961E+00	6.920E+00	7.110E+00	7.094E+00	7.038E+00

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Dose/Source Ratios Summed Over All Pathways

Parent and Progeny Principal Radionuclide Contributions Indicated

OParent (i)	Product (j)	Branch Fraction*	DSR(j,t) (mrem/yr)/(pCi/g)							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
U-234	U-234	1.000E+00	1.062E-01	1.062E-01	1.062E-01	1.062E-01	1.061E-01	1.058E-01	1.048E-01	1.017E-01
U-234	Th-230	1.000E+00	0.000E+00	1.754E-06	5.235E-06	1.741E-05	5.218E-05	1.735E-04	5.172E-04	1.686E-03
U-234	Ra-226	1.000E+00	0.000E+00	1.560E-07	1.405E-06	1.561E-05	1.400E-04	1.537E-03	1.338E-02	1.326E-01
U-234	Pb-210	1.000E+00	0.000E+00	9.322E-11	2.115E-09	6.936E-08	1.587E-06	3.837E-05	4.864E-04	5.592E-03
U-234	EDSR(j)		1.062E-01	1.062E-01	1.062E-01	1.062E-01	1.063E-01	1.075E-01	1.192E-01	2.415E-01
OU-235	U-235	1.000E+00	2.464E-01	2.464E-01	2.464E-01	2.463E-01	2.461E-01	2.454E-01	2.434E-01	2.365E-01
U-235	Pa-231	1.000E+00	0.000E+00	1.310E-04	4.008E-04	1.345E-03	4.039E-03	1.343E-02	3.996E-02	1.292E-01
U-235	Ac-227	1.000E+00	0.000E+00	2.024E-06	1.693E-05	1.717E-04	1.268E-03	8.265E-03	3.148E-02	1.101E-01
U-235	EDSR(j)		2.464E-01	2.466E-01	2.468E-01	2.478E-01	2.514E-01	2.671E-01	3.149E-01	4.759E-01
OU-238	U-238	1.000E+00	1.236E-01	1.236E-01	1.236E-01	1.235E-01	1.234E-01	1.231E-01	1.221E-01	1.186E-01
U-238	U-234	1.000E+00	0.000E+00	3.011E-07	9.032E-07	3.010E-06	9.022E-06	2.998E-05	8.919E-05	2.886E-04
U-238	Th-230	1.000E+00	0.000E+00	2.505E-12	2.232E-11	2.470E-10	2.219E-09	2.459E-08	2.197E-07	2.382E-06
U-238	Ra-226	1.000E+00	0.000E+00	1.480E-13	3.986E-12	1.475E-10	3.973E-09	1.457E-07	3.829E-06	1.291E-04
U-238	Pb-210	1.000E+00	0.000E+00	1.503E-16	4.798E-15	5.043E-13	3.534E-11	3.053E-09	1.273E-07	5.279E-06
U-238	EDSR(j)		1.236E-01	1.236E-01	1.236E-01	1.235E-01	1.234E-01	1.231E-01	1.222E-01	1.190E-01

\*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)\*BRF(2)\* ... BRF(j).  
 The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Single Radionuclide Soil Guidelines G(i,t) in pCi/g  
 Basic Radiation Dose Limit = 10 mrem/yr

ONuclide (i)	t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	1.786E+00	1.843E+00	1.965E+00	2.456E+00	4.644E+00	4.321E+01	2.530E+04	*7.230E+13

Co-57	9.711E+01	2.473E+02	1.603E+03	1.113E+04	1.461E+14	*8.464E+15	*8.464E+15	*8.464E+15
Co-60	3.119E+00	3.558E+00	4.629E+00	1.163E+01	1.618E+02	1.623E+06	*1.131E+15	*1.131E+15
Cs-137	1.267E+01	1.297E+01	1.358E+01	1.597E+01	2.536E+01	1.281E+02	1.311E+04	1.419E+11
H-3	6.280E+02	3.900E+02	1.067E+02	1.692E+03	1.250E+07	*9.594E+15	*9.594E+15	*9.594E+15
Pu-231	1.568E+00	1.524E+00	1.450E+00	1.264E+00	1.019E+00	8.545E-01	8.456E-01	8.729E-01
Pb-210	2.789E+00	2.878E+00	3.063E+00	3.811E+00	7.113E+00	6.318E+01	3.342E+04	*7.631E+13
Pm-147	5.036E+04	6.560E+04	1.113E+05	7.078E+05	1.398E+08	6.248E+12	6.350E+12	6.714E+12
Pu-239	2.183E+01	2.183E+01	2.183E+01	2.184E+01	2.186E+01	2.192E+01	2.211E+01	2.276E+01
Ra-226	1.247E-01	1.246E-01	1.244E-01	1.238E-01	1.230E-01	1.249E-01	1.362E-01	1.855E-01
Ra-228	2.595E+00	2.447E+00	2.545E+00	4.772E+00	5.098E+01	2.356E+05	*2.726E+14	*2.726E+14
Sm-147	1.535E+02	1.535E+02	1.535E+02	1.536E+02	1.538E+02	1.547E+02	1.572E+02	1.662E+02
Th-228	4.371E+00	6.280E+00	1.296E+01	1.637E+02	2.298E+05	*8.192E+14	*8.192E+14	*8.192E+14
Th-230	5.172E+01	4.385E+01	3.359E+01	1.845E+01	8.035E+00	2.707E+00	9.697E-01	3.429E-01
Th-232	1.031E+01	6.947E+00	4.138E+00	2.016E+00	1.445E+00	1.406E+00	1.410E+00	1.421E+00
U-234	9.415E+01	9.415E+01	9.415E+01	9.416E+01	9.410E+01	9.402E+01	8.388E+01	4.140E+01
U-235	4.058E+01	4.056E+01	4.052E+01	4.035E+01	3.977E+01	3.744E+01	3.176E+01	2.101E+01
U-238	8.093E+01	8.093E+01	8.094E+01	8.096E+01	8.102E+01	8.124E+01	8.186E+01	8.461E+01

\*At specific activity limit  
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Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)  
 and Single Radionuclide Soil Guidelines G(i,t) in pCi/g  
 at tmin = time of minimum single radionuclide soil guideline  
 and at tmax = time of maximum total dose = 0.000E+00 years

Radionuclide (i)	Initial pCi/g	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
Ac-227	1.000E+02	0.000E+00	5.600E+00	1.786E+00	5.600E+00	1.786E+00
Co-57	1.000E+02	0.000E+00	1.030E-01	9.711E+01	1.030E-01	9.711E+01
Co-60	1.000E+02	0.000E+00	3.206E+00	3.119E+00	3.206E+00	3.119E+00
Cs-137	1.000E+02	0.000E+00	7.893E-01	1.267E+01	7.893E-01	1.267E+01
H-3	1.000E+02	3.579 ± 0.007	1.029E-01	9.713E+01	1.592E-02	6.280E+02
Pu-231	1.000E+02	182.0 ± 0.4	1.187E+01	8.422E-01	6.378E+00	1.568E+00
Pb-210	1.000E+02	0.000E+00	3.585E+00	2.789E+00	3.585E+00	2.789E+00
Pm-147	1.000E+02	0.000E+00	1.986E-04	5.036E+04	1.986E-04	5.036E+04
Pu-239	1.000E+02	0.000E+00	4.581E-01	2.183E+01	4.581E-01	2.183E+01
Ra-226	1.000E+02	36.48 ± 0.07	8.133E+01	1.230E-01	8.019E+01	1.247E-01
Ra-228	1.000E+02	1.424 ± 0.003	4.103E+00	2.437E+00	3.854E+00	2.595E+00
Sm-147	1.000E+02	0.000E+00	6.516E-02	1.535E+02	6.516E-02	1.535E+02
Th-228	1.000E+02	0.000E+00	2.288E+00	4.371E+00	2.288E+00	4.371E+00
Th-230	1.000E+02	1.000E+03	2.916E+01	3.429E-01	1.934E-01	5.172E+01
Th-232	1.000E+02	77.5 ± 0.2	7.111E+00	1.406E+00	9.697E-01	1.031E+01
U-234	1.000E+02	1.000E+03	2.415E-01	4.140E+01	1.062E-01	9.415E+01
U-235	1.000E+02	1.000E+03	4.759E-01	2.101E+01	2.464E-01	4.058E+01
U-238	1.000E+02	0.000E+00	1.236E-01	8.093E+01	1.236E-01	8.093E+01

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 Summary : RESRAD Default Parameters File: RESE6.RAD

Individual Nuclide Dose Summed Over All Pathways  
 Parent Nuclide and Branch Fraction Indicated

Radionuclide (i)	Parent (i)	BRF(i)	t = 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Ac-227	1.000E+00	5.600E+02	5.425E+02	5.090E+02	4.072E+02	2.153E+02	2.314E+01	3.953E-02	8.138E-12

Ac-227	Pa-231	1.000E+00	0.000E+00	1.833E+01	5.179E+01	1.534E+02	3.449E+02	5.354E+02	5.535E+02	5.362E+02
Ac-227	Pu-239	1.000E+00	0.000E+00	6.873E-14	1.704E-12	5.808E-11	1.344E-09	3.268E-08	4.222E-07	5.261E-06
Ac-227	U-235	1.000E+00	0.000E+00	2.024E-04	1.693E-03	1.717E-02	1.268E-01	8.265E-01	3.148E+00	1.101E+01
Ac-227	SDOSE(j):		5.600E+02	5.608E+02	5.608E+02	5.607E+02	5.604E+02	5.594E+02	5.567E+02	5.472E+02
OC0-57	Co-57	1.000E+00	1.030E+01	4.044E+00	6.237E-01	8.986E-04	6.843E-12	0.000E+00	0.000E+00	0.000E+00
OC0-60	Co-60	1.000E+00	3.206E+02	2.811E+02	2.160E+02	8.597E+01	6.181E+00	6.162E-04	2.276E-15	0.000E+00
OCs-137	Cs-137	1.000E+00	7.893E+01	7.713E+01	7.364E+01	6.263E+01	3.943E+01	7.804E+00	7.629E-02	7.046E-09
OH-3	H-3	1.000E+00	1.592E+00	2.564E+00	9.375E+00	5.910E-01	8.002E-05	2.312E-18	0.000E+00	0.000E+00
OPa-231	Pa-231	1.000E+00	6.378E+02	6.377E+02	6.377E+02	6.375E+02	6.369E+02	6.349E+02	6.291E+02	6.094E+02
Pa-231	Pu-239	1.000E+00	0.000E+00	6.267E-12	5.864E-11	6.603E-10	5.961E-09	6.613E-08	5.903E-07	6.367E-06
Pa-231	U-235	1.000E+00	0.000E+00	1.310E-02	4.008E-02	1.345E-01	4.039E-01	1.343E+00	3.996E+00	1.242E+01
Pa-231	SDOSE(j):		6.378E+02	6.378E+02	6.377E+02	6.376E+02	6.373E+02	6.362E+02	6.331E+02	6.224E+02
OPb-210	Pb-210	1.000E+00	3.585E+02	3.475E+02	3.265E+02	2.624E+02	1.406E+02	1.583E+01	3.085E-02	1.008E-11
Pb-210	Ra-226	1.000E+00	0.000E+00	1.218E+01	3.310E+01	9.671E+01	2.166E+02	3.318E+02	3.184E+02	2.340E+02
Pb-210	Th-230	1.000E+00	0.000E+00	2.887E-03	2.260E-02	2.230E-01	1.635E+00	1.059E+01	3.911E+01	1.210E+02
Pb-210	U-234	1.000E+00	0.000E+00	9.322E-09	2.115E-07	6.936E-06	1.587E-04	3.837E-03	4.864E-02	5.592E-01
Pb-210	U-238	1.000E+00	0.000E+00	1.503E-14	4.798E-13	5.043E-11	3.534E-09	3.053E-07	1.273E-05	5.279E-04
Pb-210	SDOSE(j):		3.585E+02	3.597E+02	3.596E+02	3.593E+02	3.588E+02	3.582E+02	3.576E+02	3.556E+02
OPm-147	Pm-147	1.000E+00	1.986E-02	1.524E-02	8.985E-03	1.413E-03	7.152E-06	6.601E-14	0.000E+00	0.000E+00
OSm-147	Pm-147	1.000E+00	0.000E+00	3.744E-11	8.825E-11	1.497E-10	1.608E-10	1.600E-10	1.575E-10	1.490E-10
Sm-147	Sm-147	1.000E+00	6.516E+00	6.516E+00	6.515E+00	6.511E+00	6.501E+00	6.465E+00	6.363E+00	6.019E+00
Sm-147	SDOSE(j):		6.516E+00	6.516E+00	6.515E+00	6.511E+00	6.501E+00	6.465E+00	6.363E+00	6.019E+00
OPu-239	Pu-239	1.000E+00	4.581E+01	4.581E+01	4.580E+01	4.579E+01	4.575E+01	4.562E+01	4.524E+01	4.394E+01
OU-235	Pu-239	1.000E+00	0.000E+00	2.419E-08	7.273E-08	2.425E-07	7.271E-07	2.417E-06	7.191E-06	2.329E-05
U-235	U-235	1.000E+00	2.464E+01	2.464E+01	2.464E+01	2.463E+01	2.461E+01	2.454E+01	2.434E+01	2.365E+01
U-235	SDOSE(j):		2.464E+01	2.464E+01	2.464E+01	2.463E+01	2.461E+01	2.454E+01	2.434E+01	2.365E+01
ORa-226	Ra-226	1.000E+00	8.019E+03	8.016E+03	8.009E+03	7.984E+03	7.914E+03	7.673E+03	7.024E+03	5.156E+03
Ra-226	Th-230	1.000E+00	0.000E+00	3.469E+00	1.041E+01	3.466E+01	1.035E+02	3.395E+02	9.729E+02	2.776E+03
Ra-226	U-234	1.000E+00	0.000E+00	1.560E-05	1.405E-04	1.561E-03	1.400E-02	1.537E-01	1.338E+00	1.326E+01
Ra-226	U-238	1.000E+00	0.000E+00	1.480E-11	3.986E-10	1.475E-08	3.973E-07	1.457E-05	3.829E-04	1.291E-02
Ra-226	SDOSE(j):		8.019E+03	8.019E+03	8.019E+03	8.019E+03	8.017E+03	8.012E+03	7.998E+03	7.945E+03
ORa-228	Ra-228	1.000E+00	3.854E+02	3.416E+02	2.684E+02	1.154E+02	1.036E+01	2.240E-03	7.569E-14	0.000E+00
Ra-228	Th-232	1.000E+00	0.000E+00	4.250E+01	1.157E+02	2.686E+02	3.736E+02	3.837E+02	3.828E+02	3.798E+02
Ra-228	SDOSE(j):		3.854E+02	3.841E+02	3.841E+02	3.841E+02	3.840E+02	3.837E+02	3.828E+02	3.798E+02

1RESRAD, Version 5.82      Th Limit = 0.5 year      05/17/00 08:32      Page 34  
 Summary : RESRAD Default Parameters      File: RESE6.RAD

Individual Nuclide Dose Summed Over All Pathways  
 Parent Nuclide and Branch Fraction Indicated

ONuclide (j)	Parent (i)	BRF(i)	DOSE(j,t), mrem/yr							
			t = 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Th-228	Ra-228	1.000E+00	0.000E+00	6.702E+01	1.246E+02	9.413E+01	9.260E+00	2.004E-03	6.772E-14	0.000E+00
Th-228	Th-228	1.000E+00	2.288E+02	1.592E+02	7.715E+01	6.107E+00	4.352E-03	4.205E-14	0.000E+00	0.000E+00
Th-228	Th-232	1.000E+00	0.000E+00	4.481E+00	2.903E+01	1.305E+02	2.214E+02	2.305E+02	2.300E+02	2.282E+02
Th-228	SDOSE(j):		2.288E+02	2.307E+02	2.307E+02	2.307E+02	2.307E+02	2.305E+02	2.300E+02	2.282E+02
OTh-230	Th-230	1.000E+00	1.934E+01	1.933E+01	1.933E+01	1.933E+01	1.932E+01	1.930E+01	1.922E+01	1.895E+01
Th-230	U-234	1.000E+00	0.000E+00	1.754E-04	5.235E-04	1.741E-03	5.218E-03	1.735E-02	5.172E-02	1.686E-01
Th-230	U-238	1.000E+00	0.000E+00	2.505E-10	2.232E-09	2.470E-08	2.219E-07	2.459E-06	2.197E-05	2.382E-04
Th-230	SDOSE(j):		1.934E+01	1.934E+01	1.933E+01	1.933E+01	1.933E+01	1.931E+01	1.927E+01	1.912E+01
OTh-232	Th-232	1.000E+00	9.697E+01	9.697E+01	9.696E+01	9.696E+01	9.693E+01	9.686E+01	9.664E+01	9.588E+01
OU-234	U-234	1.000E+00	1.062E+01	1.062E+01	1.062E+01	1.062E+01	1.061E+01	1.058E+01	1.048E+01	1.017E+01
U-234	U-238	1.000E+00	0.000E+00	3.011E-05	9.032E-05	3.010E-04	9.022E-04	2.998E-03	8.919E-03	2.886E-02
U-234	SDOSE(j):		1.062E+01	1.062E+01	1.062E+01	1.062E+01	1.061E+01	1.058E+01	1.049E+01	1.020E+01
OU-238	U-238	1.000E+00	1.236E+01	1.236E+01	1.236E+01	1.235E+01	1.234E+01	1.231E+01	1.221E+01	1.186E+01

BRF(i) is the branch fraction of the parent nuclide.  
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0Th-232	Th-232	1.000E+00	1.000E+02	1.000E+02	1.000E+02	9.999E+01	9.997E+01	9.989E+01	9.966E+01	9.888E+01
0U-234	U-234	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.987E+01	9.956E+01	9.869E+01	9.571E+01
U-234	U-238	1.000E+00	0.000E+00	2.835E-04	8.504E-04	2.834E-03	8.494E-03	2.823E-02	8.397E-02	2.717E-01
U-234	ΣS(j):		1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.988E+01	9.959E+01	9.878E+01	9.598E+01
0U-238	U-238	1.000E+00	1.000E+02	1.000E+02	9.999E+01	9.996E+01	9.988E+01	9.959E+01	9.878E+01	9.598E+01

BRF(i) is the branch fraction of the parent nuclide.

## APPENDIX F

### RADIATION (GAMMA) SCANNING SURVEY

- AREA A - BUILDING 815 /816 (CLASS I)
- AREA B – FORMER DRY WASTE DISPOSAL AREA (CLASS II)
- AREA C - DISPOSAL PIT C (CLASS II)
- AREA D - DISPOSAL PIT A/B (CLASS I)
- AREA E - BUILDING 819 (CLASS I)
- AREA F – EM-6 (CLASS II)
- AREA H – EM-5 (CLASS II)
- AREA I – EM-27 (CLASS II)
- AREA J – DRAINAGE DITCHES (CLASS II)
- CLASS III

REPORT

1. Introduction

2. Objectives

3. Methodology

4. Results

5. Discussion

6. Conclusion

7. References

8. Appendix

9. Bibliography

10. Acknowledgements

11. Summary

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744516.4	1013635	1.33	2.26	-41.15%	0033A	
9/4/1997	Sead-12	A	744519.4	1013635	1.36	2.26	-39.82%	0033A	
9/4/1997	Sead-12	A	744522.4	1013635	1.44	2.26	-36.28%	0033A	
9/4/1997	Sead-12	A	744525.4	1013635	1.52	2.26	-32.74%	0033A	
9/4/1997	Sead-12	A	744528.4	1013635	1.57	2.26	-30.53%	0033A	
9/4/1997	Sead-12	A	744531.4	1013635	1.56	2.26	-30.97%	0033A	
9/4/1997	Sead-12	A	744534.4	1013635	1.59	2.26	-29.65%	0033A	
9/4/1997	Sead-12	A	744537.4	1013636	1.61	2.26	-28.76%	0033A	
9/4/1997	Sead-12	A	744540.3	1013636	1.61	2.26	-28.76%	0033A	
9/4/1997	Sead-12	A	744543.3	1013636	1.63	2.26	-27.88%	0033A	
9/4/1997	Sead-12	A	744546.3	1013636	1.64	2.26	-27.43%	0033A	
9/4/1997	Sead-12	A	744549.3	1013636	1.66	2.26	-26.55%	0033A	
9/4/1997	Sead-12	A	744552.3	1013636	1.65	2.26	-26.99%	0033A	
9/4/1997	Sead-12	A	744555.3	1013636	1.66	2.26	-26.55%	0033A	
9/4/1997	Sead-12	A	744558.3	1013637	1.65	2.26	-26.99%	0033A	
9/4/1997	Sead-12	A	744561.3	1013637	1.69	2.26	-25.22%	0033A	
9/4/1997	Sead-12	A	744564.3	1013637	1.7	2.26	-24.78%	0033A	
9/4/1997	Sead-12	A	744567.3	1013637	1.72	2.26	-23.89%	0033A	
9/4/1997	Sead-12	A	744570.3	1013637	1.73	2.26	-23.45%	0033A	
9/4/1997	Sead-12	A	744573.3	1013637	1.74	2.26	-23.01%	0033A	
9/4/1997	Sead-12	A	744576.3	1013637	1.7	2.26	-24.78%	0033A	
9/4/1997	Sead-12	A	744579.3	1013637	1.7	2.26	-24.78%	0033A	
9/4/1997	Sead-12	A	744582.3	1013638	1.71	2.26	-24.34%	0033A	
9/4/1997	Sead-12	A	744585.3	1013638	1.71	2.26	-24.34%	0033A	
9/4/1997	Sead-12	A	744588.3	1013638	1.71	2.26	-24.34%	0033A	
9/4/1997	Sead-12	A	744591.3	1013638	1.71	2.26	-24.34%	0033A	
9/4/1997	Sead-12	A	744594.3	1013638	1.68	2.26	-25.66%	0033A	
9/4/1997	Sead-12	A	744597.3	1013638	1.72	2.26	-23.89%	0033A	
9/4/1997	Sead-12	A	744600.3	1013638	1.77	2.26	-21.68%	0033A	
9/4/1997	Sead-12	A	744603.3	1013638	1.76	2.26	-22.12%	0033A	
9/4/1997	Sead-12	A	744606.3	1013639	1.82	2.26	-19.47%	0033A	
9/4/1997	Sead-12	A	744609.3	1013639	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744612.3	1013639	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744615.3	1013639	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744618.3	1013639	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744621.3	1013639	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744624.3	1013639	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744627.3	1013640	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744630.3	1013640	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744633.3	1013640	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744636.3	1013640	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744639.3	1013640	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744642.3	1013640	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744645.3	1013640	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744648.3	1013640	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744651.3	1013641	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744654.3	1013641	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744657.3	1013641	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744516.3	1013638	1.59	2.26	-29.65%	0033A	
9/4/1997	Sead-12	A	744519.3	1013638	1.74	2.26	-23.01%	0033A	
9/4/1997	Sead-12	A	744522.3	1013638	1.77	2.26	-21.68%	0033A	
9/4/1997	Sead-12	A	744525.3	1013638	1.79	2.26	-20.80%	0033A	
9/4/1997	Sead-12	A	744528.3	1013638	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744531.3	1013638	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744534.3	1013638	1.82	2.26	-19.47%	0033A	
9/4/1997	Sead-12	A	744537.3	1013638	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744540.2	1013639	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744543.2	1013639	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744546.2	1013639	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744549.2	1013639	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744552.2	1013639	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744555.2	1013639	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744558.2	1013639	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744561.2	1013640	1.79	2.26	-20.80%	0033A	
9/4/1997	Sead-12	A	744564.2	1013640	1.78	2.26	-21.24%	0033A	
9/4/1997	Sead-12	A	744567.2	1013640	1.75	2.26	-22.57%	0033A	
9/4/1997	Sead-12	A	744570.2	1013640	1.76	2.26	-22.12%	0033A	
9/4/1997	Sead-12	A	744573.2	1013640	1.78	2.26	-21.24%	0033A	
9/4/1997	Sead-12	A	744576.2	1013640	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744579.2	1013640	1.82	2.26	-19.47%	0033A	
9/4/1997	Sead-12	A	744582.2	1013640	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744585.2	1013641	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744588.2	1013641	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744591.2	1013641	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744594.2	1013641	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744597.2	1013641	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744600.2	1013641	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744603.1	1013641	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744606.1	1013641	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744609.1	1013642	1.98	2.26	-12.39%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744612.1	1013642	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744615.1	1013642	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744618.1	1013642	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744621.1	1013642	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744624.1	1013642	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744627.1	1013642	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744630.1	1013643	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744633.1	1013643	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744636.1	1013643	1.95	2.26	-13.72%	0033A	SURFACE DRAIN
9/4/1997	Sead-12	A	744639.1	1013643	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744642.1	1013643	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744645.1	1013643	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744648.1	1013643	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744651.1	1013643	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744654.1	1013644	2.08	2.26	-7.96%	0033A	
9/4/1997	Sead-12	A	744657.1	1013644	2.08	2.26	-7.96%	0033A	
9/4/1997	Sead-12	A	744516.1	1013640	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744519.1	1013641	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744522.1	1013641	1.81	2.26	-19.91%	0033A	
9/4/1997	Sead-12	A	744525.1	1013641	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744528.1	1013641	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744531.1	1013641	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744534.1	1013641	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744537.1	1013641	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744540.1	1013641	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744543.1	1013642	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744546.1	1013642	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744549.1	1013642	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744552.1	1013642	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744555.1	1013642	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744558.1	1013642	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744561.1	1013642	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744564.1	1013643	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744567.1	1013643	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744570.1	1013643	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744573.1	1013643	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744576.1	1013643	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744579.1	1013643	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744582.1	1013643	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744585.1	1013643	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744588.1	1013644	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744591.1	1013644	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744594.1	1013644	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744597.1	1013644	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744600.1	1013644	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744603	1013644	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744606	1013644	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744609	1013644	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744612	1013645	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744615	1013645	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744618	1013645	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744621	1013645	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744624	1013645	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744627	1013645	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744630	1013645	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744633	1013646	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744636	1013646	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744639	1013646	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744642	1013646	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744645	1013646	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744648	1013646	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744651	1013646	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744654	1013646	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744657	1013647	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744516	1013643	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744519	1013643	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744522	1013644	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744525	1013644	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744528	1013644	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744531	1013644	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744534	1013644	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744536.9	1013644	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744539.9	1013644	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744542.9	1013644	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744545.9	1013645	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744548.9	1013645	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744551.9	1013645	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744554.9	1013645	1.82	2.26	-19.47%	0033A	
9/4/1997	Sead-12	A	744557.9	1013645	1.81	2.26	-19.91%	0033A	
9/4/1997	Sead-12	A	744560.9	1013645	1.82	2.26	-19.47%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744563.9	1013645	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744566.9	1013646	1.84	2.26	-18.58%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744569.9	1013646	1.81	2.26	-19.91%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744572.9	1013646	1.76	2.26	-22.12%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744575.9	1013646	1.75	2.26	-22.57%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744578.9	1013646	1.72	2.26	-23.89%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744581.9	1013646	1.74	2.26	-23.01%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744584.9	1013646	1.77	2.26	-21.68%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744587.9	1013646	1.79	2.26	-20.80%	0033A	
9/4/1997	Sead-12	A	744590.9	1013647	1.79	2.26	-20.80%	0033A	
9/4/1997	Sead-12	A	744593.9	1013647	1.8	2.26	-20.35%	0033A	
9/4/1997	Sead-12	A	744596.9	1013647	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744599.9	1013647	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744602.9	1013647	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744605.9	1013647	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744608.9	1013647	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744611.9	1013647	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744614.9	1013648	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744617.9	1013648	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744620.9	1013648	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744623.9	1013648	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744626.9	1013648	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744629.9	1013648	2.09	2.26	-7.52%	0033A	
9/4/1997	Sead-12	A	744632.9	1013648	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744635.9	1013649	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744638.9	1013649	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744641.9	1013649	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744644.9	1013649	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744647.9	1013649	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744650.9	1013649	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744653.9	1013649	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744656.9	1013649	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744515.9	1013646	1.7	2.26	-24.78%	0033A	
9/4/1997	Sead-12	A	744518.9	1013646	1.75	2.26	-22.57%	0033A	
9/4/1997	Sead-12	A	744521.9	1013646	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744524.9	1013647	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744527.9	1013647	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744530.9	1013647	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744533.9	1013647	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744536.8	1013647	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744539.8	1013647	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744542.8	1013647	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744545.8	1013647	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744548.8	1013648	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744551.8	1013648	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744554.8	1013648	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744557.8	1013648	1.56	2.26	-30.97%	0033A	
9/4/1997	Sead-12	A	744560.8	1013648	1.6	2.26	-29.20%	0033A	
9/4/1997	Sead-12	A	744563.8	1013648	1.66	2.26	-26.55%	0033A	
9/4/1997	Sead-12	A	744566.6	1013648	1.6	2.26	-29.20%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744569.8	1013649	1.59	2.26	-29.65%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744572.8	1013649	1.52	2.26	-32.74%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744575.8	1013649	1.45	2.26	-35.84%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744578.8	1013649	1.42	2.26	-37.17%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744581.8	1013649	1.44	2.26	-36.28%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744584.8	1013649	1.48	2.26	-34.51%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744587.8	1013649	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744590.8	1013649	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744593.8	1013650	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744596.8	1013650	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744599.8	1013650	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744602.8	1013650	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744605.8	1013650	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744608.8	1013650	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744611.8	1013650	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744614.8	1013650	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744617.8	1013651	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744620.8	1013651	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744623.8	1013651	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744626.8	1013651	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744629.8	1013651	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744632.8	1013651	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744635.8	1013651	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744638.8	1013652	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744641.8	1013652	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744644.8	1013652	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744647.8	1013652	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744650.8	1013652	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744653.8	1013652	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744656.8	1013652	2.12	2.26	-6.19%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744515.8	1013649	1.78	2.26	-21.24%	0033A	
9/4/1997	Sead-12	A	744518.8	1013649	1.82	2.26	-19.47%	0033A	
9/4/1997	Sead-12	A	744521.8	1013649	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744524.8	1013649	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744527.8	1013650	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744530.8	1013650	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744533.8	1013650	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744536.7	1013650	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744539.7	1013650	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744542.7	1013650	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744545.7	1013650	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744548.7	1013650	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744551.7	1013651	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744554.7	1013651	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744557.7	1013651	1.8	2.26	-20.35%	0033A	
9/4/1997	Sead-12	A	744560.7	1013651	1.78	2.26	-21.24%	0033A	
9/4/1997	Sead-12	A	744563.7	1013651	1.74	2.26	-23.01%	0033A	
9/4/1997	Sead-12	A	744566.7	1013651	1.7	2.26	-24.78%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744569.7	1013651	1.63	2.26	-27.88%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744572.7	1013652	1.58	2.26	-30.09%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744575.7	1013652	1.34	2.26	-40.71%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744578.7	1013652	1.22	2.26	-46.02%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744581.7	1013652	1.44	2.26	-36.28%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744584.7	1013652	1.72	2.26	-23.89%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744587.7	1013652	1.5	2.26	-33.63%	0033A	
9/4/1997	Sead-12	A	744590.7	1013652	1.62	2.26	-28.32%	0033A	
9/4/1997	Sead-12	A	744593.7	1013652	1.67	2.26	-26.11%	0033A	
9/4/1997	Sead-12	A	744596.7	1013653	1.78	2.26	-21.24%	0033A	
9/4/1997	Sead-12	A	744599.7	1013653	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744602.6	1013653	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744605.6	1013653	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744608.6	1013653	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744611.6	1013653	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744614.6	1013653	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744617.6	1013653	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744620.6	1013654	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744623.6	1013654	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744626.6	1013654	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744629.6	1013654	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744632.6	1013654	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744635.6	1013654	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744638.6	1013654	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744641.6	1013655	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744644.6	1013655	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744647.6	1013655	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744650.6	1013655	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744653.6	1013655	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744656.6	1013655	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744515.6	1013652	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744518.6	1013652	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744521.6	1013652	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744524.6	1013652	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744527.6	1013652	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744530.6	1013653	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744533.6	1013653	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744536.6	1013653	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744539.6	1013653	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744542.6	1013653	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744545.6	1013653	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744548.6	1013653	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744551.6	1013653	1.89	2.26	-16.37%	0033A	
9/4/1997	Sead-12	A	744554.6	1013654	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744557.6	1013654	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744560.6	1013654	1.85	2.26	-18.14%	0033A	
9/4/1997	Sead-12	A	744563.6	1013654	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744566.6	1013654	1.81	2.26	-19.91%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744569.6	1013654	1.25	2.26	-44.69%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744572.6	1013654	1.3	2.26	-42.48%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744575.6	1013655	1.34	2.26	-40.71%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744578.6	1013655	1.33	2.26	-41.15%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744581.6	1013655	1.47	2.26	-34.96%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744584.6	1013655	1.71	2.26	-24.34%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744587.6	1013655	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744590.6	1013655	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744593.6	1013655	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744596.6	1013655	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744599.6	1013656	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744602.5	1013656	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744605.5	1013656	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744608.5	1013656	2.26	2.26	0.00%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744611.5	1013656	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744614.5	1013656	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744617.5	1013656	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744620.5	1013656	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744623.5	1013657	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744626.5	1013657	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744629.5	1013657	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744632.5	1013657	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744635.5	1013657	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744638.5	1013657	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744641.5	1013657	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744644.5	1013658	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744647.5	1013658	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744650.5	1013658	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744653.5	1013658	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744656.5	1013658	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744515.5	1013655	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744518.5	1013655	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744521.5	1013655	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744524.5	1013655	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744527.5	1013655	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744530.5	1013655	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744533.5	1013656	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744536.4	1013656	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744539.4	1013656	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744542.4	1013656	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744545.4	1013656	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744548.4	1013656	2.09	2.26	-7.52%	0033A	
9/4/1997	Sead-12	A	744551.4	1013656	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744554.4	1013656	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744557.4	1013657	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744560.4	1013657	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744563.4	1013657	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744566.4	1013657	1.92	2.26	-15.04%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744569.4	1013657	1.37	2.26	-39.38%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744572.4	1013657	1.38	2.26	-38.94%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744575.4	1013657	1.39	2.26	-38.50%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744578.4	1013658	1.41	2.26	-37.61%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744581.4	1013658	1.49	2.26	-34.07%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744584.4	1013658	1.59	2.26	-29.65%	0033A	BENEATH CHILLER PLATFORM
9/4/1997	Sead-12	A	744587.4	1013658	1.65	2.26	-26.99%	0033A	
9/4/1997	Sead-12	A	744590.4	1013658	1.7	2.26	-24.78%	0033A	
9/4/1997	Sead-12	A	744593.4	1013658	1.73	2.26	-23.45%	0033A	
9/4/1997	Sead-12	A	744596.4	1013658	1.82	2.26	-19.47%	0033A	
9/4/1997	Sead-12	A	744599.4	1013658	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744602.4	1013659	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744605.4	1013659	2.08	2.26	-7.96%	0033A	
9/4/1997	Sead-12	A	744608.4	1013659	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744611.4	1013659	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744614.4	1013659	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744617.4	1013659	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744620.4	1013659	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744623.4	1013659	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744626.4	1013660	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744629.4	1013660	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744632.4	1013660	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744635.4	1013660	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744638.4	1013660	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744641.4	1013660	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744644.4	1013660	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744647.4	1013661	2.16	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744650.4	1013661	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744653.4	1013661	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744656.4	1013661	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744515.4	1013658	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744518.4	1013658	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744521.4	1013658	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744524.4	1013658	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744527.4	1013658	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744530.4	1013658	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744533.3	1013658	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744536.3	1013659	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744539.3	1013659	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744542.3	1013659	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744545.3	1013659	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744548.3	1013659	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744551.3	1013659	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744554.3	1013659	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744557.3	1013659	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744560.3	1013660	2.1	2.26	-7.08%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744563.3	1013660	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744566.3	1013660	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744569.3	1013660	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744572.3	1013660	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744575.3	1013660	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744578.3	1013660	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744581.3	1013661	1.84	2.26	-18.58%	0033A	
9/4/1997	Sead-12	A	744584.3	1013661	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744587.3	1013661	1.86	2.26	-17.70%	0033A	
9/4/1997	Sead-12	A	744590.3	1013661	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744593.3	1013661	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744596.3	1013661	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744599.3	1013661	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744602.3	1013661	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744605.3	1013662	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744608.3	1013662	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744611.3	1013662	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744614.3	1013662	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744617.3	1013662	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744620.3	1013662	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744623.3	1013662	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744626.3	1013662	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744629.3	1013663	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744632.3	1013663	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744635.3	1013663	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744638.3	1013663	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744641.3	1013663	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744644.3	1013663	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744647.3	1013663	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744650.3	1013664	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744653.3	1013664	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744656.3	1013664	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744515.3	1013660	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744518.3	1013661	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744521.3	1013661	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744524.3	1013661	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744527.3	1013661	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744530.3	1013661	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744533.2	1013661	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744536.2	1013661	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744539.2	1013662	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744542.2	1013662	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744545.2	1013662	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744548.2	1013662	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744551.2	1013662	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744554.2	1013662	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744557.2	1013662	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744560.2	1013662	2.09	2.26	-7.52%	0033A	
9/4/1997	Sead-12	A	744563.2	1013663	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744566.2	1013663	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744569.2	1013663	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744572.2	1013663	1.76	2.26	-22.12%	0033A	
9/4/1997	Sead-12	A	744575.2	1013663	1.77	2.26	-21.68%	0033A	
9/4/1997	Sead-12	A	744578.2	1013663	1.81	2.26	-19.91%	0033A	
9/4/1997	Sead-12	A	744581.2	1013663	1.83	2.26	-19.03%	0033A	
9/4/1997	Sead-12	A	744584.2	1013664	1.87	2.26	-17.26%	0033A	
9/4/1997	Sead-12	A	744587.2	1013664	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744590.2	1013664	1.9	2.26	-15.93%	0033A	
9/4/1997	Sead-12	A	744593.2	1013664	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744596.2	1013664	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744599.1	1013664	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744602.1	1013664	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744605.1	1013664	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744608.1	1013665	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744611.1	1013665	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744614.1	1013665	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744617.1	1013665	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744620.1	1013665	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744623.1	1013665	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744626.1	1013665	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744629.1	1013665	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744632.1	1013666	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744635.1	1013666	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744638.1	1013666	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744641.1	1013666	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744644.1	1013666	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744847.1	1013666	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744650.1	1013666	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744653.1	1013667	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744656.1	1013667	2.25	2.26	-0.44%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744515.1	1013663	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744518.1	1013663	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744521.1	1013664	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744524.1	1013664	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744527.1	1013664	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744530.1	1013664	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744533.1	1013664	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744536.1	1013664	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744539.1	1013664	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744542.1	1013665	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744545.1	1013665	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744548.1	1013665	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744551.1	1013665	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744554.1	1013665	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744557.1	1013665	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744560.1	1013665	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744563.1	1013665	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744566.1	1013666	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744569.1	1013666	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744572.1	1013666	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744575.1	1013666	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744578.1	1013666	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744581.1	1013666	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744584.1	1013666	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744587.1	1013666	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744590.1	1013667	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744593.1	1013667	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744596.1	1013667	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744599	1013667	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744602	1013667	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744605	1013667	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744608	1013667	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744611	1013668	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744614	1013668	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744617	1013668	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744620	1013668	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744623	1013668	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744626	1013668	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744629	1013668	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744632	1013668	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744635	1013669	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744638	1013669	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744641	1013669	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744644	1013669	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744647	1013669	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744650	1013669	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744653	1013669	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744656	1013670	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744515	1013666	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744518	1013666	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744521	1013666	2.08	2.26	-7.96%	0033A	
9/4/1997	Sead-12	A	744524	1013667	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744527	1013667	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744530	1013667	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744532.9	1013667	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744535.9	1013667	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744538.9	1013667	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744541.9	1013667	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744544.9	1013668	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744547.9	1013668	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744550.9	1013668	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744553.9	1013668	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744556.9	1013668	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744559.9	1013668	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744562.9	1013668	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744565.9	1013668	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744568.9	1013669	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744571.9	1013669	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744574.9	1013669	1.88	2.26	-16.81%	0033A	
9/4/1997	Sead-12	A	744577.9	1013669	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744580.9	1013669	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744583.9	1013669	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744586.9	1013669	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744589.9	1013669	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744592.9	1013670	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744595.9	1013670	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744598.9	1013670	2.06	2.26	-7.96%	0033A	
9/4/1997	Sead-12	A	744601.9	1013670	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744604.9	1013670	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744607.9	1013670	2.19	2.26	-3.10%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background (kcpm)	% +/- BKG	Instrument (s/n)	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744610.9	1013670	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744613.9	1013671	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744616.9	1013671	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744619.9	1013671	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744622.9	1013671	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744625.9	1013671	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744628.9	1013671	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744631.9	1013671	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744634.9	1013671	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744637.9	1013672	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744640.9	1013672	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744643.9	1013672	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744646.9	1013672	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744649.9	1013672	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744652.9	1013672	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744655.9	1013672	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744514.9	1013669	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744517.9	1013669	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744520.9	1013669	2.09	2.26	-7.52%	0033A	
9/4/1997	Sead-12	A	744523.9	1013669	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744526.9	1013670	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744529.9	1013670	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744532.8	1013670	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744535.8	1013670	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744538.8	1013670	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744541.8	1013670	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744544.8	1013670	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744547.8	1013671	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744550.8	1013671	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744553.8	1013671	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744556.8	1013671	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744559.8	1013671	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744562.8	1013671	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744565.8	1013671	2.01	2.26	-11.08%	0033A	
9/4/1997	Sead-12	A	744568.8	1013671	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744571.8	1013672	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744574.8	1013672	1.91	2.26	-15.49%	0033A	
9/4/1997	Sead-12	A	744577.8	1013672	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744580.8	1013672	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744583.8	1013672	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744586.8	1013672	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744589.8	1013672	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744592.8	1013672	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744595.8	1013673	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744598.8	1013673	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744601.8	1013673	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744604.8	1013673	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744607.8	1013673	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744610.8	1013673	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744613.8	1013673	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744616.8	1013674	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744619.8	1013674	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744622.8	1013674	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744625.8	1013674	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744628.8	1013674	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744631.8	1013674	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744634.8	1013674	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744637.8	1013674	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744640.8	1013675	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744643.8	1013675	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744646.8	1013675	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744649.8	1013675	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744652.8	1013675	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744655.8	1013675	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744514.8	1013672	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744517.8	1013672	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744520.8	1013672	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744523.8	1013672	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744526.8	1013672	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744529.7	1013673	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744532.7	1013673	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744535.7	1013673	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744538.7	1013673	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744541.7	1013673	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744544.7	1013673	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744547.7	1013673	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744550.7	1013674	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744553.7	1013674	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744556.7	1013674	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744559.7	1013674	2.18	2.26	-3.54%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744562.7	1013674	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744565.7	1013674	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744568.7	1013674	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744571.7	1013674	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744574.7	1013675	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744577.7	1013675	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744580.7	1013675	1.92	2.26	-15.04%	0033A	
9/4/1997	Sead-12	A	744583.7	1013675	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744586.7	1013675	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744589.7	1013675	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744592.7	1013675	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744595.6	1013675	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744598.6	1013676	2.09	2.26	-7.52%	0033A	
9/4/1997	Sead-12	A	744601.6	1013676	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744604.6	1013676	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744607.6	1013676	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744610.6	1013676	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744613.6	1013676	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744616.6	1013676	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744619.6	1013677	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744622.6	1013677	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744625.6	1013677	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744628.6	1013677	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744631.6	1013677	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744634.6	1013677	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744637.6	1013677	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744640.6	1013677	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744643.6	1013678	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744646.6	1013678	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744649.6	1013678	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744652.6	1013678	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744655.6	1013678	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744514.6	1013675	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744517.6	1013675	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744520.6	1013675	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744523.6	1013675	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744526.6	1013675	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744529.6	1013675	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744532.6	1013676	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744535.6	1013676	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744538.6	1013676	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744541.6	1013676	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744544.6	1013676	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744547.6	1013676	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744550.6	1013676	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744553.6	1013677	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744556.6	1013677	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744559.6	1013677	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744562.6	1013677	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744565.6	1013677	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744568.6	1013677	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744571.6	1013677	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744574.6	1013677	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744577.6	1013678	1.96	2.26	-13.27%	0033A	
9/4/1997	Sead-12	A	744580.6	1013678	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744583.6	1013678	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744586.6	1013678	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744589.6	1013678	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744592.6	1013678	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744595.5	1013678	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744598.5	1013678	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744601.5	1013679	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744604.5	1013679	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744607.5	1013679	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744610.5	1013679	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744613.5	1013679	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744616.5	1013679	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744619.5	1013679	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744622.5	1013680	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744625.5	1013680	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744628.5	1013680	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744631.5	1013680	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744634.5	1013680	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744637.5	1013680	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744640.5	1013680	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744643.5	1013680	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744646.5	1013681	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744649.5	1013681	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744652.5	1013681	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744655.5	1013681	2.36	2.26	4.42%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744514.5	1013678	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744517.5	1013678	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744520.5	1013678	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744523.5	1013678	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744526.5	1013678	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744529.4	1013678	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744532.4	1013678	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744535.4	1013679	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744538.4	1013679	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744541.4	1013679	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744544.4	1013679	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744547.4	1013679	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744550.4	1013679	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744553.4	1013679	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744556.4	1013680	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744559.4	1013680	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744562.4	1013680	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744565.4	1013680	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744568.4	1013680	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744571.4	1013680	1.93	2.26	-14.60%	0033A	
9/4/1997	Sead-12	A	744574.4	1013680	1.95	2.26	-13.72%	0033A	
9/4/1997	Sead-12	A	744577.4	1013680	1.94	2.26	-14.16%	0033A	
9/4/1997	Sead-12	A	744580.4	1013681	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744583.4	1013681	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744586.4	1013681	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744589.4	1013681	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744592.4	1013681	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744595.4	1013681	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744598.4	1013681	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744601.4	1013681	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744604.4	1013682	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744607.4	1013682	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744610.4	1013682	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744613.4	1013682	2.52	2.26	11.50%	0033A	
9/4/1997	Sead-12	A	744616.4	1013682	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744619.4	1013682	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744622.4	1013682	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744625.4	1013683	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744628.4	1013683	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744631.4	1013683	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744634.4	1013683	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744637.4	1013683	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744640.4	1013683	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744643.4	1013683	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744646.4	1013683	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744649.4	1013684	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744652.4	1013684	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744655.4	1013684	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744514.4	1013681	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744517.4	1013681	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744520.4	1013681	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744523.4	1013681	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744526.4	1013681	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744529.3	1013681	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744532.3	1013681	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744535.3	1013681	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744538.3	1013682	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744541.3	1013682	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744544.3	1013682	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744547.3	1013682	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744550.3	1013682	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744553.3	1013682	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744556.3	1013682	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744559.3	1013683	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744562.3	1013683	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744565.3	1013683	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744568.3	1013683	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744571.3	1013683	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744574.3	1013683	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744577.3	1013683	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744580.3	1013683	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744583.3	1013684	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744586.3	1013684	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744589.3	1013684	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744592.3	1013684	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744595.3	1013684	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744598.3	1013684	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744601.3	1013684	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744604.3	1013684	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744607.3	1013685	2.44	2.26	7.96%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744610.3	1013685	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744613.3	1013685	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744616.3	1013685	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744619.3	1013685	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744622.3	1013685	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744625.3	1013685	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744628.3	1013686	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744631.3	1013686	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744634.3	1013686	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744637.3	1013686	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744640.3	1013686	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744643.3	1013686	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744646.3	1013686	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744649.3	1013686	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744652.3	1013687	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744655.3	1013687	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744514.3	1013683	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744517.3	1013684	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744520.3	1013684	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744523.3	1013684	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744526.3	1013684	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744529.2	1013684	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744532.2	1013684	2.5	2.26	10.62%	0033A	
9/4/1997	Sead-12	A	744535.2	1013684	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744538.2	1013684	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744541.2	1013685	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744544.2	1013685	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744547.2	1013685	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744550.2	1013885	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744553.2	1013685	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744556.2	1013685	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744559.2	1013685	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744562.2	1013686	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744565.2	1013686	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744568.2	1013686	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744571.2	1013686	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744574.2	1013686	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744577.2	1013686	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744580.2	1013686	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744583.2	1013686	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744586.2	1013687	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744589.2	1013687	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744592.1	1013687	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744595.1	1013687	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744598.1	1013687	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744601.1	1013687	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744604.1	1013687	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744607.1	1013687	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744610.1	1013688	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744613.1	1013688	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744616.1	1013688	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744619.1	1013688	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744622.1	1013688	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744625.1	1013688	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744628.1	1013688	2.5	2.26	10.62%	0033A	
9/4/1997	Sead-12	A	744631.1	1013689	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744634.1	1013689	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744637.1	1013689	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744640.1	1013689	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744643.1	1013689	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744646.1	1013689	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744649.1	1013689	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744652.1	1013689	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744655.1	1013690	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744514.1	1013686	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744517.1	1013686	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744520.1	1013687	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744523.1	1013687	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744526.1	1013687	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744529.1	1013687	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744532.1	1013687	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744535.1	1013687	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744538.1	1013687	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744541.1	1013687	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744544.1	1013688	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744547.1	1013688	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744550.1	1013688	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744553.1	1013688	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744556.1	1013688	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744559.1	1013688	2.08	2.26	-7.96%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744562.1	1013688	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744565.1	1013689	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744568.1	1013689	2.03	2.26	-10.18%	0033A	
9/4/1997	Sead-12	A	744571.1	1013689	1.99	2.26	-11.95%	0033A	
9/4/1997	Sead-12	A	744574.1	1013689	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744577.1	1013689	2.01	2.26	-11.06%	0033A	
9/4/1997	Sead-12	A	744580.1	1013689	2.05	2.26	-9.29%	0033A	
9/4/1997	Sead-12	A	744583.1	1013689	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744586.1	1013689	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744589.1	1013690	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744592	1013690	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744595	1013690	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744598	1013690	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744601	1013690	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744604	1013690	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744607	1013690	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744610	1013690	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744613	1013691	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744616	1013691	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744619	1013691	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744622	1013691	2.52	2.26	11.50%	0033A	
9/4/1997	Sead-12	A	744625	1013691	2.58	2.26	14.16%	0033A	
9/4/1997	Sead-12	A	744628	1013691	2.6	2.26	15.04%	0033A	
9/4/1997	Sead-12	A	744631	1013691	2.6	2.26	15.04%	0033A	
9/4/1997	Sead-12	A	744634	1013692	2.5	2.26	10.62%	0033A	
9/4/1997	Sead-12	A	744637	1013692	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744640	1013692	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744643	1013692	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744646	1013692	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744649	1013692	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744652	1013692	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744655	1013692	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744514	1013689	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744517	1013689	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744520	1013689	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744523	1013690	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744525.9	1013690	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744528.9	1013690	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744531.9	1013690	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744534.9	1013690	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744537.9	1013690	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744540.9	1013690	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744543.9	1013690	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744546.9	1013691	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744549.9	1013691	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744552.9	1013691	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744555.9	1013691	2.06	2.26	-8.85%	0033A	
9/4/1997	Sead-12	A	744558.9	1013691	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744561.9	1013691	2.02	2.26	-10.62%	0033A	
9/4/1997	Sead-12	A	744564.9	1013691	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744567.9	1013692	2	2.26	-11.50%	0033A	
9/4/1997	Sead-12	A	744570.9	1013692	1.98	2.26	-12.39%	0033A	
9/4/1997	Sead-12	A	744573.9	1013692	1.97	2.26	-12.83%	0033A	
9/4/1997	Sead-12	A	744576.9	1013692	2.04	2.26	-9.73%	0033A	
9/4/1997	Sead-12	A	744579.9	1013692	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744582.9	1013692	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744585.9	1013692	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744588.9	1013692	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744591.9	1013693	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744594.9	1013693	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744597.9	1013693	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744600.9	1013693	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744603.9	1013693	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744606.9	1013693	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744609.9	1013693	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744612.9	1013693	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744615.9	1013694	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744618.9	1013694	2.56	2.26	13.27%	0033A	
9/4/1997	Sead-12	A	744621.9	1013694	2.6	2.26	15.04%	0033A	
9/4/1997	Sead-12	A	744624.9	1013694	2.56	2.26	13.27%	0033A	
9/4/1997	Sead-12	A	744627.9	1013694	2.57	2.26	13.72%	0033A	
9/4/1997	Sead-12	A	744630.9	1013694	2.51	2.26	11.06%	0033A	
9/4/1997	Sead-12	A	744633.9	1013694	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744636.9	1013695	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744639.9	1013695	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744642.9	1013695	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744645.9	1013695	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744648.9	1013695	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744651.9	1013695	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744654.9	1013695	2.29	2.26	1.33%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744513.9	1013692	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744516.9	1013692	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744519.9	1013892	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744522.9	1013692	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744525.8	1013693	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744528.8	1013693	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744531.8	1013693	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744534.8	1013693	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744537.8	1013693	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744540.8	1013693	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744543.8	1013693	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744546.8	1013693	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744549.8	1013694	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744552.8	1013694	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744555.8	1013694	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744558.8	1013694	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744561.8	1013694	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744564.8	1013694	2.09	2.26	-7.52%	0033A	
9/4/1997	Sead-12	A	744567.8	1013694	2.07	2.26	-8.41%	0033A	
9/4/1997	Sead-12	A	744570.8	1013695	2.09	2.26	-7.52%	0033A	
9/4/1997	Sead-12	A	744573.8	1013695	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744576.8	1013695	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744579.8	1013695	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744582.8	1013695	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744585.8	1013695	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744588.8	1013695	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744591.8	1013695	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744594.8	1013696	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744597.8	1013696	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744600.8	1013696	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744603.8	1013696	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744606.8	1013696	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744609.8	1013696	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744612.8	1013696	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744615.8	1013696	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744618.8	1013697	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744621.8	1013697	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744624.8	1013697	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744627.8	1013697	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744630.8	1013697	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744633.8	1013697	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744636.8	1013697	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744639.8	1013698	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744642.8	1013698	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744645.8	1013698	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744648.8	1013698	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744651.8	1013698	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744654.8	1013698	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744513.8	1013695	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744516.8	1013695	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744519.7	1013695	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744522.7	1013695	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744525.7	1013696	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744528.7	1013696	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744531.7	1013696	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744534.7	1013696	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744537.7	1013696	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744540.7	1013696	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744543.7	1013696	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744546.7	1013696	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744549.7	1013697	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744552.7	1013697	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744555.7	1013697	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744558.7	1013697	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744561.7	1013697	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744564.7	1013697	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744567.7	1013697	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744570.7	1013698	2.08	2.26	-7.96%	0033A	
9/4/1997	Sead-12	A	744573.7	1013698	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744576.7	1013698	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744579.7	1013698	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744582.7	1013698	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744585.6	1013698	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744588.6	1013698	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744591.6	1013698	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744594.6	1013699	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744597.6	1013699	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744600.6	1013699	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744603.6	1013699	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744606.6	1013699	2.25	2.26	-0.44%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744609.6	1013699	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744612.6	1013699	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744615.6	1013699	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744618.6	1013700	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744621.6	1013700	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744624.6	1013700	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744627.6	1013700	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744630.6	1013700	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744633.6	1013700	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744636.6	1013700	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744639.6	1013701	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744642.6	1013701	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744645.6	1013701	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744648.6	1013701	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744651.6	1013701	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744654.6	1013701	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744513.6	1013698	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744516.6	1013698	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744519.6	1013698	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744522.6	1013698	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744525.6	1013699	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744528.6	1013699	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744531.6	1013699	2.2	2.26	-2.65%	0033A	
9/4/1997	Sead-12	A	744534.6	1013699	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744537.6	1013699	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744540.6	1013699	2.28	2.26	0.88%	0033A	
9/4/1997	Sead-12	A	744543.6	1013699	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744546.6	1013699	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744549.6	1013700	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744552.6	1013700	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744555.6	1013700	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744558.6	1013700	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744561.6	1013700	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744564.6	1013700	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744567.6	1013700	2.22	2.26	-1.77%	0033A	
9/4/1997	Sead-12	A	744570.6	1013701	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744573.6	1013701	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744576.6	1013701	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744579.5	1013701	2.21	2.26	-2.21%	0033A	
9/4/1997	Sead-12	A	744582.5	1013701	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744585.5	1013701	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744588.5	1013701	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744591.5	1013701	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744594.5	1013702	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744597.5	1013702	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744600.5	1013702	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744603.5	1013702	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744606.5	1013702	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744609.5	1013702	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744612.5	1013702	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744615.5	1013702	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744618.5	1013703	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744621.5	1013703	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744624.5	1013703	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744627.5	1013703	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744630.5	1013703	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744633.5	1013703	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744636.5	1013703	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744639.5	1013704	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744642.4	1013704	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744645.4	1013704	2.5	2.26	10.62%	0033A	
9/4/1997	Sead-12	A	744648.4	1013704	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744651.4	1013704	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744654.4	1013704	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744513.4	1013701	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744516.4	1013701	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744519.4	1013701	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744522.4	1013701	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744525.4	1013702	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744528.4	1013702	2.18	2.26	-3.54%	0033A	
9/4/1997	Sead-12	A	744531.4	1013702	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744534.4	1013702	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744537.4	1013702	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744540.4	1013702	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744543.4	1013702	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744546.4	1013702	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744549.4	1013703	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744552.4	1013703	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744555.4	1013703	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744558.4	1013703	2.31	2.26	2.21%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744561.4	1013703	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744564.4	1013703	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744567.4	1013703	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744570.4	1013704	2.11	2.26	-6.64%	0033A	
9/4/1997	Sead-12	A	744573.4	1013704	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744576.4	1013704	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744579.4	1013704	2.25	2.26	-0.44%	0033A	
9/4/1997	Sead-12	A	744582.4	1013704	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744585.4	1013704	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744588.4	1013704	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744591.4	1013704	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744594.4	1013705	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744597.4	1013705	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744600.4	1013705	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744603.4	1013705	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744606.4	1013705	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744609.4	1013705	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744612.4	1013705	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744615.4	1013705	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744618.4	1013706	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744621.4	1013706	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744624.4	1013706	2.33	2.26	3.10%	0033A	
9/4/1997	Sead-12	A	744627.4	1013706	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744630.4	1013706	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744633.4	1013706	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744636.3	1013706	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744639.3	1013707	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744642.3	1013707	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744645.3	1013707	2.49	2.26	10.18%	0033A	
9/4/1997	Sead-12	A	744648.3	1013707	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744651.3	1013707	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744654.3	1013707	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744513.3	1013704	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744516.3	1013704	2.14	2.26	-5.31%	0033A	
9/4/1997	Sead-12	A	744519.3	1013704	2.15	2.26	-4.87%	0033A	
9/4/1997	Sead-12	A	744522.3	1013704	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744525.3	1013705	2.16	2.26	-4.42%	0033A	
9/4/1997	Sead-12	A	744528.3	1013705	2.24	2.26	-0.88%	0033A	
9/4/1997	Sead-12	A	744531.3	1013705	2.26	2.26	0.00%	0033A	
9/4/1997	Sead-12	A	744534.3	1013705	2.29	2.26	1.33%	0033A	
9/4/1997	Sead-12	A	744537.3	1013705	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744540.3	1013705	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744543.3	1013705	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744546.3	1013705	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744549.3	1013706	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744552.3	1013706	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744555.3	1013706	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744558.3	1013706	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744561.3	1013706	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744564.3	1013706	2.34	2.26	3.54%	0033A	
9/4/1997	Sead-12	A	744567.3	1013706	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744570.3	1013707	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744573.3	1013707	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744576.3	1013707	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744579.3	1013707	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744582.3	1013707	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744585.3	1013707	2.5	2.26	10.62%	0033A	
9/4/1997	Sead-12	A	744588.3	1013707	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744591.3	1013707	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744594.3	1013708	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744597.3	1013708	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744600.3	1013708	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744603.3	1013708	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744606.3	1013708	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744609.3	1013708	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744612.3	1013708	2.4	2.26	6.19%	0033A	
9/4/1997	Sead-12	A	744615.3	1013708	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744618.3	1013709	2.37	2.26	4.87%	0033A	
9/4/1997	Sead-12	A	744621.3	1013709	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744624.3	1013709	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744627.3	1013709	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744630.2	1013709	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744633.2	1013709	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744636.2	1013709	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744639.2	1013710	2.5	2.26	10.62%	0033A	
9/4/1997	Sead-12	A	744642.2	1013710	2.57	2.26	13.72%	0033A	
9/4/1997	Sead-12	A	744645.2	1013710	2.54	2.26	12.39%	0033A	
9/4/1997	Sead-12	A	744648.2	1013710	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744651.2	1013710	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744654.2	1013710	2.41	2.26	6.64%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/4/1997	Sead-12	A	744513.2	1013707	2.1	2.26	-7.08%	0033A	
9/4/1997	Sead-12	A	744516.2	1013707	2.13	2.26	-5.75%	0033A	
9/4/1997	Sead-12	A	744519.2	1013707	2.12	2.26	-6.19%	0033A	
9/4/1997	Sead-12	A	744522.2	1013707	2.17	2.26	-3.98%	0033A	
9/4/1997	Sead-12	A	744525.2	1013708	2.19	2.26	-3.10%	0033A	
9/4/1997	Sead-12	A	744528.2	1013708	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744531.2	1013708	2.23	2.26	-1.33%	0033A	
9/4/1997	Sead-12	A	744534.2	1013708	2.27	2.26	0.44%	0033A	
9/4/1997	Sead-12	A	744537.2	1013708	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744540.2	1013708	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744543.2	1013708	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744546.2	1013708	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744549.2	1013709	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744552.2	1013709	2.31	2.26	2.21%	0033A	
9/4/1997	Sead-12	A	744555.2	1013709	2.3	2.26	1.77%	0033A	
9/4/1997	Sead-12	A	744558.1	1013709	2.32	2.26	2.65%	0033A	
9/4/1997	Sead-12	A	744561.1	1013709	2.38	2.26	5.31%	0033A	
9/4/1997	Sead-12	A	744564.1	1013709	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744567.1	1013709	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744570.1	1013710	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744573.1	1013710	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744576.1	1013710	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744579.1	1013710	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744582.1	1013710	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744585.1	1013710	2.43	2.26	7.52%	0033A	
9/4/1997	Sead-12	A	744588.1	1013710	2.41	2.26	6.64%	0033A	
9/4/1997	Sead-12	A	744591.1	1013710	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744594.1	1013711	2.46	2.26	8.85%	0033A	
9/4/1997	Sead-12	A	744597.1	1013711	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744600.1	1013711	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744603.1	1013711	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744606.1	1013711	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744609.1	1013711	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744612.1	1013711	2.36	2.26	4.42%	0033A	
9/4/1997	Sead-12	A	744615.1	1013711	2.35	2.26	3.98%	0033A	
9/4/1997	Sead-12	A	744618.1	1013712	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744621.1	1013712	2.39	2.26	5.75%	0033A	
9/4/1997	Sead-12	A	744624.1	1013712	2.48	2.26	9.73%	0033A	
9/4/1997	Sead-12	A	744627.1	1013712	2.47	2.26	9.29%	0033A	
9/4/1997	Sead-12	A	744630.1	1013712	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744633.1	1013712	2.44	2.26	7.96%	0033A	
9/4/1997	Sead-12	A	744636.1	1013712	2.5	2.26	10.62%	0033A	
9/4/1997	Sead-12	A	744639.1	1013713	2.54	2.26	12.39%	0033A	
9/4/1997	Sead-12	A	744642.1	1013713	2.57	2.26	13.72%	0033A	
9/4/1997	Sead-12	A	744645.1	1013713	2.51	2.26	11.06%	0033A	
9/4/1997	Sead-12	A	744648.1	1013713	2.42	2.26	7.08%	0033A	
9/4/1997	Sead-12	A	744651.1	1013713	2.45	2.26	8.41%	0033A	
9/4/1997	Sead-12	A	744654.1	1013713	2.38	2.26	5.31%	0033A	
9/5/1997	Sead-12	A	744513.1	1013710	1.6	2.3	-30.43%	0033A	
9/5/1997	Sead-12	A	744516.1	1013710	1.65	2.3	-28.26%	0033A	
9/5/1997	Sead-12	A	744519.1	1013710	1.66	2.3	-27.83%	0033A	
9/5/1997	Sead-12	A	744522.1	1013710	1.7	2.3	-26.09%	0033A	
9/5/1997	Sead-12	A	744525.1	1013711	1.87	2.3	-18.70%	0033A	
9/5/1997	Sead-12	A	744528.1	1013711	1.98	2.3	-13.91%	0033A	
9/5/1997	Sead-12	A	744531.1	1013711	1.93	2.3	-16.09%	0033A	
9/5/1997	Sead-12	A	744534.1	1013711	1.99	2.3	-13.48%	0033A	
9/5/1997	Sead-12	A	744537.1	1013711	2.04	2.3	-11.30%	0033A	
9/5/1997	Sead-12	A	744540.1	1013711	2.02	2.3	-12.17%	0033A	
9/5/1997	Sead-12	A	744543.1	1013711	2.13	2.3	-7.39%	0033A	
9/5/1997	Sead-12	A	744546.1	1013711	2.14	2.3	-6.96%	0033A	
9/5/1997	Sead-12	A	744549.1	1013712	2.15	2.3	-6.52%	0033A	
9/5/1997	Sead-12	A	744552.1	1013712	2.13	2.3	-7.39%	0033A	
9/5/1997	Sead-12	A	744555.1	1013712	2.13	2.3	-7.39%	0033A	
9/5/1997	Sead-12	A	744558.1	1013712	2.1	2.3	-8.70%	0033A	
9/5/1997	Sead-12	A	744561.1	1013712	2.11	2.3	-8.26%	0033A	
9/5/1997	Sead-12	A	744564.1	1013712	2.18	2.3	-5.22%	0033A	
9/5/1997	Sead-12	A	744567.1	1013712	2.17	2.3	-5.65%	0033A	
9/5/1997	Sead-12	A	744570.1	1013712	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744573.1	1013713	2.2	2.3	-4.35%	0033A	
9/5/1997	Sead-12	A	744576.1	1013713	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744579.1	1013713	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744582.1	1013713	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744585.1	1013713	2.24	2.3	-2.61%	0033A	
9/5/1997	Sead-12	A	744588.1	1013713	2.16	2.3	-6.09%	0033A	
9/5/1997	Sead-12	A	744591.1	1013713	2.19	2.3	-4.78%	0033A	
9/5/1997	Sead-12	A	744594.1	1013714	2.27	2.3	-1.30%	0033A	
9/5/1997	Sead-12	A	744597.1	1013714	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744800.1	1013714	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744603.1	1013714	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744606.1	1013714	2.26	2.3	-1.74%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744609	1013714	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744612	1013714	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744615	1013714	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744617.9	1013715	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744620.9	1013715	2.22	2.3	-3.48%	0033A	
9/5/1997	Sead-12	A	744623.9	1013715	2.24	2.3	-2.61%	0033A	
9/5/1997	Sead-12	A	744626.9	1013715	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744629.9	1013715	2.24	2.3	-2.61%	0033A	
9/5/1997	Sead-12	A	744632.9	1013715	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744635.9	1013715	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744638.9	1013716	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744641.9	1013716	2.27	2.3	-1.30%	0033A	
9/5/1997	Sead-12	A	744644.9	1013716	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744647.9	1013716	2.27	2.3	-1.30%	0033A	
9/5/1997	Sead-12	A	744650.9	1013716	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744653.9	1013716	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744512.9	1013713	1.67	2.3	-27.39%	0033A	
9/5/1997	Sead-12	A	744515.9	1013713	1.72	2.3	-25.22%	0033A	
9/5/1997	Sead-12	A	744518.9	1013713	1.67	2.3	-27.39%	0033A	
9/5/1997	Sead-12	A	744521.9	1013713	1.72	2.3	-25.22%	0033A	
9/5/1997	Sead-12	A	744524.9	1013714	1.89	2.3	-17.83%	0033A	
9/5/1997	Sead-12	A	744527.9	1013714	1.91	2.3	-16.96%	0033A	
9/5/1997	Sead-12	A	744530.9	1013714	1.93	2.3	-16.09%	0033A	
9/5/1997	Sead-12	A	744533.9	1013714	2	2.3	-13.04%	0033A	
9/5/1997	Sead-12	A	744536.9	1013714	2.05	2.3	-10.87%	0033A	
9/5/1997	Sead-12	A	744539.9	1013714	2.03	2.3	-11.74%	0033A	
9/5/1997	Sead-12	A	744542.9	1013714	2.12	2.3	-7.83%	0033A	
9/5/1997	Sead-12	A	744545.9	1013714	2.15	2.3	-6.52%	0033A	
9/5/1997	Sead-12	A	744548.9	1013715	2.13	2.3	-7.39%	0033A	
9/5/1997	Sead-12	A	744551.9	1013715	2.13	2.3	-7.39%	0033A	
9/5/1997	Sead-12	A	744554.9	1013715	2.07	2.3	-10.00%	0033A	
9/5/1997	Sead-12	A	744557.9	1013715	2.07	2.3	-10.00%	0033A	
9/5/1997	Sead-12	A	744560.9	1013715	2.09	2.3	-9.13%	0033A	
9/5/1997	Sead-12	A	744563.9	1013715	2.15	2.3	-6.52%	0033A	
9/5/1997	Sead-12	A	744566.9	1013715	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744569.9	1013715	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744572.9	1013716	2.22	2.3	-3.48%	0033A	
9/5/1997	Sead-12	A	744575.9	1013716	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744578.9	1013716	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744581.9	1013716	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744584.9	1013716	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744587.9	1013716	2.18	2.3	-5.22%	0033A	
9/5/1997	Sead-12	A	744590.9	1013716	2.22	2.3	-3.48%	0033A	
9/5/1997	Sead-12	A	744593.9	1013717	2.27	2.3	-1.30%	0033A	
9/5/1997	Sead-12	A	744596.9	1013717	2.27	2.3	-1.30%	0033A	
9/5/1997	Sead-12	A	744599.9	1013717	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744602.9	1013717	2.24	2.3	-2.61%	0033A	
9/5/1997	Sead-12	A	744605.9	1013717	2.24	2.3	-2.61%	0033A	
9/5/1997	Sead-12	A	744608.8	1013717	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744611.8	1013717	2.2	2.3	-4.35%	0033A	
9/5/1997	Sead-12	A	744614.8	1013717	2.2	2.3	-4.35%	0033A	
9/5/1997	Sead-12	A	744617.8	1013718	2.2	2.3	-4.35%	0033A	
9/5/1997	Sead-12	A	744620.8	1013718	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744623.8	1013718	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744626.8	1013718	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744629.8	1013718	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744632.8	1013718	2.24	2.3	-2.61%	0033A	
9/5/1997	Sead-12	A	744635.8	1013718	2.27	2.3	-1.30%	0033A	
9/5/1997	Sead-12	A	744638.8	1013719	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744641.8	1013719	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744644.8	1013719	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744647.8	1013719	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744650.8	1013719	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744653.8	1013719	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744512.8	1013716	2.15	2.3	-6.52%	0033A	
9/5/1997	Sead-12	A	744515.8	1013716	2.09	2.3	-9.13%	0033A	
9/5/1997	Sead-12	A	744518.8	1013716	2.18	2.3	-5.22%	0033A	
9/5/1997	Sead-12	A	744521.8	1013716	2.14	2.3	-6.96%	0033A	
9/5/1997	Sead-12	A	744524.8	1013717	2.13	2.3	-7.39%	0033A	
9/5/1997	Sead-12	A	744527.8	1013717	2.16	2.3	-6.09%	0033A	
9/5/1997	Sead-12	A	744530.8	1013717	2.17	2.3	-5.65%	0033A	
9/5/1997	Sead-12	A	744533.8	1013717	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744536.8	1013717	2.18	2.3	-5.22%	0033A	
9/5/1997	Sead-12	A	744539.8	1013717	2.2	2.3	-4.35%	0033A	
9/5/1997	Sead-12	A	744542.8	1013717	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744545.8	1013717	2.22	2.3	-3.48%	0033A	
9/5/1997	Sead-12	A	744548.8	1013718	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744551.8	1013718	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744554.8	1013718	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744557.8	1013718	2.24	2.3	-2.61%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744560.8	1013718	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744563.8	1013718	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744566.8	1013718	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744569.8	1013718	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744572.8	1013719	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744575.8	1013719	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744578.8	1013719	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744581.8	1013719	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744584.8	1013719	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744587.8	1013719	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744590.8	1013719	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744593.8	1013720	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744596.8	1013720	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744599.8	1013720	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744602.7	1013720	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744605.7	1013720	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744608.7	1013720	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744611.7	1013720	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744614.7	1013720	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744617.7	1013721	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744620.7	1013721	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744623.7	1013721	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744626.7	1013721	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744629.7	1013721	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744632.7	1013721	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744635.7	1013721	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744638.7	1013722	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744641.7	1013722	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744644.7	1013722	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744647.7	1013722	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744650.7	1013722	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744653.7	1013722	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744512.7	1013719	2.14	2.3	-6.96%	0033A	
9/5/1997	Sead-12	A	744515.7	1013719	2.18	2.3	-5.22%	0033A	
9/5/1997	Sead-12	A	744518.7	1013719	2.17	2.3	-5.65%	0033A	
9/5/1997	Sead-12	A	744521.7	1013719	2.16	2.3	-6.09%	0033A	
9/5/1997	Sead-12	A	744524.7	1013720	2.17	2.3	-5.65%	0033A	
9/5/1997	Sead-12	A	744527.7	1013720	2.17	2.3	-5.65%	0033A	
9/5/1997	Sead-12	A	744530.6	1013720	2.18	2.3	-5.22%	0033A	
9/5/1997	Sead-12	A	744533.6	1013720	2.2	2.3	-4.35%	0033A	
9/5/1997	Sead-12	A	744536.6	1013720	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744539.6	1013720	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744542.6	1013720	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744545.6	1013720	2.23	2.3	-3.04%	0033A	
9/5/1997	Sead-12	A	744548.6	1013721	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744551.6	1013721	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744554.6	1013721	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744557.6	1013721	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744560.6	1013721	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744563.6	1013721	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744566.6	1013721	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744569.6	1013721	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744572.6	1013722	2.25	2.3	-2.17%	0033A	
9/5/1997	Sead-12	A	744575.6	1013722	2.22	2.3	-3.48%	0033A	
9/5/1997	Sead-12	A	744578.6	1013722	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744581.6	1013722	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744584.6	1013722	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744587.6	1013722	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744590.6	1013722	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744593.6	1013723	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744596.6	1013723	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744599.6	1013723	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744602.6	1013723	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744605.6	1013723	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744608.6	1013723	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744611.6	1013723	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744614.6	1013723	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744617.6	1013724	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744620.6	1013724	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744623.6	1013724	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744626.6	1013724	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744629.6	1013724	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744632.6	1013724	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744635.6	1013724	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744638.6	1013725	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744841.6	1013725	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744644.6	1013725	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744647.6	1013725	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744650.6	1013725	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744653.6	1013725	2.28	2.3	-0.87%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744512.6	1013722	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744515.6	1013722	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744518.6	1013722	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744521.6	1013722	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744524.5	1013723	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744527.5	1013723	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744530.5	1013723	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744533.5	1013723	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744536.5	1013723	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744539.5	1013723	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744542.5	1013723	2.434	2.3	5.83%	0033A	
9/5/1997	Sead-12	A	744545.5	1013723	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744548.5	1013724	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744551.5	1013724	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744554.5	1013724	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744557.5	1013724	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744560.5	1013724	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744563.5	1013724	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744566.5	1013724	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744569.5	1013724	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744572.5	1013725	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744575.5	1013725	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744578.5	1013725	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744581.5	1013725	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744584.5	1013725	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744587.5	1013725	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744590.4	1013725	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744593.4	1013726	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744596.4	1013726	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744599.4	1013726	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744602.4	1013726	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744605.4	1013726	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744608.4	1013726	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744611.4	1013726	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744614.4	1013726	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744617.4	1013727	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744620.4	1013727	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744623.4	1013727	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744626.4	1013727	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744629.4	1013727	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744632.4	1013727	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744635.4	1013727	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744638.4	1013728	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744641.4	1013728	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744644.4	1013728	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744647.4	1013728	2.27	2.3	-1.30%	0033A	
9/5/1997	Sead-12	A	744650.4	1013728	2.21	2.3	-3.91%	0033A	
9/5/1997	Sead-12	A	744653.4	1013728	2.13	2.3	-7.39%	0033A	
9/5/1997	Sead-12	A	744512.4	1013725	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744515.4	1013725	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744518.4	1013725	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744521.4	1013725	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744524.4	1013726	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744527.4	1013726	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744530.4	1013726	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744533.4	1013726	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744536.4	1013726	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744539.4	1013726	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744542.4	1013726	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744545.4	1013726	2.48	2.3	7.63%	0033A	
9/5/1997	Sead-12	A	744548.4	1013727	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744551.4	1013727	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744554.4	1013727	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744557.4	1013727	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744560.4	1013727	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744563.4	1013727	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744566.4	1013727	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744569.4	1013727	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744572.4	1013728	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744575.4	1013728	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744578.4	1013728	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744581.4	1013728	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744584.3	1013728	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744587.3	1013728	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744590.3	1013728	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744593.3	1013729	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744596.3	1013729	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744599.3	1013729	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744602.3	1013729	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744605.3	1013729	2.44	2.3	6.09%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744608.3	1013729	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744611.3	1013729	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744614.3	1013729	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744617.3	1013730	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744620.3	1013730	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744623.3	1013730	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744626.3	1013730	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744629.3	1013730	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744632.3	1013730	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744635.3	1013730	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744638.3	1013731	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744641.3	1013731	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744644.3	1013731	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744647.3	1013731	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744650.3	1013731	2.22	2.3	-3.48%	0033A	
9/5/1997	Sead-12	A	744653.3	1013731	2.14	2.3	-6.96%	0033A	
9/5/1997	Sead-12	A	744512.3	1013728	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744515.3	1013728	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744518.3	1013728	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744521.3	1013728	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744524.3	1013729	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744527.3	1013729	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744530.3	1013729	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744533.3	1013729	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744536.3	1013729	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744539.3	1013729	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744542.3	1013729	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744545.3	1013729	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744548.3	1013730	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744551.3	1013730	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744554.3	1013730	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744557.3	1013730	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744560.3	1013730	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744563.3	1013730	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744566.3	1013730	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744569.3	1013730	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744572.3	1013731	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744575.3	1013731	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744578.2	1013731	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744581.2	1013731	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744584.2	1013731	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744587.2	1013731	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744590.2	1013731	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744593.2	1013732	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744596.2	1013732	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744599.2	1013732	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744602.2	1013732	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744605.2	1013732	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744608.2	1013732	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744611.2	1013732	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744614.2	1013732	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744617.2	1013733	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744620.2	1013733	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744623.2	1013733	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744626.2	1013733	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744629.2	1013733	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744632.2	1013733	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744635.2	1013733	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744638.2	1013733	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744641.1	1013734	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744644.1	1013734	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744647.1	1013734	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744650.1	1013734	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744653.1	1013734	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744512.1	1013731	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744515.1	1013731	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744518.1	1013731	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744521.1	1013731	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744524.1	1013732	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744527.1	1013732	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744530.1	1013732	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744533.1	1013732	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744536.1	1013732	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744539.1	1013732	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744542.1	1013732	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744545.1	1013732	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744548.1	1013733	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744551.1	1013733	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744554.1	1013733	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744557.1	1013733	2.38	2.3	3.48%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744560.1	1013733	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744563.1	1013733	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744566.1	1013733	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744569.1	1013733	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744572.1	1013734	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744575.1	1013734	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744578.1	1013734	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744581.1	1013734	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744584.1	1013734	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744587.1	1013734	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744590.1	1013734	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744593.1	1013735	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744596.1	1013735	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744599.1	1013735	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744602.1	1013735	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744605.1	1013735	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744608.1	1013735	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744611.1	1013735	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744614.1	1013735	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744617.1	1013736	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744620.1	1013736	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744623.1	1013736	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744626.1	1013736	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744629.1	1013736	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744632.1	1013736	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744635	1013736	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744638	1013736	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744641	1013737	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744644	1013737	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744647	1013737	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744650	1013737	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744653	1013737	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744512	1013734	2.3	2.3	0.00%	0033A	
9/5/1997	Sead-12	A	744515	1013734	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744518	1013734	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744521	1013734	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744524	1013735	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744527	1013735	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744530	1013735	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744533	1013735	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744536	1013735	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744539	1013735	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744542	1013735	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744545	1013735	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744548	1013736	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744551	1013736	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744554	1013736	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744557	1013736	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744560	1013736	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744562.9	1013736	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744565.9	1013736	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744568.9	1013736	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744571.9	1013737	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744574.9	1013737	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744577.9	1013737	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744580.9	1013737	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744583.9	1013737	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744586.9	1013737	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744589.9	1013737	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744592.9	1013738	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744595.9	1013738	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744598.9	1013738	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744601.9	1013738	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744604.9	1013738	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744607.9	1013738	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744610.9	1013738	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744613.9	1013738	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744616.9	1013739	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744619.9	1013739	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744622.9	1013739	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744625.9	1013739	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744628.9	1013739	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744631.9	1013739	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744634.9	1013739	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744637.9	1013739	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744640.9	1013740	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744643.9	1013740	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744646.9	1013740	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744649.9	1013740	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744652.9	1013740	2.41	2.3	4.78%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744511.9	1013737	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744514.9	1013737	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744517.9	1013737	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744520.9	1013737	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744523.9	1013738	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744526.9	1013738	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744529.9	1013738	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744532.9	1013738	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744535.9	1013738	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744538.9	1013738	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744541.9	1013738	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744544.9	1013738	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744547.9	1013739	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744550.9	1013739	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744553.9	1013739	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744556.8	1013739	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744559.8	1013739	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744562.8	1013739	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744565.8	1013739	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744568.8	1013739	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744571.8	1013740	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744574.8	1013740	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744577.8	1013740	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744580.8	1013740	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744583.8	1013740	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744586.8	1013740	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744589.8	1013740	2.26	2.3	-1.74%	0033A	
9/5/1997	Sead-12	A	744592.8	1013741	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744595.8	1013741	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744598.8	1013741	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744601.8	1013741	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744604.8	1013741	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744607.8	1013741	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744610.8	1013741	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744613.8	1013741	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744616.8	1013742	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744619.8	1013742	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744622.8	1013742	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744625.8	1013742	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744628.8	1013742	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744631.8	1013742	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744634.8	1013742	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744637.8	1013742	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744640.8	1013743	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744643.8	1013743	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744646.8	1013743	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744649.8	1013743	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744652.8	1013743	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744511.8	1013740	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744514.8	1013740	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744517.8	1013740	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744520.8	1013740	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744523.8	1013741	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744526.8	1013741	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744529.8	1013741	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744532.8	1013741	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744535.8	1013741	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744538.8	1013741	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744541.8	1013741	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744544.8	1013741	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744547.8	1013742	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744550.7	1013742	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744553.7	1013742	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744556.7	1013742	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744559.7	1013742	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744562.7	1013742	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744565.7	1013742	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744568.7	1013742	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744571.7	1013743	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744574.7	1013743	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744577.7	1013743	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744580.7	1013743	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744583.7	1013743	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744586.7	1013743	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744589.7	1013743	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744592.7	1013744	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744595.7	1013744	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744598.7	1013744	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744601.7	1013744	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744604.7	1013744	2.42	2.3	5.22%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744607.7	1013744	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744610.7	1013744	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744613.7	1013744	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744616.6	1013745	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744619.6	1013745	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744622.6	1013745	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744625.6	1013745	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744628.6	1013745	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744631.6	1013745	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744634.6	1013745	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744637.6	1013745	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744640.6	1013746	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744643.6	1013746	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744646.6	1013746	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744649.6	1013746	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744652.6	1013746	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744511.6	1013743	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744514.6	1013743	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744517.6	1013743	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744520.6	1013743	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744523.6	1013743	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744526.6	1013744	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744529.6	1013744	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744532.6	1013744	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744535.6	1013744	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744538.6	1013744	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744541.6	1013744	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744544.6	1013744	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744547.6	1013745	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744550.6	1013745	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744553.6	1013745	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744556.6	1013745	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744559.6	1013745	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744562.6	1013745	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744565.6	1013745	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744568.6	1013745	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744571.6	1013746	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744574.6	1013746	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744577.6	1013746	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744580.6	1013746	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744583.6	1013746	2.46	2.3	8.96%	0033A	
9/5/1997	Sead-12	A	744586.6	1013746	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744589.6	1013746	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744592.6	1013747	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744595.6	1013747	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744598.6	1013747	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744601.6	1013747	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744604.6	1013747	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744607.6	1013747	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744610.5	1013747	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744613.5	1013747	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744616.5	1013748	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744619.5	1013748	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744622.5	1013748	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744625.5	1013748	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744628.5	1013748	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744631.5	1013748	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744634.5	1013748	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744637.5	1013748	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744640.5	1013749	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744643.5	1013749	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744646.5	1013749	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744649.5	1013749	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744652.5	1013749	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744511.5	1013746	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744514.5	1013746	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744517.5	1013746	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744520.5	1013746	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744523.5	1013746	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744526.5	1013747	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744529.5	1013747	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744532.5	1013747	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744535.5	1013747	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744538.4	1013747	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744541.4	1013747	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744544.4	1013747	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744547.4	1013748	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744550.4	1013748	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744553.4	1013748	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744556.4	1013748	2.42	2.3	5.22%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744559.4	1013748	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744562.4	1013748	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744565.4	1013748	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744568.4	1013748	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744571.4	1013749	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744574.4	1013749	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744577.4	1013749	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744580.4	1013749	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744583.4	1013749	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744586.4	1013749	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744589.4	1013749	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744592.4	1013750	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744595.4	1013750	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744598.4	1013750	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744601.4	1013750	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744604.4	1013750	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744607.4	1013750	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744610.4	1013750	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744613.4	1013750	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744616.4	1013751	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744619.4	1013751	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744622.4	1013751	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744625.4	1013751	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744628.4	1013751	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744631.4	1013751	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744634.4	1013751	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744637.4	1013751	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744640.4	1013752	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744643.4	1013752	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744646.4	1013752	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744649.4	1013752	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744652.4	1013752	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744511.4	1013749	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744514.4	1013749	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744517.4	1013749	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744520.4	1013749	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744523.4	1013749	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744526.4	1013750	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744529.3	1013750	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744532.3	1013750	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744535.3	1013750	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744538.3	1013750	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744541.3	1013750	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744544.3	1013750	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744547.3	1013751	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744550.3	1013751	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744553.3	1013751	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744556.3	1013751	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744559.3	1013751	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744562.3	1013751	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744565.3	1013751	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744568.3	1013751	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744571.3	1013752	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744574.3	1013752	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744577.3	1013752	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744580.3	1013752	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744583.3	1013752	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744586.3	1013752	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744589.3	1013752	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744592.3	1013753	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744595.3	1013753	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744598.3	1013753	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744601.3	1013753	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744604.3	1013753	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744607.3	1013753	2.28	2.3	-0.87%	0033A	
9/5/1997	Sead-12	A	744610.3	1013753	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744613.3	1013753	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744618.3	1013754	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744619.3	1013754	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744622.3	1013754	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744625.3	1013754	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744628.3	1013754	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744631.3	1013754	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744634.3	1013754	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744637.3	1013754	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744640.3	1013755	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744643.3	1013755	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744646.3	1013755	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744649.3	1013755	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744652.3	1013755	2.38	2.3	3.48%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744511.3	1013752	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744514.3	1013752	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744517.3	1013752	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744520.3	1013752	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744523.2	1013752	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744526.2	1013753	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744529.2	1013753	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744532.2	1013753	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744535.2	1013753	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744538.2	1013753	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744541.2	1013753	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744544.2	1013753	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744547.2	1013754	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744550.2	1013754	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744553.2	1013754	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744556.2	1013754	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744559.2	1013754	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744562.2	1013754	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744565.2	1013754	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744568.2	1013754	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744571.2	1013755	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744574.2	1013755	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744577.2	1013755	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744580.2	1013755	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744583.2	1013755	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744586.2	1013755	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744589.1	1013755	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744592.1	1013756	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744595.1	1013756	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744598.1	1013756	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744601.1	1013756	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744604.1	1013756	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744607.1	1013756	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744610.1	1013756	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744613.1	1013756	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744616.1	1013757	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744619.1	1013757	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744622.1	1013757	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744625.1	1013757	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744628.1	1013757	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744631.1	1013757	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744634.1	1013757	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744637.1	1013757	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744640.1	1013758	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744643.1	1013758	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744646.1	1013758	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744649.1	1013758	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744652.1	1013758	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744511.1	1013755	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744514.1	1013755	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744517.1	1013755	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744520.1	1013755	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744523.1	1013755	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744526.1	1013756	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744529.1	1013756	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744532.1	1013756	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744535.1	1013756	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744538.1	1013756	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744541.1	1013756	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744544.1	1013756	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744547.1	1013757	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744550.1	1013757	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744553.1	1013757	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744556.1	1013757	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744559.1	1013757	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744562.1	1013757	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744565.1	1013757	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744568.1	1013757	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744571.1	1013758	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744574.1	1013758	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744577.1	1013758	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744580.1	1013758	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744583	1013758	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744586	1013758	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744589	1013758	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744592	1013759	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744595	1013759	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744598	1013759	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744601	1013759	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744604	1013759	2.48	2.3	7.83%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744607	1013759	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744610	1013759	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744613	1013759	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744616	1013760	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744619	1013760	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744622	1013760	2.49	2.3	8.28%	0033A	
9/5/1997	Sead-12	A	744625	1013760	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744628	1013760	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744631	1013760	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744634	1013760	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744637	1013760	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744640	1013761	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744643	1013761	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744646	1013761	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744648.9	1013761	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744651.9	1013761	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744510.9	1013758	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744513.9	1013758	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744516.9	1013758	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744519.9	1013758	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744522.9	1013758	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744525.9	1013759	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744528.9	1013759	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744531.9	1013759	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744534.9	1013759	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744537.9	1013759	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744540.9	1013759	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744543.9	1013759	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744546.9	1013760	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744549.9	1013760	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744552.9	1013760	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744555.9	1013760	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744558.9	1013760	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744561.9	1013760	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744564.9	1013760	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744567.9	1013760	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744570.9	1013761	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744573.9	1013761	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744576.9	1013761	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744579.9	1013761	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744582.9	1013761	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744585.9	1013761	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744588.9	1013761	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744591.9	1013762	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744594.9	1013762	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744597.9	1013762	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744600.9	1013762	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744603.9	1013762	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744606.9	1013762	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744609.9	1013762	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744612.9	1013762	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744615.9	1013763	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744618.9	1013763	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744621.9	1013763	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744624.9	1013763	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744627.9	1013763	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744630.9	1013763	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744633.9	1013763	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744636.9	1013763	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744639.9	1013764	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744642.8	1013764	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744645.8	1013764	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744648.8	1013764	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744651.8	1013764	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744510.8	1013761	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744513.8	1013761	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744516.8	1013761	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744519.8	1013761	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744522.8	1013761	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744525.8	1013762	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744528.8	1013762	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744531.8	1013762	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744534.8	1013762	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744537.8	1013762	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744540.8	1013762	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744543.8	1013762	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744546.8	1013763	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744549.8	1013763	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744552.8	1013763	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744555.8	1013763	2.53	2.3	10.00%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744558.8	1013763	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744561.8	1013763	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744564.8	1013763	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744567.8	1013763	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744570.8	1013764	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744573.8	1013764	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744576.8	1013764	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744579.8	1013764	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744582.8	1013764	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744585.8	1013764	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744588.8	1013764	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744591.8	1013764	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744594.8	1013765	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744597.8	1013765	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744600.8	1013765	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744603.8	1013765	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744606.8	1013765	2.484	2.3	8.00%	0033A	
9/5/1997	Sead-12	A	744609.8	1013765	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744612.8	1013765	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744615.8	1013766	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744618.8	1013766	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744621.8	1013766	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744624.8	1013766	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744627.8	1013766	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744630.8	1013766	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744633.7	1013766	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744636.7	1013766	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744639.7	1013767	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744642.7	1013767	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744645.7	1013767	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744648.7	1013767	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744651.7	1013767	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744510.7	1013764	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744513.7	1013764	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744516.7	1013764	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744519.7	1013764	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744522.7	1013764	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744525.7	1013765	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744528.7	1013765	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744531.7	1013765	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744534.7	1013765	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744537.7	1013765	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744540.7	1013765	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744543.7	1013765	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744546.7	1013766	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744549.7	1013766	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744552.7	1013766	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744555.7	1013766	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744558.7	1013766	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744561.6	1013766	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744564.6	1013766	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744567.6	1013766	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744570.6	1013767	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744573.6	1013767	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744576.6	1013767	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744579.6	1013767	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744582.6	1013767	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744585.6	1013767	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744588.6	1013767	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744591.6	1013767	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744594.6	1013768	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744597.6	1013768	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744600.6	1013768	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744603.6	1013768	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744606.6	1013768	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744609.6	1013768	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744612.6	1013768	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744615.6	1013769	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744618.6	1013769	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744621.6	1013769	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744624.6	1013769	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744627.6	1013769	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744630.6	1013769	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744633.6	1013769	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744636.6	1013769	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744639.6	1013770	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744642.6	1013770	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744645.6	1013770	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744648.6	1013770	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744651.6	1013770	2.42	2.3	5.22%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744510.6	1013767	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744513.6	1013767	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744516.6	1013767	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744519.6	1013767	2.32	2.3	0.87%	0033A	
9/5/1997	Sead-12	A	744522.6	1013767	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744525.6	1013768	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744528.6	1013768	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744531.6	1013768	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744534.6	1013768	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744537.6	1013768	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744540.6	1013768	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744543.6	1013768	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744546.6	1013769	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744549.6	1013769	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744552.6	1013769	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744555.5	1013769	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744558.5	1013769	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744561.5	1013769	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744564.5	1013769	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744567.5	1013769	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744570.5	1013770	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744573.5	1013770	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744576.5	1013770	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744579.5	1013770	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744582.5	1013770	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744585.5	1013770	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744588.5	1013770	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744591.5	1013770	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744594.5	1013771	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744597.5	1013771	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744600.5	1013771	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744603.5	1013771	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744606.5	1013771	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744609.5	1013771	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744612.5	1013771	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744615.5	1013772	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744618.5	1013772	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744621.4	1013772	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744624.4	1013772	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744627.4	1013772	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744630.4	1013772	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744633.4	1013772	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744636.4	1013772	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744639.4	1013773	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744642.4	1013773	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744645.4	1013773	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744648.4	1013773	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744651.4	1013773	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744510.4	1013770	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744513.4	1013770	2.36	2.3	2.61%	0033A	
9/5/1997	Sead-12	A	744516.4	1013770	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744519.4	1013770	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744522.4	1013770	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744525.4	1013771	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744528.4	1013771	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744531.4	1013771	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744534.4	1013771	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744537.4	1013771	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744540.4	1013771	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744543.4	1013771	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744546.4	1013772	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744549.4	1013772	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744552.4	1013772	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744555.4	1013772	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744558.4	1013772	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744561.4	1013772	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744564.4	1013772	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744567.4	1013772	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744570.4	1013773	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744573.4	1013773	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744576.4	1013773	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744579.4	1013773	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744582.4	1013773	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744585.4	1013773	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744588.4	1013773	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744591.4	1013773	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744594.4	1013774	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744597.4	1013774	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744600.4	1013774	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744603.4	1013774	2.47	2.3	7.39%	0033A	



Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744606.4	1013774	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744609.4	1013774	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744612.4	1013774	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744615.3	1013775	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744618.3	1013775	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744621.3	1013775	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744624.3	1013775	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744627.3	1013775	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744630.3	1013775	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744633.3	1013775	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744636.3	1013775	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744639.3	1013776	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744642.3	1013776	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744645.3	1013776	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744648.3	1013776	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744651.3	1013776	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744510.3	1013773	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744513.3	1013773	2.33	2.3	1.30%	0033A	
9/5/1997	Sead-12	A	744516.3	1013773	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744519.3	1013773	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744522.3	1013773	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744525.3	1013774	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744528.3	1013774	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744531.3	1013774	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744534.3	1013774	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744537.3	1013774	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744540.3	1013774	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744543.3	1013774	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744546.3	1013775	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744549.3	1013775	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744552.3	1013775	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744555.3	1013775	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744558.3	1013775	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744561.3	1013775	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744564.3	1013775	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744567.3	1013775	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744570.3	1013776	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744573.3	1013776	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744576.3	1013776	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744579.3	1013776	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744582.3	1013776	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744585.3	1013776	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744588.3	1013776	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744591.3	1013776	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744594.3	1013777	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744597.3	1013777	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744600.3	1013777	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744603.3	1013777	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744606.3	1013777	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744609.2	1013777	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744612.2	1013777	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744615.2	1013778	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744618.2	1013778	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744621.2	1013778	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744624.2	1013778	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744627.2	1013778	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744630.2	1013778	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744633.2	1013778	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744636.2	1013778	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744639.2	1013779	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744642.2	1013779	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744645.2	1013779	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744648.2	1013779	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744651.2	1013779	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744510.2	1013776	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744513.2	1013776	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744516.2	1013776	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744519.2	1013776	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744522.2	1013776	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744525.2	1013777	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744528.2	1013777	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744531.2	1013777	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744534.2	1013777	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744537.1	1013777	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744540.1	1013777	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744543.1	1013777	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744546.1	1013778	2.62	2.3	13.91%	0033A	
9/5/1997	Sead-12	A	744549.1	1013778	2.62	2.3	13.91%	0033A	
9/5/1997	Sead-12	A	744552.1	1013778	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744555.1	1013778	2.59	2.3	12.61%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744558.1	1013778	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744561.1	1013778	2.62	2.3	13.91%	0033A	
9/5/1997	Sead-12	A	744564.1	1013778	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744567.1	1013778	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744570.1	1013779	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744573.1	1013779	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744576.1	1013779	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744579.1	1013779	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744582.1	1013779	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744585.1	1013779	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744588.1	1013779	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744591.1	1013779	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744594.1	1013780	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744597.1	1013780	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744600.1	1013780	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744603.1	1013780	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744606.1	1013780	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744609.1	1013780	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744612.1	1013780	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744615.1	1013781	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744618.1	1013781	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744621.1	1013781	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744624.1	1013781	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744627.1	1013781	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744630.1	1013781	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744633.1	1013781	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744636.1	1013781	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744639.1	1013782	2.37	2.3	3.04%	0033A	
9/5/1997	Sead-12	A	744642.1	1013782	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744645.1	1013782	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744648.1	1013782	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744651.1	1013782	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744510.1	1013779	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744513.1	1013779	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744516.1	1013779	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744519.1	1013779	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744522.1	1013779	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744525.1	1013779	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744528.1	1013780	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744531.1	1013780	2.35	2.3	2.17%	0033A	
9/5/1997	Sead-12	A	744534.1	1013780	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744537	1013780	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744540	1013780	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744543	1013780	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744546	1013780	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744549	1013781	2.62	2.3	13.91%	0033A	
9/5/1997	Sead-12	A	744552	1013781	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744555	1013781	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744558	1013781	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744561	1013781	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744564	1013781	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744567	1013781	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744570	1013781	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744573	1013782	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744576	1013782	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744579	1013782	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744582	1013782	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744585	1013782	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744588	1013782	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744591	1013782	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744594	1013782	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744597	1013783	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744599.9	1013783	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744602.9	1013783	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744605.9	1013783	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744608.9	1013783	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744611.9	1013783	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744614.9	1013783	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744617.9	1013784	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744620.9	1013784	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744623.9	1013784	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744626.9	1013784	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744629.9	1013784	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744632.9	1013784	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744635.9	1013784	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744638.9	1013784	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744641.9	1013785	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744644.9	1013785	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744647.9	1013785	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744650.9	1013785	2.42	2.3	5.22%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744509.9	1013782	2.29	2.3	-0.43%	0033A	
9/5/1997	Sead-12	A	744512.9	1013782	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744515.9	1013782	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744518.9	1013782	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744521.9	1013782	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744524.9	1013782	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744527.9	1013782	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744530.9	1013783	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744533.9	1013783	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744536.9	1013783	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744539.9	1013783	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744542.9	1013783	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744545.9	1013783	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744548.9	1013783	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744551.9	1013784	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744554.9	1013784	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744557.9	1013784	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744560.9	1013784	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744563.9	1013784	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744566.9	1013784	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744569.9	1013784	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744572.9	1013784	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744575.9	1013785	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744578.9	1013785	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744581.9	1013785	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744584.9	1013785	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744587.9	1013785	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744590.9	1013785	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744593.9	1013785	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744596.9	1013785	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744599.9	1013786	2.62	2.3	13.91%	0033A	
9/5/1997	Sead-12	A	744602.8	1013786	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744605.8	1013786	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744608.8	1013786	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744611.8	1013786	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744614.8	1013786	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744617.8	1013786	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744620.8	1013787	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744623.8	1013787	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744626.8	1013787	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744629.8	1013787	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744632.8	1013787	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744635.8	1013787	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744638.8	1013787	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744641.8	1013787	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744644.8	1013788	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744647.8	1013788	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744650.8	1013788	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744509.8	1013785	2.31	2.3	0.43%	0033A	
9/5/1997	Sead-12	A	744512.8	1013785	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744515.8	1013785	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744518.8	1013785	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744521.8	1013785	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744524.8	1013785	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744527.8	1013785	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744530.8	1013785	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744533.8	1013786	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744536.8	1013786	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744539.8	1013786	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744542.8	1013786	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744545.8	1013786	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744548.8	1013786	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744551.8	1013786	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744554.8	1013787	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744557.8	1013787	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744560.8	1013787	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744563.8	1013787	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744566.8	1013787	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744569.8	1013787	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744572.8	1013787	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744575.8	1013787	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744578.8	1013788	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744581.8	1013788	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744584.8	1013788	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744587.8	1013788	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744590.8	1013788	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744593.8	1013788	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744596.8	1013788	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744599.7	1013788	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744602.7	1013789	2.5	2.3	8.70%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background (kcpm)	% +/- BKG	Instrument (s/n)	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744605.7	1013789	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744608.7	1013789	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744611.7	1013789	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744614.7	1013789	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744617.7	1013789	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744620.7	1013789	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744623.7	1013790	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744626.7	1013790	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744629.7	1013790	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744632.7	1013790	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744635.7	1013790	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744638.7	1013790	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744641.7	1013790	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744644.7	1013790	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744647.7	1013791	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744650.7	1013791	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744509.7	1013787	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744512.7	1013788	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744515.7	1013788	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744518.7	1013788	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744521.7	1013788	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744524.7	1013788	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744527.7	1013788	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744530.7	1013788	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744533.6	1013788	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744536.6	1013789	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744539.6	1013789	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744542.6	1013789	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744545.6	1013789	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744548.6	1013789	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744551.6	1013789	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744554.6	1013789	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744557.6	1013790	2.62	2.3	13.91%	0033A	
9/5/1997	Sead-12	A	744560.6	1013790	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744563.6	1013790	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744566.6	1013790	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744569.6	1013790	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744572.6	1013790	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744575.6	1013790	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744578.6	1013790	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744581.6	1013791	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744584.6	1013791	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744587.6	1013791	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744590.6	1013791	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744593.6	1013791	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744596.6	1013791	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744599.6	1013791	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744602.6	1013791	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744605.6	1013792	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744608.6	1013792	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744611.6	1013792	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744614.6	1013792	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744617.6	1013792	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744620.6	1013792	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744623.6	1013792	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744626.6	1013793	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744629.6	1013793	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744632.6	1013793	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744635.6	1013793	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744638.6	1013793	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744641.6	1013793	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744644.6	1013793	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744647.6	1013793	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744650.6	1013794	2.34	2.3	1.74%	0033A	
9/5/1997	Sead-12	A	744509.6	1013790	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744512.6	1013790	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744515.6	1013791	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744518.6	1013791	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744521.6	1013791	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744524.6	1013791	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744527.6	1013791	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744530.6	1013791	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744533.5	1013791	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744536.5	1013791	2.62	2.3	13.91%	0033A	
9/5/1997	Sead-12	A	744539.5	1013792	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744542.5	1013792	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744545.5	1013792	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744548.5	1013792	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744551.5	1013792	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744554.5	1013792	2.64	2.3	14.78%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744557.5	1013792	2.63	2.3	14.35%	0033A	
9/5/1997	Sead-12	A	744560.5	1013793	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744563.5	1013793	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744566.5	1013793	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744569.5	1013793	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744572.5	1013793	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744575.5	1013793	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744578.5	1013793	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744581.5	1013793	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744584.5	1013794	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744587.5	1013794	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744590.5	1013794	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744593.5	1013794	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744596.5	1013794	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744599.4	1013794	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744602.4	1013794	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744605.4	1013794	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744608.4	1013795	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744611.4	1013795	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744614.4	1013795	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744617.4	1013795	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744620.4	1013795	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744623.4	1013795	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744626.4	1013795	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744629.4	1013796	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744632.4	1013796	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744635.4	1013796	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744638.4	1013796	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744641.4	1013796	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744644.4	1013796	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744647.4	1013796	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744650.4	1013796	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744509.4	1013793	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744512.4	1013793	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744515.4	1013793	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744518.4	1013794	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744521.4	1013794	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744524.4	1013794	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744527.4	1013794	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744530.4	1013794	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744533.4	1013794	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744536.4	1013794	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744539.4	1013794	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744542.4	1013795	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744545.4	1013795	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744548.4	1013795	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744551.4	1013795	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744554.4	1013795	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744557.4	1013795	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744560.4	1013795	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744563.4	1013796	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744566.4	1013796	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744569.4	1013796	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744572.4	1013796	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744575.4	1013796	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744578.4	1013796	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744581.4	1013796	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744584.4	1013796	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744587.4	1013797	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744590.4	1013797	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744593.4	1013797	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744596.3	1013797	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744599.3	1013797	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744602.3	1013797	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744605.3	1013797	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744608.3	1013797	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744611.3	1013798	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744614.3	1013798	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744617.3	1013798	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744620.3	1013798	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744623.3	1013798	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744626.3	1013798	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744629.3	1013798	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744632.3	1013799	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744635.3	1013799	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744638.3	1013799	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744641.3	1013799	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744644.3	1013799	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744647.3	1013799	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744650.3	1013799	2.48	2.3	7.83%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744509.3	1013796	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744512.3	1013796	2.38	2.3	3.48%	0033A	
9/5/1997	Sead-12	A	744515.3	1013796	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744518.3	1013796	2.39	2.3	3.91%	0033A	
9/5/1997	Sead-12	A	744521.3	1013797	2.41	2.3	4.78%	0033A	
9/5/1997	Sead-12	A	744524.3	1013797	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744527.3	1013797	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744530.3	1013797	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744533.3	1013797	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744536.3	1013797	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744539.3	1013797	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744542.3	1013797	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744545.3	1013798	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744548.3	1013798	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744551.3	1013798	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744554.3	1013798	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744557.3	1013798	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744560.3	1013798	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744563.3	1013798	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744566.3	1013799	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744569.3	1013799	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744572.3	1013799	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744575.3	1013799	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744578.3	1013799	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744581.3	1013799	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744584.3	1013799	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744587.3	1013799	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744590.3	1013800	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744593.3	1013800	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744596.2	1013800	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744599.2	1013800	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744602.2	1013800	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744605.2	1013800	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744608.2	1013800	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744611.2	1013800	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744614.2	1013801	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744617.2	1013801	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744620.2	1013801	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744623.2	1013801	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744626.2	1013801	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744629.2	1013801	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744632.2	1013801	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744635.2	1013802	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744638.2	1013802	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744641.2	1013802	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744644.2	1013802	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744647.2	1013802	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744650.2	1013802	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744509.2	1013799	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744512.2	1013799	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744515.2	1013799	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744518.2	1013799	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744521.2	1013799	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744524.2	1013800	2.44	2.3	6.09%	0033A	
9/5/1997	Sead-12	A	744527.2	1013800	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744530.1	1013800	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744533.1	1013800	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744536.1	1013800	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744539.1	1013800	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744542.1	1013800	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744545.1	1013800	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744548.1	1013801	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744551.1	1013801	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744554.1	1013801	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744557.1	1013801	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744560.1	1013801	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744563.1	1013801	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744566.1	1013801	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744569.1	1013802	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744572.1	1013802	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744575.1	1013802	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744578.1	1013802	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744581.1	1013802	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744584.1	1013802	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744587.1	1013802	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744590.1	1013802	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744593.1	1013803	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744596.1	1013803	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744599.1	1013803	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744602.1	1013803	2.6	2.3	13.04%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/5/1997	Sead-12	A	744605.1	1013803	2.59	2.3	12.61%	0033A	
9/5/1997	Sead-12	A	744608.1	1013803	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744611.1	1013803	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744614.1	1013803	2.68	2.3	16.52%	0033A	
9/5/1997	Sead-12	A	744617.1	1013804	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744620.1	1013804	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744623.1	1013804	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744626.1	1013804	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744629.1	1013804	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744632.1	1013804	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744635.1	1013804	2.47	2.3	7.39%	0033A	
9/5/1997	Sead-12	A	744638.1	1013805	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744641.1	1013805	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744644.1	1013805	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744647.1	1013805	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744650.1	1013805	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744509.1	1013802	2.48	2.3	7.83%	0033A	
9/5/1997	Sead-12	A	744512.1	1013802	2.51	2.3	9.13%	0033A	
9/5/1997	Sead-12	A	744515.1	1013802	2.46	2.3	6.96%	0033A	
9/5/1997	Sead-12	A	744518.1	1013802	2.4	2.3	4.35%	0033A	
9/5/1997	Sead-12	A	744521.1	1013802	2.43	2.3	5.65%	0033A	
9/5/1997	Sead-12	A	744524.1	1013802	2.42	2.3	5.22%	0033A	
9/5/1997	Sead-12	A	744527.1	1013803	2.45	2.3	6.52%	0033A	
9/5/1997	Sead-12	A	744530	1013803	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744533	1013803	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744536	1013803	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744539	1013803	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744542	1013803	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744545	1013803	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744548	1013803	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744551	1013804	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744554	1013804	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744557	1013804	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744560	1013804	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744563	1013804	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744566	1013804	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744569	1013804	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744572	1013805	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744575	1013805	2.56	2.3	11.30%	0033A	
9/5/1997	Sead-12	A	744578	1013805	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744581	1013805	2.58	2.3	12.17%	0033A	
9/5/1997	Sead-12	A	744584	1013805	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744587	1013805	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744590	1013805	2.54	2.3	10.43%	0033A	
9/5/1997	Sead-12	A	744593	1013805	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744595.9	1013806	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744598.9	1013806	2.57	2.3	11.74%	0033A	
9/5/1997	Sead-12	A	744601.9	1013806	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744604.9	1013806	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744607.9	1013806	2.64	2.3	14.78%	0033A	
9/5/1997	Sead-12	A	744610.9	1013806	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744613.9	1013806	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744616.9	1013806	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744619.9	1013807	2.65	2.3	15.22%	0033A	
9/5/1997	Sead-12	A	744622.9	1013807	2.61	2.3	13.48%	0033A	
9/5/1997	Sead-12	A	744625.9	1013807	2.6	2.3	13.04%	0033A	
9/5/1997	Sead-12	A	744628.9	1013807	2.52	2.3	9.57%	0033A	
9/5/1997	Sead-12	A	744631.9	1013807	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744634.9	1013807	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744637.9	1013807	2.49	2.3	8.26%	0033A	
9/5/1997	Sead-12	A	744640.9	1013808	2.5	2.3	8.70%	0033A	
9/5/1997	Sead-12	A	744643.9	1013808	2.53	2.3	10.00%	0033A	
9/5/1997	Sead-12	A	744646.9	1013808	2.55	2.3	10.87%	0033A	
9/5/1997	Sead-12	A	744649.9	1013808	2.45	2.3	6.52%	0033A	
9/6/1997	Sead-12	A	744508.9	1013805	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744511.9	1013805	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744514.9	1013805	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744517.9	1013805	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744520.9	1013805	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744523.9	1013805	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744526.9	1013805	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744529.9	1013806	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744532.9	1013806	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744535.9	1013806	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744538.9	1013806	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744541.9	1013806	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744544.9	1013806	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744547.9	1013806	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744550.9	1013806	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744553.9	1013807	2.47	2.58	-4.26%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744556.9	1013807	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744559.9	1013807	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744562.9	1013807	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744565.9	1013807	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744568.9	1013807	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744571.9	1013807	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744574.9	1013808	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744577.9	1013808	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744580.9	1013808	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744583.9	1013808	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744586.9	1013808	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744589.9	1013808	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744592.9	1013808	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744595.8	1013808	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744598.8	1013809	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744601.8	1013809	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744604.8	1013809	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744607.8	1013809	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744610.8	1013809	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744613.8	1013809	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744616.8	1013809	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744619.8	1013809	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744622.8	1013810	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744625.8	1013810	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744628.8	1013810	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744631.8	1013810	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744634.8	1013810	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744637.8	1013810	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744640.8	1013810	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744643.8	1013811	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744646.8	1013811	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744649.8	1013811	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744508.8	1013807	2.36	2.58	-8.53%	0033A	
9/6/1997	Sead-12	A	744511.8	1013808	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744514.8	1013808	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744517.8	1013808	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744520.8	1013808	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744523.8	1013808	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744526.8	1013808	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744529.8	1013808	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744532.8	1013809	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744535.8	1013809	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744538.8	1013809	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744541.8	1013809	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744544.8	1013809	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744547.8	1013809	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744550.8	1013809	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744553.8	1013809	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744556.8	1013810	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744559.8	1013810	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744562.8	1013810	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744565.8	1013810	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744568.8	1013810	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744571.8	1013810	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744574.8	1013810	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744577.8	1013810	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744580.8	1013811	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744583.8	1013811	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744586.8	1013811	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744589.8	1013811	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744592.7	1013811	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744595.7	1013811	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744598.7	1013811	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744601.7	1013812	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744604.7	1013812	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744607.7	1013812	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744610.7	1013812	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744613.7	1013812	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744616.7	1013812	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744619.7	1013812	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744622.7	1013812	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744625.7	1013813	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744628.7	1013813	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744631.7	1013813	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744634.7	1013813	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744637.7	1013813	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744640.7	1013813	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744643.7	1013813	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744646.7	1013814	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744649.7	1013814	2.32	2.58	-10.08%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744508.7	1013810	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744511.7	1013810	2.37	2.58	-8.14%	0033A	
9/6/1997	Sead-12	A	744514.7	1013811	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744517.7	1013811	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744520.7	1013811	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744523.7	1013811	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744526.6	1013811	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744529.6	1013811	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744532.6	1013811	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744535.6	1013812	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744538.6	1013812	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744541.6	1013812	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744544.6	1013812	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744547.6	1013812	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744550.6	1013812	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744553.6	1013812	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744556.6	1013812	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744559.6	1013813	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744562.6	1013813	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744565.6	1013813	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744568.6	1013813	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744571.6	1013813	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744574.6	1013813	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744577.6	1013813	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744580.6	1013813	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744583.6	1013814	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744586.6	1013814	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744589.6	1013814	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744592.6	1013814	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744595.6	1013814	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744598.6	1013814	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744601.6	1013814	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744604.6	1013815	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744607.6	1013815	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744610.6	1013815	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744613.6	1013815	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744616.6	1013815	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744619.6	1013815	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744622.6	1013815	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744625.6	1013815	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744628.6	1013816	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744631.6	1013816	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744634.6	1013816	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744637.6	1013816	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744640.6	1013816	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744643.6	1013816	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744646.6	1013816	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744649.6	1013817	2.18	2.58	-15.50%	0033A	
9/6/1997	Sead-12	A	744508.6	1013813	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744511.6	1013813	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744514.6	1013813	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744517.6	1013814	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744520.6	1013814	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744523.6	1013814	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744526.5	1013814	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744529.5	1013814	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744532.5	1013814	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744535.5	1013814	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744538.5	1013815	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744541.5	1013815	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744544.5	1013815	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744547.5	1013815	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744550.5	1013815	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744553.5	1013815	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744556.5	1013815	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744559.5	1013815	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744562.5	1013816	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744565.5	1013816	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744568.5	1013816	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744571.5	1013816	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744574.5	1013816	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744577.5	1013816	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744580.5	1013816	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744583.5	1013816	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744586.5	1013817	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744589.5	1013817	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744592.4	1013817	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744595.4	1013817	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744598.4	1013817	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744601.4	1013817	2.53	2.58	-1.94%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744604.4	1013817	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744607.4	1013818	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744610.4	1013818	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744613.4	1013818	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744616.4	1013818	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744619.4	1013818	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744622.4	1013818	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744625.4	1013818	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744628.4	1013818	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744631.4	1013819	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744634.4	1013819	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744637.4	1013819	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744640.4	1013819	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744643.4	1013819	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744646.4	1013819	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744649.4	1013819	2.13	2.58	-17.44%	0033A	
9/6/1997	Sead-12	A	744508.4	1013816	2.29	2.58	-11.24%	0033A	
9/6/1997	Sead-12	A	744511.4	1013816	2.31	2.58	-10.47%	0033A	
9/6/1997	Sead-12	A	744514.4	1013816	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744517.4	1013816	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744520.4	1013817	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744523.4	1013817	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744526.4	1013817	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744529.4	1013817	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744532.4	1013817	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744535.4	1013817	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744538.4	1013817	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744541.4	1013818	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744544.4	1013818	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744547.4	1013818	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744550.4	1013818	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744553.4	1013818	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744556.4	1013818	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744559.4	1013818	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744562.4	1013818	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744565.4	1013819	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744568.4	1013819	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744571.4	1013819	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744574.4	1013819	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744577.4	1013819	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744580.4	1013819	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744583.4	1013819	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744586.4	1013819	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744589.4	1013820	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744592.3	1013820	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744595.3	1013820	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744598.3	1013820	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744601.3	1013820	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744604.3	1013820	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744607.3	1013820	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744610.3	1013821	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744613.3	1013821	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744616.3	1013821	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744619.3	1013821	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744622.3	1013821	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744625.3	1013821	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744628.3	1013821	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744631.3	1013821	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744634.3	1013822	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744637.3	1013822	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744640.3	1013822	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744643.3	1013822	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744646.3	1013822	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744649.3	1013822	2.18	2.58	-15.50%	0033A	
9/6/1997	Sead-12	A	744508.3	1013819	2.29	2.58	-11.24%	0033A	
9/6/1997	Sead-12	A	744511.3	1013819	2.29	2.58	-11.24%	0033A	
9/6/1997	Sead-12	A	744514.3	1013819	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744517.3	1013819	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744520.3	1013819	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744523.3	1013820	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744526.3	1013820	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744529.3	1013820	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744532.3	1013820	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744535.3	1013820	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744538.3	1013820	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744541.3	1013820	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744544.3	1013821	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744547.3	1013821	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744550.3	1013821	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744553.3	1013821	2.55	2.58	-1.16%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744556.3	1013821	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744559.3	1013821	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744562.3	1013821	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744565.3	1013821	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744568.3	1013822	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744571.3	1013822	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744574.3	1013822	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744577.3	1013822	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744580.3	1013822	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744583.3	1013822	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744586.3	1013822	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744589.3	1013822	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744592.2	1013823	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744595.2	1013823	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744598.2	1013823	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744601.2	1013823	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744604.2	1013823	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744607.2	1013823	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744610.2	1013823	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744613.2	1013824	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744616.2	1013824	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744619.2	1013824	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744622.2	1013824	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744625.2	1013824	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744628.2	1013824	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744631.2	1013824	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744634.2	1013824	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744637.2	1013825	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744640.2	1013825	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744643.2	1013825	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744646.2	1013825	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744649.2	1013825	2.12	2.58	-17.83%	0033A	
9/6/1997	Sead-12	A	744475.2	1013820	2.2	2.58	-14.73%	0033A	
9/6/1997	Sead-12	A	744478.2	1013821	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744481.2	1013821	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744484.2	1013821	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744487.2	1013821	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744490.2	1013821	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744493.2	1013821	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744496.2	1013821	2.36	2.58	-8.53%	0033A	
9/6/1997	Sead-12	A	744499.2	1013821	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744502.2	1013822	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744505.2	1013822	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744508.2	1013822	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744511.2	1013822	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744514.2	1013822	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744517.2	1013822	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744520.2	1013822	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744523.2	1013822	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744526.1	1013823	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744529.1	1013823	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744532.1	1013823	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744535.1	1013823	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744538.1	1013823	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744541.1	1013823	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744544.1	1013823	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744547.1	1013824	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744550.1	1013824	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744553.1	1013824	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744556.1	1013824	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744559.1	1013824	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744562.1	1013824	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744565.1	1013824	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744568.1	1013824	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744571.1	1013825	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744574.1	1013825	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744577.1	1013825	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744580.1	1013825	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744583.1	1013825	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744586.1	1013825	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744589.1	1013825	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744592.1	1013825	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744595.1	1013826	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744598.1	1013826	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744601.1	1013826	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744604.1	1013826	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744607.1	1013826	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744610.1	1013826	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744613.1	1013826	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744616.1	1013827	2.46	2.58	-4.65%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744619.1	1013827	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744622.1	1013827	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744625.1	1013827	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744628.1	1013827	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744631.1	1013827	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744634.1	1013827	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744637.1	1013827	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744640.1	1013828	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744643.1	1013828	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744646.1	1013828	2.26	2.58	-12.40%	0033A	
9/6/1997	Sead-12	A	744649.1	1013828	2.26	2.58	-12.40%	0033A	
9/6/1997	Sead-12	A	744472.1	1013823	2.09	2.58	-18.99%	0033A	
9/6/1997	Sead-12	A	744475.1	1013823	2.12	2.58	-17.83%	0033A	
9/6/1997	Sead-12	A	744478.1	1013823	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744481.1	1013824	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744484.1	1013824	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744487.1	1013824	2.31	2.58	-10.47%	0033A	
9/6/1997	Sead-12	A	744490.1	1013824	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744493.1	1013824	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744496.1	1013824	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744499.1	1013824	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744502.1	1013824	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744505.1	1013825	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744508.1	1013825	2.3	2.58	-10.85%	0033A	
9/6/1997	Sead-12	A	744511.1	1013825	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744514.1	1013825	2.36	2.58	-8.53%	0033A	
9/6/1997	Sead-12	A	744517.1	1013825	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744520.1	1013825	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744523.1	1013825	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744526	1013825	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744529	1013826	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744532	1013826	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744535	1013826	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744538	1013826	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744541	1013826	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744544	1013826	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744547	1013826	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744550	1013827	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744553	1013827	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744556	1013827	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744559	1013827	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744562	1013827	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744565	1013827	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744568	1013827	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744571	1013827	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744574	1013828	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744577	1013828	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744580	1013828	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744583	1013828	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744586	1013828	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744588.9	1013828	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744591.9	1013828	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744594.9	1013828	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744597.9	1013829	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744600.9	1013829	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744603.9	1013829	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744606.9	1013829	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744609.9	1013829	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744612.9	1013829	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744615.9	1013829	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744618.9	1013830	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744621.9	1013830	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744624.9	1013830	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744627.9	1013830	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744630.9	1013830	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744633.9	1013830	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744636.9	1013830	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744639.9	1013830	2.36	2.58	-8.53%	0033A	
9/6/1997	Sead-12	A	744642.9	1013831	2.37	2.58	-8.14%	0033A	
9/6/1997	Sead-12	A	744645.9	1013831	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744648.9	1013831	2.27	2.58	-12.02%	0033A	
9/6/1997	Sead-12	A	744655.9	1013826	2.18	2.58	-15.50%	0033A	
9/6/1997	Sead-12	A	744468.9	1013826	2.26	2.58	-12.40%	0033A	
9/6/1997	Sead-12	A	744471.9	1013826	2.31	2.58	-10.47%	0033A	
9/6/1997	Sead-12	A	744474.9	1013826	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744477.9	1013826	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744480.9	1013826	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744483.9	1013827	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744486.9	1013827	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744489.9	1013827	2.41	2.58	-6.59%	0033A	



Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744492.9	1013827	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744495.9	1013827	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744498.9	1013827	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744501.9	1013827	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744504.9	1013827	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744507.9	1013828	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744510.9	1013828	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744513.9	1013828	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744516.9	1013828	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744519.9	1013828	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744522.9	1013828	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744525.9	1013828	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744528.9	1013828	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744531.9	1013829	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744534.9	1013829	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744537.9	1013829	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744540.9	1013829	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744543.9	1013829	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744546.9	1013829	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744549.9	1013829	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744552.9	1013830	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744555.9	1013830	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744558.9	1013830	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744561.9	1013830	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744564.9	1013830	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744567.9	1013830	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744570.9	1013830	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744573.9	1013830	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744576.9	1013831	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744579.9	1013831	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744582.9	1013831	2.72	2.58	5.43%	0033A	
9/6/1997	Sead-12	A	744585.9	1013831	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744588.8	1013831	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744591.8	1013831	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744594.8	1013831	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744597.8	1013831	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744600.8	1013832	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744603.8	1013832	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744606.8	1013832	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744609.8	1013832	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744612.8	1013832	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744615.8	1013832	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744618.8	1013832	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744621.8	1013833	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744624.8	1013833	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744627.8	1013833	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744630.8	1013833	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744633.8	1013833	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744636.8	1013833	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744639.8	1013833	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744642.8	1013833	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744645.8	1013834	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744648.8	1013834	2.27	2.58	-12.02%	0033A	
9/6/1997	Sead-12	A	744651.8	1013834	2.12	2.58	-17.83%	0033A	
9/6/1997	Sead-12	A	744654.8	1013834	2.15	2.58	-16.67%	0033A	
9/6/1997	Sead-12	A	744657.8	1013834	2.18	2.58	-15.50%	0033A	
9/6/1997	Sead-12	A	744660.8	1013834	2.24	2.58	-13.18%	0033A	
9/6/1997	Sead-12	A	744663.8	1013834	2.26	2.58	-12.40%	0033A	
9/6/1997	Sead-12	A	744666.8	1013835	2.26	2.58	-12.40%	0033A	
9/6/1997	Sead-12	A	744669.8	1013835	2.22	2.58	-13.95%	0033A	
9/6/1997	Sead-12	A	744672.8	1013835	2.2	2.58	-14.73%	0033A	
9/6/1997	Sead-12	A	744675.8	1013835	2.16	2.58	-16.28%	0033A	
9/6/1997	Sead-12	A	744678.8	1013835	2.18	2.58	-15.50%	0033A	
9/6/1997	Sead-12	A	744681.8	1013835	2.16	2.58	-16.28%	0033A	
9/6/1997	Sead-12	A	744684.8	1013835	2.15	2.58	-16.67%	0033A	
9/6/1997	Sead-12	A	744687.8	1013835	2.17	2.58	-15.89%	0033A	
9/6/1997	Sead-12	A	744690.8	1013836	2.12	2.58	-17.83%	0033A	
9/6/1997	Sead-12	A	744693.8	1013836	2.08	2.58	-19.38%	0033A	
9/6/1997	Sead-12	A	744696.8	1013836	2.07	2.58	-19.77%	0033A	
9/6/1997	Sead-12	A	744699.8	1013836	2.09	2.58	-18.99%	0033A	
9/6/1997	Sead-12	A	744702.8	1013836	2.06	2.58	-20.16%	0033A	
9/6/1997	Sead-12	A	744462.8	1013828	2.03	2.58	-21.32%	0033A	
9/6/1997	Sead-12	A	744465.8	1013829	2.11	2.58	-18.22%	0033A	
9/6/1997	Sead-12	A	744468.8	1013829	2.26	2.58	-12.40%	0033A	
9/6/1997	Sead-12	A	744471.8	1013829	2.3	2.58	-10.85%	0033A	
9/6/1997	Sead-12	A	744474.8	1013829	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744477.8	1013829	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744480.8	1013829	2.37	2.58	-8.14%	0033A	
9/6/1997	Sead-12	A	744483.8	1013829	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744486.8	1013830	2.41	2.58	-6.59%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744489.8	1013830	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744492.8	1013830	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744495.8	1013830	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744498.8	1013830	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744501.8	1013830	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744504.8	1013830	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744507.8	1013830	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744510.8	1013831	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744513.8	1013831	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744516.8	1013831	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744519.8	1013831	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744522.8	1013831	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744525.8	1013831	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744528.8	1013831	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744531.8	1013831	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744534.8	1013832	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744537.8	1013832	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744540.8	1013832	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744543.8	1013832	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744546.8	1013832	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744549.8	1013832	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744552.8	1013832	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744555.8	1013833	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744558.8	1013833	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744561.8	1013833	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744564.8	1013833	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744567.8	1013833	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744570.8	1013833	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744573.8	1013833	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744576.8	1013833	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744579.8	1013834	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744582.8	1013834	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744585.8	1013834	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744588.7	1013834	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744591.7	1013834	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744594.7	1013834	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744597.7	1013834	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744600.7	1013834	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744603.7	1013835	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744606.7	1013835	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744609.7	1013835	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744612.7	1013835	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744615.7	1013835	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744618.7	1013835	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744621.7	1013835	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744624.7	1013836	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744627.7	1013836	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744630.7	1013836	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744633.7	1013836	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744636.7	1013836	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744639.7	1013836	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744642.7	1013836	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744645.7	1013836	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744648.7	1013837	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744651.7	1013837	2.15	2.58	-16.67%	0033A	
9/6/1997	Sead-12	A	744654.6	1013837	2.18	2.58	-15.50%	0033A	
9/6/1997	Sead-12	A	744657.6	1013837	2.23	2.58	-13.57%	0033A	
9/6/1997	Sead-12	A	744660.6	1013837	2.27	2.58	-12.02%	0033A	
9/6/1997	Sead-12	A	744663.6	1013837	2.28	2.58	-11.63%	0033A	
9/6/1997	Sead-12	A	744666.6	1013837	2.23	2.58	-13.57%	0033A	
9/6/1997	Sead-12	A	744669.6	1013838	2.21	2.58	-14.34%	0033A	
9/6/1997	Sead-12	A	744672.6	1013838	2.21	2.58	-14.34%	0033A	
9/6/1997	Sead-12	A	744675.6	1013838	2.2	2.58	-14.73%	0033A	
9/6/1997	Sead-12	A	744678.6	1013838	2.2	2.58	-14.73%	0033A	
9/6/1997	Sead-12	A	744681.6	1013838	2.16	2.58	-16.28%	0033A	
9/6/1997	Sead-12	A	744684.6	1013838	2.16	2.58	-16.28%	0033A	
9/6/1997	Sead-12	A	744687.6	1013838	2.16	2.58	-16.28%	0033A	
9/6/1997	Sead-12	A	744690.6	1013838	2.08	2.58	-19.38%	0033A	
9/6/1997	Sead-12	A	744693.6	1013839	2.09	2.58	-18.99%	0033A	
9/6/1997	Sead-12	A	744696.6	1013839	2.12	2.58	-17.83%	0033A	
9/6/1997	Sead-12	A	744699.6	1013839	2.13	2.58	-17.44%	0033A	
9/6/1997	Sead-12	A	744702.6	1013839	2.1	2.58	-18.60%	0033A	
9/6/1997	Sead-12	A	744462.7	1013831	2.21	2.58	-14.34%	0033A	
9/6/1997	Sead-12	A	744465.7	1013831	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744468.7	1013832	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744471.7	1013832	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744474.7	1013832	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744477.7	1013832	2.72	2.58	5.43%	0033A	
9/6/1997	Sead-12	A	744480.7	1013832	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744483.7	1013832	2.57	2.58	-0.39%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744486.7	1013832	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744489.7	1013832	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744492.7	1013833	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744495.7	1013833	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744498.7	1013833	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744501.7	1013833	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744504.7	1013833	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744507.7	1013833	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744510.7	1013833	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744513.7	1013834	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744516.7	1013834	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744519.7	1013834	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744522.6	1013834	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744525.6	1013834	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744528.6	1013834	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744531.6	1013834	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744534.6	1013834	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744537.6	1013835	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744540.6	1013835	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744543.6	1013835	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744546.6	1013835	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744549.6	1013835	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744552.6	1013835	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744555.6	1013835	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744558.6	1013836	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744561.6	1013836	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744564.6	1013836	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744567.6	1013836	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744570.6	1013836	2.72	2.58	5.43%	0033A	
9/6/1997	Sead-12	A	744573.6	1013836	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744576.6	1013836	2.79	2.58	8.14%	0033A	
9/6/1997	Sead-12	A	744579.6	1013836	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744582.6	1013837	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744585.6	1013837	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744588.6	1013837	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744591.6	1013837	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744594.6	1013837	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744597.6	1013837	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744600.6	1013837	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744603.6	1013837	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744606.6	1013838	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744609.6	1013838	2.81	2.58	8.91%	0033A	
9/6/1997	Sead-12	A	744612.6	1013838	2.82	2.58	9.30%	0033A	
9/6/1997	Sead-12	A	744615.6	1013838	2.79	2.58	8.14%	0033A	
9/6/1997	Sead-12	A	744618.6	1013838	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744621.6	1013838	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744624.6	1013838	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744627.6	1013839	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744630.6	1013839	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744633.6	1013839	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744636.6	1013839	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744639.6	1013839	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744642.6	1013839	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744645.6	1013839	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744648.6	1013839	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744651.6	1013840	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744654.5	1013840	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744657.5	1013840	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744660.5	1013840	2.37	2.58	-8.14%	0033A	
9/6/1997	Sead-12	A	744663.5	1013840	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744666.5	1013840	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744669.5	1013840	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744672.5	1013841	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744675.5	1013841	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744678.5	1013841	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744681.5	1013841	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744684.5	1013841	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744687.5	1013841	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744690.5	1013841	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744693.5	1013841	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744696.5	1013842	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744699.5	1013842	2.28	2.58	-11.63%	0033A	
9/6/1997	Sead-12	A	744702.5	1013842	2.27	2.58	-12.02%	0033A	
9/6/1997	Sead-12	A	744705.5	1013842	2.22	2.58	-13.95%	0033A	
9/6/1997	Sead-12	A	744708.5	1013842	2.2	2.58	-14.73%	0033A	
9/6/1997	Sead-12	A	744711.5	1013842	2.15	2.58	-16.67%	0033A	
9/6/1997	Sead-12	A	744462.6	1013834	2.19	2.58	-15.12%	0033A	
9/6/1997	Sead-12	A	744465.6	1013834	2.36	2.58	-8.53%	0033A	
9/6/1997	Sead-12	A	744468.6	1013834	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744471.6	1013835	2.61	2.58	1.16%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744474.6	1013835	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744477.6	1013835	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744480.6	1013835	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744483.6	1013835	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744486.6	1013835	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744489.6	1013835	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744492.6	1013835	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744495.6	1013836	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744498.6	1013836	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744501.6	1013836	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744504.6	1013836	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744507.6	1013836	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744510.6	1013836	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744513.6	1013836	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744516.6	1013837	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744519.6	1013837	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744522.5	1013837	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744525.5	1013837	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744528.5	1013837	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744531.5	1013837	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744534.5	1013837	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744537.5	1013837	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744540.5	1013838	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744543.5	1013838	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744546.5	1013838	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744549.5	1013838	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744552.5	1013838	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744555.5	1013838	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744558.5	1013838	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744561.5	1013839	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744564.5	1013839	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744567.5	1013839	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744570.5	1013839	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744573.5	1013839	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744576.5	1013839	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744579.5	1013839	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744582.5	1013839	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744585.5	1013840	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744588.4	1013840	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744591.4	1013840	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744594.4	1013840	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744597.4	1013840	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744600.4	1013840	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744603.4	1013840	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744606.4	1013840	2.82	2.58	9.30%	0033A	
9/6/1997	Sead-12	A	744609.4	1013841	2.83	2.58	9.69%	0033A	
9/6/1997	Sead-12	A	744612.4	1013841	2.81	2.58	8.91%	0033A	
9/6/1997	Sead-12	A	744615.4	1013841	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744618.4	1013841	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744621.4	1013841	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744624.4	1013841	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744627.4	1013841	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744630.4	1013842	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744633.4	1013842	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744636.4	1013842	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744639.4	1013842	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744642.4	1013842	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744645.4	1013842	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744648.4	1013842	2.27	2.58	-12.02%	0033A	
9/6/1997	Sead-12	A	744651.4	1013842	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744654.4	1013843	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744657.4	1013843	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744660.4	1013843	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744663.4	1013843	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744666.4	1013843	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744669.4	1013843	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744672.4	1013843	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744675.4	1013844	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744678.4	1013844	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744681.4	1013844	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744684.4	1013844	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744687.4	1013844	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744690.4	1013844	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744693.4	1013844	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744696.4	1013844	2.29	2.58	-11.24%	0033A	
9/6/1997	Sead-12	A	744899.4	1013845	2.28	2.58	-11.63%	0033A	
9/6/1997	Sead-12	A	744702.4	1013845	2.24	2.58	-13.18%	0033A	
9/6/1997	Sead-12	A	744705.4	1013845	2.21	2.58	-14.34%	0033A	
9/6/1997	Sead-12	A	744708.4	1013845	2.19	2.58	-15.12%	0033A	
9/6/1997	Sead-12	A	744711.4	1013845	2.07	2.58	-19.77%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744459.4	1013837	2.21	2.58	-14.34%	0033A	
9/6/1997	Sead-12	A	744462.4	1013837	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744465.4	1013837	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744468.4	1013837	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744471.4	1013837	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744474.4	1013838	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744477.4	1013838	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744480.4	1013838	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744483.4	1013838	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744486.4	1013838	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744489.4	1013838	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744492.4	1013838	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744495.4	1013838	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744498.4	1013839	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744501.4	1013839	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744504.4	1013839	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744507.4	1013839	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744510.4	1013839	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744513.4	1013839	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744516.4	1013839	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744519.4	1013840	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744522.4	1013840	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744525.4	1013840	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744528.4	1013840	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744531.4	1013840	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744534.4	1013840	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744537.4	1013840	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744540.4	1013840	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744543.4	1013841	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744546.4	1013841	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744549.4	1013841	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744552.4	1013841	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744555.4	1013841	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744558.4	1013841	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744561.4	1013841	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744564.4	1013842	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744567.4	1013842	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744570.4	1013842	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744573.4	1013842	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744576.4	1013842	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744579.4	1013842	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744582.4	1013842	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744585.3	1013842	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744588.3	1013843	2.79	2.58	8.14%	0033A	
9/6/1997	Sead-12	A	744591.3	1013843	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744594.3	1013843	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744597.3	1013843	2.8	2.58	8.53%	0033A	
9/6/1997	Sead-12	A	744600.3	1013843	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744603.3	1013843	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744606.3	1013843	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744609.3	1013843	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744612.3	1013844	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744615.3	1013844	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744618.3	1013844	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744621.3	1013844	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744624.3	1013844	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744627.3	1013844	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744630.3	1013844	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744633.3	1013845	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744636.3	1013845	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744639.3	1013845	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744642.3	1013845	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744645.3	1013845	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744648.3	1013845	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744651.3	1013845	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744654.3	1013845	2.26	2.58	-12.40%	0033A	
9/6/1997	Sead-12	A	744657.3	1013846	2.37	2.58	-8.14%	0033A	
9/6/1997	Sead-12	A	744660.3	1013846	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744663.3	1013846	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744666.3	1013846	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744669.3	1013846	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744672.3	1013846	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744675.3	1013846	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744678.3	1013847	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744681.3	1013847	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744684.3	1013847	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744687.3	1013847	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744690.3	1013847	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744693.3	1013847	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744696.3	1013847	2.42	2.58	-6.20%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744699.3	1013847	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744702.3	1013848	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744705.3	1013848	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744708.3	1013848	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744711.3	1013848	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744459.3	1013840	2.17	2.58	-15.89%	0033A	
9/6/1997	Sead-12	A	744462.3	1013840	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744465.3	1013840	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744468.3	1013840	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744471.3	1013840	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744474.3	1013840	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744477.3	1013841	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744480.3	1013841	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744483.3	1013841	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744486.3	1013841	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744489.3	1013841	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744492.3	1013841	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744495.3	1013841	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744498.3	1013841	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744501.3	1013842	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744504.3	1013842	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744507.3	1013842	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744510.3	1013842	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744513.3	1013842	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744516.3	1013842	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744519.3	1013842	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744522.3	1013843	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744525.3	1013843	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744528.3	1013843	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744531.3	1013843	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744534.3	1013843	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744537.3	1013843	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744540.3	1013843	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744543.3	1013843	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744546.3	1013844	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744549.3	1013844	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744552.3	1013844	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744555.3	1013844	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744558.3	1013844	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744561.3	1013844	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744564.3	1013844	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744567.3	1013845	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744570.3	1013845	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744573.3	1013845	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744576.3	1013845	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744579.3	1013845	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744582.3	1013845	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744585.2	1013845	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744588.2	1013845	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744591.2	1013846	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744594.2	1013846	2.79	2.58	8.14%	0033A	
9/6/1997	Sead-12	A	744597.2	1013846	2.79	2.58	8.14%	0033A	
9/6/1997	Sead-12	A	744600.2	1013846	2.79	2.58	8.14%	0033A	
9/6/1997	Sead-12	A	744603.2	1013846	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744606.2	1013846	2.72	2.58	5.43%	0033A	
9/6/1997	Sead-12	A	744609.2	1013846	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744612.2	1013846	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744615.2	1013847	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744618.2	1013847	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744621.2	1013847	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744624.2	1013847	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744627.2	1013847	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744630.2	1013847	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744633.2	1013847	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744636.2	1013848	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744639.2	1013848	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744642.2	1013848	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744645.2	1013848	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744648.2	1013848	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744651.1	1013848	2.36	2.58	-8.53%	0033A	
9/6/1997	Sead-12	A	744654.1	1013848	2.29	2.58	-11.24%	0033A	
9/6/1997	Sead-12	A	744657.1	1013848	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744660.1	1013849	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744663.1	1013849	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744666.1	1013849	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744669.1	1013849	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744672.1	1013849	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744675.1	1013849	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744678.1	1013849	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744681.1	1013849	2.57	2.58	-0.39%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744684.1	1013850	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744687.1	1013850	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744690.1	1013850	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744693.1	1013850	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744696.1	1013850	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744699.1	1013850	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744702.1	1013850	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744705.1	1013851	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744708.1	1013851	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744711.1	1013851	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744459.2	1013843	2.28	2.58	-11.63%	0033A	
9/6/1997	Sead-12	A	744462.2	1013843	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744465.2	1013843	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744468.2	1013843	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744471.2	1013843	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744474.2	1013843	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744477.2	1013843	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744480.2	1013844	2.2	2.58	-14.73%	0033A	
9/6/1997	Sead-12	A	744483.2	1013844	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744486.2	1013844	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744489.2	1013844	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744492.2	1013844	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744495.2	1013844	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744498.2	1013844	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744501.2	1013844	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744504.2	1013845	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744507.2	1013845	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744510.2	1013845	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744513.2	1013845	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744516.2	1013845	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744519.1	1013845	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744522.1	1013845	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744525.1	1013846	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744528.1	1013846	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744531.1	1013846	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744534.1	1013846	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744537.1	1013846	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744540.1	1013846	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744543.1	1013846	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744546.1	1013846	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744549.1	1013847	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744552.1	1013847	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744555.1	1013847	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744558.1	1013847	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744561.1	1013847	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744564.1	1013847	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744567.1	1013847	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744570.1	1013848	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744573.1	1013848	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744576.1	1013848	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744579.1	1013848	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744582.1	1013848	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744585.1	1013848	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744588.1	1013848	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744591.1	1013848	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744594.1	1013849	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744597.1	1013849	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744600.1	1013849	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744603.1	1013849	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744606.1	1013849	2.8	2.58	8.53%	0033A	
9/6/1997	Sead-12	A	744609.1	1013849	2.79	2.58	8.14%	0033A	
9/6/1997	Sead-12	A	744612.1	1013849	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744615.1	1013849	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744618.1	1013850	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744621.1	1013850	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744624.1	1013850	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744627.1	1013850	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744630.1	1013850	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744633.1	1013850	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744636.1	1013850	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744639.1	1013851	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744642.1	1013851	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744645.1	1013851	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744648.1	1013851	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744651	1013851	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744654	1013851	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744657	1013851	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744660	1013851	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744663	1013852	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744666	1013852	2.6	2.58	0.78%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744669	1013852	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744672	1013852	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744675	1013852	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744678	1013852	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744681	1013852	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744684	1013852	2.8	2.58	8.53%	0033A	
9/6/1997	Sead-12	A	744687	1013853	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744690	1013853	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744693	1013853	2.655	2.58	2.91%	0033A	
9/6/1997	Sead-12	A	744696	1013853	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744699	1013853	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744702	1013853	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744705	1013853	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744708	1013854	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744711	1013854	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744459.1	1013846	2.22	2.58	-13.95%	0033A	
9/6/1997	Sead-12	A	744462.1	1013846	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744465.1	1013846	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744468.1	1013846	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744471.1	1013846	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744474.1	1013846	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744477.1	1013846	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744480.1	1013846	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744483.1	1013847	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744486.1	1013847	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744489.1	1013847	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744492.1	1013847	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744495.1	1013847	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744498.1	1013847	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744501.1	1013847	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744504.1	1013847	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744507.1	1013848	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744510.1	1013848	2.48	2.58	-3.88%	0033A	
9/6/1997	Sead-12	A	744513.1	1013848	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744516.1	1013848	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744519	1013848	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744522	1013848	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744525	1013848	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744528	1013849	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744531	1013849	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744534	1013849	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744537	1013849	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744540	1013849	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744543	1013849	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744546	1013849	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744549	1013849	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744552	1013850	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744555	1013850	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744558	1013850	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744561	1013850	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744564	1013850	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744567	1013850	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744570	1013850	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744573	1013851	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744576	1013851	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744579	1013851	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744582	1013851	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744584.9	1013851	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744587.9	1013851	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744590.9	1013851	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744593.9	1013851	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744596.9	1013852	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744599.9	1013852	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744602.9	1013852	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744605.9	1013852	2.81	2.58	8.91%	0033A	
9/6/1997	Sead-12	A	744608.9	1013852	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744611.9	1013852	2.76	2.58	6.98%	0033A	
9/6/1997	Sead-12	A	744614.9	1013852	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744617.9	1013852	2.72	2.58	5.43%	0033A	
9/6/1997	Sead-12	A	744620.9	1013853	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744623.9	1013853	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744626.9	1013853	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744629.9	1013853	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744632.9	1013853	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744635.9	1013853	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744638.9	1013853	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744641.9	1013854	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744644.9	1013854	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744647.9	1013854	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744650.9	1013854	2.46	2.58	-4.65%	0033A	



Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744653.9	1013854	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744656.9	1013854	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744659.9	1013854	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744662.9	1013854	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744665.9	1013855	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744668.9	1013855	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744671.9	1013855	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744674.9	1013855	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744677.9	1013855	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744680.9	1013855	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744683.9	1013855	2.78	2.58	7.75%	0033A	
9/6/1997	Sead-12	A	744686.9	1013855	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744689.9	1013856	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744692.9	1013856	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744695.9	1013856	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744698.9	1013856	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744701.9	1013856	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744704.9	1013856	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744707.9	1013856	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744710.9	1013857	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744458.9	1013848	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744461.9	1013849	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744464.9	1013849	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744467.9	1013849	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744470.9	1013849	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744473.9	1013849	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744476.9	1013849	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744479.9	1013849	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744482.9	1013849	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744485.9	1013850	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744488.9	1013850	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744491.9	1013850	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744494.9	1013850	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744497.9	1013850	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744500.9	1013850	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744503.9	1013850	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744506.9	1013850	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744509.9	1013851	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744512.9	1013851	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744515.9	1013851	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744518.9	1013851	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744521.9	1013851	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744524.9	1013851	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744527.9	1013851	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744530.9	1013852	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744533.9	1013852	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744536.9	1013852	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744539.9	1013852	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744542.9	1013852	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744545.9	1013852	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744548.9	1013852	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744551.9	1013852	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744554.9	1013853	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744557.9	1013853	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744560.9	1013853	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744563.9	1013853	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744566.9	1013853	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744569.9	1013853	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744572.9	1013853	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744575.9	1013854	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744578.9	1013854	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744581.9	1013854	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744584.8	1013854	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744587.8	1013854	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744590.8	1013854	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744593.8	1013854	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744596.8	1013854	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744599.8	1013855	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744602.8	1013855	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744605.8	1013855	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744608.8	1013855	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744611.8	1013855	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744614.8	1013855	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744617.8	1013855	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744620.8	1013855	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744623.8	1013856	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744626.8	1013856	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744629.8	1013856	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744632.8	1013856	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744635.8	1013856	2.71	2.58	5.04%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744638.8	1013856	2.72	2.58	5.43%	0033A	
9/6/1997	Sead-12	A	744641.8	1013856	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744644.8	1013857	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744647.8	1013857	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744650.8	1013857	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744653.8	1013857	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744656.8	1013857	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744659.8	1013857	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744662.8	1013857	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744665.8	1013857	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744668.8	1013858	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744671.8	1013858	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744674.8	1013858	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744677.8	1013858	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744680.8	1013858	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744683.8	1013858	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744686.8	1013858	2.75	2.58	6.59%	0033A	
9/6/1997	Sead-12	A	744689.8	1013858	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744692.8	1013859	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744695.8	1013859	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744698.8	1013859	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744701.8	1013859	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744704.8	1013859	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744707.8	1013859	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744710.8	1013859	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744458.8	1013851	2.28	2.58	-11.63%	0033A	
9/6/1997	Sead-12	A	744461.8	1013851	2.4	2.58	-6.98%	0033A	
9/6/1997	Sead-12	A	744464.8	1013852	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744467.8	1013852	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744470.8	1013852	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744473.8	1013852	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744476.8	1013852	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744479.8	1013852	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744482.8	1013852	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744485.8	1013852	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744488.8	1013853	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744491.8	1013853	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744494.8	1013853	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744497.8	1013853	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744500.8	1013853	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744503.8	1013853	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744506.8	1013853	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744509.8	1013853	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744512.8	1013854	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744515.8	1013854	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744518.8	1013854	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744521.8	1013854	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744524.8	1013854	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744527.8	1013854	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744530.8	1013854	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744533.8	1013855	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744536.8	1013855	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744539.8	1013855	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744542.8	1013855	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744545.8	1013855	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744548.8	1013855	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744551.8	1013855	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744554.8	1013855	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744557.8	1013856	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744560.8	1013856	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744563.8	1013856	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744566.8	1013856	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744569.8	1013856	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744572.8	1013856	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744575.8	1013856	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744578.8	1013857	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744581.7	1013857	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744584.7	1013857	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744587.7	1013857	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744590.7	1013857	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744593.7	1013857	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744596.7	1013857	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744599.7	1013857	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744602.7	1013858	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744605.7	1013858	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744608.7	1013858	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744611.7	1013858	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744614.7	1013858	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744617.7	1013858	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744620.7	1013858	2.76	2.58	6.98%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744623.7	1013858	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744626.7	1013859	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744629.7	1013859	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744632.7	1013859	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744635.7	1013859	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744638.7	1013859	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744641.7	1013859	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744644.7	1013859	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744647.6	1013860	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744650.6	1013860	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744653.6	1013860	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744656.6	1013860	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744659.6	1013860	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744662.6	1013860	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744665.6	1013860	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744668.6	1013860	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744671.6	1013861	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744674.6	1013861	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744677.6	1013861	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744680.6	1013861	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744683.6	1013861	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744686.6	1013861	2.77	2.58	7.36%	0033A	
9/6/1997	Sead-12	A	744689.6	1013861	2.72	2.58	5.43%	0033A	
9/6/1997	Sead-12	A	744692.6	1013861	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744695.6	1013862	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744698.6	1013862	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744701.6	1013862	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744704.6	1013862	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744707.6	1013862	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744710.6	1013862	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744458.7	1013854	2.37	2.58	-8.14%	0033A	
9/6/1997	Sead-12	A	744461.7	1013854	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744464.7	1013854	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744467.7	1013855	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744470.7	1013855	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744473.7	1013855	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744476.7	1013855	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744479.7	1013855	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744482.7	1013855	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744485.7	1013855	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744488.7	1013855	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744491.7	1013856	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744494.7	1013856	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744497.7	1013856	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744500.7	1013856	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744503.7	1013856	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744506.7	1013856	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744509.7	1013856	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744512.7	1013856	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744515.6	1013857	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744518.6	1013857	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744521.6	1013857	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744524.6	1013857	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744527.6	1013857	2.6	2.58	0.78%	0033A	
9/6/1997	Sead-12	A	744530.6	1013857	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744533.6	1013857	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744536.6	1013858	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744539.6	1013858	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744542.6	1013858	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744545.6	1013858	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744548.6	1013858	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744551.6	1013858	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744554.6	1013858	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744557.6	1013858	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744560.6	1013859	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744563.6	1013859	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744566.6	1013859	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744569.6	1013859	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744572.6	1013859	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744575.6	1013859	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744578.6	1013859	2.74	2.58	6.20%	0033A	
9/6/1997	Sead-12	A	744581.6	1013860	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744584.6	1013860	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744587.6	1013860	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744590.6	1013860	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744593.6	1013860	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744596.6	1013860	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744599.6	1013860	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744602.6	1013860	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744605.6	1013861	2.6	2.58	0.78%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744608.6	1013861	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744611.6	1013861	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744614.6	1013861	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744617.6	1013861	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744620.6	1013861	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744623.6	1013861	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744626.6	1013861	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744629.6	1013862	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744632.6	1013862	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744635.6	1013862	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744638.6	1013862	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744641.6	1013862	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744644.6	1013862	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744647.5	1013862	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744650.5	1013863	2.43	2.58	-5.81%	0033A	
9/6/1997	Sead-12	A	744653.5	1013863	2.42	2.58	-6.20%	0033A	
9/6/1997	Sead-12	A	744656.5	1013863	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744659.5	1013863	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744662.5	1013863	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744665.5	1013863	2.34	2.58	-9.30%	0033A	
9/6/1997	Sead-12	A	744668.5	1013863	2.41	2.58	-6.59%	0033A	
9/6/1997	Sead-12	A	744671.5	1013863	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744674.5	1013864	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744677.5	1013864	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744680.5	1013864	2.62	2.58	1.55%	0033A	
9/6/1997	Sead-12	A	744683.5	1013864	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744686.5	1013864	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744689.5	1013864	2.66	2.58	3.10%	0033A	
9/6/1997	Sead-12	A	744692.5	1013864	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744695.5	1013864	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744698.5	1013865	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744701.5	1013865	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744704.5	1013865	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744707.5	1013865	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744710.5	1013865	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744713.4	1013865	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744458.6	1013857	2.28	2.58	-11.63%	0033A	
9/6/1997	Sead-12	A	744461.6	1013857	2.47	2.58	-4.26%	0033A	
9/6/1997	Sead-12	A	744464.6	1013857	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744467.6	1013857	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744470.6	1013858	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744473.6	1013858	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744476.6	1013858	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744479.6	1013858	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744482.6	1013858	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744485.6	1013858	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744488.6	1013858	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744491.6	1013858	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744494.6	1013859	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744497.6	1013859	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744500.6	1013859	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744503.6	1013859	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744506.6	1013859	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744509.6	1013859	2.45	2.58	-5.04%	0033A	
9/6/1997	Sead-12	A	744512.6	1013859	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744515.5	1013859	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744518.5	1013860	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744521.5	1013860	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744524.5	1013860	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744527.5	1013860	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744530.5	1013860	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744533.5	1013860	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744536.5	1013860	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744539.5	1013861	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744542.5	1013861	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744545.5	1013861	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744548.5	1013861	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744551.5	1013861	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744554.5	1013861	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744557.5	1013861	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744560.5	1013861	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744563.5	1013862	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744566.5	1013862	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744569.5	1013862	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744572.5	1013862	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744575.5	1013862	2.71	2.58	5.04%	0033A	
9/6/1997	Sead-12	A	744578.5	1013862	2.7	2.58	4.65%	0033A	
9/6/1997	Sead-12	A	744581.4	1013862	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744584.4	1013863	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744587.4	1013863	2.58	2.58	0.00%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument (s/n)	Comments
			Easting	Northing					
9/6/1997	Sead-12	A	744590.4	1013863	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744593.4	1013863	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744596.4	1013863	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744599.4	1013863	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744602.4	1013863	2.58	2.58	0.00%	0033A	
9/6/1997	Sead-12	A	744605.4	1013863	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744608.4	1013864	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744611.4	1013864	2.56	2.58	-0.78%	0033A	
9/6/1997	Sead-12	A	744614.4	1013864	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744617.4	1013864	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744620.4	1013864	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744623.4	1013864	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744626.4	1013864	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744629.4	1013864	2.63	2.58	1.94%	0033A	
9/6/1997	Sead-12	A	744632.4	1013865	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744635.4	1013865	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744638.4	1013865	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744641.4	1013865	2.68	2.58	3.88%	0033A	
9/6/1997	Sead-12	A	744644.4	1013865	2.67	2.58	3.49%	0033A	
9/6/1997	Sead-12	A	744647.4	1013865	2.64	2.58	2.33%	0033A	
9/6/1997	Sead-12	A	744650.4	1013865	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744653.4	1013866	2.38	2.58	-7.75%	0033A	
9/6/1997	Sead-12	A	744656.4	1013866	2.32	2.58	-10.08%	0033A	
9/6/1997	Sead-12	A	744659.4	1013866	2.33	2.58	-9.69%	0033A	
9/6/1997	Sead-12	A	744662.4	1013866	2.35	2.58	-8.91%	0033A	
9/6/1997	Sead-12	A	744665.4	1013866	2.39	2.58	-7.36%	0033A	
9/6/1997	Sead-12	A	744668.4	1013866	2.44	2.58	-5.43%	0033A	
9/6/1997	Sead-12	A	744671.4	1013866	2.55	2.58	-1.16%	0033A	
9/6/1997	Sead-12	A	744674.4	1013866	2.57	2.58	-0.39%	0033A	
9/6/1997	Sead-12	A	744677.4	1013867	2.59	2.58	0.39%	0033A	
9/6/1997	Sead-12	A	744680.4	1013867	2.65	2.58	2.71%	0033A	
9/6/1997	Sead-12	A	744683.4	1013867	2.73	2.58	5.81%	0033A	
9/6/1997	Sead-12	A	744686.4	1013867	2.69	2.58	4.26%	0033A	
9/6/1997	Sead-12	A	744689.4	1013867	2.61	2.58	1.16%	0033A	
9/6/1997	Sead-12	A	744692.4	1013867	2.53	2.58	-1.94%	0033A	
9/6/1997	Sead-12	A	744695.4	1013867	2.54	2.58	-1.55%	0033A	
9/6/1997	Sead-12	A	744698.4	1013867	2.46	2.58	-4.65%	0033A	
9/6/1997	Sead-12	A	744701.4	1013868	2.51	2.58	-2.71%	0033A	
9/6/1997	Sead-12	A	744704.4	1013868	2.5	2.58	-3.10%	0033A	
9/6/1997	Sead-12	A	744707.4	1013868	2.49	2.58	-3.49%	0033A	
9/6/1997	Sead-12	A	744710.4	1013868	2.52	2.58	-2.33%	0033A	
9/6/1997	Sead-12	A	744713.3	1013868	2.47	2.58	-4.26%	0033A	
9/7/1997	Sead-12	A	744458.4	1013860	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744461.4	1013860	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744464.4	1013860	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744467.4	1013860	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744470.4	1013860	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744473.4	1013861	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744476.4	1013861	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744479.4	1013861	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744482.4	1013861	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744485.4	1013861	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744488.4	1013861	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744491.4	1013861	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744494.4	1013861	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744497.4	1013862	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744500.4	1013862	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744503.4	1013862	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744506.4	1013862	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744509.4	1013862	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744512.4	1013862	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744515.4	1013862	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744518.4	1013862	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744521.4	1013863	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744524.4	1013863	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744527.4	1013863	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744530.4	1013863	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744533.4	1013863	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744536.4	1013863	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744539.4	1013863	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744542.4	1013864	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744545.4	1013864	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744548.4	1013864	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744551.4	1013864	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744554.4	1013864	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744557.4	1013864	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744560.4	1013864	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744563.4	1013864	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744566.4	1013865	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744569.4	1013865	2.45	2.66	-7.89%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744572.4	1013865	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744575.4	1013865	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744578.4	1013865	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744581.3	1013865	2.5	2.68	-6.02%	0033A	
9/7/1997	Sead-12	A	744584.3	1013865	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744587.3	1013866	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744590.3	1013866	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744593.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744596.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744599.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744602.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744605.3	1013866	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744608.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744611.3	1013867	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744614.3	1013867	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744617.3	1013867	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744620.3	1013867	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744623.3	1013867	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744626.3	1013867	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744629.3	1013867	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744632.3	1013867	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744635.3	1013868	2.23	2.66	-16.17%	0033A	
9/7/1997	Sead-12	A	744638.3	1013868	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744641.3	1013868	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744644.3	1013868	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744647.3	1013868	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744650.3	1013868	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744653.3	1013868	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744656.3	1013869	2.18	2.66	-18.05%	0033A	
9/7/1997	Sead-12	A	744659.3	1013869	2.21	2.66	-16.92%	0033A	
9/7/1997	Sead-12	A	744662.3	1013869	2.21	2.66	-16.92%	0033A	
9/7/1997	Sead-12	A	744665.3	1013869	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744668.3	1013869	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744671.3	1013869	2.24	2.66	-15.79%	0033A	
9/7/1997	Sead-12	A	744674.3	1013869	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744677.3	1013869	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744680.3	1013870	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744683.3	1013870	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744686.3	1013870	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744689.3	1013870	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744692.3	1013870	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744695.3	1013870	2.13	2.66	-19.92%	0033A	
9/7/1997	Sead-12	A	744698.3	1013870	2.13	2.66	-19.92%	0033A	
9/7/1997	Sead-12	A	744701.3	1013870	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744704.3	1013871	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744707.3	1013871	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744710.2	1013871	2.06	2.66	-22.56%	0033A	
9/7/1997	Sead-12	A	744458.3	1013863	2.18	2.66	-18.05%	0033A	
9/7/1997	Sead-12	A	744461.3	1013863	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744464.3	1013863	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744467.3	1013863	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744470.3	1013863	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744473.3	1013863	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744476.3	1013864	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744479.3	1013864	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744482.3	1013864	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744485.3	1013864	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744488.3	1013864	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744491.3	1013864	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744494.3	1013864	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744497.3	1013864	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744500.3	1013865	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744503.3	1013865	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744506.3	1013865	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744509.3	1013865	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744512.3	1013865	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744515.3	1013865	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744518.3	1013865	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744521.3	1013865	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744524.3	1013866	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744527.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744530.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744533.3	1013866	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744536.3	1013866	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744539.3	1013866	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744542.3	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744545.3	1013867	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744548.3	1013867	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744551.3	1013867	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744554.3	1013867	2.45	2.66	-7.89%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744557.3	1013867	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744560.3	1013867	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744563.3	1013867	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744566.3	1013867	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744569.3	1013868	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744572.3	1013868	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744575.3	1013868	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744578.3	1013868	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744581.2	1013868	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744584.2	1013868	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744587.2	1013868	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744590.2	1013869	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744593.2	1013869	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744596.2	1013869	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744599.2	1013869	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744602.2	1013869	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744605.2	1013869	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744608.2	1013869	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744611.2	1013869	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744614.2	1013870	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744617.2	1013870	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744620.2	1013870	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744623.2	1013870	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744626.2	1013870	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744629.2	1013870	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744632.2	1013870	2.24	2.66	-15.79%	0033A	
9/7/1997	Sead-12	A	744635.2	1013870	2.23	2.66	-16.17%	0033A	
9/7/1997	Sead-12	A	744638.2	1013871	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744641.2	1013871	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744644.1	1013871	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744647.1	1013871	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744650.1	1013871	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744653.1	1013871	2.21	2.66	-16.92%	0033A	
9/7/1997	Sead-12	A	744656.1	1013871	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744659.1	1013872	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744662.1	1013872	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744665.1	1013872	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744668.1	1013872	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744671.1	1013872	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744674.1	1013872	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744677.1	1013872	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744680.1	1013872	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744683.1	1013873	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744686.1	1013873	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744689.1	1013873	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744692.1	1013873	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744695.1	1013873	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744698.1	1013873	2.16	2.66	-18.80%	0033A	
9/7/1997	Sead-12	A	744701.1	1013873	2.18	2.66	-18.05%	0033A	
9/7/1997	Sead-12	A	744704.1	1013873	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744707.1	1013874	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744710.1	1013874	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744713.1	1013874	2.03	2.66	-23.68%	0033A	
9/7/1997	Sead-12	A	744458.2	1013866	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744461.2	1013866	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744464.2	1013866	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744467.2	1013866	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744470.2	1013866	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744473.2	1013866	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744476.2	1013866	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744479.2	1013867	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744482.2	1013867	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744485.2	1013867	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744488.2	1013867	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744491.2	1013867	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744494.2	1013867	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744497.2	1013867	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744500.2	1013867	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744503.2	1013868	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744506.2	1013868	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744509.2	1013868	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744512.2	1013868	2.23	2.66	-16.17%	0033A	
9/7/1997	Sead-12	A	744515.1	1013868	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744518.1	1013868	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744521.1	1013868	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744524.1	1013868	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744527.1	1013869	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744530.1	1013869	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744533.1	1013869	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744536.1	1013869	2.43	2.66	-8.65%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744539.1	1013869	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744542.1	1013869	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744545.1	1013869	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744548.1	1013870	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744551.1	1013870	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744554.1	1013870	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744557.1	1013870	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744560.1	1013870	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744563.1	1013870	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744566.1	1013870	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744569.1	1013870	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744572.1	1013871	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744575.1	1013871	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744578.1	1013871	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744581.1	1013871	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744584.1	1013871	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744587.1	1013871	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744590.1	1013871	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744593.1	1013871	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744596.1	1013872	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744599.1	1013872	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744602.1	1013872	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744605.1	1013872	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744608.1	1013872	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744611.1	1013872	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744614.1	1013872	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744617.1	1013873	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744620.1	1013873	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744623.1	1013873	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744626.1	1013873	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744629.1	1013873	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744632.1	1013873	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744635.1	1013873	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744638.1	1013873	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744641.1	1013874	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744644	1013874	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744647	1013874	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744650	1013874	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744653	1013874	2.19	2.66	-17.67%	0033A	
9/7/1997	Sead-12	A	744656	1013874	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744659	1013874	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744662	1013875	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744665	1013875	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744668	1013875	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744671	1013875	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744674	1013875	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744677	1013875	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744680	1013875	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744683	1013875	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744686	1013876	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744689	1013876	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744692	1013876	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744695	1013876	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744698	1013876	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744701	1013876	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744704	1013876	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744707	1013876	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744709.9	1013877	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744712.9	1013877	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744458.1	1013868	2.07	2.66	-22.18%	0033A	
9/7/1997	Sead-12	A	744461.1	1013869	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744464.1	1013869	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744467.1	1013869	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744470.1	1013869	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744473.1	1013869	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744476.1	1013869	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744479.1	1013869	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744482.1	1013870	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744485.1	1013870	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744488.1	1013870	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744491.1	1013870	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744494.1	1013870	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744497.1	1013870	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744500.1	1013870	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744503.1	1013870	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744506.1	1013871	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744509.1	1013871	2.24	2.66	-15.79%	0033A	
9/7/1997	Sead-12	A	744512.1	1013871	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744515	1013871	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744518	1013871	2.3	2.66	-13.53%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744521	1013871	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744524	1013871	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744527	1013871	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744530	1013872	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744533	1013872	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744536	1013872	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744539	1013872	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744542	1013872	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744545	1013872	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744548	1013872	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744551	1013873	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744554	1013873	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744557	1013873	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744560	1013873	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744563	1013873	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744566	1013873	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744569	1013873	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744572	1013873	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744575	1013874	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744577.9	1013874	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744580.9	1013874	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744583.9	1013874	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744586.9	1013874	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744589.9	1013874	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744592.9	1013874	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744595.9	1013874	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744598.9	1013875	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744601.9	1013875	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744604.9	1013875	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744607.9	1013875	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744610.9	1013875	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744613.9	1013875	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744616.9	1013875	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744619.9	1013876	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744622.9	1013876	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744625.9	1013876	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744628.9	1013876	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744631.9	1013876	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744634.9	1013876	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744637.9	1013876	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744640.9	1013876	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744643.9	1013877	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744646.9	1013877	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744649.9	1013877	2.19	2.66	-17.67%	0033A	
9/7/1997	Sead-12	A	744652.9	1013877	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744655.9	1013877	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744658.9	1013877	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744661.9	1013877	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744664.9	1013878	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744667.9	1013878	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744670.9	1013878	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744673.9	1013878	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744676.9	1013878	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744679.9	1013878	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744682.9	1013878	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744685.9	1013878	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744688.9	1013879	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744691.9	1013879	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744694.9	1013879	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744697.9	1013879	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744700.9	1013879	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744703.9	1013879	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744706.9	1013879	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744709.8	1013879	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744712.8	1013880	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744457.9	1013871	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744460.9	1013871	2.21	2.66	-16.92%	0033A	
9/7/1997	Sead-12	A	744463.9	1013872	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744466.9	1013872	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744469.9	1013872	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744472.9	1013872	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744475.9	1013872	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744478.9	1013872	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744481.9	1013872	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744484.9	1013873	2.48	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744487.9	1013873	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744490.9	1013873	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744493.9	1013873	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744496.9	1013873	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744499.9	1013873	2.42	2.66	-9.02%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744502.9	1013873	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744505.9	1013873	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744508.9	1013874	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744511.9	1013874	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744514.9	1013874	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744517.9	1013874	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744520.9	1013874	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744523.9	1013874	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744526.9	1013874	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744529.9	1013874	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744532.9	1013875	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744535.9	1013875	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744538.9	1013875	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744541.9	1013875	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744544.9	1013875	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744547.9	1013875	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744550.9	1013875	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744553.9	1013876	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744556.9	1013876	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744559.9	1013876	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744562.9	1013876	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744565.9	1013876	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744568.9	1013876	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744571.9	1013876	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744574.9	1013876	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744577.8	1013877	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744580.8	1013877	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744583.8	1013877	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744586.8	1013877	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744589.8	1013877	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744592.8	1013877	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744595.8	1013877	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744598.8	1013877	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744601.8	1013878	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744604.8	1013878	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744607.8	1013878	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744610.8	1013878	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744613.8	1013878	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744616.8	1013878	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744619.8	1013878	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744622.8	1013879	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744825.8	1013879	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744628.8	1013879	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744631.8	1013879	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744634.8	1013879	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744637.8	1013879	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744640.8	1013879	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744643.8	1013879	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744646.8	1013880	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744649.8	1013880	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744652.8	1013880	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744655.8	1013880	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744658.8	1013880	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744661.8	1013880	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744664.8	1013880	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744667.8	1013881	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744670.8	1013881	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744673.8	1013881	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744676.8	1013881	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744679.8	1013881	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744682.8	1013881	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744685.8	1013881	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744688.8	1013881	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744691.8	1013882	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744694.8	1013882	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744697.8	1013882	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744700.8	1013882	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744703.8	1013882	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744706.8	1013882	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744709.7	1013882	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744457.8	1013874	2.13	2.66	-19.92%	0033A	
9/7/1997	Sead-12	A	744460.8	1013874	2.19	2.66	-17.67%	0033A	
9/7/1997	Sead-12	A	744463.8	1013874	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744466.8	1013875	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744469.8	1013875	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744472.8	1013875	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744475.8	1013875	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744478.8	1013875	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744481.8	1013875	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744484.8	1013875	2.5	2.66	-6.02%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744487.8	1013876	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744490.8	1013876	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744493.8	1013876	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744496.8	1013876	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744499.8	1013876	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744502.8	1013876	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744505.8	1013876	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744508.8	1013876	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744511.8	1013877	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744514.8	1013877	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744517.8	1013877	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744520.8	1013877	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744523.8	1013877	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744526.8	1013877	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744529.8	1013877	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744532.8	1013877	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744535.8	1013878	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744538.8	1013878	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744541.8	1013878	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744544.8	1013878	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744547.8	1013878	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744550.8	1013878	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744553.8	1013878	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744556.8	1013879	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744559.8	1013879	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744562.8	1013879	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744565.8	1013879	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744568.8	1013879	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744571.8	1013879	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744574.8	1013879	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744577.7	1013879	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744580.7	1013880	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744583.7	1013880	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744586.7	1013880	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744589.7	1013880	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744592.7	1013880	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744595.7	1013880	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744598.7	1013880	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744601.7	1013880	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744604.7	1013881	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744607.7	1013881	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744610.7	1013881	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744613.7	1013881	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744616.7	1013881	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744619.7	1013881	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744622.7	1013881	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744625.7	1013882	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744628.7	1013882	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744631.7	1013882	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744634.7	1013882	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744637.7	1013882	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744640.7	1013882	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744643.6	1013882	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744646.6	1013882	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744649.6	1013883	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744652.6	1013883	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744655.6	1013883	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744658.6	1013883	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744661.6	1013883	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744664.6	1013883	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744667.6	1013883	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744670.6	1013884	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744673.6	1013884	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744676.6	1013884	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744679.6	1013884	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744682.6	1013884	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744685.6	1013884	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744688.6	1013884	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744691.6	1013884	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744694.6	1013885	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744697.6	1013885	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744700.6	1013885	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744703.6	1013885	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744706.6	1013885	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744709.6	1013885	2.15	2.66	-19.17%	0033A	
9/7/1997	Sead-12	A	744457.7	1013877	2.06	2.66	-22.56%	0033A	
9/7/1997	Sead-12	A	744460.7	1013877	2.16	2.66	-18.80%	0033A	
9/7/1997	Sead-12	A	744463.7	1013877	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744466.7	1013877	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744469.7	1013878	2.56	2.66	-3.76%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744472.7	1013878	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744475.7	1013878	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744478.7	1013878	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744481.7	1013878	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744484.7	1013878	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744487.7	1013878	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744490.7	1013879	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744493.7	1013879	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744496.7	1013879	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744499.7	1013879	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744502.7	1013879	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744505.7	1013879	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744508.7	1013879	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744511.6	1013879	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744514.6	1013880	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744517.6	1013880	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744520.6	1013880	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744523.6	1013880	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744526.6	1013880	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744529.6	1013880	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744532.6	1013880	2.77	2.66	4.14%	0033A	
9/7/1997	Sead-12	A	744535.6	1013880	2.8	2.66	5.26%	0033A	
9/7/1997	Sead-12	A	744538.6	1013881	2.72	2.66	2.26%	0033A	
9/7/1997	Sead-12	A	744541.6	1013881	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744544.6	1013881	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744547.6	1013881	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744550.6	1013881	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744553.6	1013881	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744556.6	1013881	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744559.6	1013882	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744562.6	1013882	2.73	2.66	2.63%	0033A	
9/7/1997	Sead-12	A	744565.6	1013882	2.75	2.66	3.38%	0033A	
9/7/1997	Sead-12	A	744568.6	1013882	2.8	2.66	5.26%	0033A	
9/7/1997	Sead-12	A	744571.6	1013882	2.95	2.66	10.90%	0033A	
9/7/1997	Sead-12	A	744574.6	1013882	2.94	2.66	10.53%	0033A	
9/7/1997	Sead-12	A	744577.6	1013882	2.83	2.66	6.39%	0033A	
9/7/1997	Sead-12	A	744580.6	1013882	2.86	2.66	7.52%	0033A	
9/7/1997	Sead-12	A	744583.6	1013883	2.81	2.66	5.64%	0033A	
9/7/1997	Sead-12	A	744586.6	1013883	2.82	2.66	6.02%	0033A	
9/7/1997	Sead-12	A	744589.6	1013883	2.78	2.66	4.51%	0033A	
9/7/1997	Sead-12	A	744592.8	1013883	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744595.6	1013883	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744598.6	1013883	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744601.6	1013883	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744604.6	1013883	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744607.6	1013884	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744610.6	1013884	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744613.6	1013884	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744616.6	1013884	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744619.6	1013884	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744622.6	1013884	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744625.6	1013884	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744628.6	1013885	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744631.6	1013885	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744634.6	1013885	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744637.6	1013885	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744640.6	1013885	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744643.5	1013885	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744646.5	1013885	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744649.5	1013885	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744652.5	1013886	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744655.5	1013886	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744658.5	1013886	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744661.5	1013886	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744664.5	1013886	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744667.5	1013886	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744670.5	1013886	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744673.5	1013887	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744676.5	1013887	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744679.5	1013887	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744682.5	1013887	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744685.5	1013887	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744688.5	1013887	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744691.5	1013887	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744694.5	1013887	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744697.5	1013888	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744700.5	1013888	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744703.5	1013888	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744706.4	1013888	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744457.6	1013880	2	2.66	-24.81%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744460.6	1013880	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744463.6	1013880	2.24	2.66	-15.79%	0033A	
9/7/1997	Sead-12	A	744466.6	1013880	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744469.6	1013880	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744472.6	1013881	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744475.6	1013881	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744478.6	1013881	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744481.6	1013881	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744484.6	1013881	2.69	2.66	1.13%	0033A	
9/7/1997	Sead-12	A	744487.6	1013881	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744490.6	1013881	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744493.6	1013882	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744496.6	1013882	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744499.6	1013882	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744502.6	1013882	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744505.6	1013882	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744508.6	1013882	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744511.5	1013882	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744514.5	1013882	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744517.5	1013883	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744520.5	1013883	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744523.5	1013883	2.69	2.66	1.13%	0033A	
9/7/1997	Sead-12	A	744526.5	1013883	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744529.5	1013883	2.74	2.66	3.01%	0033A	
9/7/1997	Sead-12	A	744532.5	1013883	2.77	2.66	4.14%	0033A	
9/7/1997	Sead-12	A	744535.5	1013883	2.79	2.66	4.89%	0033A	
9/7/1997	Sead-12	A	744538.5	1013883	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744541.5	1013884	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744544.5	1013884	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744547.5	1013884	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744550.5	1013884	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744553.5	1013884	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744556.5	1013884	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744559.5	1013884	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744562.5	1013885	2.78	2.66	4.51%	0033A	
9/7/1997	Sead-12	A	744565.5	1013885	2.8	2.66	5.26%	0033A	
9/7/1997	Sead-12	A	744568.5	1013885	2.81	2.66	5.64%	0033A	
9/7/1997	Sead-12	A	744571.5	1013885	2.91	2.66	9.40%	0033A	
9/7/1997	Sead-12	A	744574.5	1013885	2.87	2.66	7.89%	0033A	
9/7/1997	Sead-12	A	744577.4	1013885	2.84	2.66	6.77%	0033A	
9/7/1997	Sead-12	A	744580.4	1013885	2.85	2.66	7.14%	0033A	
9/7/1997	Sead-12	A	744583.4	1013885	2.82	2.66	6.02%	0033A	
9/7/1997	Sead-12	A	744586.4	1013886	2.83	2.66	6.39%	0033A	
9/7/1997	Sead-12	A	744589.4	1013886	2.76	2.66	3.76%	0033A	
9/7/1997	Sead-12	A	744592.4	1013886	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744595.4	1013886	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744598.4	1013886	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744601.4	1013886	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744604.4	1013886	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744607.4	1013886	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744610.4	1013887	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744613.4	1013887	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744616.4	1013887	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744619.4	1013887	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744622.4	1013887	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744625.4	1013887	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744628.4	1013887	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744631.4	1013888	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744634.4	1013888	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744637.4	1013888	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744640.4	1013888	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744643.4	1013888	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744646.4	1013888	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744649.4	1013888	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744652.4	1013888	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744655.4	1013889	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744658.4	1013889	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744661.4	1013889	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744664.4	1013889	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744667.4	1013889	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744670.4	1013889	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744673.4	1013889	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744676.4	1013890	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744679.4	1013890	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744682.4	1013890	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744685.4	1013890	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744688.4	1013890	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744691.4	1013890	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744694.4	1013890	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744697.4	1013890	2.32	2.66	-12.78%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744700.4	1013891	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744703.4	1013891	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744706.3	1013891	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744709.3	1013891	2.06	2.66	-22.56%	0033A	
9/7/1997	Sead-12	A	744457.4	1013883	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744460.4	1013883	2.19	2.66	-17.67%	0033A	
9/7/1997	Sead-12	A	744463.4	1013883	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744466.4	1013883	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744469.4	1013883	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744472.4	1013883	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744475.4	1013884	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744478.4	1013884	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744481.4	1013884	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744484.4	1013884	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744487.4	1013884	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744490.4	1013884	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744493.4	1013884	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744496.4	1013885	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744499.4	1013885	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744502.4	1013885	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744505.4	1013885	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744508.4	1013885	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744511.4	1013885	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744514.4	1013885	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744517.4	1013885	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744520.4	1013886	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744523.4	1013886	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744526.4	1013886	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744529.4	1013886	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744532.4	1013886	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744535.4	1013886	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744538.4	1013886	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744541.4	1013886	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744544.4	1013887	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744547.4	1013887	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744550.4	1013887	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744553.4	1013887	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744556.4	1013887	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744559.4	1013887	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744562.4	1013887	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744565.4	1013888	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744568.4	1013888	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744571.4	1013888	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744574.3	1013888	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744577.3	1013888	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744580.3	1013888	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744583.3	1013888	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744586.3	1013888	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744589.3	1013889	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744592.3	1013889	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744595.3	1013889	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744598.3	1013889	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744601.3	1013889	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744604.3	1013889	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744607.3	1013889	2.69	2.66	1.13%	0033A	
9/7/1997	Sead-12	A	744610.3	1013889	2.69	2.66	1.13%	0033A	
9/7/1997	Sead-12	A	744613.3	1013890	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744616.3	1013890	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744619.3	1013890	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744622.3	1013890	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744625.3	1013890	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744628.3	1013890	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744631.3	1013890	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744634.3	1013891	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744637.3	1013891	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744640.3	1013891	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744643.3	1013891	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744646.3	1013891	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744649.3	1013891	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744652.3	1013891	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744655.3	1013891	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744658.3	1013892	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744661.3	1013892	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744664.3	1013892	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744667.3	1013892	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744670.3	1013892	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744673.3	1013892	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744676.3	1013892	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744679.3	1013893	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744682.3	1013893	2.28	2.66	-14.29%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744685.3	1013893	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744688.3	1013893	2.23	2.66	-16.17%	0033A	
9/7/1997	Sead-12	A	744691.3	1013893	2.19	2.66	-17.67%	0033A	
9/7/1997	Sead-12	A	744694.3	1013893	2.16	2.66	-18.80%	0033A	
9/7/1997	Sead-12	A	744697.3	1013893	2.16	2.66	-18.80%	0033A	
9/7/1997	Sead-12	A	744700.3	1013893	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744703.3	1013894	2.16	2.66	-18.80%	0033A	
9/7/1997	Sead-12	A	744706.2	1013894	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744457.3	1013886	2.09	2.66	-21.43%	0033A	
9/7/1997	Sead-12	A	744460.3	1013886	2.19	2.66	-17.67%	0033A	
9/7/1997	Sead-12	A	744463.3	1013886	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744466.3	1013886	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744469.3	1013886	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744472.3	1013886	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744475.3	1013886	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744478.3	1013887	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744481.3	1013887	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744484.3	1013887	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744487.3	1013887	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744490.3	1013887	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744493.3	1013887	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744496.3	1013887	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744499.3	1013888	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744502.3	1013888	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744505.3	1013888	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744508.3	1013888	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744511.3	1013888	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744514.3	1013888	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744517.3	1013888	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744520.3	1013888	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744523.3	1013889	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744526.3	1013889	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744529.3	1013889	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744532.3	1013889	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744535.3	1013889	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744538.3	1013889	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744541.3	1013889	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744544.3	1013889	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744547.3	1013890	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744550.3	1013890	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744553.3	1013890	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744556.3	1013890	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744559.3	1013890	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744562.3	1013890	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744565.3	1013890	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744568.3	1013891	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744571.3	1013891	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744574.2	1013891	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744577.2	1013891	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744580.2	1013891	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744583.2	1013891	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744586.2	1013891	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744589.2	1013891	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744592.2	1013892	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744595.2	1013892	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744598.2	1013892	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744601.2	1013892	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744604.2	1013892	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744607.2	1013892	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744610.2	1013892	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744613.2	1013892	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744616.2	1013893	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744619.2	1013893	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744622.2	1013893	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744625.2	1013893	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744628.2	1013893	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744631.2	1013893	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744634.2	1013893	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744637.2	1013894	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744640.1	1013894	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744643.1	1013894	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744646.1	1013894	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744649.1	1013894	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744652.1	1013894	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744655.1	1013894	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744658.1	1013894	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744661.1	1013895	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744664.1	1013895	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744667.1	1013895	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744670.1	1013895	2.43	2.66	-8.65%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744673.1	1013895	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744676.1	1013895	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744679.1	1013895	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744682.1	1013896	2.23	2.66	-16.17%	0033A	
9/7/1997	Sead-12	A	744685.1	1013896	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744688.1	1013896	2.15	2.66	-19.17%	0033A	
9/7/1997	Sead-12	A	744691.1	1013896	2.18	2.66	-18.05%	0033A	
9/7/1997	Sead-12	A	744694.1	1013896	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744697.1	1013896	2.12	2.66	-20.30%	0033A	
9/7/1997	Sead-12	A	744700.1	1013896	2.15	2.66	-19.17%	0033A	
9/7/1997	Sead-12	A	744703.1	1013896	2.17	2.66	-18.42%	0033A	
9/7/1997	Sead-12	A	744706.1	1013897	2.09	2.66	-21.43%	0033A	
9/7/1997	Sead-12	A	744709.1	1013897	2.08	2.66	-21.80%	0033A	
9/7/1997	Sead-12	A	744457.2	1013889	2	2.66	-24.81%	0033A	
9/7/1997	Sead-12	A	744460.2	1013889	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744463.2	1013889	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744466.2	1013889	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744469.2	1013889	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744472.2	1013889	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744475.2	1013889	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744478.2	1013889	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744481.2	1013890	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744484.2	1013890	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744487.2	1013890	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744490.2	1013890	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744493.2	1013890	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744496.2	1013890	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744499.2	1013890	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744502.2	1013891	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744505.2	1013891	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744508.1	1013891	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744511.1	1013891	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744514.1	1013891	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744517.1	1013891	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744520.1	1013891	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744523.1	1013891	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744526.1	1013892	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744529.1	1013892	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744532.1	1013892	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744535.1	1013892	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744538.1	1013892	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744541.1	1013892	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744544.1	1013892	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744547.1	1013892	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744550.1	1013893	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744553.1	1013893	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744556.1	1013893	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744559.1	1013893	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744562.1	1013893	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744565.1	1013893	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744568.1	1013893	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744571.1	1013894	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744574.1	1013894	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744577.1	1013894	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744580.1	1013894	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744583.1	1013894	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744586.1	1013894	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744589.1	1013894	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744592.1	1013894	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744595.1	1013895	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744598.1	1013895	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744601.1	1013895	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744604.1	1013895	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744607.1	1013895	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744610.1	1013895	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744613.1	1013895	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744616.1	1013895	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744619.1	1013896	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744622.1	1013896	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744625.1	1013896	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744628.1	1013896	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744631.1	1013896	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744634.1	1013896	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744637.1	1013896	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744640	1013897	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744643	1013897	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744646	1013897	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744649	1013897	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744652	1013897	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744655	1013897	2.27	2.66	-14.66%	0033A	



Appendix F  
Area A Gamma Scanning Results  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744658	1013897	2.24	2.66	-15.79%	0033A	
9/7/1997	Sead-12	A	744661	1013897	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744664	1013898	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744667	1013898	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744670	1013898	2.16	2.66	-18.80%	0033A	
9/7/1997	Sead-12	A	744673	1013898	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744676	1013898	2.06	2.66	-22.56%	0033A	
9/7/1997	Sead-12	A	744679	1013898	2.02	2.66	-24.06%	0033A	
9/7/1997	Sead-12	A	744682	1013898	2.02	2.66	-24.06%	0033A	
9/7/1997	Sead-12	A	744685	1013899	2	2.66	-24.81%	0033A	
9/7/1997	Sead-12	A	744688	1013899	1.96	2.66	-26.32%	0033A	
9/7/1997	Sead-12	A	744691	1013899	1.78	2.66	-33.08%	0033A	
9/7/1997	Sead-12	A	744694	1013899	1.8	2.66	-32.33%	0033A	
9/7/1997	Sead-12	A	744697	1013899	1.75	2.66	-34.21%	0033A	
9/7/1997	Sead-12	A	744700	1013899	1.84	2.66	-30.83%	0033A	
9/7/1997	Sead-12	A	744703	1013899	1.82	2.66	-31.58%	0033A	
9/7/1997	Sead-12	A	744705.9	1013899	1.81	2.66	-31.95%	0033A	
9/7/1997	Sead-12	A	744708.9	1013900	1.83	2.66	-31.20%	0033A	
9/7/1997	Sead-12	A	744457.1	1013891	2.01	2.66	-24.44%	0033A	
9/7/1997	Sead-12	A	744460.1	1013892	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744463.1	1013892	2.16	2.66	-18.80%	0033A	
9/7/1997	Sead-12	A	744466.1	1013892	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744469.1	1013892	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744472.1	1013892	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744475.1	1013892	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744478.1	1013892	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744481.1	1013892	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744484.1	1013893	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744487.1	1013893	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744490.1	1013893	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744493.1	1013893	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744496.1	1013893	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744499.1	1013893	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744502.1	1013893	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744505.1	1013893	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744508	1013894	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744511	1013894	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744514	1013894	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744517	1013894	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744520	1013894	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744523	1013894	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744526	1013894	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744529	1013895	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744532	1013895	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744535	1013895	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744538	1013895	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744541	1013895	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744544	1013895	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744547	1013895	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744550	1013895	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744553	1013896	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744556	1013896	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744559	1013896	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744562	1013896	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744565	1013896	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744568	1013896	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744571	1013896	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744573.9	1013897	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744576.9	1013897	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744579.9	1013897	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744582.9	1013897	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744585.9	1013897	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744588.9	1013897	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744591.9	1013897	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744594.9	1013897	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744597.9	1013898	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744600.9	1013898	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744603.9	1013898	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744606.9	1013898	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744609.9	1013898	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744612.9	1013898	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744615.9	1013898	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744618.9	1013898	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744621.9	1013899	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744624.9	1013899	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744627.9	1013899	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744630.9	1013899	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744633.9	1013899	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744636.9	1013899	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744639.9	1013899	2.47	2.66	-7.14%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744642.9	1013900	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744645.9	1013900	2.26	2.66	-15.04%	0033A	
9/7/1997	Sead-12	A	744648.9	1013900	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744651.9	1013900	2.19	2.66	-17.67%	0033A	
9/7/1997	Sead-12	A	744654.9	1013900	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744657.9	1013900	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744660.9	1013900	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744663.9	1013900	2.23	2.66	-16.17%	0033A	
9/7/1997	Sead-12	A	744666.9	1013901	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744669.9	1013901	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744672.9	1013901	2.1	2.66	-21.05%	0033A	
9/7/1997	Sead-12	A	744675.9	1013901	2.08	2.66	-21.80%	0033A	
9/7/1997	Sead-12	A	744678.9	1013901	2.02	2.66	-24.06%	0033A	
9/7/1997	Sead-12	A	744681.9	1013901	2	2.66	-24.81%	0033A	
9/7/1997	Sead-12	A	744684.9	1013901	1.98	2.66	-25.56%	0033A	
9/7/1997	Sead-12	A	744687.9	1013902	1.95	2.66	-26.69%	0033A	
9/7/1997	Sead-12	A	744690.9	1013902	1.76	2.66	-33.83%	0033A	
9/7/1997	Sead-12	A	744693.9	1013902	1.75	2.66	-34.21%	0033A	
9/7/1997	Sead-12	A	744696.9	1013902	1.8	2.66	-32.33%	0033A	
9/7/1997	Sead-12	A	744699.9	1013902	1.84	2.66	-30.83%	0033A	
9/7/1997	Sead-12	A	744702.8	1013902	1.81	2.66	-31.95%	0033A	
9/7/1997	Sead-12	A	744705.8	1013902	1.82	2.66	-31.58%	0033A	
9/7/1997	Sead-12	A	744708.8	1013902	1.8	2.66	-32.33%	0033A	
9/7/1997	Sead-12	A	744456.9	1013894	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744459.9	1013894	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744462.9	1013895	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744465.9	1013895	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744468.9	1013895	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744471.9	1013895	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744474.9	1013895	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744477.9	1013895	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744480.9	1013895	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744483.9	1013895	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744486.9	1013896	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744489.9	1013896	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744492.9	1013896	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744495.9	1013896	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744498.9	1013896	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744501.9	1013896	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744504.9	1013896	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744507.9	1013896	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744510.9	1013897	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744513.9	1013897	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744516.9	1013897	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744519.9	1013897	2.73	2.66	2.63%	0033A	
9/7/1997	Sead-12	A	744522.9	1013897	2.74	2.66	3.01%	0033A	
9/7/1997	Sead-12	A	744525.9	1013897	2.75	2.66	3.38%	0033A	
9/7/1997	Sead-12	A	744528.9	1013897	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744531.9	1013898	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744534.9	1013898	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744537.9	1013898	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744540.9	1013898	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744543.9	1013898	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744546.9	1013898	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744549.9	1013898	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744552.9	1013898	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744555.9	1013899	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744558.9	1013899	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744561.9	1013899	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744564.9	1013899	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744567.9	1013899	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744570.9	1013899	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744573.8	1013899	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744576.8	1013900	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744579.8	1013900	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744582.8	1013900	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744585.8	1013900	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744588.8	1013900	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744591.8	1013900	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744594.8	1013900	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744597.8	1013900	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744600.8	1013901	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744603.8	1013901	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744606.8	1013901	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744609.8	1013901	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744612.8	1013901	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744615.8	1013901	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744618.8	1013901	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744621.8	1013901	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744624.8	1013902	2.56	2.66	-3.76%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744627.8	1013902	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744630.8	1013902	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744633.8	1013902	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744636.8	1013902	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744639.8	1013902	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744642.8	1013902	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744645.8	1013903	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744648.8	1013903	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744651.8	1013903	2	2.66	-24.81%	0033A	
9/7/1997	Sead-12	A	744654.8	1013903	2.04	2.66	-23.31%	0033A	
9/7/1997	Sead-12	A	744657.8	1013903	2.04	2.66	-23.31%	0033A	
9/7/1997	Sead-12	A	744660.8	1013903	2.07	2.66	-22.18%	0033A	
9/7/1997	Sead-12	A	744663.8	1013903	2.05	2.66	-22.93%	0033A	
9/7/1997	Sead-12	A	744666.8	1013903	2.01	2.66	-24.44%	0033A	
9/7/1997	Sead-12	A	744669.8	1013904	1.98	2.66	-25.56%	0033A	
9/7/1997	Sead-12	A	744672.8	1013904	1.99	2.66	-25.19%	0033A	
9/7/1997	Sead-12	A	744675.8	1013904	1.98	2.66	-25.56%	0033A	
9/7/1997	Sead-12	A	744678.8	1013904	1.96	2.66	-26.32%	0033A	
9/7/1997	Sead-12	A	744681.8	1013904	1.96	2.66	-26.32%	0033A	
9/7/1997	Sead-12	A	744684.8	1013904	1.96	2.66	-26.32%	0033A	
9/7/1997	Sead-12	A	744687.8	1013904	1.96	2.66	-26.32%	0033A	
9/7/1997	Sead-12	A	744690.8	1013905	1.9	2.66	-28.57%	0033A	
9/7/1997	Sead-12	A	744693.8	1013905	1.9	2.66	-28.57%	0033A	
9/7/1997	Sead-12	A	744696.8	1013905	1.91	2.66	-28.20%	0033A	
9/7/1997	Sead-12	A	744456.8	1013897	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744459.8	1013897	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744462.8	1013897	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744465.8	1013898	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744468.8	1013898	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744471.8	1013898	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744474.8	1013898	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744477.8	1013898	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744480.8	1013898	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744483.8	1013898	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744486.8	1013898	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744489.8	1013899	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744492.8	1013899	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744495.8	1013899	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744498.8	1013899	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744501.8	1013899	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744504.8	1013899	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744507.8	1013899	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744510.8	1013899	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744513.8	1013900	2.74	2.66	3.01%	0033A	
9/7/1997	Sead-12	A	744516.8	1013900	2.76	2.66	3.76%	0033A	
9/7/1997	Sead-12	A	744519.8	1013900	2.74	2.66	3.01%	0033A	
9/7/1997	Sead-12	A	744522.8	1013900	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744525.8	1013900	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744528.8	1013900	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744531.8	1013900	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744534.8	1013901	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744537.8	1013901	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744540.8	1013901	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744543.8	1013901	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744546.8	1013901	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744549.8	1013901	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744552.8	1013901	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744555.8	1013901	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744558.8	1013902	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744561.8	1013902	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744564.8	1013902	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744567.8	1013902	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744570.7	1013902	2.71	2.66	1.88%	0033A	
9/7/1997	Sead-12	A	744573.7	1013902	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744576.7	1013902	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744579.7	1013903	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744582.7	1013903	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744585.7	1013903	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744588.7	1013903	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744591.7	1013903	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744594.7	1013903	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744597.7	1013903	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744600.7	1013903	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744603.7	1013904	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744606.7	1013904	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744609.7	1013904	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744612.7	1013904	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744615.7	1013904	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744618.7	1013904	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744621.7	1013904	2.55	2.66	-4.14%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744624.7	1013904	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744627.7	1013905	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744630.7	1013905	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744633.7	1013905	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744636.6	1013905	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744639.6	1013905	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744642.6	1013905	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744645.6	1013905	2.96	2.66	11.28%	0033A	
9/7/1997	Sead-12	A	744648.6	1013906	1.87	2.66	-29.70%	0033A	
9/7/1997	Sead-12	A	744651.6	1013906	1.89	2.66	-28.95%	0033A	
9/7/1997	Sead-12	A	744654.6	1013906	1.87	2.66	-29.70%	0033A	
9/7/1997	Sead-12	A	744657.6	1013906	1.83	2.66	-31.20%	0033A	
9/7/1997	Sead-12	A	744660.6	1013906	1.83	2.66	-31.20%	0033A	
9/7/1997	Sead-12	A	744663.6	1013906	1.84	2.66	-30.83%	0033A	
9/7/1997	Sead-12	A	744666.6	1013906	1.81	2.66	-31.95%	0033A	
9/7/1997	Sead-12	A	744669.6	1013906	1.77	2.66	-33.46%	0033A	
9/7/1997	Sead-12	A	744672.6	1013907	1.83	2.66	-31.20%	0033A	
9/7/1997	Sead-12	A	744675.6	1013907	1.88	2.66	-29.32%	0033A	
9/7/1997	Sead-12	A	744678.6	1013907	1.87	2.66	-29.70%	0033A	
9/7/1997	Sead-12	A	744681.6	1013907	1.86	2.66	-30.08%	0033A	
9/7/1997	Sead-12	A	744684.6	1013907	1.87	2.66	-29.70%	0033A	
9/7/1997	Sead-12	A	744687.6	1013907	1.89	2.66	-28.95%	0033A	
9/7/1997	Sead-12	A	744459.7	1013900	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744462.7	1013900	2.2	2.66	-17.29%	0033A	
9/7/1997	Sead-12	A	744465.7	1013900	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744468.7	1013901	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744471.7	1013901	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744474.7	1013901	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744477.7	1013901	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744480.7	1013901	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744483.7	1013901	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744486.7	1013901	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744489.7	1013901	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744492.7	1013902	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744495.7	1013902	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744498.7	1013902	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744501.7	1013902	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744504.6	1013902	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744507.6	1013902	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744510.6	1013902	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744513.6	1013902	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744516.6	1013903	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744519.6	1013903	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744522.6	1013903	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744525.6	1013903	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744528.6	1013903	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744531.6	1013903	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744534.6	1013903	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744537.6	1013904	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744540.6	1013904	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744543.6	1013904	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744546.6	1013904	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744549.6	1013904	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744552.6	1013904	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744555.6	1013904	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744558.6	1013904	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744561.6	1013905	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744564.6	1013905	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744567.6	1013905	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744570.6	1013905	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744573.6	1013905	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744576.6	1013905	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744579.6	1013905	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744582.6	1013906	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744585.6	1013906	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744588.6	1013906	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744591.6	1013906	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744594.6	1013906	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744597.6	1013906	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744600.6	1013906	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744603.6	1013906	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744606.6	1013907	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744609.6	1013907	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744612.6	1013907	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744615.6	1013907	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744618.6	1013907	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744621.6	1013907	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744624.6	1013907	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744627.6	1013907	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744630.6	1013908	2.5	2.66	-6.02%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744633.6	1013908	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744636.5	1013908	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744639.5	1013908	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744642.5	1013908	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744645.5	1013908	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744662.6	1013903	2.18	2.66	-18.05%	0033A	
9/7/1997	Sead-12	A	744465.6	1013903	2.25	2.66	-15.41%	0033A	
9/7/1997	Sead-12	A	744468.6	1013903	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744471.6	1013904	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744474.6	1013904	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744477.6	1013904	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744480.6	1013904	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744483.6	1013904	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744486.6	1013904	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744489.6	1013904	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744492.6	1013904	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744495.6	1013905	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744498.6	1013905	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744501.6	1013905	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744504.5	1013905	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744507.5	1013905	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744510.5	1013905	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744513.5	1013905	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744516.5	1013905	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744519.5	1013906	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744522.5	1013906	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744525.5	1013906	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744528.5	1013906	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744531.5	1013906	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744534.5	1013906	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744537.5	1013906	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744540.5	1013907	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744543.5	1013907	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744546.5	1013907	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744549.5	1013907	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744552.5	1013907	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744555.5	1013907	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744558.5	1013907	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744561.5	1013907	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744564.5	1013908	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744567.5	1013908	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744570.4	1013908	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744573.4	1013908	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744576.4	1013908	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744579.4	1013908	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744582.4	1013908	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744585.4	1013909	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744588.4	1013909	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744591.4	1013909	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744594.4	1013909	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744597.4	1013909	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744600.4	1013909	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744603.4	1013909	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744606.4	1013909	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744609.4	1013910	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744612.4	1013910	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744615.4	1013910	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744618.4	1013910	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744621.4	1013910	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744624.4	1013910	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744627.4	1013910	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744630.4	1013910	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744633.4	1013911	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744636.4	1013911	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744639.4	1013911	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744642.4	1013911	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744645.4	1013911	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744471.4	1013906	1.81	2.66	-31.95%	0033A	
9/7/1997	Sead-12	A	744474.4	1013907	1.95	2.66	-26.89%	0033A	
9/7/1997	Sead-12	A	744477.4	1013907	2	2.66	-24.81%	0033A	
9/7/1997	Sead-12	A	744480.4	1013907	2.04	2.66	-23.31%	0033A	
9/7/1997	Sead-12	A	744483.4	1013907	2.11	2.66	-20.68%	0033A	
9/7/1997	Sead-12	A	744486.4	1013907	2.13	2.66	-19.92%	0033A	
9/7/1997	Sead-12	A	744489.4	1013907	2.13	2.66	-19.92%	0033A	
9/7/1997	Sead-12	A	744492.4	1013907	2.15	2.66	-19.17%	0033A	
9/7/1997	Sead-12	A	744495.4	1013907	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744498.4	1013908	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744501.4	1013908	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744504.4	1013908	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744507.4	1013908	2.38	2.66	-10.53%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744510.4	1013908	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744513.4	1013908	2.31	2.66	-13.16%	0033A	
9/7/1997	Sead-12	A	744516.4	1013908	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744519.4	1013908	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744522.4	1013909	2.24	2.66	-15.79%	0033A	
9/7/1997	Sead-12	A	744525.4	1013909	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744528.4	1013909	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744531.4	1013909	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744534.4	1013909	2.37	2.66	-10.90%	0033A	
9/7/1997	Sead-12	A	744537.4	1013909	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744540.4	1013909	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744543.4	1013910	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744546.4	1013910	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744549.4	1013910	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744552.4	1013910	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744555.4	1013910	2.71	2.66	1.88%	0033A	
9/7/1997	Sead-12	A	744558.4	1013910	2.74	2.66	3.01%	0033A	
9/7/1997	Sead-12	A	744561.4	1013910	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744564.4	1013910	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744567.4	1013911	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744570.3	1013911	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744573.3	1013911	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744576.3	1013911	2.69	2.66	1.13%	0033A	
9/7/1997	Sead-12	A	744579.3	1013911	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744582.3	1013911	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744585.3	1013911	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744588.3	1013912	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744591.3	1013912	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744594.3	1013912	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744597.3	1013912	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744600.3	1013912	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744603.3	1013912	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744606.3	1013912	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744609.3	1013912	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744612.3	1013913	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744615.3	1013913	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744618.3	1013913	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744621.3	1013913	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744624.3	1013913	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744627.3	1013913	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744630.3	1013913	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744633.3	1013913	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744636.3	1013914	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744639.3	1013914	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744642.3	1013914	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744645.3	1013914	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744477.3	1013910	1.92	2.66	-27.82%	0033A	
9/7/1997	Sead-12	A	744480.3	1013910	1.97	2.66	-25.94%	0033A	
9/7/1997	Sead-12	A	744483.3	1013910	2.02	2.66	-24.06%	0033A	
9/7/1997	Sead-12	A	744486.3	1013910	2.08	2.66	-21.80%	0033A	
9/7/1997	Sead-12	A	744489.3	1013910	2.13	2.66	-19.92%	0033A	
9/7/1997	Sead-12	A	744492.3	1013910	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744495.3	1013910	2.14	2.66	-19.55%	0033A	
9/7/1997	Sead-12	A	744498.3	1013910	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744501.3	1013911	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744504.3	1013911	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744507.3	1013911	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744510.3	1013911	2.22	2.66	-16.54%	0033A	
9/7/1997	Sead-12	A	744513.3	1013911	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744516.3	1013911	2.18	2.66	-18.05%	0033A	
9/7/1997	Sead-12	A	744519.3	1013911	2.21	2.66	-16.92%	0033A	
9/7/1997	Sead-12	A	744522.3	1013911	2.32	2.66	-12.78%	0033A	
9/7/1997	Sead-12	A	744525.3	1013912	2.28	2.66	-14.29%	0033A	
9/7/1997	Sead-12	A	744528.3	1013912	2.41	2.66	-9.40%	0033A	
9/7/1997	Sead-12	A	744531.3	1013912	2.4	2.66	-9.77%	0033A	
9/7/1997	Sead-12	A	744534.3	1013912	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744537.3	1013912	2.42	2.66	-9.02%	0033A	
9/7/1997	Sead-12	A	744540.3	1013912	2.44	2.66	-8.27%	0033A	
9/7/1997	Sead-12	A	744543.3	1013912	2.8	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744546.3	1013913	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744549.3	1013913	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744552.3	1013913	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744555.3	1013913	2.69	2.66	1.13%	0033A	
9/7/1997	Sead-12	A	744558.3	1013913	2.72	2.66	2.26%	0033A	
9/7/1997	Sead-12	A	744561.3	1013913	2.71	2.66	1.88%	0033A	
9/7/1997	Sead-12	A	744564.3	1013913	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744567.3	1013913	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744570.2	1013914	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744573.2	1013914	2.66	2.66	0.00%	0033A	
9/7/1997	Sead-12	A	744576.2	1013914	2.68	2.66	0.75%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744579.2	1013914	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744582.2	1013914	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744585.2	1013914	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744588.2	1013914	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744591.2	1013915	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744594.2	1013915	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744597.2	1013915	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744600.2	1013915	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744603.2	1013915	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744606.2	1013915	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744609.2	1013915	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744612.2	1013915	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744615.2	1013916	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744618.2	1013916	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744621.2	1013916	2.54	2.66	-4.51%	0033A	
9/7/1997	Sead-12	A	744624.2	1013916	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744627.2	1013916	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744630.2	1013916	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744633.1	1013916	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744636.1	1013916	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744639.1	1013917	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744642.1	1013917	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744645.1	1013917	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744525.1	1013914	2.33	2.66	-12.41%	0033A	
9/7/1997	Sead-12	A	744528.1	1013914	2.29	2.66	-13.91%	0033A	
9/7/1997	Sead-12	A	744531.1	1013914	2.3	2.66	-13.53%	0033A	
9/7/1997	Sead-12	A	744534.1	1013914	2.36	2.66	-11.28%	0033A	
9/7/1997	Sead-12	A	744537.1	1013914	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744540.1	1013914	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744543.1	1013914	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744546.1	1013915	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744549.1	1013915	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744552.1	1013915	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744555.1	1013915	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744559.1	1013915	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744561.1	1013915	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744564.1	1013915	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744567.1	1013916	2.65	2.66	-0.38%	0033A	
9/7/1997	Sead-12	A	744570.1	1013916	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744573.1	1013916	2.69	2.66	1.13%	0033A	
9/7/1997	Sead-12	A	744576.1	1013916	2.7	2.66	1.50%	0033A	
9/7/1997	Sead-12	A	744579.1	1013916	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744582.1	1013916	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744585.1	1013916	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744588.1	1013916	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744591.1	1013917	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744594.1	1013917	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744597.1	1013917	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744581.1	1013917	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744603.1	1013917	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744606.1	1013917	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744609.1	1013917	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744612.1	1013918	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744615.1	1013918	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744618.1	1013918	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744621.1	1013918	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744624.1	1013918	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744627.1	1013918	2.45	2.66	-7.89%	0033A	
9/7/1997	Sead-12	A	744630.1	1013918	2.51	2.66	-5.64%	0033A	
9/7/1997	Sead-12	A	744633.1	1013918	2.53	2.66	-4.89%	0033A	
9/7/1997	Sead-12	A	744636.1	1013919	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744639.1	1013919	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744642.1	1013919	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744645.1	1013919	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744528	1013917	2.27	2.66	-14.66%	0033A	
9/7/1997	Sead-12	A	744531	1013917	2.34	2.66	-12.03%	0033A	
9/7/1997	Sead-12	A	744534	1013917	2.39	2.66	-10.15%	0033A	
9/7/1997	Sead-12	A	744537	1013917	2.35	2.66	-11.65%	0033A	
9/7/1997	Sead-12	A	744540	1013917	2.38	2.66	-10.53%	0033A	
9/7/1997	Sead-12	A	744543	1013917	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744546	1013917	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744549	1013917	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744552	1013918	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744555	1013918	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744558	1013918	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744561	1013918	2.56	2.66	-3.76%	0033A	
9/7/1997	Sead-12	A	744564	1013918	2.59	2.66	-2.63%	0033A	
9/7/1997	Sead-12	A	744567	1013918	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744570	1013918	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744573	1013919	2.58	2.66	-3.01%	0033A	

Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/7/1997	Sead-12	A	744576	1013919	2.68	2.66	0.75%	0033A	
9/7/1997	Sead-12	A	744579	1013919	2.67	2.66	0.38%	0033A	
9/7/1997	Sead-12	A	744582.9	1013919	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744585.9	1013919	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744588.9	1013919	2.64	2.66	-0.75%	0033A	
9/7/1997	Sead-12	A	744591.9	1013919	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744594.9	1013919	2.6	2.66	-2.26%	0033A	
9/7/1997	Sead-12	A	744597.9	1013920	2.63	2.66	-1.13%	0033A	
9/7/1997	Sead-12	A	744599.9	1013920	2.61	2.66	-1.88%	0033A	
9/7/1997	Sead-12	A	744602.9	1013920	2.62	2.66	-1.50%	0033A	
9/7/1997	Sead-12	A	744605.9	1013920	2.55	2.66	-4.14%	0033A	
9/7/1997	Sead-12	A	744608.9	1013920	2.57	2.66	-3.38%	0033A	
9/7/1997	Sead-12	A	744611.9	1013920	2.58	2.66	-3.01%	0033A	
9/7/1997	Sead-12	A	744614.9	1013920	2.5	2.66	-6.02%	0033A	
9/7/1997	Sead-12	A	744617.9	1013921	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744620.9	1013921	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744623.9	1013921	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744626.9	1013921	2.43	2.66	-8.65%	0033A	
9/7/1997	Sead-12	A	744629.9	1013921	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744632.9	1013921	2.52	2.66	-5.26%	0033A	
9/7/1997	Sead-12	A	744635.9	1013921	2.48	2.66	-6.77%	0033A	
9/7/1997	Sead-12	A	744638.9	1013921	2.47	2.66	-7.14%	0033A	
9/7/1997	Sead-12	A	744641.9	1013922	2.49	2.66	-6.39%	0033A	
9/7/1997	Sead-12	A	744644.9	1013922	2.46	2.66	-7.52%	0033A	
9/7/1997	Sead-12	A	744623.9	1013922	2.37	2.66	-10.90%	0033A	
9/8/1997	Sead-12	A	744524.9	1013920	2.17	2.51	-13.55%	0033A	
9/8/1997	Sead-12	A	744527.9	1013920	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744530.9	1013921	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744533.9	1013921	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744536.9	1013921	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744539.9	1013921	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744542.9	1013921	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744545.9	1013921	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744548.9	1013921	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744551.9	1013922	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744554.9	1013922	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744557.9	1013922	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744560.8	1013922	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744563.8	1013922	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744566.8	1013922	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744569.8	1013922	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744572.8	1013922	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744575.8	1013923	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744578.8	1013923	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744581.8	1013923	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744584.8	1013923	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744587.8	1013923	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744590.8	1013923	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744593.8	1013923	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744596.8	1013924	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744599.8	1013924	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744602.8	1013924	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744605.8	1013924	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744608.8	1013924	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744611.8	1013924	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744614.8	1013924	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744617.8	1013924	2.23	2.51	-11.16%	0033A	
9/8/1997	Sead-12	A	744620.8	1013925	2.21	2.51	-11.95%	0033A	
9/8/1997	Sead-12	A	744623.8	1013925	2.23	2.51	-11.16%	0033A	
9/8/1997	Sead-12	A	744626.8	1013925	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744629.8	1013925	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744632.8	1013925	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744635.8	1013925	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744638.8	1013925	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744641.8	1013925	2.22	2.51	-11.55%	0033A	
9/8/1997	Sead-12	A	744644.8	1013926	2.05	2.51	-18.33%	0033A	
9/8/1997	Sead-12	A	744524.8	1013923	2.18	2.51	-13.15%	0033A	
9/8/1997	Sead-12	A	744527.8	1013923	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744530.8	1013923	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744533.8	1013924	2.31	2.51	-7.97%	0033A	
9/8/1997	Sead-12	A	744536.8	1013924	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744539.8	1013924	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744542.8	1013924	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744545.8	1013924	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744548.8	1013924	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744551.8	1013924	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744554.8	1013925	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744557.8	1013925	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744580.7	1013925	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744563.7	1013925	2.42	2.51	-3.59%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Eastings	Northing					
9/8/1997	Sead-12	A	744566.7	1013925	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744569.7	1013925	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744572.7	1013925	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744575.7	1013925	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744578.7	1013926	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744581.7	1013926	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744584.7	1013926	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744587.7	1013926	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744590.7	1013926	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744593.7	1013926	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744596.7	1013926	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744599.7	1013927	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744602.7	1013927	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744605.7	1013927	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744608.7	1013927	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744611.7	1013927	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744614.7	1013927	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744617.7	1013927	2.24	2.51	-10.76%	0033A	
9/8/1997	Sead-12	A	744620.7	1013927	2.23	2.51	-11.16%	0033A	
9/8/1997	Sead-12	A	744623.7	1013928	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744626.6	1013928	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744629.6	1013928	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744632.6	1013928	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744635.6	1013928	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744638.6	1013928	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744641.6	1013928	2.14	2.51	-14.74%	0033A	
9/8/1997	Sead-12	A	744644.6	1013928	2.09	2.51	-16.73%	0033A	
9/8/1997	Sead-12	A	744524.6	1013926	2.17	2.51	-13.55%	0033A	
9/8/1997	Sead-12	A	744527.6	1013926	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744530.6	1013926	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744533.6	1013926	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744536.6	1013927	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744539.6	1013927	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744542.6	1013927	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744545.6	1013927	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744548.6	1013927	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744551.6	1013927	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744554.6	1013927	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744557.6	1013928	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744560.6	1013928	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744563.6	1013928	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744566.6	1013928	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744569.6	1013928	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744572.6	1013928	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744575.6	1013928	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744578.6	1013928	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744581.6	1013929	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744584.6	1013929	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744587.6	1013929	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744590.6	1013929	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744593.6	1013929	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744596.6	1013929	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744599.6	1013929	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744602.6	1013929	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744605.6	1013930	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744608.6	1013930	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744611.6	1013930	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744614.6	1013930	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744617.6	1013930	2.23	2.51	-11.16%	0033A	
9/8/1997	Sead-12	A	744620.6	1013930	2.21	2.51	-11.95%	0033A	
9/8/1997	Sead-12	A	744623.6	1013930	2.23	2.51	-11.16%	0033A	
9/8/1997	Sead-12	A	744626.5	1013931	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744629.5	1013931	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744632.5	1013931	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744635.5	1013931	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744638.5	1013931	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744641.5	1013931	2.22	2.51	-11.55%	0033A	
9/8/1997	Sead-12	A	744644.5	1013931	2.05	2.51	-18.33%	0033A	
9/8/1997	Sead-12	A	744524.5	1013929	2.18	2.51	-13.15%	0033A	
9/8/1997	Sead-12	A	744527.5	1013929	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744530.5	1013929	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744533.5	1013929	2.31	2.51	-7.97%	0033A	
9/8/1997	Sead-12	A	744536.5	1013929	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744539.5	1013930	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744542.5	1013930	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744545.5	1013930	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744548.5	1013930	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744551.5	1013930	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744554.5	1013930	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744557.5	1013930	2.32	2.51	-7.57%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744560.4	1013931	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744563.4	1013931	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744566.4	1013931	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744569.4	1013931	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744572.4	1013931	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744575.4	1013931	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744578.4	1013931	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744581.4	1013931	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744584.4	1013932	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744587.4	1013932	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744590.4	1013932	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744593.4	1013932	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744596.4	1013932	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744599.4	1013932	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744602.4	1013932	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744605.4	1013932	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744608.4	1013933	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744611.4	1013933	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744614.4	1013933	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744617.4	1013933	2.24	2.51	-10.76%	0033A	
9/8/1997	Sead-12	A	744620.4	1013933	2.23	2.51	-11.16%	0033A	
9/8/1997	Sead-12	A	744623.4	1013933	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744626.4	1013933	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744629.4	1013934	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744632.4	1013934	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744635.4	1013934	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744638.4	1013934	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744641.4	1013934	2.14	2.51	-14.74%	0033A	
9/8/1997	Sead-12	A	744644.4	1013934	2.09	2.51	-16.73%	0033A	
9/8/1997	Sead-12	A	744524.4	1013932	2.18	2.51	-13.15%	0033A	
9/8/1997	Sead-12	A	744527.4	1013932	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744530.4	1013932	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744533.4	1013932	2.25	2.51	-10.36%	0033A	
9/8/1997	Sead-12	A	744536.4	1013932	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744539.4	1013932	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744542.4	1013933	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744545.4	1013933	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744548.4	1013933	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744551.4	1013933	2.31	2.51	-7.97%	0033A	
9/8/1997	Sead-12	A	744554.4	1013933	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744557.3	1013933	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744560.3	1013933	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744563.3	1013934	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744566.3	1013934	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744569.3	1013934	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744572.3	1013934	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744575.3	1013934	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744578.3	1013934	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744581.3	1013934	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744584.3	1013934	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744587.3	1013935	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744590.3	1013935	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744593.3	1013935	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744596.3	1013935	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744599.3	1013935	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744602.3	1013935	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744605.3	1013935	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744608.3	1013935	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744611.3	1013936	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744614.3	1013936	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744617.3	1013936	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744620.3	1013936	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744623.3	1013936	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744626.3	1013936	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744629.3	1013936	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744632.3	1013937	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744635.3	1013937	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744638.3	1013937	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744641.3	1013937	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744644.3	1013937	2.22	2.51	-11.55%	0033A	
9/8/1997	Sead-12	A	744524.3	1013935	2.23	2.51	-11.16%	0033A	
9/8/1997	Sead-12	A	744527.3	1013935	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744530.3	1013935	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744533.3	1013935	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744536.3	1013935	2.31	2.51	-7.97%	0033A	
9/8/1997	Sead-12	A	744539.3	1013935	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744542.3	1013935	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744545.3	1013936	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744548.3	1013936	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744551.3	1013936	2.34	2.51	-6.77%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744554.3	1013936	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744557.2	1013936	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744560.2	1013936	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744563.2	1013936	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744566.2	1013937	2.26	2.51	-9.96%	0033A	
9/8/1997	Sead-12	A	744569.2	1013937	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744572.2	1013937	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744575.2	1013937	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744578.2	1013937	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744581.2	1013937	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744584.2	1013937	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744587.2	1013937	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744590.2	1013938	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744593.2	1013938	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744596.2	1013938	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744599.2	1013938	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744602.2	1013938	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744605.2	1013938	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744608.2	1013938	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744611.2	1013938	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744614.2	1013939	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744617.2	1013939	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744620.2	1013939	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744623.1	1013939	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744626.1	1013939	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744629.1	1013939	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744632.1	1013939	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744635.1	1013940	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744638.1	1013940	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744641.1	1013940	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744644.1	1013940	2.2	2.51	-12.35%	0033A	
9/8/1997	Sead-12	A	744524.1	1013938	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744527.1	1013938	2.31	2.51	-7.97%	0033A	
9/8/1997	Sead-12	A	744530.1	1013938	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744533.1	1013938	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744536.1	1013938	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744539.1	1013938	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744542.1	1013938	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744545.1	1013938	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744548.1	1013939	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744551.1	1013939	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744554.1	1013939	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744557.1	1013939	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744560.1	1013939	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744563.1	1013939	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744566.1	1013939	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744569.1	1013940	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744572.1	1013940	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744575.1	1013940	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744578.1	1013940	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744581.1	1013940	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744584.1	1013940	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744587.1	1013940	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744590.1	1013940	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744593.1	1013941	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744596.1	1013941	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744599.1	1013941	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744602.1	1013941	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744605.1	1013941	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744608.1	1013941	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744611.1	1013941	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744614.1	1013941	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744617.1	1013942	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744620.1	1013942	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744623	1013942	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744626	1013942	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744629	1013942	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744632	1013942	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744635	1013942	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744638	1013943	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744641	1013943	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744644	1013943	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744524	1013940	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744527	1013941	2.31	2.51	-7.97%	0033A	
9/8/1997	Sead-12	A	744530	1013941	2.27	2.51	-9.56%	0033A	
9/8/1997	Sead-12	A	744533	1013941	2.33	2.51	-7.17%	0033A	
9/8/1997	Sead-12	A	744536	1013941	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744539	1013941	2.31	2.51	-7.97%	0033A	
9/8/1997	Sead-12	A	744542	1013941	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744545	1013941	2.4	2.51	-4.38%	0033A	

Appendix F  
Area A Gamma Scanning Results  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744548	1013941	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744551	1013942	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744554	1013942	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744556.9	1013942	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744559.9	1013942	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744562.9	1013942	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744565.9	1013942	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744568.9	1013942	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744571.9	1013943	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744574.9	1013943	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744577.9	1013943	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744580.9	1013943	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744583.9	1013943	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744586.9	1013943	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744589.9	1013943	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744592.9	1013943	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744595.9	1013944	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744598.9	1013944	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744601.9	1013944	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744604.9	1013944	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744607.9	1013944	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744610.9	1013944	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744613.9	1013944	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744616.9	1013944	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744619.9	1013945	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744622.9	1013945	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744625.9	1013945	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744628.9	1013945	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744631.9	1013945	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744634.9	1013945	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744637.9	1013945	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744640.9	1013946	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744643.9	1013946	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744646.9	1013943	2.29	2.51	-8.76%	0033A	
9/8/1997	Sead-12	A	744649.9	1013943	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744652.9	1013944	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744655.9	1013944	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744658.9	1013944	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744661.9	1013944	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744664.9	1013944	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744667.9	1013944	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744670.9	1013945	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744673.9	1013945	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744676.9	1013945	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744679.9	1013945	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744682.9	1013945	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744685.9	1013945	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744688.9	1013945	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744691.9	1013946	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744694.9	1013946	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744697.9	1013946	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744700.9	1013946	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744703.9	1013946	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744706.9	1013946	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744709.9	1013946	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744712.9	1013946	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744715.9	1013947	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744718.9	1013947	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744721.9	1013947	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744724.9	1013947	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744727.9	1013947	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744730.9	1013947	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744733.9	1013947	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744736.9	1013947	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744739.9	1013947	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744742.9	1013948	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744745.9	1013948	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744748.9	1013948	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744751.9	1013948	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744754.9	1013948	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744757.9	1013948	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744760.9	1013949	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744763.9	1013946	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744766.9	1013946	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744769.9	1013946	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744772.9	1013947	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744775.9	1013947	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744778.9	1013947	2.44	2.51	-2.79%	0033A	



Appendix F  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744541.8	1013947	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744544.8	1013947	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744547.8	1013947	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744550.8	1013947	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744553.7	1013947	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744556.7	1013948	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744559.7	1013948	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744562.7	1013948	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744565.7	1013948	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744568.7	1013948	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744571.7	1013948	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744574.7	1013948	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744577.7	1013949	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744580.7	1013949	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744583.7	1013949	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744586.7	1013949	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744589.7	1013949	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744592.7	1013949	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744595.7	1013949	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744598.7	1013949	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744601.7	1013950	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744604.7	1013950	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744607.7	1013950	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744610.7	1013950	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744613.7	1013950	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744616.7	1013950	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744619.6	1013950	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744622.6	1013950	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744625.6	1013951	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744628.6	1013951	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744631.6	1013951	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744634.6	1013951	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744637.6	1013951	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744640.6	1013951	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744643.6	1013951	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744523.6	1013949	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744526.6	1013949	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744529.6	1013949	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744532.6	1013949	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744535.6	1013950	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744538.6	1013950	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744541.6	1013950	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744544.6	1013950	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744547.6	1013950	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744550.6	1013950	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744553.6	1013950	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744556.6	1013950	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744559.6	1013951	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744562.6	1013951	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744565.6	1013951	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744568.6	1013951	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744571.6	1013951	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744574.6	1013951	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744577.6	1013951	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744580.6	1013952	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744583.6	1013952	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744586.6	1013952	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744589.6	1013952	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744592.6	1013952	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744595.6	1013952	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744598.6	1013952	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744601.6	1013952	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744604.6	1013953	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744607.6	1013953	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744610.6	1013953	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744613.6	1013953	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744616.6	1013953	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744619.5	1013953	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744622.5	1013953	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744625.5	1013953	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744628.5	1013954	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744631.5	1013954	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744634.5	1013954	2.37	2.51	-5.58%	0033A	
9/8/1997	Sead-12	A	744637.5	1013954	2.39	2.51	-4.78%	0033A	
9/8/1997	Sead-12	A	744640.5	1013954	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744643.5	1013954	2.3	2.51	-8.37%	0033A	
9/8/1997	Sead-12	A	744523.5	1013952	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744526.5	1013952	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744529.5	1013952	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744532.5	1013952	2.48	2.51	-1.20%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744535.5	1013953	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744538.5	1013953	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744541.5	1013953	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744544.5	1013953	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744547.4	1013953	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744550.4	1013953	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744553.4	1013953	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744556.4	1013953	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744559.4	1013954	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744562.4	1013954	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744565.4	1013954	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744568.4	1013954	2.32	2.51	-7.57%	0033A	
9/8/1997	Sead-12	A	744571.4	1013954	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744574.4	1013954	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744577.4	1013954	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744580.4	1013955	2.34	2.51	-6.77%	0033A	
9/8/1997	Sead-12	A	744583.4	1013955	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744586.4	1013955	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744589.4	1013955	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744592.4	1013955	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744595.4	1013955	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744598.4	1013955	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744601.4	1013955	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744604.4	1013956	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744607.4	1013956	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744610.4	1013956	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744613.4	1013956	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744616.4	1013956	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744619.4	1013956	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744622.4	1013956	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744625.4	1013956	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744628.4	1013957	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744631.4	1013957	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744634.4	1013957	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744637.4	1013957	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744640.4	1013957	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744643.4	1013957	2.28	2.51	-9.16%	0033A	
9/8/1997	Sead-12	A	744523.4	1013955	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744526.4	1013955	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744529.4	1013955	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744532.4	1013955	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744535.4	1013956	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744538.4	1013956	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744541.3	1013956	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744544.3	1013956	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744547.3	1013956	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744550.3	1013956	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744553.3	1013956	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744556.3	1013956	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744559.3	1013957	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744562.3	1013957	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744565.3	1013957	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744568.3	1013957	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744571.3	1013957	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744574.3	1013957	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744577.3	1013957	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744580.3	1013958	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744583.3	1013958	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744586.3	1013958	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744589.3	1013958	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744592.3	1013958	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744595.3	1013958	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744598.3	1013958	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744601.3	1013958	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744604.3	1013959	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744607.3	1013959	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744610.3	1013959	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744613.3	1013959	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744616.3	1013959	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744619.3	1013959	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744622.3	1013959	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744625.3	1013959	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744628.3	1013960	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744631.3	1013960	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744634.3	1013960	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744637.3	1013960	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744640.3	1013960	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744643.3	1013960	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744523.3	1013958	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744526.3	1013958	2.41	2.51	-3.98%	0033A	

**Appendix F**  
**Area A Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744529.3	1013958	2.35	2.51	-6.37%	0033A	
9/8/1997	Sead-12	A	744532.3	1013958	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744535.2	1013959	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744538.2	1013959	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744541.2	1013959	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744544.2	1013959	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744547.2	1013959	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744550.2	1013959	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744553.2	1013959	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744556.2	1013959	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744559.2	1013960	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744562.2	1013960	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744565.2	1013960	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744568.2	1013960	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744571.2	1013960	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744574.2	1013960	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744577.2	1013960	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744580.2	1013961	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744583.2	1013961	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744586.2	1013961	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744589.2	1013961	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744592.2	1013961	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744595.2	1013961	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744598.2	1013961	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744601.1	1013961	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744604.1	1013962	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744607.1	1013962	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744610.1	1013962	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744613.1	1013962	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744616.1	1013962	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744619.1	1013962	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744622.1	1013962	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744625.1	1013962	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744628.1	1013963	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744631.1	1013963	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744634.1	1013963	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744637.1	1013963	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744640.1	1013963	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744643.1	1013963	2.36	2.51	-5.98%	0033A	
9/8/1997	Sead-12	A	744523.1	1013961	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744526.1	1013961	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744529.1	1013961	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744532.1	1013961	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744535.1	1013962	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744538.1	1013962	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744541.1	1013962	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744544.1	1013962	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744547.1	1013962	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744550.1	1013962	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744553.1	1013962	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744556.1	1013962	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744559.1	1013963	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744562.1	1013963	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744565.1	1013963	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744568.1	1013963	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744571.1	1013963	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744574.1	1013963	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744577.1	1013963	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744580.1	1013964	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744583.1	1013964	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744586.1	1013964	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744589.1	1013964	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744592	1013964	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744595	1013964	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744598	1013964	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744601	1013964	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744604	1013965	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744607	1013965	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744610	1013965	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744613	1013965	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744616	1013965	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744619	1013965	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744622	1013965	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744625	1013965	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744628	1013966	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744631	1013966	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744634	1013966	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744637	1013966	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744640	1013966	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744643	1013966	2.48	2.51	-1.20%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744522.9	1013964	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744525.9	1013964	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744528.9	1013964	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744531.9	1013964	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744534.9	1013965	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744537.9	1013965	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744540.9	1013965	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744543.9	1013965	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744546.9	1013965	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744549.9	1013965	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744552.9	1013965	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744555.9	1013965	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744558.9	1013966	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744561.9	1013966	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744564.9	1013966	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744567.9	1013966	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744570.9	1013966	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744573.9	1013966	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744576.9	1013966	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744579.9	1013967	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744582.9	1013967	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744585.9	1013967	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744588.9	1013967	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744591.9	1013967	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744594.9	1013967	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744597.9	1013967	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744600.9	1013967	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744603.9	1013968	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744606.9	1013968	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744609.9	1013968	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744612.9	1013968	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744615.9	1013968	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744618.9	1013968	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744621.9	1013968	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744624.9	1013968	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744627.9	1013969	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744630.9	1013969	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744633.9	1013969	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744636.9	1013969	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744639.9	1013969	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744642.9	1013969	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744522.8	1013967	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744525.8	1013967	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744528.8	1013967	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744531.8	1013967	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744534.8	1013968	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744537.8	1013968	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744540.8	1013968	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744543.8	1013968	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744546.8	1013968	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744549.8	1013968	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744552.8	1013968	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744555.8	1013968	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744558.8	1013969	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744561.8	1013969	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744564.8	1013969	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744567.8	1013969	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744570.8	1013969	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744573.8	1013969	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744576.8	1013969	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744579.8	1013970	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744582.8	1013970	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744585.8	1013970	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744588.8	1013970	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744591.8	1013970	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744594.8	1013970	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744597.8	1013970	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744600.8	1013970	2.72	2.51	8.37%	0033A	
9/8/1997	Sead-12	A	744603.8	1013971	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744606.8	1013971	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744609.8	1013971	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744612.8	1013971	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744615.8	1013971	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744618.8	1013971	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744621.8	1013971	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744624.8	1013971	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744627.8	1013972	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744630.8	1013972	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744633.8	1013972	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744636.8	1013972	2.55	2.51	1.59%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744639.8	1013972	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744642.8	1013972	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744522.7	1013970	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744525.7	1013970	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744528.7	1013970	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744531.7	1013970	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744534.7	1013971	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744537.7	1013971	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744540.7	1013971	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744543.7	1013971	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744546.7	1013971	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744549.7	1013971	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744552.7	1013971	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744555.7	1013971	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744558.7	1013972	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744561.7	1013972	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744564.7	1013972	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744567.7	1013972	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744570.7	1013972	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744573.6	1013972	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744576.6	1013972	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744579.6	1013972	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744582.6	1013973	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744585.6	1013973	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744588.6	1013973	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744591.6	1013973	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744594.6	1013973	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744597.6	1013973	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744600.6	1013973	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744603.6	1013974	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744606.6	1013974	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744609.6	1013974	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744612.6	1013974	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744615.6	1013974	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744618.6	1013974	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744621.6	1013974	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744624.6	1013974	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744627.6	1013975	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744630.6	1013975	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744633.6	1013975	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744636.6	1013975	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744639.6	1013975	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744642.6	1013975	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744522.6	1013973	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744525.6	1013973	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744528.6	1013973	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744531.6	1013973	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744534.6	1013974	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744537.6	1013974	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744540.6	1013974	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744543.6	1013974	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744546.6	1013974	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744549.6	1013974	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744552.6	1013974	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744555.6	1013974	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744558.6	1013975	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744561.6	1013975	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744564.6	1013975	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744567.5	1013975	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744570.5	1013975	2.73	2.51	8.76%	0033A	
9/8/1997	Sead-12	A	744573.5	1013975	2.73	2.51	8.76%	0033A	
9/8/1997	Sead-12	A	744576.5	1013975	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744579.5	1013975	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744582.5	1013976	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744585.5	1013976	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744588.5	1013976	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744591.5	1013976	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744594.5	1013976	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744597.5	1013976	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744600.5	1013976	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744603.5	1013977	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744606.5	1013977	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744609.5	1013977	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744612.5	1013977	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744615.5	1013977	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744618.5	1013977	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744621.5	1013977	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744624.5	1013977	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744627.5	1013978	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744630.4	1013978	2.59	2.51	3.19%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744633.4	1013978	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744636.4	1013978	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744639.4	1013978	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744642.4	1013978	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744522.4	1013976	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744525.4	1013976	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744528.4	1013976	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744531.4	1013976	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744534.4	1013977	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744537.4	1013977	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744540.4	1013977	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744543.4	1013977	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744546.4	1013977	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744549.4	1013977	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744552.4	1013977	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744555.4	1013977	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744558.4	1013978	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744561.4	1013978	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744564.4	1013978	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744567.4	1013978	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744570.4	1013978	2.74	2.51	9.16%	0033A	
9/8/1997	Sead-12	A	744573.4	1013978	2.73	2.51	8.76%	0033A	
9/8/1997	Sead-12	A	744576.4	1013978	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744579.4	1013978	2.72	2.51	8.37%	0033A	
9/8/1997	Sead-12	A	744582.4	1013979	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744585.4	1013979	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744588.4	1013979	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744591.4	1013979	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744594.4	1013979	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744597.4	1013979	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744600.4	1013979	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744603.4	1013980	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744606.4	1013980	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744609.4	1013980	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744612.4	1013980	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744615.4	1013980	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744618.4	1013980	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744621.4	1013980	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744624.3	1013980	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744627.3	1013981	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744630.3	1013981	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744633.3	1013981	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744636.3	1013981	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744639.3	1013981	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744642.3	1013981	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744522.6	1013973	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744525.6	1013973	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744528.6	1013973	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744531.6	1013973	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744534.6	1013974	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744537.6	1013974	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744540.6	1013974	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744543.6	1013974	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744546.6	1013974	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744549.6	1013974	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744552.6	1013974	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744555.6	1013974	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744558.6	1013975	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744561.6	1013975	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744564.6	1013975	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744567.5	1013975	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744570.5	1013975	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744573.5	1013975	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744576.5	1013975	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744579.5	1013975	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744582.5	1013976	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744585.5	1013976	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744588.5	1013976	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744591.5	1013976	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744594.5	1013976	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744597.5	1013976	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744600.5	1013976	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744603.5	1013977	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744606.5	1013977	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744609.5	1013977	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744612.5	1013977	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744615.5	1013977	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744618.5	1013977	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744621.5	1013977	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744624.5	1013977	2.51	2.51	0.00%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744627.5	1013978	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744630.4	1013978	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744633.4	1013978	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744636.4	1013978	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744639.4	1013978	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744642.4	1013978	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744522.4	1013976	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744525.4	1013976	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744528.4	1013976	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744531.4	1013976	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744534.4	1013977	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744537.4	1013977	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744540.4	1013977	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744543.4	1013977	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744546.4	1013977	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744549.4	1013977	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744552.4	1013977	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744555.4	1013977	2.4	2.51	-4.38%	0033A	
9/8/1997	Sead-12	A	744558.4	1013978	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744561.4	1013978	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744564.4	1013978	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744567.4	1013978	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744570.4	1013978	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744573.4	1013978	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744576.4	1013978	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744579.4	1013978	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744582.4	1013979	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744585.4	1013979	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744588.4	1013979	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744591.4	1013979	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744594.4	1013979	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744597.4	1013979	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744600.4	1013979	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744603.4	1013980	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744606.4	1013980	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744609.4	1013980	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744612.4	1013980	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744615.4	1013980	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744618.4	1013980	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744621.4	1013980	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744624.3	1013980	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744627.3	1013981	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744630.3	1013981	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744633.3	1013981	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744636.3	1013981	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744639.3	1013981	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744642.3	1013981	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744522.3	1013979	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744525.3	1013979	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744528.3	1013979	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744531.3	1013979	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744534.3	1013980	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744537.3	1013980	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744540.3	1013980	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744543.3	1013980	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744546.3	1013980	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744549.3	1013980	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744552.3	1013980	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744555.3	1013980	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744558.3	1013981	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744561.3	1013981	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744564.3	1013981	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744567.3	1013981	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744570.3	1013981	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744573.3	1013981	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744576.3	1013981	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744579.3	1013981	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744582.3	1013982	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744585.3	1013982	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744588.3	1013982	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744591.3	1013982	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744594.3	1013982	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744597.3	1013982	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744600.3	1013982	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744603.3	1013983	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744606.3	1013983	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744609.3	1013983	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744612.3	1013983	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744615.3	1013983	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744618.2	1013983	2.51	2.51	0.00%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744621.2	1013983	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744624.2	1013983	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744627.2	1013984	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744630.2	1013984	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744633.2	1013984	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744636.2	1013984	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744639.2	1013984	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744642.2	1013984	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744522.2	1013982	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744525.2	1013982	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744528.2	1013982	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744531.2	1013982	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744534.2	1013983	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744537.2	1013983	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744540.2	1013983	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744543.2	1013983	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744546.1	1013983	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744549.1	1013983	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744552.1	1013983	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744555.1	1013983	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744558.1	1013984	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744561.1	1013984	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744564.1	1013984	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744567.1	1013984	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744570.1	1013984	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744573.1	1013984	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744576.1	1013984	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744579.1	1013984	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744582.1	1013985	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744585.1	1013985	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744588.1	1013985	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744591.1	1013985	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744594.1	1013985	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744597.1	1013985	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744600.1	1013985	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744603.1	1013986	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744606.1	1013986	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744609.1	1013986	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744612.1	1013986	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744615.1	1013986	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744618.1	1013986	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744621.1	1013986	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744624.1	1013986	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744627.1	1013987	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744630.1	1013987	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744633.1	1013987	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744636.1	1013987	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744639.1	1013987	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744642.1	1013987	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744522.1	1013985	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744525.1	1013985	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744528.1	1013985	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744531.1	1013985	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744534.1	1013986	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744537.1	1013986	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744540	1013986	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744543	1013986	2.72	2.51	8.37%	0033A	
9/8/1997	Sead-12	A	744546	1013986	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744549	1013986	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744552	1013986	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744555	1013986	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744558	1013987	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744561	1013987	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744564	1013987	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744567	1013987	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744570	1013987	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744573	1013987	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744576	1013987	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744579	1013987	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744582	1013988	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744585	1013988	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744588	1013988	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744591	1013988	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744594	1013988	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744597	1013988	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744600	1013988	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744603	1013989	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744605.9	1013989	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744608.9	1013989	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744611.9	1013989	2.61	2.51	3.98%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744614.9	1013989	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744817.9	1013989	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744620.9	1013989	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744623.9	1013989	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744626.9	1013990	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744629.9	1013990	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744632.9	1013990	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744635.9	1013990	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744638.9	1013990	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744641.9	1013990	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744521.9	1013988	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744524.9	1013988	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744527.9	1013988	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744530.9	1013988	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744533.9	1013989	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744536.9	1013989	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744539.9	1013989	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744542.9	1013989	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744545.9	1013989	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744548.9	1013989	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744551.9	1013989	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744554.9	1013989	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744557.9	1013990	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744560.9	1013990	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744563.9	1013990	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744566.9	1013990	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744569.9	1013990	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744572.9	1013990	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744575.9	1013990	2.7	2.51	7.57%	0033A	
9/8/1997	Sead-12	A	744578.9	1013990	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744581.9	1013991	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744584.9	1013991	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744587.9	1013991	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744590.9	1013991	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744593.9	1013991	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744596.9	1013991	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744599.8	1013991	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744602.8	1013992	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744605.8	1013992	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744608.8	1013992	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744611.8	1013992	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744614.8	1013992	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744617.8	1013992	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744620.8	1013992	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744623.8	1013992	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744626.8	1013993	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744629.8	1013993	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744632.8	1013993	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744635.8	1013993	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744638.8	1013993	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744641.8	1013993	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744521.8	1013991	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744524.8	1013991	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744527.8	1013991	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744530.8	1013991	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744533.8	1013992	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744536.8	1013992	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744539.8	1013992	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744542.8	1013992	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744545.8	1013992	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744548.8	1013992	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744551.8	1013992	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744554.8	1013992	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744557.8	1013993	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744560.8	1013993	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744563.8	1013993	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744566.8	1013993	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744569.8	1013993	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744572.8	1013993	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744575.8	1013993	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744578.8	1013993	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744581.8	1013994	2.69	2.51	7.17%	0033A	
9/8/1997	Sead-12	A	744584.8	1013994	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744587.8	1013994	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744590.7	1013994	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744593.7	1013994	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744596.7	1013994	2.66	2.51	5.98%	0033A	
9/8/1997	Sead-12	A	744599.7	1013994	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744602.7	1013995	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744605.7	1013995	2.62	2.51	4.38%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument (s/n)	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744608.7	1013995	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744611.7	1013995	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744814.7	1013995	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744617.7	1013995	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744620.7	1013995	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744623.7	1013995	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744626.7	1013996	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744629.7	1013996	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744632.7	1013996	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744635.7	1013996	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744638.7	1013996	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744641.7	1013996	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744521.6	1013994	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744524.6	1013994	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744527.6	1013994	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744530.6	1013994	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744533.6	1013995	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744536.6	1013995	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744539.6	1013995	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744542.6	1013995	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744545.6	1013995	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744548.6	1013995	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744551.6	1013995	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744554.6	1013995	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744557.6	1013996	2.72	2.51	8.37%	0033A	
9/8/1997	Sead-12	A	744560.6	1013996	2.65	2.51	5.58%	0033A	
9/8/1997	Sead-12	A	744563.6	1013996	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744566.6	1013996	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744569.6	1013996	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744572.6	1013996	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744575.6	1013996	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744578.6	1013996	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744581.6	1013997	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744584.6	1013997	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744587.6	1013997	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744590.6	1013997	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744593.6	1013997	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744598.6	1013997	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744599.6	1013997	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744602.6	1013998	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744605.6	1013998	2.64	2.51	5.18%	0033A	
9/8/1997	Sead-12	A	744608.6	1013998	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744611.6	1013998	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744614.6	1013998	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744617.6	1013998	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744620.6	1013998	2.62	2.51	4.38%	0033A	
9/8/1997	Sead-12	A	744623.6	1013998	2.61	2.51	3.96%	0033A	
9/8/1997	Sead-12	A	744626.6	1013999	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744629.6	1013999	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744632.6	1013999	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744635.6	1013999	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744638.6	1013999	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744641.6	1013999	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744521.5	1013997	2.38	2.51	-5.18%	0033A	
9/8/1997	Sead-12	A	744524.5	1013997	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744527.5	1013997	2.49	2.51	-0.80%	0033A	
9/8/1997	Sead-12	A	744530.5	1013997	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744533.5	1013998	2.42	2.51	-3.59%	0033A	
9/8/1997	Sead-12	A	744536.5	1013998	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744539.5	1013998	2.45	2.51	-2.39%	0033A	
9/8/1997	Sead-12	A	744542.5	1013998	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744545.5	1013998	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744548.5	1013998	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744551.5	1013998	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744554.5	1013998	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744557.5	1013999	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744560.5	1013999	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744563.5	1013999	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744566.5	1013999	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744569.5	1013999	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744572.5	1013999	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744575.5	1013999	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744578.4	1013999	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744581.4	1014000	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744584.4	1014000	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744587.4	1014000	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744590.4	1014000	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744593.4	1014000	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744596.4	1014000	2.67	2.51	6.37%	0033A	
9/8/1997	Sead-12	A	744599.4	1014000	2.63	2.51	4.78%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/8/1997	Sead-12	A	744602.4	1014001	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744605.4	1014001	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744608.4	1014001	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744611.4	1014001	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744614.4	1014001	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744617.4	1014001	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744620.4	1014001	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744623.4	1014001	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744626.4	1014002	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744629.4	1014002	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744632.4	1014002	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744635.4	1014002	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744638.4	1014002	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744641.4	1014002	2.48	2.51	-1.20%	0033A	
9/8/1997	Sead-12	A	744521.4	1014000	2.41	2.51	-3.98%	0033A	
9/8/1997	Sead-12	A	744524.4	1014000	2.43	2.51	-3.19%	0033A	
9/8/1997	Sead-12	A	744527.4	1014000	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744530.4	1014000	2.46	2.51	-1.99%	0033A	
9/8/1997	Sead-12	A	744533.4	1014001	2.47	2.51	-1.59%	0033A	
9/8/1997	Sead-12	A	744536.4	1014001	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744539.4	1014001	2.44	2.51	-2.79%	0033A	
9/8/1997	Sead-12	A	744542.4	1014001	2.5	2.51	-0.40%	0033A	
9/8/1997	Sead-12	A	744545.4	1014001	2.51	2.51	0.00%	0033A	
9/8/1997	Sead-12	A	744548.4	1014001	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744551.4	1014001	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744554.4	1014001	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744557.4	1014002	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744560.4	1014002	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744563.4	1014002	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744566.4	1014002	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744569.4	1014002	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744572.3	1014002	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744575.3	1014002	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744578.3	1014002	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744581.3	1014003	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744584.3	1014003	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744587.3	1014003	2.6	2.51	3.59%	0033A	
9/8/1997	Sead-12	A	744590.3	1014003	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744593.3	1014003	2.59	2.51	3.19%	0033A	
9/8/1997	Sead-12	A	744596.3	1014003	2.68	2.51	6.77%	0033A	
9/8/1997	Sead-12	A	744599.3	1014003	2.63	2.51	4.78%	0033A	
9/8/1997	Sead-12	A	744602.3	1014004	2.61	2.51	3.98%	0033A	
9/8/1997	Sead-12	A	744605.3	1014004	2.58	2.51	2.79%	0033A	
9/8/1997	Sead-12	A	744608.3	1014004	2.57	2.51	2.39%	0033A	
9/8/1997	Sead-12	A	744611.3	1014004	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744614.3	1014004	2.56	2.51	1.99%	0033A	
9/8/1997	Sead-12	A	744617.3	1014004	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744620.3	1014004	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744623.3	1014004	2.55	2.51	1.59%	0033A	
9/8/1997	Sead-12	A	744626.3	1014005	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744629.3	1014005	2.52	2.51	0.40%	0033A	
9/8/1997	Sead-12	A	744632.3	1014005	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744635.3	1014005	2.54	2.51	1.20%	0033A	
9/8/1997	Sead-12	A	744638.3	1014005	2.53	2.51	0.80%	0033A	
9/8/1997	Sead-12	A	744641.3	1014005	2.46	2.51	-1.99%	0033A	
9/9/1997	Sead-12	A	744521.3	1014003	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744524.3	1014003	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744527.3	1014003	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744530.3	1014003	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744533.3	1014003	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744536.3	1014004	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744539.3	1014004	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744542.3	1014004	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744545.3	1014004	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744548.3	1014004	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744551.3	1014004	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744554.3	1014004	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744557.3	1014005	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744560.3	1014005	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744563.3	1014005	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744566.2	1014005	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744569.2	1014005	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744572.2	1014005	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744575.2	1014005	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744578.2	1014005	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744581.2	1014006	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744584.2	1014006	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744587.2	1014006	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744590.2	1014006	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744593.2	1014006	2.35	2.44	-3.69%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument (s/n)	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744596.2	1014006	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744599.2	1014006	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744602.2	1014007	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744605.2	1014007	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744608.2	1014007	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744611.2	1014007	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744614.2	1014007	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744617.2	1014007	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744620.2	1014007	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744623.2	1014007	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744626.2	1014008	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744629.2	1014008	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744632.1	1014008	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744635.1	1014008	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744638.1	1014008	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744641.1	1014008	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744521.1	1014006	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744524.1	1014006	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744527.1	1014006	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744530.1	1014006	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744533.1	1014006	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744536.1	1014007	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744539.1	1014007	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744542.1	1014007	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744545.1	1014007	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744548.1	1014007	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744551.1	1014007	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744554.1	1014007	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744557.1	1014008	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744560.1	1014008	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744563.1	1014008	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744566.1	1014008	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744569.1	1014008	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744572.1	1014008	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744575.1	1014008	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744578.1	1014008	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744581.1	1014009	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744584.1	1014009	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744587.1	1014009	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744590.1	1014009	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744593.1	1014009	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744596.1	1014009	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744599.1	1014009	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744602.1	1014010	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744605.1	1014010	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744608.1	1014010	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744611.1	1014010	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744614.1	1014010	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744617.1	1014010	2.16	2.44	-11.48%	0033A	
9/9/1997	Sead-12	A	744620.1	1014010	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744623	1014010	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744626	1014011	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744629	1014011	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744632	1014011	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744635	1014011	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744638	1014011	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744641	1014011	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744521	1014009	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744524	1014009	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744527	1014009	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744530	1014009	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744533	1014009	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744536	1014010	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744539	1014010	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744542	1014010	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744545	1014010	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744548	1014010	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744550.9	1014010	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744553.9	1014010	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744556.9	1014011	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744559.9	1014011	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744562.9	1014011	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744565.9	1014011	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744568.9	1014011	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744571.9	1014011	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744574.9	1014011	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744577.9	1014011	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744580.9	1014012	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744583.9	1014012	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744586.9	1014012	2.36	2.44	-3.28%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744589.9	1014012	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744592.9	1014012	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744595.9	1014012	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744598.9	1014012	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744601.9	1014013	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744604.9	1014013	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744607.9	1014013	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744610.9	1014013	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744613.9	1014013	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744616.9	1014013	2.15	2.44	-11.89%	0033A	
9/9/1997	Sead-12	A	744619.9	1014013	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744622.9	1014013	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744625.9	1014014	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744628.9	1014014	2.11	2.44	-13.52%	0033A	
9/9/1997	Sead-12	A	744631.9	1014014	2.15	2.44	-11.89%	0033A	
9/9/1997	Sead-12	A	744634.9	1014014	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744637.9	1014014	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744640.9	1014014	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744520.9	1014012	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744523.9	1014012	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744526.9	1014012	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744529.9	1014012	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744532.9	1014012	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744535.9	1014013	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744538.9	1014013	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744541.9	1014013	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744544.8	1014013	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744547.8	1014013	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744550.8	1014013	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744553.8	1014013	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744556.8	1014014	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744559.8	1014014	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744562.8	1014014	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744565.8	1014014	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744568.8	1014014	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744571.8	1014014	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744574.8	1014014	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744577.8	1014014	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744580.8	1014015	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744583.8	1014015	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744586.8	1014015	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744589.8	1014015	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744592.8	1014015	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744595.8	1014015	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744598.8	1014015	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744601.8	1014016	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744604.8	1014016	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744607.8	1014016	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744610.8	1014016	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744613.8	1014016	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744616.8	1014016	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744619.8	1014016	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744622.8	1014016	2.04	2.44	-16.39%	0033A	
9/9/1997	Sead-12	A	744625.8	1014017	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744628.8	1014017	2.13	2.44	-12.70%	0033A	
9/9/1997	Sead-12	A	744631.8	1014017	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744634.8	1014017	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744637.8	1014017	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744640.8	1014017	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744520.8	1014015	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744523.8	1014015	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744526.8	1014015	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744529.8	1014015	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744532.8	1014015	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744535.8	1014016	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744538.7	1014016	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744541.7	1014016	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744544.7	1014016	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744547.7	1014016	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744550.7	1014016	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744553.7	1014016	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744556.7	1014017	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744559.7	1014017	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744562.7	1014017	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744565.7	1014017	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744568.7	1014017	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744571.7	1014017	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744574.7	1014017	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744577.7	1014017	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744580.7	1014018	2.37	2.44	-2.87%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744583.7	1014018	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744586.7	1014018	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744589.7	1014018	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744592.7	1014018	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744595.7	1014018	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744598.7	1014018	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744601.7	1014019	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744604.6	1014019	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744607.6	1014019	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744610.6	1014019	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744613.6	1014019	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744616.6	1014019	2.13	2.44	-12.70%	0033A	
9/9/1997	Sead-12	A	744619.6	1014019	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744622.6	1014019	2.13	2.44	-12.70%	0033A	
9/9/1997	Sead-12	A	744625.6	1014020	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744628.6	1014020	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744631.6	1014020	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744634.6	1014020	2.15	2.44	-11.89%	0033A	
9/9/1997	Sead-12	A	744637.6	1014020	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744640.6	1014020	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744520.6	1014018	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744523.6	1014018	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744526.6	1014018	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744529.6	1014018	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744532.6	1014018	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744535.6	1014018	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744538.6	1014019	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744541.6	1014019	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744544.6	1014019	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744547.6	1014019	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744550.6	1014019	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744553.6	1014019	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744556.6	1014019	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744559.6	1014020	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744562.6	1014020	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744565.6	1014020	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744568.6	1014020	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744571.6	1014020	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744574.6	1014020	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744577.6	1014020	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744580.6	1014020	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744583.6	1014021	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744586.6	1014021	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744589.6	1014021	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744592.6	1014021	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744595.6	1014021	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744598.6	1014021	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744601.6	1014021	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744604.5	1014022	2.16	2.44	-11.48%	0033A	
9/9/1997	Sead-12	A	744607.5	1014022	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744610.5	1014022	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744613.5	1014022	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744616.5	1014022	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744619.5	1014022	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744622.5	1014022	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744625.5	1014022	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744628.5	1014023	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744631.5	1014023	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744634.5	1014023	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744637.5	1014023	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744640.5	1014023	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744520.5	1014021	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744523.5	1014021	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744526.5	1014021	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744529.5	1014021	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744532.5	1014021	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744535.5	1014021	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744538.4	1014021	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744541.4	1014022	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744544.4	1014022	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744547.4	1014022	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744550.4	1014022	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744553.4	1014022	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744556.4	1014022	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744559.4	1014022	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744562.4	1014023	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744565.4	1014023	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744568.4	1014023	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744571.4	1014023	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744574.4	1014023	2.45	2.44	0.41%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744577.4	1014023	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744580.4	1014023	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744583.4	1014023	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744586.4	1014024	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744589.4	1014024	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744592.4	1014024	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744595.4	1014024	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744598.4	1014024	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744601.4	1014024	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744604.4	1014024	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744607.4	1014025	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744610.4	1014025	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744613.4	1014025	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744616.4	1014025	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744619.4	1014025	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744622.4	1014025	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744625.4	1014025	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744628.4	1014025	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744631.4	1014026	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744634.4	1014026	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744637.4	1014026	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744640.4	1014026	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744520.4	1014024	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744523.4	1014024	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744526.4	1014024	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744529.4	1014024	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744532.4	1014024	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744535.4	1014024	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744538.3	1014024	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744541.3	1014024	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744544.3	1014025	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744547.3	1014025	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744550.3	1014025	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744553.3	1014025	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744556.3	1014025	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744559.3	1014025	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744562.3	1014025	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744565.3	1014026	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744568.3	1014026	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744571.3	1014026	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744574.3	1014026	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744577.3	1014026	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744580.3	1014026	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744583.3	1014026	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744586.3	1014026	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744589.3	1014027	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744592.3	1014027	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744595.3	1014027	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744598.3	1014027	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744601.3	1014027	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744604.3	1014027	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744607.3	1014027	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744610.3	1014028	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744613.3	1014028	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744616.3	1014028	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744619.3	1014028	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744622.3	1014028	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744625.3	1014028	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744628.3	1014028	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744631.3	1014028	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744634.3	1014029	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744637.3	1014029	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744640.3	1014029	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744520.3	1014026	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744523.3	1014027	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744526.3	1014027	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744529.3	1014027	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744532.3	1014027	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744535.2	1014027	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744538.2	1014027	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744541.2	1014027	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744544.2	1014027	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744547.2	1014028	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744550.2	1014028	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744553.2	1014028	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744556.2	1014028	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744559.2	1014028	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744562.2	1014028	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744565.2	1014028	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744568.2	1014029	2.39	2.44	-2.05%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744571.2	1014029	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744574.2	1014029	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744577.2	1014029	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744580.2	1014029	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744583.2	1014029	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744586.2	1014029	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744589.2	1014029	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744592.2	1014030	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744595.2	1014030	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744598.2	1014030	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744601.1	1014030	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744604.1	1014030	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744607.1	1014030	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744610.1	1014030	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744613.1	1014030	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744616.1	1014031	1.94	2.44	-20.49%	0033A	directly over chiller pipes
9/9/1997	Sead-12	A	744619.1	1014031	1.92	2.44	-21.31%	0033A	directly over chiller pipes
9/9/1997	Sead-12	A	744622.1	1014031	2.02	2.44	-17.21%	0033A	
9/9/1997	Sead-12	A	744625.1	1014031	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744628.1	1014031	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744631.1	1014031	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744634.1	1014031	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744637.1	1014032	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744640.1	1014032	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744520.1	1014029	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744523.1	1014029	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744526.1	1014030	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744529.1	1014030	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744532.1	1014030	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744535.1	1014030	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744538.1	1014030	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744541.1	1014030	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744544.1	1014030	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744547.1	1014030	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744550.1	1014031	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744553.1	1014031	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744556.1	1014031	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744559.1	1014031	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744562.1	1014031	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744565.1	1014031	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744568.1	1014031	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744571.1	1014032	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744574.1	1014032	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744577.1	1014032	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744580.1	1014032	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744583.1	1014032	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744586.1	1014032	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744589.1	1014032	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744592.1	1014032	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744595.1	1014033	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744598.1	1014033	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744601	1014033	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744604	1014033	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744607	1014033	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744610	1014033	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744613	1014033	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744616	1014033	1.8	2.44	-26.23%	0033A	Chiller Pipes
9/9/1997	Sead-12	A	744619	1014034	1.88	2.44	-22.95%	0033A	Chiller Pipes
9/9/1997	Sead-12	A	744622	1014034	2.01	2.44	-17.62%	0033A	
9/9/1997	Sead-12	A	744625	1014034	2.11	2.44	-13.52%	0033A	
9/9/1997	Sead-12	A	744628	1014034	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744631	1014034	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744634	1014034	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744637	1014034	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744640	1014035	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744520	1014032	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744523	1014032	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744526	1014032	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744529	1014033	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744532	1014033	2.12	2.44	-13.11%	0033A	vent
9/9/1997	Sead-12	A	744534.9	1014033	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744537.9	1014033	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744540.9	1014033	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744543.9	1014033	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744546.9	1014033	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744549.9	1014033	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744552.9	1014034	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744555.9	1014034	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744558.9	1014034	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744561.9	1014034	2.37	2.44	-2.87%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744564.9	1014034	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744567.9	1014034	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744570.9	1014034	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744573.9	1014035	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744576.9	1014035	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744579.9	1014035	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744582.9	1014035	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744585.9	1014035	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744588.9	1014035	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744591.9	1014035	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744594.9	1014035	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744597.9	1014036	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744600.9	1014036	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744603.9	1014036	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744606.9	1014036	2.16	2.44	-11.48%	0033A	
9/9/1997	Sead-12	A	744609.9	1014036	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744612.9	1014036	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744615.9	1014036	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744618.9	1014036	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744621.9	1014037	2.16	2.44	-11.48%	0033A	
9/9/1997	Sead-12	A	744624.9	1014037	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744627.9	1014037	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744630.9	1014037	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744633.9	1014037	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744636.9	1014037	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744519.9	1014035	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744522.9	1014035	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744525.9	1014035	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744528.9	1014035	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744531.9	1014036	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744534.8	1014036	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744537.8	1014036	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744540.8	1014036	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744543.8	1014036	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744546.8	1014036	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744549.8	1014036	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744552.8	1014036	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744555.8	1014037	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744558.8	1014037	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744561.8	1014037	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744564.8	1014037	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744567.8	1014037	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744570.8	1014037	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744573.8	1014037	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744576.8	1014038	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744579.8	1014038	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744582.8	1014038	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744585.8	1014038	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744588.8	1014038	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744591.8	1014038	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744594.8	1014038	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744597.8	1014038	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744600.8	1014039	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744603.8	1014039	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744606.8	1014039	2.16	2.44	-11.48%	0033A	
9/9/1997	Sead-12	A	744609.8	1014039	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744612.8	1014039	1.94	2.44	-20.49%	0033A	
9/9/1997	Sead-12	A	744615.8	1014039	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744618.8	1014039	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744621.8	1014039	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744624.8	1014040	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744627.8	1014040	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744630.8	1014040	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744633.8	1014040	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744636.8	1014040	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744639.8	1014040	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744519.8	1014038	2.15	2.44	-11.89%	0033A	
9/9/1997	Sead-12	A	744522.8	1014038	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744525.8	1014038	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744528.8	1014038	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744531.8	1014038	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744534.7	1014039	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744537.7	1014039	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744540.7	1014039	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744543.7	1014039	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744546.7	1014039	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744549.7	1014039	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744552.7	1014039	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744555.7	1014039	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744558.7	1014040	2.57	2.44	5.33%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	7445561.7	1014040	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	7445564.7	1014040	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	7445567.7	1014040	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	7445570.7	1014040	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	7445573.7	1014040	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	7445576.7	1014040	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	7445579.7	1014041	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	7445582.7	1014041	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	7445585.7	1014041	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	7445588.7	1014041	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	7445591.7	1014041	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	7445594.7	1014041	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	7445597.6	1014041	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744600.6	1014041	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744603.6	1014042	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744606.6	1014042	2.08	2.44	-14.75%	0033A	Under Chiller
9/9/1997	Sead-12	A	744609.6	1014042	1.99	2.44	-18.44%	0033A	Under Chiller
9/9/1997	Sead-12	A	744612.6	1014042	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744615.6	1014042	2.15	2.44	-11.89%	0033A	
9/9/1997	Sead-12	A	744618.6	1014042	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744621.6	1014042	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744624.6	1014042	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744627.6	1014043	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744630.6	1014043	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744633.6	1014043	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744636.6	1014043	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744639.6	1014043	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744519.6	1014041	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744522.6	1014041	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744525.6	1014041	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744528.6	1014041	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744531.6	1014041	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744534.6	1014041	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744537.6	1014042	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744540.6	1014042	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744543.6	1014042	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744546.6	1014042	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744549.6	1014042	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744552.6	1014042	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744555.6	1014042	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744558.6	1014042	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744561.6	1014043	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744564.6	1014043	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744567.6	1014043	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744570.6	1014043	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744573.6	1014043	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744576.6	1014043	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744579.6	1014043	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744582.6	1014044	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744585.6	1014044	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744588.6	1014044	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744591.6	1014044	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744594.6	1014044	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744597.5	1014044	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744600.5	1014044	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744603.5	1014044	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744606.5	1014045	2	2.44	-18.03%	0033A	under chiller
9/9/1997	Sead-12	A	744609.5	1014045	2.02	2.44	-17.21%	0033A	under chiller
9/9/1997	Sead-12	A	744612.5	1014045	2.11	2.44	-13.52%	0033A	
9/9/1997	Sead-12	A	744615.5	1014045	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744618.5	1014045	2.16	2.44	-11.48%	0033A	
9/9/1997	Sead-12	A	744621.5	1014045	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744624.5	1014045	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744627.5	1014045	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744630.5	1014046	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744633.5	1014046	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744636.5	1014046	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744639.5	1014046	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744519.5	1014044	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744522.5	1014044	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744525.5	1014044	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744528.5	1014044	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744531.4	1014044	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744534.4	1014044	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744537.4	1014044	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744540.4	1014045	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744543.4	1014045	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744546.4	1014045	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744549.4	1014045	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744552.4	1014045	2.58	2.44	5.74%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744555.4	1014045	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744558.4	1014045	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744561.4	1014045	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744564.4	1014046	2.61	2.44	6.97%	0033A	
9/9/1997	Sead-12	A	744567.4	1014046	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744570.4	1014046	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744573.4	1014046	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744576.4	1014046	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744579.4	1014046	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744582.4	1014046	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744585.4	1014047	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744588.4	1014047	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744591.4	1014047	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744594.4	1014047	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744597.4	1014047	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744600.4	1014047	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744603.4	1014047	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744606.4	1014047	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744609.4	1014048	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744612.4	1014048	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744615.4	1014048	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744618.4	1014048	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744621.4	1014048	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744624.4	1014048	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744627.4	1014048	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744630.4	1014048	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744633.4	1014049	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744636.4	1014049	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744639.4	1014049	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744519.4	1014047	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744522.4	1014047	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744525.4	1014047	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744528.4	1014047	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744531.3	1014047	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744534.3	1014047	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744537.3	1014047	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744540.3	1014047	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744543.3	1014048	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744546.3	1014048	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744549.3	1014048	2.59	2.44	6.15%	0033A	
9/9/1997	Sead-12	A	744552.3	1014048	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744555.3	1014048	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744558.3	1014048	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744561.3	1014048	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744564.3	1014048	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744567.3	1014049	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744570.3	1014049	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744573.3	1014049	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744576.3	1014049	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744579.3	1014049	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744582.3	1014049	2.6	2.44	6.56%	0033A	
9/9/1997	Sead-12	A	744585.3	1014049	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744588.3	1014050	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744591.3	1014050	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744594.3	1014050	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744597.3	1014050	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744600.3	1014050	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744603.3	1014050	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744606.3	1014050	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744609.3	1014050	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744612.3	1014051	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744615.3	1014051	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744618.3	1014051	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744621.3	1014051	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744624.3	1014051	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744627.3	1014051	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744630.3	1014051	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744633.3	1014051	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744636.3	1014052	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744639.3	1014052	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744519.3	1014049	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744522.3	1014050	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744525.3	1014050	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744528.3	1014050	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744531.2	1014050	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744534.2	1014050	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744537.2	1014050	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744540.2	1014050	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744543.2	1014050	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744546.2	1014051	2.47	2.44	1.23%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744549.2	1014051	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744552.2	1014051	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744555.2	1014051	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744558.2	1014051	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744561.2	1014051	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744564.2	1014051	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744567.2	1014051	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744570.2	1014052	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744573.2	1014052	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744576.2	1014052	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744579.2	1014052	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744582.2	1014052	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744585.2	1014052	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744588.2	1014052	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744591.2	1014053	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744594.2	1014053	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744597.1	1014053	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744600.1	1014053	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744603.1	1014053	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744606.1	1014053	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744609.1	1014053	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744612.1	1014053	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744615.1	1014054	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744618.1	1014054	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744621.1	1014054	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744624.1	1014054	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744627.1	1014054	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744630.1	1014054	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744633.1	1014054	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744636.1	1014054	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744639.1	1014055	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744519.1	1014052	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744522.1	1014052	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744525.1	1014052	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744528.1	1014053	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744531.1	1014053	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744534.1	1014053	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744537.1	1014053	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744540.1	1014053	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744543.1	1014053	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744546.1	1014053	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744549.1	1014054	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744552.1	1014054	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744555.1	1014054	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744558.1	1014054	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744561.1	1014054	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744564.1	1014054	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744567.1	1014054	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744570.1	1014054	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744573.1	1014055	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744576.1	1014055	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744579.1	1014055	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744582.1	1014055	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744585.1	1014055	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744588.1	1014055	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744591.1	1014055	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744594	1014056	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744597	1014056	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744600	1014056	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744603	1014056	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744606	1014056	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744609	1014056	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744612	1014056	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744615	1014056	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744618	1014057	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744621	1014057	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744624	1014057	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744627	1014057	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744630	1014057	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744633	1014057	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744636	1014057	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744639	1014057	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744519	1014055	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744522	1014055	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744525	1014055	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744527.9	1014055	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744530.9	1014056	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744533.9	1014056	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744536.9	1014056	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744539.9	1014056	2.41	2.44	-1.23%	0033A	



Appendix F  
 Area A Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744542.9	1014056	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744545.9	1014056	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744548.9	1014056	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744551.9	1014057	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744554.9	1014057	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744557.9	1014057	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744560.9	1014057	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744563.9	1014057	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744566.9	1014057	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744569.9	1014057	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744572.9	1014057	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744575.9	1014058	2.63	2.44	7.79%	0033A	
9/9/1997	Sead-12	A	744578.9	1014058	2.59	2.44	6.15%	0033A	
9/9/1997	Sead-12	A	744581.9	1014058	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744584.9	1014058	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744587.9	1014058	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744590.9	1014058	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744593.9	1014058	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744596.9	1014059	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744599.9	1014059	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744602.9	1014059	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744605.9	1014059	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744608.9	1014059	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744611.9	1014059	2.59	2.44	6.15%	0033A	
9/9/1997	Sead-12	A	744614.9	1014059	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744617.9	1014059	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744620.9	1014060	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744623.9	1014060	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744626.9	1014060	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744629.9	1014060	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744632.9	1014060	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744635.9	1014060	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744638.9	1014060	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744518.9	1014058	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744521.9	1014058	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744524.9	1014058	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744527.8	1014058	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744530.8	1014058	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744533.8	1014059	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744536.8	1014059	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744539.8	1014059	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744542.8	1014059	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744545.8	1014059	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744548.8	1014059	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744551.8	1014059	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744554.8	1014060	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744557.8	1014060	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744560.8	1014060	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744563.8	1014060	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744566.8	1014060	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744569.8	1014060	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744572.8	1014060	2.66	2.44	9.02%	0033A	
9/9/1997	Sead-12	A	744575.8	1014060	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744578.8	1014061	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744581.8	1014061	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744584.8	1014061	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744587.8	1014061	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744590.8	1014061	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744593.8	1014061	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744596.8	1014061	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744599.8	1014062	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744602.8	1014062	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744605.8	1014062	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744608.8	1014062	2.62	2.44	7.38%	0033A	
9/9/1997	Sead-12	A	744611.8	1014062	2.59	2.44	6.15%	0033A	
9/9/1997	Sead-12	A	744614.8	1014062	2.6	2.44	6.56%	0033A	
9/9/1997	Sead-12	A	744617.8	1014062	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744620.8	1014062	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744623.8	1014063	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744626.8	1014063	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744629.8	1014063	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744632.8	1014063	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744635.8	1014063	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744638.8	1014063	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744518.8	1014061	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744521.8	1014061	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744524.8	1014061	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744527.7	1014061	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744530.7	1014061	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744533.7	1014061	2.47	2.44	1.23%	0033A	

**Appendix F**  
**Area A Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744536.7	1014062	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744539.7	1014062	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744542.7	1014062	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744545.7	1014062	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744548.7	1014062	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744551.7	1014062	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744554.7	1014062	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744557.7	1014063	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744560.7	1014063	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744563.7	1014063	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744566.7	1014063	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744569.7	1014063	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744572.7	1014063	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744575.7	1014063	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744578.7	1014063	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744581.7	1014064	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744584.7	1014064	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744587.7	1014064	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744590.7	1014064	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744593.6	1014064	2.59	2.44	6.15%	0033A	
9/9/1997	Sead-12	A	744596.6	1014064	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744599.6	1014064	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744602.6	1014065	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744605.6	1014065	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744608.6	1014065	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744611.6	1014065	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744614.6	1014065	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744617.6	1014065	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744620.6	1014065	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744623.6	1014065	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744626.6	1014066	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744629.6	1014066	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744632.6	1014066	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744635.6	1014066	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744638.6	1014066	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744518.6	1014064	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744521.6	1014064	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744524.6	1014064	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744527.6	1014064	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744530.6	1014064	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744533.6	1014064	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744536.6	1014064	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744539.6	1014065	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744542.6	1014065	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744545.6	1014065	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744548.6	1014065	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744551.6	1014065	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744554.6	1014065	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744557.6	1014065	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744560.6	1014066	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744563.6	1014066	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744566.6	1014066	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744569.6	1014066	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744572.6	1014066	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744575.6	1014066	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744578.6	1014066	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744581.6	1014066	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744584.6	1014067	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744587.6	1014067	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744590.6	1014067	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744593.5	1014067	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744596.5	1014067	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744599.5	1014067	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744602.5	1014067	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744605.5	1014068	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744608.5	1014068	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744611.5	1014068	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744614.5	1014068	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744617.5	1014068	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744620.5	1014068	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744623.5	1014068	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744626.5	1014068	2.56	2.44	4.92%	0033A	
9/9/1997	Sead-12	A	744629.5	1014069	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744632.5	1014069	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744635.5	1014069	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744638.5	1014069	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744518.5	1014067	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744521.5	1014067	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744524.5	1014067	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744527.4	1014067	2.29	2.44	-6.15%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744530.4	1014067	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744533.4	1014067	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744536.4	1014067	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744539.4	1014067	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744542.4	1014068	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744545.4	1014068	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744548.4	1014068	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744551.4	1014068	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744554.4	1014068	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744557.4	1014068	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744560.4	1014068	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744563.4	1014069	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744566.4	1014069	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744569.4	1014069	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744572.4	1014069	2.54	2.44	4.10%	0033A	
9/9/1997	Sead-12	A	744575.4	1014069	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744578.4	1014069	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744581.4	1014069	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744584.4	1014069	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744587.4	1014070	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744590.4	1014070	2.51	2.44	2.87%	0033A	
9/9/1997	Sead-12	A	744593.4	1014070	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744596.4	1014070	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744599.4	1014070	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744602.4	1014070	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744605.4	1014070	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744608.4	1014071	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744611.4	1014071	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744614.4	1014071	2.45	2.44	0.41%	0033A	
9/9/1997	Sead-12	A	744617.4	1014071	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744620.4	1014071	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744623.4	1014071	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744626.4	1014071	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744629.4	1014071	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744632.4	1014072	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744635.4	1014072	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744638.4	1014072	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744518.4	1014069	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744521.4	1014070	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744524.4	1014070	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744527.3	1014070	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744530.3	1014070	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744533.3	1014070	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744536.3	1014070	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744539.3	1014070	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744542.3	1014070	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744545.3	1014071	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744548.3	1014071	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744551.3	1014071	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744554.3	1014071	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744557.3	1014071	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744560.3	1014071	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744563.3	1014071	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744566.3	1014072	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744569.3	1014072	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744572.3	1014072	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744575.3	1014072	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744578.3	1014072	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744581.3	1014072	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744584.3	1014072	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744587.3	1014072	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744590.3	1014073	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744593.3	1014073	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744596.3	1014073	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744599.3	1014073	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744602.3	1014073	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744605.3	1014073	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744608.3	1014073	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744611.3	1014074	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744614.3	1014074	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744617.3	1014074	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744620.3	1014074	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744623.3	1014074	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744626.3	1014074	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744629.3	1014074	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744632.3	1014074	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744635.3	1014075	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744518.3	1014072	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744521.3	1014072	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744524.2	1014073	2.32	2.44	-4.92%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744527.2	1014073	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744530.2	1014073	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744533.2	1014073	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744536.2	1014073	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744539.2	1014073	2.44	2.44	0.00%	0033A	
9/9/1997	Sead-12	A	744542.2	1014073	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744545.2	1014073	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744548.2	1014074	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744551.2	1014074	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744554.2	1014074	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744557.2	1014074	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744560.2	1014074	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744563.2	1014074	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744566.2	1014074	2.53	2.44	3.69%	0033A	
9/9/1997	Sead-12	A	744569.2	1014075	2.57	2.44	5.33%	0033A	
9/9/1997	Sead-12	A	744572.2	1014075	2.55	2.44	4.51%	0033A	
9/9/1997	Sead-12	A	744575.2	1014075	2.58	2.44	5.74%	0033A	
9/9/1997	Sead-12	A	744578.2	1014075	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744581.2	1014075	2.49	2.44	2.05%	0033A	
9/9/1997	Sead-12	A	744584.2	1014075	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744587.2	1014075	2.52	2.44	3.28%	0033A	
9/9/1997	Sead-12	A	744590.1	1014075	2.5	2.44	2.46%	0033A	
9/9/1997	Sead-12	A	744593.1	1014076	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744596.1	1014076	2.48	2.44	1.64%	0033A	
9/9/1997	Sead-12	A	744599.1	1014076	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744602.1	1014076	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744605.1	1014076	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744608.1	1014076	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744611.1	1014076	2.47	2.44	1.23%	0033A	
9/9/1997	Sead-12	A	744614.1	1014077	2.43	2.44	-0.41%	0033A	
9/9/1997	Sead-12	A	744617.1	1014077	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744620.1	1014077	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744623.1	1014077	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744626.1	1014077	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744629.1	1014077	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744632.1	1014077	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744635.1	1014077	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744638.1	1014078	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744518.1	1014075	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744521.1	1014075	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744524.1	1014075	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744527.1	1014076	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744530.1	1014076	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744533.1	1014076	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744536.1	1014076	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744539.1	1014076	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744542.1	1014076	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744545.1	1014076	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744548.1	1014076	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744551.1	1014077	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744554.1	1014077	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744557.1	1014077	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744560.1	1014077	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744563.1	1014077	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744566.1	1014077	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744569.1	1014077	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744572.1	1014078	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744575.1	1014078	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744578.1	1014078	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744581.1	1014078	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744584.1	1014078	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744587.1	1014078	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744590	1014078	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744593	1014078	2.42	2.44	-0.82%	0033A	
9/9/1997	Sead-12	A	744596	1014079	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744599	1014079	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744602	1014079	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744605	1014079	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744608	1014079	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744611	1014079	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744614	1014079	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744617	1014080	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744620	1014080	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744623	1014080	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744626	1014080	2.15	2.44	-11.69%	0033A	
9/9/1997	Sead-12	A	744629	1014080	2.11	2.44	-13.52%	0033A	
9/9/1997	Sead-12	A	744632	1014080	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744635	1014080	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744638	1014080	1.98	2.44	-18.85%	0033A	
9/9/1997	Sead-12	A	744517.9	1014078	2.18	2.44	-10.66%	0033A	



Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744520.9	1014078	2.29	2.44	-6.15%	0033A	
9/9/1997	Sead-12	A	744523.9	1014078	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744526.9	1014079	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744529.9	1014079	2.3	2.44	-5.74%	0033A	
9/9/1997	Sead-12	A	744532.9	1014079	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744535.9	1014079	2.46	2.44	0.82%	0033A	
9/9/1997	Sead-12	A	744538.9	1014079	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744541.9	1014079	2.35	2.44	-3.69%	0033A	
9/9/1997	Sead-12	A	744544.9	1014079	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744547.9	1014079	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744550.9	1014080	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744553.9	1014080	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744556.9	1014080	2.38	2.44	-2.46%	0033A	
9/9/1997	Sead-12	A	744559.9	1014080	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744562.9	1014080	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744565.9	1014080	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744568.9	1014080	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744571.9	1014081	2.34	2.44	-4.10%	0033A	
9/9/1997	Sead-12	A	744574.9	1014081	2.37	2.44	-2.87%	0033A	
9/9/1997	Sead-12	A	744577.9	1014081	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744580.9	1014081	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744583.9	1014081	2.39	2.44	-2.05%	0033A	
9/9/1997	Sead-12	A	744586.9	1014081	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744589.9	1014081	2.36	2.44	-3.28%	0033A	
9/9/1997	Sead-12	A	744592.9	1014081	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744595.9	1014082	2.41	2.44	-1.23%	0033A	
9/9/1997	Sead-12	A	744598.9	1014082	2.4	2.44	-1.64%	0033A	
9/9/1997	Sead-12	A	744601.9	1014082	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744604.9	1014082	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744607.9	1014082	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744610.9	1014082	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744613.9	1014082	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744616.9	1014083	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744619.9	1014083	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744622.9	1014083	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744625.9	1014083	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744628.9	1014083	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744631.9	1014083	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744634.9	1014083	2	2.44	-18.03%	0033A	
9/9/1997	Sead-12	A	744637.9	1014083	1.96	2.44	-19.67%	0033A	
9/9/1997	Sead-12	A	744517.8	1014081	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744520.8	1014081	1.96	2.44	-19.67%	0033A	
9/9/1997	Sead-12	A	744523.8	1014081	2.01	2.44	-17.62%	0033A	
9/9/1997	Sead-12	A	744526.8	1014082	2.04	2.44	-16.39%	0033A	
9/9/1997	Sead-12	A	744529.8	1014082	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744532.8	1014082	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744535.8	1014082	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744538.8	1014082	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744541.8	1014082	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744544.8	1014082	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744547.8	1014082	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744550.8	1014083	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744553.8	1014083	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744556.8	1014083	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744559.8	1014083	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744562.8	1014083	2.33	2.44	-4.51%	0033A	
9/9/1997	Sead-12	A	744565.8	1014083	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744568.8	1014083	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744571.8	1014084	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744574.8	1014084	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744577.8	1014084	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744580.8	1014084	2.17	2.44	-11.07%	0033A	
9/9/1997	Sead-12	A	744583.8	1014084	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744586.8	1014084	2.2	2.44	-9.84%	0033A	
9/9/1997	Sead-12	A	744589.8	1014084	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744592.8	1014084	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744595.8	1014085	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744598.8	1014085	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744601.8	1014085	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744604.8	1014085	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744607.8	1014085	2.06	2.44	-15.57%	0033A	
9/9/1997	Sead-12	A	744610.8	1014085	2.02	2.44	-17.21%	0033A	
9/9/1997	Sead-12	A	744613.8	1014085	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744616.8	1014085	1.99	2.44	-18.44%	0033A	
9/9/1997	Sead-12	A	744619.8	1014086	1.96	2.44	-19.67%	0033A	
9/9/1997	Sead-12	A	744622.8	1014086	1.96	2.44	-19.67%	0033A	
9/9/1997	Sead-12	A	744625.8	1014086	1.96	2.44	-19.67%	0033A	
9/9/1997	Sead-12	A	744628.8	1014086	1.97	2.44	-19.26%	0033A	
9/9/1997	Sead-12	A	744631.8	1014086	1.98	2.44	-18.85%	0033A	
9/9/1997	Sead-12	A	744634.8	1014086	1.94	2.44	-20.49%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744517.7	1014084	1.94	2.44	-20.49%	0033A	
9/9/1997	Sead-12	A	744520.7	1014084	1.97	2.44	-19.26%	0033A	
9/9/1997	Sead-12	A	744523.7	1014084	2	2.44	-18.03%	0033A	
9/9/1997	Sead-12	A	744526.7	1014085	2.02	2.44	-17.21%	0033A	
9/9/1997	Sead-12	A	744529.7	1014085	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744532.7	1014085	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744535.7	1014085	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744538.7	1014085	2.19	2.44	-10.25%	0033A	
9/9/1997	Sead-12	A	744541.7	1014085	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744544.7	1014085	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744547.7	1014085	2.28	2.44	-6.56%	0033A	
9/9/1997	Sead-12	A	744550.7	1014086	2.22	2.44	-9.02%	0033A	
9/9/1997	Sead-12	A	744553.7	1014086	2.23	2.44	-8.61%	0033A	
9/9/1997	Sead-12	A	744556.7	1014086	2.21	2.44	-9.43%	0033A	
9/9/1997	Sead-12	A	744559.7	1014086	2.31	2.44	-5.33%	0033A	
9/9/1997	Sead-12	A	744562.7	1014086	2.32	2.44	-4.92%	0033A	
9/9/1997	Sead-12	A	744565.7	1014086	2.27	2.44	-6.97%	0033A	
9/9/1997	Sead-12	A	744568.6	1014086	2.26	2.44	-7.38%	0033A	
9/9/1997	Sead-12	A	744571.6	1014087	2.24	2.44	-8.20%	0033A	
9/9/1997	Sead-12	A	744574.6	1014087	2.25	2.44	-7.79%	0033A	
9/9/1997	Sead-12	A	744577.6	1014087	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744580.6	1014087	2.14	2.44	-12.30%	0033A	
9/9/1997	Sead-12	A	744583.6	1014087	2.16	2.44	-11.48%	0033A	
9/9/1997	Sead-12	A	744586.6	1014087	2.18	2.44	-10.66%	0033A	
9/9/1997	Sead-12	A	744589.6	1014087	2.11	2.44	-13.52%	0033A	
9/9/1997	Sead-12	A	744592.6	1014087	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744595.6	1014088	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744598.6	1014088	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744601.6	1014088	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744604.6	1014088	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744607.6	1014088	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744610.6	1014088	1.96	2.44	-19.67%	0033A	
9/9/1997	Sead-12	A	744613.6	1014088	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744616.6	1014089	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744619.6	1014089	1.94	2.44	-20.49%	0033A	
9/9/1997	Sead-12	A	744622.6	1014089	1.98	2.44	-18.85%	0033A	
9/9/1997	Sead-12	A	744625.6	1014089	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744628.6	1014089	1.96	2.44	-19.67%	0033A	
9/9/1997	Sead-12	A	744631.6	1014089	1.98	2.44	-18.85%	0033A	
9/9/1997	Sead-12	A	744520.6	1014087	1.83	2.44	-25.00%	0033A	
9/9/1997	Sead-12	A	744523.6	1014087	1.88	2.44	-22.95%	0033A	
9/9/1997	Sead-12	A	744526.6	1014088	1.92	2.44	-21.31%	0033A	
9/9/1997	Sead-12	A	744529.6	1014088	1.93	2.44	-20.90%	0033A	
9/9/1997	Sead-12	A	744532.6	1014088	2	2.44	-18.03%	0033A	
9/9/1997	Sead-12	A	744535.6	1014088	2.01	2.44	-17.62%	0033A	
9/9/1997	Sead-12	A	744538.6	1014088	1.99	2.44	-18.44%	0033A	
9/9/1997	Sead-12	A	744541.6	1014088	2.02	2.44	-17.21%	0033A	
9/9/1997	Sead-12	A	744544.6	1014088	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744547.6	1014088	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744550.6	1014089	2.11	2.44	-13.52%	0033A	
9/9/1997	Sead-12	A	744553.6	1014089	2.13	2.44	-12.70%	0033A	
9/9/1997	Sead-12	A	744556.6	1014089	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744559.6	1014089	2.13	2.44	-12.70%	0033A	
9/9/1997	Sead-12	A	744562.5	1014089	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744565.5	1014089	2.11	2.44	-13.52%	0033A	
9/9/1997	Sead-12	A	744568.5	1014089	2.08	2.44	-14.75%	0033A	
9/9/1997	Sead-12	A	744571.5	1014090	2.04	2.44	-16.39%	0033A	
9/9/1997	Sead-12	A	744574.5	1014090	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744577.5	1014090	2.06	2.44	-15.57%	0033A	
9/9/1997	Sead-12	A	744580.5	1014090	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744583.5	1014090	2.04	2.44	-16.39%	0033A	
9/9/1997	Sead-12	A	744586.5	1014090	2.03	2.44	-16.80%	0033A	
9/9/1997	Sead-12	A	744589.5	1014090	1.99	2.44	-18.44%	0033A	
9/9/1997	Sead-12	A	744592.5	1014090	1.98	2.44	-18.85%	0033A	
9/9/1997	Sead-12	A	744595.5	1014091	2.01	2.44	-17.62%	0033A	
9/9/1997	Sead-12	A	744598.5	1014091	2.01	2.44	-17.62%	0033A	
9/9/1997	Sead-12	A	744601.5	1014091	2	2.44	-18.03%	0033A	
9/9/1997	Sead-12	A	744604.5	1014091	2.01	2.44	-17.62%	0033A	
9/9/1997	Sead-12	A	744607.5	1014091	1.98	2.44	-18.85%	0033A	
9/9/1997	Sead-12	A	744610.5	1014091	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744613.5	1014091	1.94	2.44	-20.49%	0033A	
9/9/1997	Sead-12	A	744616.5	1014092	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744526.4	1014091	1.89	2.44	-22.54%	0033A	
9/9/1997	Sead-12	A	744529.4	1014091	1.95	2.44	-20.08%	0033A	
9/9/1997	Sead-12	A	744532.4	1014091	1.98	2.44	-18.85%	0033A	
9/9/1997	Sead-12	A	744535.4	1014091	2.01	2.44	-17.62%	0033A	
9/9/1997	Sead-12	A	744538.4	1014091	1.99	2.44	-18.44%	0033A	
9/9/1997	Sead-12	A	744541.4	1014091	2.06	2.44	-15.57%	0033A	
9/9/1997	Sead-12	A	744544.4	1014091	2.07	2.44	-15.16%	0033A	
9/9/1997	Sead-12	A	744547.4	1014091	2.07	2.44	-15.16%	0033A	

Appendix F  
Area A Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/9/1997	Sead-12	A	744550.4	1014092	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744553.4	1014092	2.13	2.44	-12.70%	0033A	
9/9/1997	Sead-12	A	744556.4	1014092	2.12	2.44	-13.11%	0033A	
9/9/1997	Sead-12	A	744559.4	1014092	2.1	2.44	-13.93%	0033A	
9/9/1997	Sead-12	A	744562.4	1014092	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744565.4	1014092	2.09	2.44	-14.34%	0033A	
9/9/1997	Sead-12	A	744568.4	1014092	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744571.4	1014093	2.03	2.44	-16.80%	0033A	
9/9/1997	Sead-12	A	744574.4	1014093	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744577.4	1014093	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744580.4	1014093	2.05	2.44	-15.98%	0033A	
9/9/1997	Sead-12	A	744583.4	1014093	2.06	2.44	-15.57%	0033A	
9/9/1997	Sead-12	A	744586.4	1014093	2.02	2.44	-17.21%	0033A	
	Sead-12						-2.09%		
	Sead-12						16.52%		

Appendix F  
 Area B Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/30/1997	SEAD-12	B	743550.4	1015784	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743547.4	1015784	10.3	9.4	9.57%	A945P/A378Q	
9/30/1997	SEAD-12	B	743544.4	1015784	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743541.4	1015783	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743538.4	1015783	9.5	9.4	1.06%	A945P/A378Q	
9/30/1997	SEAD-12	B	743535.4	1015783	9.2	9.4	-2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743532.4	1015783	8.8	9.4	-6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743529.4	1015783	9.6	9.4	2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743526.4	1015783	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743523.4	1015783	9.7	9.4	3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743520.4	1015783	9.1	9.4	-3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743517.4	1015782	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743514.4	1015782	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743511.5	1015782	9.1	9.4	-3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743508.5	1015782	9.8	9.4	4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743505.5	1015782	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743502.5	1015782	9.2	9.4	-2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743499.5	1015782	8.8	9.4	-6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743496.5	1015781	9.6	9.4	2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743550.3	1015787	11.5	9.4	22.34%	A945P/A378Q	
9/30/1997	SEAD-12	B	743547.3	1015787	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743544.3	1015787	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743541.3	1015786	10.7	9.4	13.83%	A945P/A378Q	
9/30/1997	SEAD-12	B	743538.3	1015786	11.1	9.4	18.09%	A945P/A378Q	
9/30/1997	SEAD-12	B	743535.3	1015786	10.6	9.4	12.77%	A945P/A378Q	
9/30/1997	SEAD-12	B	743532.3	1015786	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743529.3	1015786	11	9.4	17.02%	A945P/A378Q	
9/30/1997	SEAD-12	B	743526.3	1015786	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743523.3	1015786	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743520.3	1015785	10.7	9.4	13.83%	A945P/A378Q	
9/30/1997	SEAD-12	B	743517.3	1015785	10.9	9.4	15.96%	A945P/A378Q	
9/30/1997	SEAD-12	B	743514.3	1015785	10.4	9.4	10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743511.3	1015785	10.7	9.4	13.83%	A945P/A378Q	
9/30/1997	SEAD-12	B	743508.3	1015785	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743505.4	1015785	9.7	9.4	3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743502.4	1015785	9.9	9.4	5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743499.4	1015785	9.4	9.4	0.00%	A945P/A378Q	
9/30/1997	SEAD-12	B	743496.4	1015784	9.5	9.4	1.06%	A945P/A378Q	
9/30/1997	SEAD-12	B	743550.2	1015790	11.4	9.4	21.28%	A945P/A378Q	
9/30/1997	SEAD-12	B	743547.2	1015790	11.1	9.4	18.09%	A945P/A378Q	
9/30/1997	SEAD-12	B	743544.2	1015790	10.7	9.4	13.83%	A945P/A378Q	
9/30/1997	SEAD-12	B	743541.2	1015789	11	9.4	17.02%	A945P/A378Q	
9/30/1997	SEAD-12	B	743538.2	1015789	10.6	9.4	12.77%	A945P/A378Q	
9/30/1997	SEAD-12	B	743535.2	1015789	11.1	9.4	18.09%	A945P/A378Q	
9/30/1997	SEAD-12	B	743532.2	1015789	10.9	9.4	15.96%	A945P/A378Q	
9/30/1997	SEAD-12	B	743529.2	1015789	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743526.2	1015789	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743523.2	1015789	9.9	9.4	5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743520.2	1015788	9.2	9.4	-2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743517.2	1015788	9.5	9.4	1.06%	A945P/A378Q	
9/30/1997	SEAD-12	B	743514.2	1015788	9.4	9.4	0.00%	A945P/A378Q	
9/30/1997	SEAD-12	B	743511.2	1015788	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743508.2	1015788	8.8	9.4	-6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743505.2	1015788	9.6	9.4	2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743502.2	1015788	9.2	9.4	-2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743499.3	1015788	9.7	9.4	3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743496.3	1015787	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743550.1	1015793	10.9	9.4	15.96%	A945P/A378Q	
9/30/1997	SEAD-12	B	743547.1	1015793	11.2	9.4	19.15%	A945P/A378Q	
9/30/1997	SEAD-12	B	743544.1	1015793	11.5	9.4	22.34%	A945P/A378Q	
9/30/1997	SEAD-12	B	743541.1	1015792	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743538.1	1015792	9.9	9.4	5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743535.1	1015792	9.8	9.4	4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743532.1	1015792	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743529.1	1015792	9.6	9.4	2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743526.1	1015792	9.2	9.4	-2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743523.1	1015792	8.8	9.4	-6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743520.1	1015791	9.5	9.4	1.06%	A945P/A378Q	
9/30/1997	SEAD-12	B	743517.1	1015791	9.1	9.4	-3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743514.1	1015791	8.9	9.4	-5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743511.1	1015791	9.3	9.4	-1.06%	A945P/A378Q	
9/30/1997	SEAD-12	B	743508.1	1015791	9.6	9.4	2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743505.1	1015791	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743502.1	1015791	8.9	9.4	-5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743499.1	1015791	9.4	9.4	0.00%	A945P/A378Q	
9/30/1997	SEAD-12	B	743496.1	1015790	9.2	9.4	-2.13%	A945P/A378Q	
9/29/1997	SEAD-12	B	743496.8	1015773	7.6	9.1	-16.48%	A945P/A378Q	
9/29/1997	SEAD-12	B	743499.8	1015774	8.5	9.1	-6.59%	A945P/A378Q	
9/29/1997	SEAD-12	B	743502.8	1015774	8.2	9.1	-9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743505.8	1015774	7.8	9.1	-14.29%	A945P/A378Q	

Appendix F  
 Area B Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/29/1997	SEAD-12	B	743508.8	1015774	8.2	9.1	-9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743511.8	1015774	7.6	9.1	-16.48%	A945P/A378Q	
9/29/1997	SEAD-12	B	743514.8	1015774	7.8	9.1	-14.29%	A945P/A378Q	
9/29/1997	SEAD-12	B	743517.8	1015774	7	9.1	-23.08%	A945P/A378Q	
9/29/1997	SEAD-12	B	743520.8	1015775	8.1	9.1	-10.99%	A945P/A378Q	
9/29/1997	SEAD-12	B	743523.8	1015775	8.2	9.1	-9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743526.8	1015775	7.5	9.1	-17.58%	A945P/A378Q	
9/29/1997	SEAD-12	B	743529.8	1015775	9.1	9.1	0.00%	A945P/A378Q	
9/29/1997	SEAD-12	B	743532.8	1015775	8.6	9.1	-5.49%	A945P/A378Q	
9/29/1997	SEAD-12	B	743535.8	1015775	7.8	9.1	-14.29%	A945P/A378Q	
9/29/1997	SEAD-12	B	743538.8	1015775	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743541.8	1015775	8.5	9.1	-6.59%	A945P/A378Q	
9/29/1997	SEAD-12	B	743544.8	1015776	9.1	9.1	0.00%	A945P/A378Q	
9/29/1997	SEAD-12	B	743547.8	1015776	8.8	9.1	-3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743550.8	1015776	7.8	9.1	-14.29%	A945P/A378Q	
9/29/1997	SEAD-12	B	743553.8	1015776	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743556.8	1015776	8.8	9.1	-3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743559.8	1015776	10	9.1	9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743562.8	1015776	9.9	9.1	8.79%	A945P/A378Q	
9/29/1997	SEAD-12	B	743565.8	1015776	10.1	9.1	10.99%	A945P/A378Q	
9/29/1997	SEAD-12	B	743568.8	1015777	10.7	9.1	17.58%	A945P/A378Q	
9/29/1997	SEAD-12	B	743496.9	1015770	7.7	9.1	-15.38%	A945P/A378Q	
9/29/1997	SEAD-12	B	743499.9	1015771	8	9.1	-12.09%	A945P/A378Q	
9/29/1997	SEAD-12	B	743502.9	1015771	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743505.9	1015771	8.4	9.1	-7.69%	A945P/A378Q	
9/29/1997	SEAD-12	B	743508.9	1015771	8.5	9.1	-6.59%	A945P/A378Q	
9/29/1997	SEAD-12	B	743511.9	1015771	8.1	9.1	-10.99%	A945P/A378Q	
9/29/1997	SEAD-12	B	743514.9	1015771	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743517.9	1015771	8.8	9.1	-3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743520.9	1015772	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743523.9	1015772	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743526.9	1015772	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743529.9	1015772	8.9	9.1	-2.20%	A945P/A378Q	
9/29/1997	SEAD-12	B	743532.9	1015772	9.4	9.1	3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743535.9	1015772	9.1	9.1	0.00%	A945P/A378Q	
9/29/1997	SEAD-12	B	743538.9	1015772	9.3	9.1	2.20%	A945P/A378Q	
9/29/1997	SEAD-12	B	743541.9	1015772	9.4	9.1	3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743544.9	1015773	9.2	9.1	1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743547.9	1015773	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743550.9	1015773	9.1	9.1	0.00%	A945P/A378Q	
9/29/1997	SEAD-12	B	743553.9	1015773	9.6	9.1	5.49%	A945P/A378Q	
9/29/1997	SEAD-12	B	743556.9	1015773	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743559.9	1015773	10.8	9.1	18.68%	A945P/A378Q	
9/29/1997	SEAD-12	B	743562.9	1015773	11.8	9.1	29.67%	A945P/A378Q	
9/29/1997	SEAD-12	B	743565.9	1015773	11.5	9.1	26.37%	A945P/A378Q	
9/29/1997	SEAD-12	B	743568.9	1015774	11.9	9.1	30.77%	A945P/A378Q	
9/29/1997	SEAD-12	B	743497.1	1015767	7.4	9.1	-18.68%	A945P/A378Q	
9/29/1997	SEAD-12	B	743500.1	1015768	8.8	9.1	-3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743503.1	1015768	7.6	9.1	-16.48%	A945P/A378Q	
9/29/1997	SEAD-12	B	743506.1	1015768	8	9.1	-12.09%	A945P/A378Q	
9/29/1997	SEAD-12	B	743509.1	1015768	8.5	9.1	-6.59%	A945P/A378Q	
9/29/1997	SEAD-12	B	743512.1	1015768	8.4	9.1	-7.69%	A945P/A378Q	
9/29/1997	SEAD-12	B	743515.1	1015768	8.4	9.1	-7.69%	A945P/A378Q	
9/29/1997	SEAD-12	B	743518.1	1015768	8.5	9.1	-6.59%	A945P/A378Q	
9/29/1997	SEAD-12	B	743521.1	1015769	8.2	9.1	-9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743524.1	1015769	8.8	9.1	-3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743527.1	1015769	9.2	9.1	1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743530.1	1015769	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743533.1	1015769	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743536.1	1015769	9.7	9.1	6.59%	A945P/A378Q	
9/29/1997	SEAD-12	B	743539.1	1015769	10.1	9.1	10.99%	A945P/A378Q	
9/29/1997	SEAD-12	B	743542.1	1015769	9.8	9.1	7.69%	A945P/A378Q	
9/29/1997	SEAD-12	B	743545.1	1015770	9.8	9.1	7.69%	A945P/A378Q	
9/29/1997	SEAD-12	B	743548.1	1015770	10.1	9.1	10.99%	A945P/A378Q	
9/29/1997	SEAD-12	B	743551.1	1015770	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743554.1	1015770	9.1	9.1	0.00%	A945P/A378Q	
9/29/1997	SEAD-12	B	743557.1	1015770	10.3	9.1	13.19%	A945P/A378Q	
9/29/1997	SEAD-12	B	743560.1	1015770	10.4	9.1	14.29%	A945P/A378Q	
9/29/1997	SEAD-12	B	743563.1	1015770	10.4	9.1	14.29%	A945P/A378Q	
9/29/1997	SEAD-12	B	743566.1	1015770	11.5	9.1	26.37%	A945P/A378Q	
9/29/1997	SEAD-12	B	743569	1015771	10.8	9.1	18.68%	A945P/A378Q	
9/29/1997	SEAD-12	B	743497.3	1015764	6.8	9.1	-25.27%	A945P/A378Q	
9/29/1997	SEAD-12	B	743500.3	1015765	8.2	9.1	-9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743503.3	1015765	7.5	9.1	-17.58%	A945P/A378Q	
9/29/1997	SEAD-12	B	743506.3	1015765	7.8	9.1	-14.29%	A945P/A378Q	
9/29/1997	SEAD-12	B	743509.2	1015765	8.1	9.1	-10.99%	A945P/A378Q	
9/29/1997	SEAD-12	B	743512.2	1015765	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743515.2	1015765	8.3	9.1	-8.79%	A945P/A378Q	
9/29/1997	SEAD-12	B	743518.2	1015765	8.9	9.1	-2.20%	A945P/A378Q	
9/29/1997	SEAD-12	B	743521.2	1015766	8.6	9.1	-5.49%	A945P/A378Q	



Appendix F  
Area B Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/29/1997	SEAD-12	B	743524.2	1015766	8.8	9.1	-3.30%	A945P/A378Q	
9/29/1997	SEAD-12	B	743527.2	1015766	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743530.2	1015766	9	9.1	-1.10%	A945P/A378Q	
9/29/1997	SEAD-12	B	743533.2	1015766	9.9	9.1	8.79%	A945P/A378Q	
9/29/1997	SEAD-12	B	743536.2	1015766	10	9.1	9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743539.2	1015766	9.1	9.1	0.00%	A945P/A378Q	
9/29/1997	SEAD-12	B	743542.2	1015766	9.8	9.1	7.69%	A945P/A378Q	
9/29/1997	SEAD-12	B	743545.2	1015767	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743548.2	1015767	9.3	9.1	2.20%	A945P/A378Q	
9/29/1997	SEAD-12	B	743551.2	1015767	10	9.1	9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743554.2	1015767	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743557.2	1015767	10.6	9.1	16.48%	A945P/A378Q	
9/29/1997	SEAD-12	B	743560.2	1015767	11.5	9.1	26.37%	A945P/A378Q	
9/29/1997	SEAD-12	B	743563.2	1015767	10	9.1	9.89%	A945P/A378Q	
9/29/1997	SEAD-12	B	743566.2	1015767	9.8	9.1	7.69%	A945P/A378Q	
9/29/1997	SEAD-12	B	743569.2	1015768	9.5	9.1	4.40%	A945P/A378Q	
9/29/1997	SEAD-12	B	743551.2	1015767	10	9.2	8.70%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.1	1015770	9.8	9.2	6.52%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.9	1015773	10.5	9.2	14.13%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.8	1015776	9.2	9.2	0.00%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.4	1015785	10.5	9.2	14.13%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.3	1015788	10	9.2	8.70%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.1	1015791	9.5	9.2	3.26%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550	1015794	8.5	9.2	-7.61%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.9	1015797	8.8	9.2	-4.35%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.8	1015800	8.2	9.2	-10.87%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.6	1015803	8.5	9.2	-7.61%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.5	1015806	8.8	9.2	-4.35%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.3	1015809	8	9.2	-13.04%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.2	1015812	8.5	9.2	-7.61%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.1	1015815	8.8	9.2	-4.35%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.9	1015818	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.8	1015821	8.7	9.2	-5.43%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.7	1015824	9	9.2	-2.17%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.6	1015827	9	9.2	-2.17%	A984P/A398Q	
9/29/1997	SEAD-12	B	743554.2	1015767	10.2	9.2	10.87%	A984P/A398Q	
9/29/1997	SEAD-12	B	743554.1	1015770	9.7	9.2	5.43%	A984P/A398Q	
9/29/1997	SEAD-12	B	743553.9	1015773	9.3	9.2	1.09%	A984P/A398Q	
9/29/1997	SEAD-12	B	743553.8	1015776	9.3	9.2	1.09%	A984P/A398Q	
9/29/1997	SEAD-12	B	743553.4	1015785	11.1	9.2	20.65%	A984P/A398Q	
9/29/1997	SEAD-12	B	743553.3	1015788	10.3	9.2	11.96%	A984P/A398Q	
9/29/1997	SEAD-12	B	743553.1	1015791	9.8	9.2	6.52%	A984P/A398Q	
9/29/1997	SEAD-12	B	743553	1015794	9.4	9.2	2.17%	A984P/A398Q	
9/29/1997	SEAD-12	B	743552.9	1015797	9.2	9.2	0.00%	A984P/A398Q	
9/29/1997	SEAD-12	B	743552.8	1015800	9.3	9.2	1.09%	A984P/A398Q	
9/29/1997	SEAD-12	B	743552.6	1015803	9.3	9.2	1.09%	A984P/A398Q	
9/29/1997	SEAD-12	B	743552.5	1015806	9.3	9.2	1.09%	A984P/A398Q	
9/29/1997	SEAD-12	B	743552.3	1015809	9.5	9.2	3.26%	A984P/A398Q	
9/29/1997	SEAD-12	B	743552.2	1015812	9	9.2	-2.17%	A984P/A398Q	
9/29/1997	SEAD-12	B	743552.1	1015815	9.1	9.2	-1.09%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.9	1015818	9	9.2	-2.17%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.8	1015821	8.5	9.2	-7.61%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.7	1015824	8.7	9.2	-5.43%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.6	1015827	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.5	1015830	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.4	1015833	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.3	1015836	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.2	1015839	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551.1	1015842	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743551	1015845	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.9	1015848	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.8	1015851	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.7	1015854	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.6	1015857	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.5	1015860	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.4	1015863	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.3	1015866	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.2	1015869	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550.1	1015872	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743550	1015875	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.9	1015878	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.8	1015881	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.7	1015884	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.6	1015887	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.5	1015890	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.4	1015893	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.3	1015896	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.2	1015899	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549.1	1015902	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743549	1015905	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.9	1015908	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.8	1015911	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.7	1015914	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.6	1015917	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.5	1015920	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.4	1015923	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.3	1015926	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.2	1015929	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548.1	1015932	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743548	1015935	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.9	1015938	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.8	1015941	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.7	1015944	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.6	1015947	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.5	1015950	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.4	1015953	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.3	1015956	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.2	1015959	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547.1	1015962	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743547	1015965	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.9	1015968	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.8	1015971	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.7	1015974	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.6	1015977	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.5	1015980	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.4	1015983	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.3	1015986	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.2	1015989	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546.1	1015992	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743546	1015995	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.9	1015998	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.8	1016001	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.7	1016004	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.6	1016007	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.5	1016010	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.4	1016013	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.3	1016016	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.2	1016019	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743545.1	1016022	8.3	9.2	-9.78%	A984P/A398Q	
9/29/1997	SEAD-1								

Appendix F  
Area B Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/29/1997	SEAD-12	B	743559	1015794	9.8	9.2	6.52%	A984P/A398Q	
9/29/1997	SEAD-12	B	743558.9	1015797	10.1	9.2	9.78%	A984P/A398Q	
9/29/1997	SEAD-12	B	743558.8	1015800	10	9.2	8.70%	A984P/A398Q	
9/29/1997	SEAD-12	B	743558.6	1015803	9.2	9.2	0.00%	A984P/A398Q	
9/29/1997	SEAD-12	B	743558.4	1015806	8.5	9.2	-7.61%	A984P/A398Q	
9/29/1997	SEAD-12	B	743558.3	1015809	9	9.2	-2.17%	A984P/A398Q	
9/29/1997	SEAD-12	B	743558.2	1015812	8.9	9.2	-3.26%	A984P/A398Q	
9/29/1997	SEAD-12	B	743558.1	1015815	8.7	9.2	-5.43%	A984P/A398Q	
9/29/1997	SEAD-12	B	743557.9	1015818	8.9	9.2	-3.26%	A984P/A398Q	
9/29/1997	SEAD-12	B	743557.8	1015821	9	9.2	-2.17%	A984P/A398Q	
9/29/1997	SEAD-12	B	743557.7	1015824	8.9	9.2	-3.26%	A984P/A398Q	
9/29/1997	SEAD-12	B	743557.6	1015827	8.7	9.2	-5.43%	A984P/A398Q	
9/30/1997	SEAD-12	B	743617.9	1015776	7.4	9.4	-21.28%	A945P/A378Q	
9/30/1997	SEAD-12	B	743617.8	1015779	8	9.4	-14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743617.6	1015782	7.1	9.4	-24.47%	A945P/A378Q	
9/30/1997	SEAD-12	B	743617.4	1015785	7.8	9.4	-17.02%	A945P/A378Q	
9/30/1997	SEAD-12	B	743617.3	1015788	8.1	9.4	-13.83%	A945P/A378Q	
9/30/1997	SEAD-12	B	743617.2	1015791	7.5	9.4	-20.21%	A945P/A378Q	
9/30/1997	SEAD-12	B	743617.1	1015794	8.4	9.4	-10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616.9	1015797	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616.8	1015800	10.5	9.4	11.70%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616.7	1015803	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616.6	1015806	10.7	9.4	13.83%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616.4	1015809	10.3	9.4	9.57%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616.3	1015812	10.4	9.4	10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616.1	1015815	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743616	1015818	11	9.4	17.02%	A945P/A378Q	
9/30/1997	SEAD-12	B	743615.9	1015821	9.5	9.4	1.06%	A945P/A378Q	
9/30/1997	SEAD-12	B	743615.8	1015824	8.4	9.4	-10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743615.6	1015827	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743615.5	1015830	8.5	9.4	-9.57%	A945P/A378Q	
9/30/1997	SEAD-12	B	743620.9	1015776	7.8	9.4	-17.02%	A945P/A378Q	
9/30/1997	SEAD-12	B	743620.7	1015779	7.2	9.4	-23.40%	A945P/A378Q	
9/30/1997	SEAD-12	B	743620.6	1015782	8.5	9.4	-9.57%	A945P/A378Q	
9/30/1997	SEAD-12	B	743620.4	1015785	8.4	9.4	-10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743620.3	1015788	9.8	9.4	4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743620.2	1015791	9.8	9.4	4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743620.1	1015794	10.4	9.4	10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619.9	1015797	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619.8	1015800	10.3	9.4	9.57%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619.7	1015803	11	9.4	17.02%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619.6	1015806	10.4	9.4	10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619.4	1015809	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619.3	1015812	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619.1	1015815	8.9	9.4	-5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743619	1015818	9.2	9.4	-2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743618.9	1015821	9.3	9.4	-1.06%	A945P/A378Q	
9/30/1997	SEAD-12	B	743618.8	1015824	8.8	9.4	-6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743618.6	1015827	9.1	9.4	-3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743618.5	1015830	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743623.9	1015776	7.6	9.4	-19.15%	A945P/A378Q	
9/30/1997	SEAD-12	B	743623.7	1015779	8.2	9.4	-12.77%	A945P/A378Q	
9/30/1997	SEAD-12	B	743623.6	1015782	8.5	9.4	-9.57%	A945P/A378Q	
9/30/1997	SEAD-12	B	743623.4	1015785	8.4	9.4	-10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743623.3	1015788	8.8	9.4	-6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743623.2	1015791	9.6	9.4	2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743623.1	1015794	9.6	9.4	2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622.9	1015797	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622.8	1015800	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622.7	1015803	10.2	9.4	8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622.6	1015806	9.8	9.4	4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622.4	1015809	10.8	9.4	14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622.3	1015812	10.1	9.4	7.45%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622.1	1015815	9.1	9.4	-3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743622	1015818	9.4	9.4	0.00%	A945P/A378Q	
9/30/1997	SEAD-12	B	743621.9	1015821	8.8	9.4	-6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743621.8	1015824	8.9	9.4	-5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743621.6	1015827	9.1	9.4	-3.19%	A945P/A378Q	
9/30/1997	SEAD-12	B	743621.5	1015830	8.6	9.4	-8.51%	A945P/A378Q	
9/30/1997	SEAD-12	B	743626.8	1015776	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743626.7	1015779	10.1	9.4	7.45%	A945P/A378Q	
9/30/1997	SEAD-12	B	743626.6	1015782	8.7	9.4	-7.45%	A945P/A378Q	
9/30/1997	SEAD-12	B	743626.4	1015785	8.9	9.4	-5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743626.3	1015788	9.4	9.4	0.00%	A945P/A378Q	
9/30/1997	SEAD-12	B	743626.2	1015791	8.5	9.4	-9.57%	A945P/A378Q	
9/30/1997	SEAD-12	B	743626.1	1015794	8	9.4	-14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743625.9	1015797	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743625.8	1015800	10	9.4	6.38%	A945P/A378Q	
9/30/1997	SEAD-12	B	743625.7	1015803	10.5	9.4	11.70%	A945P/A378Q	
9/30/1997	SEAD-12	B	743625.5	1015806	9.5	9.4	1.06%	A945P/A378Q	

Appendix F  
 Area B Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/30/1997	SEAD-12	B	743625.4	1015809	9.2	9.4	-2.13%	A945P/A378Q	
9/30/1997	SEAD-12	B	743625.3	1015812	9	9.4	-4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743625.1	1015815	9.8	9.4	4.26%	A945P/A378Q	
9/30/1997	SEAD-12	B	743625	1015818	8.7	9.4	-7.45%	A945P/A378Q	
9/30/1997	SEAD-12	B	743624.9	1015821	8.9	9.4	-5.32%	A945P/A378Q	
9/30/1997	SEAD-12	B	743624.8	1015824	8	9.4	-14.89%	A945P/A378Q	
9/30/1997	SEAD-12	B	743624.6	1015827	8.4	9.4	-10.64%	A945P/A378Q	
9/30/1997	SEAD-12	B	743624.5	1015830	7.8	9.4	-17.02%	A945P/A378Q	
9/30/1997	SEAD-12	B	743599.6	1015780	8.5	10.2	-16.67%	A984P/A398Q	
9/30/1997	SEAD-12	B	743599.5	1015783	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743599.4	1015786	9.1	10.2	-10.78%	A984P/A398Q	
9/30/1997	SEAD-12	B	743599.3	1015789	12.9	10.2	26.47%	A984P/A398Q	
9/30/1997	SEAD-12	B	743599.1	1015792	13	10.2	27.45%	A984P/A398Q	
9/30/1997	SEAD-12	B	743599	1015795	12.8	10.2	25.49%	A984P/A398Q	
9/30/1997	SEAD-12	B	743598.9	1015798	12.5	10.2	22.55%	A984P/A398Q	
9/30/1997	SEAD-12	B	743598.8	1015801	12.5	10.2	22.55%	A984P/A398Q	
9/30/1997	SEAD-12	B	743598.6	1015804	12.8	10.2	25.49%	A984P/A398Q	
9/30/1997	SEAD-12	B	743598.4	1015808	12	10.2	17.65%	A984P/A398Q	
9/30/1997	SEAD-12	B	743598.3	1015811	12	10.2	17.65%	A984P/A398Q	
9/30/1997	SEAD-12	B	743598.2	1015814	11.5	10.2	12.75%	A984P/A398Q	
9/30/1997	SEAD-12	B	743598	1015817	9.5	10.2	-6.86%	A984P/A398Q	
9/30/1997	SEAD-12	B	743602.3	1015787	8.6	10.2	-15.69%	A984P/A398Q	
9/30/1997	SEAD-12	B	743558.9	1015818	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743561.9	1015818	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743564.9	1015818	8.8	10.2	-13.73%	A984P/A398Q	
9/30/1997	SEAD-12	B	743567.9	1015819	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743570.9	1015819	8.5	10.2	-16.67%	A984P/A398Q	
9/30/1997	SEAD-12	B	743573.9	1015819	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743576.9	1015819	8.5	10.2	-16.67%	A984P/A398Q	
9/30/1997	SEAD-12	B	743579.9	1015819	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743582.9	1015819	7.8	10.2	-23.53%	A984P/A398Q	
9/30/1997	SEAD-12	B	743585.9	1015819	7.8	10.2	-23.53%	A984P/A398Q	
9/30/1997	SEAD-12	B	743588.9	1015820	7.5	10.2	-26.47%	A984P/A398Q	
9/30/1997	SEAD-12	B	743594.9	1015820	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743597.9	1015820	9.2	10.2	-9.80%	A984P/A398Q	
9/30/1997	SEAD-12	B	743600.9	1015820	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743603.9	1015820	9.4	10.2	-7.84%	A984P/A398Q	
9/30/1997	SEAD-12	B	743606.9	1015820	10	10.2	-1.96%	A984P/A398Q	
9/30/1997	SEAD-12	B	743609.9	1015820	10.2	10.2	0.00%	A984P/A398Q	
9/30/1997	SEAD-12	B	743612.9	1015821	10	10.2	-1.96%	A984P/A398Q	
9/30/1997	SEAD-12	B	743615.9	1015821	9.6	10.2	-5.88%	A984P/A398Q	
9/30/1997	SEAD-12	B	743558.8	1015821	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743561.8	1015821	9.4	10.2	-7.84%	A984P/A398Q	
9/30/1997	SEAD-12	B	743564.8	1015821	9.5	10.2	-6.86%	A984P/A398Q	
9/30/1997	SEAD-12	B	743567.8	1015822	9.6	10.2	-5.88%	A984P/A398Q	
9/30/1997	SEAD-12	B	743570.8	1015822	9.3	10.2	-8.82%	A984P/A398Q	
9/30/1997	SEAD-12	B	743573.8	1015822	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743576.8	1015822	8.5	10.2	-16.67%	A984P/A398Q	
9/30/1997	SEAD-12	B	743579.8	1015822	8.7	10.2	-14.71%	A984P/A398Q	
9/30/1997	SEAD-12	B	743594.8	1015823	8.5	10.2	-16.67%	A984P/A398Q	
9/30/1997	SEAD-12	B	743597.8	1015823	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743600.8	1015823	9.4	10.2	-7.84%	A984P/A398Q	
9/30/1997	SEAD-12	B	743603.8	1015823	10	10.2	-1.96%	A984P/A398Q	
9/30/1997	SEAD-12	B	743606.8	1015823	9.9	10.2	-2.94%	A984P/A398Q	
9/30/1997	SEAD-12	B	743609.8	1015823	9.8	10.2	-3.92%	A984P/A398Q	
9/30/1997	SEAD-12	B	743612.8	1015824	9.8	10.2	-3.92%	A984P/A398Q	
9/30/1997	SEAD-12	B	743615.8	1015824	9.8	10.2	-3.92%	A984P/A398Q	
9/30/1997	SEAD-12	B	743558.7	1015824	9.1	10.2	-10.78%	A984P/A398Q	
9/30/1997	SEAD-12	B	743561.7	1015824	9.6	10.2	-5.88%	A984P/A398Q	
9/30/1997	SEAD-12	B	743564.7	1015824	9.2	10.2	-9.80%	A984P/A398Q	
9/30/1997	SEAD-12	B	743567.7	1015825	9.5	10.2	-6.86%	A984P/A398Q	
9/30/1997	SEAD-12	B	743570.7	1015825	9.7	10.2	-4.90%	A984P/A398Q	
9/30/1997	SEAD-12	B	743573.7	1015825	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743576.7	1015825	8.8	10.2	-13.73%	A984P/A398Q	
9/30/1997	SEAD-12	B	743579.6	1015825	8.7	10.2	-14.71%	A984P/A398Q	
9/30/1997	SEAD-12	B	743594.6	1015826	8.7	10.2	-14.71%	A984P/A398Q	
9/30/1997	SEAD-12	B	743597.6	1015826	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743600.6	1015826	9.6	10.2	-5.88%	A984P/A398Q	
9/30/1997	SEAD-12	B	743603.6	1015826	9.5	10.2	-6.86%	A984P/A398Q	
9/30/1997	SEAD-12	B	743606.6	1015826	9.9	10.2	-2.94%	A984P/A398Q	
9/30/1997	SEAD-12	B	743609.6	1015826	10	10.2	-1.96%	A984P/A398Q	
9/30/1997	SEAD-12	B	743612.6	1015827	9.4	10.2	-7.84%	A984P/A398Q	
9/30/1997	SEAD-12	B	743615.6	1015827	9.8	10.2	-3.92%	A984P/A398Q	
9/30/1997	SEAD-12	B	743558.6	1015827	8.9	10.2	-12.75%	A984P/A398Q	
9/30/1997	SEAD-12	B	743561.6	1015827	8.5	10.2	-16.67%	A984P/A398Q	
9/30/1997	SEAD-12	B	743564.6	1015827	8.8	10.2	-13.73%	A984P/A398Q	
9/30/1997	SEAD-12	B	743567.6	1015828	8.7	10.2	-14.71%	A984P/A398Q	
9/30/1997	SEAD-12	B	743570.6	1015828	8.9	10.2	-12.75%	A984P/A398Q	
9/30/1997	SEAD-12	B	743573.5	1015828	8.4	10.2	-17.65%	A984P/A398Q	
9/30/1997	SEAD-12	B	743576.5	1015828	8.7	10.2	-14.71%	A984P/A398Q	



Appendix F  
Area B Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/30/1997	SEAD-12	B	743579.5	1015828	8.5	10.2	-16.67%	A984P/A398Q	
9/30/1997	SEAD-12	B	743582.5	1015828	8.2	10.2	-19.61%	A984P/A398Q	
9/30/1997	SEAD-12	B	743585.5	1015828	7.8	10.2	-23.53%	A984P/A398Q	
9/30/1997	SEAD-12	B	743588.5	1015829	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743591.5	1015829	8	10.2	-21.57%	A984P/A398Q	
9/30/1997	SEAD-12	B	743594.5	1015829	8.7	10.2	-14.71%	A984P/A398Q	
9/30/1997	SEAD-12	B	743597.5	1015829	8.2	10.2	-19.61%	A984P/A398Q	
9/30/1997	SEAD-12	B	743600.5	1015829	8.6	10.2	-15.69%	A984P/A398Q	
9/30/1997	SEAD-12	B	743603.5	1015829	9	10.2	-11.76%	A984P/A398Q	
9/30/1997	SEAD-12	B	743606.5	1015829	9.2	10.2	-9.80%	A984P/A398Q	
9/30/1997	SEAD-12	B	743609.5	1015829	8.7	10.2	-14.71%	A984P/A398Q	
9/30/1997	SEAD-12	B	743612.5	1015830	8.4	10.2	-17.65%	A984P/A398Q	
9/30/1997	SEAD-12	B	743615.5	1015830	8.7	10.2	-14.71%	A984P/A398Q	
9/15/1997	SEAD-12	B	743577.9	1015841	2.18	2.6	-16.15%	0034A	
9/15/1997	SEAD-12	B	743574.5	1015920	2.3	2.6	-11.54%	0034A	
9/15/1997	SEAD-12	B	743570.1	1016020	2.12	2.6	-18.46%	0034A	
9/15/1997	SEAD-12	B	743583.9	1015841	2.2	2.6	-15.38%	0034A	
9/15/1997	SEAD-12	B	743580.5	1015920	2.45	2.6	-5.77%	0034A	
9/15/1997	SEAD-12	B	743576.1	1016020	2.23	2.6	-14.23%	0034A	
9/15/1997	SEAD-12	B	743589.9	1015842	2.32	2.6	-10.77%	0034A	
9/15/1997	SEAD-12	B	743586.5	1015921	2.32	2.6	-10.77%	0034A	
9/15/1997	SEAD-12	B	743582.1	1016020	2.12	2.6	-18.46%	0034A	
9/15/1997	SEAD-12	B	743595.9	1015842	2.36	2.6	-9.23%	0034A	
9/15/1997	SEAD-12	B	743592.5	1015921	2.43	2.6	-6.54%	0034A	
9/15/1997	SEAD-12	B	743588.1	1016021	2.29	2.6	-11.92%	0034A	
9/15/1997	SEAD-12	B	743601.9	1015842	2.3	2.6	-11.54%	0034A	
9/15/1997	SEAD-12	B	743598.5	1015921	2.28	2.6	-12.31%	0034A	
9/15/1997	SEAD-12	B	743594.1	1016021	1.98	2.6	-23.85%	0034A	
9/15/1997	SEAD-12	B	743607.9	1015842	2.34	2.6	-10.00%	0034A	
9/15/1997	SEAD-12	B	743604.5	1015921	2.38	2.6	-8.46%	0034A	
9/15/1997	SEAD-12	B	743600.1	1016021	2.16	2.6	-16.92%	0034A	
9/15/1997	SEAD-12	B	743613.9	1015843	2.47	2.6	-5.00%	0034A	
9/15/1997	SEAD-12	B	743610.4	1015922	2.34	2.6	-10.00%	0034A	
9/15/1997	SEAD-12	B	743606.1	1016021	2.16	2.6	-16.92%	0034A	
9/15/1997	SEAD-12	B	743619.9	1015843	2.42	2.6	-6.92%	0034A	
9/15/1997	SEAD-12	B	743616.4	1015922	2.46	2.6	-5.38%	0034A	
9/15/1997	SEAD-12	B	743612.1	1016022	2.24	2.6	-13.85%	0034A	
9/15/1997	SEAD-12	B	743625.9	1015843	2.41	2.6	-7.31%	0034A	
9/15/1997	SEAD-12	B	743622.4	1015922	2.36	2.6	-9.23%	0034A	
9/15/1997	SEAD-12	B	743618.1	1016022	2.1	2.6	-19.23%	0034A	
9/15/1997	SEAD-12	B	743631.9	1015843	2.6	2.6	0.00%	0034A	
9/15/1997	SEAD-12	B	743628.4	1015922	2.54	2.6	-2.31%	0034A	
9/15/1997	SEAD-12	B	743624.1	1016022	2.35	2.6	-9.62%	0034A	
9/15/1997	SEAD-12	B	743638.8	1015823	2.45	2.6	-5.77%	0034A	
9/15/1997	SEAD-12	B	743634.4	1015923	2.25	2.6	-13.46%	0034A	
9/15/1997	SEAD-12	B	743630.1	1016023	2.02	2.6	-22.31%	0034A	
9/15/1997	SEAD-12	B	743644.8	1015823	2.34	2.6	-10.00%	0034A	
9/15/1997	SEAD-12	B	743640.4	1015923	2.37	2.6	-8.85%	0034A	
9/15/1997	SEAD-12	B	743636.1	1016023	2.05	2.6	-21.15%	0034A	
9/15/1997	SEAD-12	B	743650.8	1015823	2.54	2.6	-2.31%	0034A	
9/15/1997	SEAD-12	B	743646.4	1015923	2.47	2.6	-5.00%	0034A	
9/15/1997	SEAD-12	B	743642.1	1016023	2.15	2.6	-17.31%	0034A	
9/15/1997	SEAD-12	B	743656.8	1015824	2.24	2.6	-13.85%	0034A	
9/15/1997	SEAD-12	B	743652.4	1015923	2.34	2.6	-10.00%	0034A	
9/15/1997	SEAD-12	B	743648.1	1016023	2.22	2.6	-14.62%	0034A	
9/15/1997	SEAD-12	B	743662.8	1015824	2.23	2.6	-14.23%	0034A	
9/15/1997	SEAD-12	B	743658.4	1015924	2.38	2.6	-8.46%	0034A	
9/15/1997	SEAD-12	B	743654.1	1016024	2.24	2.6	-13.85%	0034A	
9/15/1997	SEAD-12	B	743668.8	1015824	2.32	2.6	-10.77%	0034A	
9/15/1997	SEAD-12	B	743664.4	1015924	2.36	2.6	-9.23%	0034A	
9/15/1997	SEAD-12	B	743660.1	1016024	2.28	2.6	-12.31%	0034A	
9/15/1997	SEAD-12	B	743674.8	1015824	2.65	2.6	1.92%	0034A	
9/15/1997	SEAD-12	B	743670.4	1015924	2.44	2.6	-6.15%	0034A	
9/15/1997	SEAD-12	B	743666.1	1016024	2.26	2.6	-13.08%	0034A	
9/16/1997	SEAD-12	B	743680.8	1015825	2.11	2.6	-18.85%	0034A	
9/16/1997	SEAD-12	B	743676.4	1015924	2.16	2.6	-16.92%	0034A	
9/16/1997	SEAD-12	B	743672	1016024	2.08	2.6	-20.00%	0034A	
9/16/1997	SEAD-12	B	743686.8	1015825	2.26	2.6	-13.08%	0034A	
9/16/1997	SEAD-12	B	743682.4	1015925	2.28	2.6	-12.31%	0034A	
9/16/1997	SEAD-12	B	743678	1016025	2.12	2.6	-18.46%	0034A	
9/16/1997	SEAD-12	B	743692.8	1015825	2.07	2.6	-20.38%	0034A	
9/16/1997	SEAD-12	B	743688.4	1015925	2.13	2.6	-18.08%	0034A	
9/16/1997	SEAD-12	B	743684	1016025	2.16	2.6	-16.92%	0034A	
9/16/1997	SEAD-12	B	743698.8	1015825	2.34	2.6	-10.00%	0034A	
9/16/1997	SEAD-12	B	743694.4	1015925	2.23	2.6	-14.23%	0034A	
9/16/1997	SEAD-12	B	743690	1016025	2.1	2.6	-19.23%	0034A	
9/16/1997	SEAD-12	B	743704.8	1015826	2.13	2.6	-18.08%	0034A	
9/16/1997	SEAD-12	B	743700.4	1015926	2.15	2.6	-17.31%	0034A	
9/16/1997	SEAD-12	B	743696	1016025	2.07	2.6	-20.38%	0034A	
9/16/1997	SEAD-12	B	743710.8	1015826	2.33	2.6	-10.38%	0034A	

Appendix F  
Area B Gamma Scanning Results  
SEAD-12 Remedial Investigation  
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Collection Date	Site	Area	NAD-27		Value	Background (kcpm)	% +/- BKG	Instrument (s/n)	Comments
			Easting	Northing					
9/16/1997	SEAD-12	B	743706.4	1015926	2.27	2.6	-12.69%	0034A	
9/16/1997	SEAD-12	B	743702	1016026	2.3	2.6	-11.54%	0034A	
9/16/1997	SEAD-12	B	743716.8	1015826	2.2	2.6	-15.38%	0034A	
9/16/1997	SEAD-12	B	743712.4	1015926	2.21	2.6	-15.00%	0034A	
9/16/1997	SEAD-12	B	743708	1016026	2.24	2.6	-13.85%	0034A	
9/16/1997	SEAD-12	B	743722.8	1015826	2.2	2.6	-15.38%	0034A	
9/16/1997	SEAD-12	B	743718.4	1015926	2.24	2.6	-13.85%	0034A	
9/16/1997	SEAD-12	B	743714	1016026	2.34	2.6	-10.00%	0034A	
9/16/1997	SEAD-12	B	743728.8	1015827	2.29	2.6	-11.92%	0034A	
9/16/1997	SEAD-12	B	743724.4	1015927	2.25	2.6	-13.46%	0034A	
9/16/1997	SEAD-12	B	743720	1016026	2.25	2.6	-13.46%	0034A	
9/16/1997	SEAD-12	B	743734.8	1015627	2.23	2.6	-14.23%	0034A	
9/16/1997	SEAD-12	B	743730.4	1015927	2.21	2.6	-15.00%	0034A	
9/16/1997	SEAD-12	B	743726	1016027	2.12	2.6	-18.46%	0034A	
9/16/1997	SEAD-12	B	743740.8	1015627	2.16	2.6	-16.92%	0034A	
9/16/1997	SEAD-12	B	743736.4	1015927	2.25	2.6	-13.46%	0034A	
9/16/1997	SEAD-12	B	743732	1016027	2.15	2.6	-17.31%	0034A	
9/16/1997	SEAD-12	B	743746.7	1015827	2.33	2.6	-10.38%	0034A	
9/16/1997	SEAD-12	B	743742.3	1015927	2.32	2.6	-10.77%	0034A	
9/16/1997	SEAD-12	B	743737.9	1016027	2.3	2.6	-11.54%	0034A	
9/16/1997	SEAD-12	B	743752.7	1015828	2.12	2.6	-18.46%	0034A	
9/16/1997	SEAD-12	B	743748.3	1015928	2.26	2.6	-13.08%	0034A	
9/16/1997	SEAD-12	B	743743.9	1016028	2.1	2.6	-19.23%	0034A	
9/16/1997	SEAD-12	B	743758.7	1015828	2.34	2.6	-10.00%	0034A	
9/16/1997	SEAD-12	B	743754.3	1015928	2.36	2.6	-9.23%	0034A	
9/16/1997	SEAD-12	B	743749.9	1016028	2.17	2.6	-16.54%	0034A	
9/16/1997	SEAD-12	B	743764.7	1015828	2.18	2.6	-16.15%	0034A	
9/16/1997	SEAD-12	B	743760.3	1015928	2.2	2.6	-15.38%	0034A	
9/16/1997	SEAD-12	B	743755.9	1016028	2.14	2.6	-17.69%	0034A	
9/16/1997	SEAD-12	B	743770.7	1015828	2.32	2.6	-10.77%	0034A	
9/16/1997	SEAD-12	B	743766.3	1015928	2.4	2.6	-7.69%	0034A	
9/16/1997	SEAD-12	B	743761.9	1016028	2.25	2.6	-13.46%	0034A	
9/16/1997	SEAD-12	B	743776.7	1015829	2.14	2.6	-17.69%	0034A	
9/16/1997	SEAD-12	B	743772.3	1015929	2.25	2.6	-13.46%	0034A	
9/16/1997	SEAD-12	B	743767.9	1016029	2.25	2.6	-13.46%	0034A	
9/16/1997	SEAD-12	B	743782.7	1015829	2.21	2.6	-15.00%	0034A	
9/16/1997	SEAD-12	B	743778.3	1015929	2.39	2.6	-8.08%	0034A	
9/16/1997	SEAD-12	B	743773.9	1016029	2.26	2.6	-13.08%	0034A	
9/16/1997	SEAD-12	B	743788.7	1015829	2.2	2.6	-15.38%	0034A	
9/16/1997	SEAD-12	B	743784.3	1015929	2.25	2.6	-13.46%	0034A	
9/16/1997	SEAD-12	B	743779.9	1016029	2.26	2.6	-13.08%	0034A	
9/16/1997	SEAD-12	B	743794.7	1015830	2.38	2.6	-8.46%	0034A	
9/16/1997	SEAD-12	B	743790.3	1015929	2.44	2.6	-6.15%	0034A	
9/16/1997	SEAD-12	B	743785.9	1016029	2.38	2.6	-8.46%	0034A	
9/16/1997	SEAD-12	B	743800.7	1015830	2.3	2.6	-11.54%	0034A	
9/16/1997	SEAD-12	B	743796.3	1015930	2.41	2.6	-7.31%	0034A	
9/16/1997	SEAD-12	B	743791.9	1016030	2.4	2.6	-7.69%	0034A	
9/16/1997	SEAD-12	B	743806.6	1015830	2.48	2.6	-4.62%	0034A	
9/16/1997	SEAD-12	B	743802.3	1015930	2.55	2.6	-1.92%	0034A	
9/16/1997	SEAD-12	B	743797.9	1016030	2.38	2.6	-8.46%	0034A	
9/16/1997	SEAD-12	B	743812.6	1015830	2.32	2.6	-10.77%	0034A	
9/16/1997	SEAD-12	B	743808.3	1015930	2.44	2.6	-6.15%	0034A	
9/16/1997	SEAD-12	B	743803.9	1016030	2.35	2.6	-9.62%	0034A	
9/16/1997	SEAD-12	B	743818.6	1015831	2.42	2.6	-6.92%	0034A	
9/16/1997	SEAD-12	B	743814.3	1015930	2.68	2.6	3.08%	0034A	
9/16/1997	SEAD-12	B	743809.9	1016030	2.6	2.6	0.00%	0034A	
9/16/1997	SEAD-12	B	743824.6	1015831	2.36	2.6	-9.23%	0034A	
9/16/1997	SEAD-12	B	743820.3	1015931	2.51	2.6	-3.46%	0034A	
9/16/1997	SEAD-12	B	743815.9	1016031	2.5	2.6	-3.85%	0034A	
9/16/1997	SEAD-12	B	743830.6	1015831	2.52	2.6	-3.08%	0034A	
9/16/1997	SEAD-12	B	743826.3	1015931	2.68	2.6	3.08%	0034A	
9/16/1997	SEAD-12	B	743821.9	1016031	2.52	2.6	-3.08%	0034A	
9/16/1997	SEAD-12	B	743836.6	1015831	2.35	2.6	-9.62%	0034A	
9/16/1997	SEAD-12	B	743832.3	1015931	2.69	2.6	3.46%	0034A	
9/16/1997	SEAD-12	B	743827.9	1016031	2.6	2.6	0.00%	0034A	
9/16/1997	SEAD-12	B	743842.6	1015832	2.4	2.6	-7.69%	0034A	
9/16/1997	SEAD-12	B	743838.3	1015932	2.69	2.6	3.46%	0034A	
9/16/1997	SEAD-12	B	743833.9	1016031	2.5	2.6	-3.85%	0034A	
9/16/1997	SEAD-12	B	743848.6	1015832	2.42	2.6	-6.92%	0034A	
9/16/1997	SEAD-12	B	743844.3	1015932	2.41	2.6	-7.31%	0034A	
9/16/1997	SEAD-12	B	743839.9	1016032	2.5	2.6	-3.85%	0034A	
9/16/1997	SEAD-12	B	743854.6	1015832	2.42	2.6	-6.92%	0034A	
9/16/1997	SEAD-12	B	743850.3	1015932	2.72	2.6	4.62%	0034A	
9/16/1997	SEAD-12	B	743845.9	1016032	2.5	2.6	-3.85%	0034A	
9/17/1997	SEAD-12	B	743860.6	1015832	2.13	2.5	-14.80%	0034A	
9/17/1997	SEAD-12	B	743856.3	1015932	2.29	2.5	-8.40%	0034A	
9/17/1997	SEAD-12	B	743851.9	1016032	2.25	2.5	-10.00%	0034A	
9/17/1997	SEAD-12	B	743866.6	1015833	2.25	2.5	-10.00%	0034A	
9/17/1997	SEAD-12	B	743862.3	1015933	2.49	2.5	-0.40%	0034A	
9/17/1997	SEAD-12	B	743857.9	1016032	2.39	2.5	-4.40%	0034A	

Appendix F  
Area B Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Value	Background (kcpm)	% +/- BKG	Instrument (s/n)	Comments
			Easting	Northing					
9/17/1997	SEAD-12	B	743872.6	1015833	2.3	2.5	-8.00%	0034A	
9/17/1997	SEAD-12	B	743868.3	1015933	2.28	2.5	-8.80%	0034A	
9/17/1997	SEAD-12	B	743863.9	1016033	2.3	2.5	-8.00%	0034A	
9/17/1997	SEAD-12	B	743878.6	1015833	2.38	2.5	-4.80%	0034A	
9/17/1997	SEAD-12	B	743874.2	1015933	2.5	2.5	0.00%	0034A	
9/17/1997	SEAD-12	B	743869.8	1016033	2.35	2.5	-6.00%	0034A	
9/17/1997	SEAD-12	B	743884.6	1015833	2.31	2.5	-7.80%	0034A	
9/17/1997	SEAD-12	B	743880.2	1015933	2.37	2.5	-5.20%	0034A	
9/17/1997	SEAD-12	B	743875.8	1016033	2.28	2.5	-8.80%	0034A	
9/17/1997	SEAD-12	B	743890.6	1015834	2.36	2.5	-5.60%	0034A	
9/17/1997	SEAD-12	B	743886.2	1015934	2.4	2.5	-4.00%	0034A	
9/17/1997	SEAD-12	B	743881.8	1016034	2.3	2.5	-8.00%	0034A	
9/17/1997	SEAD-12	B	743896.6	1015834	2.33	2.5	-6.80%	0034A	
9/17/1997	SEAD-12	B	743892.2	1015934	2.27	2.5	-9.20%	0034A	
9/17/1997	SEAD-12	B	743887.8	1016034	2.35	2.5	-6.00%	0034A	
9/17/1997	SEAD-12	B	743902.6	1015834	2.25	2.5	-10.00%	0034A	
9/17/1997	SEAD-12	B	743898.2	1015934	2.43	2.5	-2.80%	0034A	
9/17/1997	SEAD-12	B	743893.8	1016034	2.2	2.5	-12.00%	0034A	
9/17/1997	SEAD-12	B	743908.6	1015835	2.3	2.5	-8.00%	0034A	
9/17/1997	SEAD-12	B	743904.2	1015934	2.45	2.5	-2.00%	0034A	
9/17/1997	SEAD-12	B	743899.8	1016034	2.35	2.5	-6.00%	0034A	
9/17/1997	SEAD-12	B	743914.6	1015835	2.43	2.5	-2.80%	0034A	
9/17/1997	SEAD-12	B	743910.2	1015935	2.59	2.5	3.60%	0034A	
9/17/1997	SEAD-12	B	743905.8	1016035	2.54	2.5	1.60%	0034A	
9/17/1997	SEAD-12	B	743920.6	1015835	2.33	2.5	-6.80%	0034A	
9/17/1997	SEAD-12	B	743916.2	1015935	2.5	2.5	0.00%	0034A	
9/17/1997	SEAD-12	B	743911.8	1016035	2.51	2.5	0.40%	0034A	
9/17/1997	SEAD-12	B	743926.6	1015835	2.4	2.5	-4.00%	0034A	
9/17/1997	SEAD-12	B	743922.2	1015935	2.74	2.5	9.60%	0034A	
9/17/1997	SEAD-12	B	743917.8	1016035	2.48	2.5	-0.80%	0034A	
9/17/1997	SEAD-12	B	743932.6	1015836	2.28	2.5	-8.80%	0034A	
9/17/1997	SEAD-12	B	743928.2	1015935	2.7	2.5	8.00%	0034A	
9/17/1997	SEAD-12	B	743923.8	1016035	2.62	2.5	4.80%	0034A	
9/17/1997	SEAD-12	B	743938.5	1015836	2.38	2.5	-4.80%	0034A	
9/17/1997	SEAD-12	B	743934.1	1015936	2.75	2.5	10.00%	0034A	
9/17/1997	SEAD-12	B	743929.8	1016036	2.72	2.5	8.80%	0034A	
9/18/1997	SEAD-12	B	743944.5	1015836	2.12	2.7	-21.48%	0034A	
9/18/1997	SEAD-12	B	743940.1	1015936	2.4	2.7	-11.11%	0034A	
9/18/1997	SEAD-12	B	743935.8	1016036	2.32	2.7	-14.07%	0034A	
9/18/1997	SEAD-12	B	743950.5	1015836	2.25	2.7	-16.67%	0034A	
9/18/1997	SEAD-12	B	743946.1	1015936	2.5	2.7	-7.41%	0034A	
9/18/1997	SEAD-12	B	743941.8	1016036	2.42	2.7	-10.37%	0034A	
9/18/1997	SEAD-12	B	743956.5	1015837	2.15	2.7	-20.37%	0034A	
9/18/1997	SEAD-12	B	743952.1	1015937	2.35	2.7	-12.96%	0034A	
9/18/1997	SEAD-12	B	743947.8	1016036	2.3	2.7	-14.81%	0034A	
9/18/1997	SEAD-12	B	743962.5	1015837	2.25	2.7	-16.67%	0034A	
9/18/1997	SEAD-12	B	743958.1	1015937	2.5	2.7	-7.41%	0034A	
9/18/1997	SEAD-12	B	743953.8	1016037	2.38	2.7	-11.85%	0034A	
9/18/1997	SEAD-12	B	743968.5	1015837	2.28	2.7	-15.56%	0034A	
9/18/1997	SEAD-12	B	743964.1	1015937	2.34	2.7	-13.33%	0034A	
9/18/1997	SEAD-12	B	743959.8	1016037	2.45	2.7	-9.26%	0034A	
9/18/1997	SEAD-12	B	743974.5	1015837	2.2	2.7	-18.52%	0034A	
9/18/1997	SEAD-12	B	743970.1	1015937	2.58	2.7	-4.44%	0034A	
9/18/1997	SEAD-12	B	743965.8	1016037	2.55	2.7	-5.56%	0034A	
9/18/1997	SEAD-12	B	743980.5	1015838	2.25	2.7	-16.67%	0034A	
9/18/1997	SEAD-12	B	743976.1	1015938	2.4	2.7	-11.11%	0034A	
9/18/1997	SEAD-12	B	743971.8	1016037	2.5	2.7	-7.41%	0034A	
9/18/1997	SEAD-12	B	743986.5	1015838	2.42	2.7	-10.37%	0034A	
9/18/1997	SEAD-12	B	743982.1	1015938	2.58	2.7	-4.44%	0034A	
9/18/1997	SEAD-12	B	743977.8	1016038	2.6	2.7	-3.70%	0034A	
9/18/1997	SEAD-12	B	743992.5	1015838	2.34	2.7	-13.33%	0034A	
9/18/1997	SEAD-12	B	743988.1	1015938	2.53	2.7	-6.30%	0034A	
9/18/1997	SEAD-12	B	743983.8	1016038	2.54	2.7	-5.93%	0034A	
9/18/1997	SEAD-12	B	743998.5	1015838	2.34	2.7	-13.33%	0034A	
9/18/1997	SEAD-12	B	743994.1	1015938	2.46	2.7	-8.89%	0034A	
9/18/1997	SEAD-12	B	743989.8	1016038	2.44	2.7	-9.63%	0034A	
9/18/1997	SEAD-12	B	744004.4	1015839	2.38	2.7	-11.85%	0034A	
9/18/1997	SEAD-12	B	744000.1	1015939	2.48	2.7	-8.15%	0034A	
9/18/1997	SEAD-12	B	743995.7	1016039	2.54	2.7	-5.93%	0034A	
9/18/1997	SEAD-12	B	744010.4	1015839	2.55	2.7	-5.56%	0034A	
9/18/1997	SEAD-12	B	744006.1	1015939	2.73	2.7	1.11%	0034A	
9/18/1997	SEAD-12	B	744001.7	1016039	2.6	2.7	-3.70%	0034A	
9/18/1997	SEAD-12	B	744016.4	1015839	2.5	2.7	-7.41%	0034A	
9/18/1997	SEAD-12	B	744012.1	1015939	2.61	2.7	-3.33%	0034A	
9/18/1997	SEAD-12	B	744007.7	1016039	2.54	2.7	-5.93%	0034A	
9/18/1997	SEAD-12	B	744022.4	1015840	2.6	2.7	-3.70%	0034A	
9/18/1997	SEAD-12	B	744018.1	1015939	2.77	2.7	2.59%	0034A	
9/18/1997	SEAD-12	B	744013.7	1016039	2.7	2.7	0.00%	0034A	
9/18/1997	SEAD-12	B	744028.4	1015840	2.44	2.7	-9.63%	0034A	
9/18/1997	SEAD-12	B	744024.1	1015940	2.59	2.7	-4.07%	0034A	

**Appendix F**  
**Area B Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	NAD-27		Value	Background	% +/- BKG	Instrument	Comments
			Easting	Northing					
9/18/1997	SEAD-12	B	744019.7	1016040	2.45	2.7	-9.26%	0034A	
							30.77%		
							-3.85%		

Appendix F  
Area C Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Line	Min	Mean	Max	Background	% +/- Background	Instrument	Comments
			easting	northing								
9/18/1997	SEAD-12	C	744598 9	1015339	C-0	2.63	2.7	2.75	2.74	-1.46%	0034A	
9/18/1997	SEAD-12	C	744698 8	1015344	C-0	2.74	2.79	2.86	2.74	1.82%	0034A	
9/18/1997	SEAD-12	C	744798 7	1015348	C-0	2.67	2.74	2.82	2.74	0.00%	0034A	
9/18/1997	SEAD-12	C	744598 6	1015345	C-2	2.67	2.73	2.78	2.74	-0.36%	0034A	
9/18/1997	SEAD-12	C	744698 5	1015350	C-2	2.69	2.75	2.76	2.74	0.36%	0034A	
9/18/1997	SEAD-12	C	744798 4	1015354	C-2	2.61	2.7	2.78	2.74	-1.46%	0034A	
9/18/1997	SEAD-12	C	744598 4	1015351	C-4	2.74	2.79	2.88	2.74	1.82%	0034A	
9/18/1997	SEAD-12	C	744698 3	1015356	C-4	2.78	2.85	2.96	2.74	4.01%	0034A	
9/18/1997	SEAD-12	C	744798 2	1015360	C-4	2.7	2.78	2.82	2.74	1.46%	0034A	
9/18/1997	SEAD-12	C	744598 1	1015357	C-6	2.68	2.79	2.85	2.74	1.82%	0034A	
9/18/1997	SEAD-12	C	744698	1015362	C-6	2.61	2.84	2.92	2.74	3.65%	0034A	
9/18/1997	SEAD-12	C	744797 9	1015366	C-6	2.62	2.65	2.71	2.74	-3.28%	0034A	
9/18/1997	SEAD-12	C	744597 8	1015363	C-8	2.76	2.83	2.89	2.74	3.28%	0034A	
9/18/1997	SEAD-12	C	744697 8	1015368	C-8	2.72	2.8	2.88	2.74	2.19%	0034A	
9/18/1997	SEAD-12	C	744797 6	1015372	C-8	2.66	2.74	2.87	2.74	0.00%	0034A	
9/18/1997	SEAD-12	C	744597 6	1015369	C-10	2.68	2.87	2.97	2.74	4.74%	0034A	
9/18/1997	SEAD-12	C	744697 5	1015374	C-10	2.66	2.74	2.82	2.74	0.00%	0034A	
9/18/1997	SEAD-12	C	744797 4	1015378	C-10	2.66	2.75	2.85	2.74	0.36%	0034A	
11/18/1998	SEAD-12	C	744652 4	1015375	C-11	9	10.8	12	10.8	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744682 4	1015376	C-11	9	11	12	10.8	1.85%	B009V/B125V	
11/18/1998	SEAD-12	C	744712 3	1015377	C-11	9	11	12	10.8	1.85%	B009V/B125V	
11/18/1998	SEAD-12	C	744742 3	1015379	C-11	9	10.9	12	10.8	0.93%	B009V/B125V	
11/18/1998	SEAD-12	C	744772 3	1015380	C-11	9	10.9	12	10.8	0.93%	B009V/B125V	
11/18/1998	SEAD-12	C	744802 3	1015381	C-11	9	11.2	12	10.8	3.70%	B009V/B125V	
11/18/1998	SEAD-12	C	744832 2	1015382	C-11	9	10.8	12	10.8	0.00%	B009V/B125V	
9/18/1997	SEAD-12	C	744597 3	1015375	C-12	2.64	2.73	2.79	2.74	-0.36%	0034A	
9/18/1997	SEAD-12	C	744697 2	1015380	C-12	2.65	2.77	2.9	2.74	1.09%	0034A	
9/18/1997	SEAD-12	C	744797 1	1015384	C-12	2.69	2.77	2.86	2.74	1.09%	0034A	
11/18/1998	SEAD-12	C	744652 1	1015381	C-13	10	10.9	12	10.8	0.93%	B009V/B125V	
11/18/1998	SEAD-12	C	744682 1	1015382	C-13	10	11.3	12	10.8	4.63%	B009V/B125V	
11/18/1998	SEAD-12	C	744712 1	1015383	C-13	10	11.3	12	10.8	4.63%	B009V/B125V	
11/18/1998	SEAD-12	C	744742 1	1015385	C-13	10	11.2	12	10.8	3.70%	B009V/B125V	
11/18/1998	SEAD-12	C	744772	1015386	C-13	10	11.1	12	10.8	2.78%	B009V/B125V	
11/18/1998	SEAD-12	C	744802	1015387	C-13	10	11	12	10.8	1.85%	B009V/B125V	
11/18/1998	SEAD-12	C	744831 9	1015388	C-13	10	11	12	10.8	1.85%	B009V/B125V	
9/18/1997	SEAD-12	C	744597 1	1015381	C-14	2.64	2.71	2.78	2.74	-1.09%	0034A	
9/18/1997	SEAD-12	C	744696 9	1015386	C-14	2.61	2.72	2.8	2.74	-0.73%	0034A	
9/18/1997	SEAD-12	C	744796 9	1015390	C-14	2.69	2.72	2.79	2.74	-0.73%	0034A	
11/18/1998	SEAD-12	C	744651 9	1015387	C-15	8	11	13	10.8	1.85%	B009V/B125V	
11/18/1998	SEAD-12	C	744681 8	1015388	C-15	8	11.1	13	10.8	2.78%	B009V/B125V	
11/18/1998	SEAD-12	C	744711 8	1015389	C-15	8	11	13	10.8	1.85%	B009V/B125V	
11/18/1998	SEAD-12	C	744741 8	1015391	C-15	8	10.9	13	10.8	0.93%	B009V/B125V	
11/18/1998	SEAD-12	C	744771 8	1015392	C-15	8	11.4	13	10.8	5.56%	B009V/B125V	
11/18/1998	SEAD-12	C	744801 8	1015393	C-15	8	11.3	13	10.8	4.63%	B009V/B125V	
11/18/1998	SEAD-12	C	744831 7	1015394	C-15	8	11.4	13	10.8	5.56%	B009V/B125V	
9/18/1997	SEAD-12	C	744596 8	1015387	C-16	2.72	2.84	2.92	2.74	3.65%	0034A	
9/18/1997	SEAD-12	C	744696 7	1015392	C-16	2.61	2.7	2.82	2.74	-1.46%	0034A	
9/18/1997	SEAD-12	C	744796 6	1015396	C-16	2.56	2.68	2.8	2.74	-2.19%	0034A	
11/18/1998	SEAD-12	C	744651 6	1015393	C-17	9	11.4	12	10.8	5.56%	B009V/B125V	
11/18/1998	SEAD-12	C	744681 6	1015394	C-17	9	11.2	12	10.8	3.70%	B009V/B125V	
11/18/1998	SEAD-12	C	744711 6	1015395	C-17	9	11.1	12	10.8	2.78%	B009V/B125V	
11/18/1998	SEAD-12	C	744741 5	1015397	C-17	9	11	12	10.8	1.85%	B009V/B125V	
11/18/1998	SEAD-12	C	744771 5	1015398	C-17	9	10.9	12	10.8	0.93%	B009V/B125V	
11/18/1998	SEAD-12	C	744801 4	1015399	C-17	9	11	12	10.8	1.85%	B009V/B125V	
11/18/1998	SEAD-12	C	744831 4	1015400	C-17	9	11.1	12	10.8	2.78%	B009V/B125V	
9/19/1997	SEAD-12	C	744596 5	1015393	C-18	2.5	2.58	2.65	2.62	-1.53%	0034A	
9/19/1997	SEAD-12	C	744696 4	1015398	C-18	2.34	2.49	2.65	2.62	-4.96%	0034A	
9/19/1997	SEAD-12	C	744796 3	1015402	C-18	2.38	2.46	2.54	2.62	-6.11%	0034A	
11/18/1998	SEAD-12	C	744651 3	1015399	C-19	8	8.9	12	10.8	-17.59%	B009V/B125V	
11/18/1998	SEAD-12	C	744681 3	1015400	C-19	8	9.2	12	10.8	-14.81%	B009V/B125V	
11/18/1998	SEAD-12	C	744711 3	1015401	C-19	8	9.7	12	10.8	-10.19%	B009V/B125V	
11/18/1998	SEAD-12	C	744741 3	1015403	C-19	8	9.8	12	10.8	-9.26%	B009V/B125V	
11/18/1998	SEAD-12	C	744771 3	1015404	C-19	8	9.6	12	10.8	-11.11%	B009V/B125V	
11/18/1998	SEAD-12	C	744801 2	1015405	C-19	8	10.2	12	10.8	-5.56%	B009V/B125V	
11/18/1998	SEAD-12	C	744831 2	1015406	C-19	8	10.3	12	10.8	-4.63%	B009V/B125V	
9/19/1997	SEAD-12	C	744596 3	1015399	C-20	2.42	2.52	2.57	2.62	-3.82%	0034A	
9/19/1997	SEAD-12	C	744696 2	1015404	C-20	2.3	2.39	2.47	2.62	-8.78%	0034A	
9/19/1997	SEAD-12	C	744796 1	1015408	C-20	2.36	2.47	2.54	2.62	-5.73%	0034A	
11/18/1998	SEAD-12	C	744651 1	1015405	C-21	8	10.3	12	10.8	-4.63%	B009V/B125V	
11/18/1998	SEAD-12	C	744681 1	1015406	C-21	8	10.1	12	10.8	-6.48%	B009V/B125V	
11/18/1998	SEAD-12	C	744711	1015407	C-21	8	9.8	12	10.8	-9.26%	B009V/B125V	
11/18/1998	SEAD-12	C	744741	1015409	C-21	8	9.4	12	10.8	-12.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744770 9	1015410	C-21	8	9.1	12	10.8	-15.74%	B009V/B125V	
11/18/1998	SEAD-12	C	744800 9	1015411	C-21	8	9.2	12	10.8	-14.81%	B009V/B125V	
11/18/1998	SEAD-12	C	744830 9	1015412	C-21	8	9.6	12	10.8	-11.11%	B009V/B125V	
9/19/1997	SEAD-12	C	744596	1015405	C-22	2.5	2.59	2.7	2.62	-1.15%	0034A	
9/19/1997	SEAD-12	C	744695 9	1015410	C-22	2.41	2.5	2.6	2.62	-4.58%	0034A	
9/19/1997	SEAD-12	C	744795 8	1015414	C-22	2.39	2.49	2.57	2.62	-4.96%	0034A	
11/18/1998	SEAD-12	C	744650 8	1015411	C-23	9	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744680 8	1015412	C-23	9	9.2	11	10.8	-14.81%	B009V/B125V	
11/18/1998	SEAD-12	C	744710 8	1015413	C-23	9	9.6	11	10.8	-11.11%	B009V/B125V	
11/18/1998	SEAD-12	C	744740 8	1015415	C-23	9	9.6	11	10.8	-11.11%	B009V/B125V	
11/18/1998	SEAD-12	C	744770 7	1015416	C-23	9	9.7	11	10.8	-10.19%	B009V/B125V	
11/18/1998	SEAD-12	C	744800 7	1015417	C-23	9	10	11	10.8	-7.41%	B009V/B125V	
11/18/1998	SEAD-12	C	744830 6	1015418	C-23	9	10.2	11	10.8	-5.56%	B009V/B125V	
9/19/1997	SEAD-12	C	744595 8	1015411	C-24	3.17	3.2	3.34	3.31	-3.32%	0033A	
9/19/1997	SEAD-12	C	744695 6	1015416	C-24	3.07	3.12	3.34	3.31	-5.74%	0033A	



Appendix F  
Area C Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Line	Min	Mean	Max	Background	% +/- Background	Instrument (s/n)	Comments
			easting	northing								
9/19/1997	SEAD-12	C	744795.6	1015420	C-24	2.99	3.03	3.16	3.31	-8.46%	0033A	
11/18/1998	SEAD-12	C	744650.6	1015417	C-25	8	10.7	12	10.8	-0.93%	B009V/B125V	
11/18/1998	SEAD-12	C	744680.5	1015418	C-25	8	9.9	12	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744710.5	1015419	C-25	8	10	12	10.8	-7.41%	B009V/B125V	
11/18/1998	SEAD-12	C	744740.4	1015421	C-25	8	10	12	10.8	-7.41%	B009V/B125V	
11/18/1998	SEAD-12	C	744770.4	1015422	C-25	8	9.7	12	10.8	-10.19%	B009V/B125V	
11/18/1998	SEAD-12	C	744800.4	1015423	C-25	8	9.5	12	10.8	-12.04%	B009V/B125V	
11/18/1998	SEAD-12	C	744830.4	1015424	C-25	8	10.3	12	10.8	-4.63%	B009V/B125V	
9/19/1997	SEAD-12	C	744595.5	1015417	C-26	2.99	3.02	3.11	3.31	-8.76%	0033A	
9/19/1997	SEAD-12	C	744695.4	1015422	C-26	2.74	2.83	2.9	3.31	-14.50%	0033A	
9/19/1997	SEAD-12	C	744795.3	1015426	C-26	2.74	2.9	3.16	3.31	-12.39%	0033A	
11/18/1998	SEAD-12	C	744650.3	1015423	C-27	8	10.2	11	10.8	-5.56%	B009V/B125V	
11/18/1998	SEAD-12	C	744680.3	1015424	C-27	8	10	11	10.8	-7.41%	B009V/B125V	
11/18/1998	SEAD-12	C	744710.3	1015425	C-27	8	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744740.2	1015427	C-27	8	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744770.2	1015428	C-27	8	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744800.1	1015429	C-27	8	9.5	11	10.8	-12.04%	B009V/B125V	
11/18/1998	SEAD-12	C	744830.1	1015430	C-27	8	10	11	10.8	-7.41%	B009V/B125V	
9/19/1997	SEAD-12	C	744595.2	1015423	C-28	2.58	2.64	2.74	2.62	0.76%	0034A	
9/19/1997	SEAD-12	C	744695.1	1015428	C-28	2.5	2.58	2.74	2.62	-1.53%	0034A	
9/19/1997	SEAD-12	C	744795	1015432	C-28	2.4	2.57	2.74	2.62	-1.91%	0034A	
11/18/1998	SEAD-12	C	744650	1015429	C-29	8	10.2	11	10.8	-5.56%	B009V/B125V	
11/18/1998	SEAD-12	C	744680	1015430	C-29	8	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744709.9	1015431	C-29	8	9.8	11	10.8	-9.26%	B009V/B125V	
11/18/1998	SEAD-12	C	744739.9	1015433	C-29	8	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744769.9	1015434	C-29	8	9.5	11	10.8	-12.04%	B009V/B125V	
11/18/1998	SEAD-12	C	744799.9	1015435	C-29	8	9.8	11	10.8	-9.26%	B009V/B125V	
11/18/1998	SEAD-12	C	744829.9	1015436	C-29	8	10	11	10.8	-7.41%	B009V/B125V	
9/19/1997	SEAD-12	C	744595.4	1015419	C-30	2.63	2.69	2.79	2.62	2.67%	0034A	
9/19/1997	SEAD-12	C	744695.3	1015424	C-30	2.54	2.6	2.65	2.62	-0.76%	0034A	
9/19/1997	SEAD-12	C	744795.2	1015428	C-30	2.51	2.64	2.78	2.62	0.76%	0034A	
11/18/1998	SEAD-12	C	744650.2	1015425	C-29	8	10.2	11	10.8	-5.56%	B009V/B125V	
11/18/1998	SEAD-12	C	744680.2	1015426	C-29	8	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744710.1	1015427	C-29	8	9.8	11	10.8	-9.26%	B009V/B125V	
11/18/1998	SEAD-12	C	744740.1	1015429	C-29	8	9.9	11	10.8	-8.33%	B009V/B125V	
11/18/1998	SEAD-12	C	744770.1	1015430	C-29	8	9.5	11	10.8	-12.04%	B009V/B125V	
11/18/1998	SEAD-12	C	744800.1	1015431	C-29	8	9.8	11	10.8	-9.26%	B009V/B125V	
11/18/1998	SEAD-12	C	744830	1015432	C-29	8	10	11	10.8	-7.41%	B009V/B125V	
9/19/1997	SEAD-12	C	744595.1	1015425	C-32	3.16	3.24	3.32	3.31	-2.11%	0033A	
9/19/1997	SEAD-12	C	744695	1015430	C-32	3.07	3.28	3.41	3.31	-0.91%	0033A	
9/19/1997	SEAD-12	C	744794.9	1015434	C-32	3.09	3.18	3.31	3.31	-3.93%	0033A	
11/18/1998	SEAD-12	C	744649.9	1015431	C-33	8	9.6	12	10.2	-5.88%	B009V/B125V	
11/18/1998	SEAD-12	C	744679.9	1015432	C-33	8	9.9	12	10.2	-2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744709.9	1015433	C-33	8	9.9	12	10.2	-2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744739.9	1015435	C-33	8	10.5	12	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744769.8	1015436	C-33	8	10.3	12	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744799.8	1015437	C-33	8	10.7	12	10.2	4.90%	B009V/B125V	
11/18/1998	SEAD-12	C	744829.8	1015438	C-33	8	10.6	12	10.2	3.92%	B009V/B125V	
9/19/1997	SEAD-12	C	744594.9	1015431	C-34	2.9	2.97	3.07	3.31	-10.27%	0033A	
9/19/1997	SEAD-12	C	744694.8	1015436	C-34	2.84	2.94	3.01	3.31	-11.18%	0033A	
9/19/1997	SEAD-12	C	744794.7	1015440	C-34	2.74	2.92	3.19	3.31	-11.78%	0033A	
11/18/1998	SEAD-12	C	744649.7	1015437	C-35	8	9.6	12	10.2	-5.88%	B009V/B125V	
11/18/1998	SEAD-12	C	744679.6	1015438	C-35	8	9.9	12	10.2	-2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744709.6	1015439	C-35	8	9.9	12	10.2	-2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744739.6	1015440	C-35	8	10.5	12	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744769.6	1015442	C-35	8	10.3	12	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744799.6	1015443	C-35	8	10.7	12	10.2	4.90%	B009V/B125V	
11/18/1998	SEAD-12	C	744829.5	1015444	C-35	8	10.6	12	10.2	3.92%	B009V/B125V	
9/19/1997	SEAD-12	C	744594.6	1015437	C-36	2.61	2.68	2.8	2.62	2.29%	0034A	
9/19/1997	SEAD-12	C	744694.5	1015442	C-36	2.57	2.65	2.73	2.62	1.15%	0034A	
9/19/1997	SEAD-12	C	744794.4	1015446	C-36	2.26	2.52	2.64	2.62	-3.82%	0034A	
11/18/1998	SEAD-12	C	744649.4	1015443	C-37	9	10.6	13	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744679.4	1015444	C-37	9	10.4	13	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744709.4	1015445	C-37	9	10.4	13	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744739.3	1015446	C-37	9	10.3	13	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744769.3	1015448	C-37	9	10.2	13	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744799.3	1015449	C-37	9	10.2	13	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744829.3	1015450	C-37	9	9.9	13	10.2	-2.94%	B009V/B125V	
9/19/1997	SEAD-12	C	744594.3	1015443	C-38	2.56	2.66	2.76	2.62	1.53%	0034A	
9/19/1997	SEAD-12	C	744694.3	1015448	C-38	2.46	2.51	2.56	2.62	-4.20%	0034A	
9/19/1997	SEAD-12	C	744794.1	1015452	C-38	2.57	2.41	2.55	2.62	-8.02%	0034A	
11/18/1998	SEAD-12	C	744649.1	1015449	C-39	7	10.3	11	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744679.1	1015450	C-39	7	10.3	11	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744709.1	1015451	C-39	7	10.4	11	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744739.1	1015452	C-39	7	10.6	11	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744769.1	1015454	C-39	7	10.3	11	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744799	1015455	C-39	7	10.5	11	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744829	1015456	C-39	7	10.6	11	10.2	3.92%	B009V/B125V	
9/19/1997	SEAD-12	C	744594.1	1015449	C-40	3.11	3.17	3.23	3.31	-4.23%	0033A	
9/19/1997	SEAD-12	C	744694	1015454	C-40	3.01	3.15	3.27	3.31	-4.83%	0033A	
9/19/1997	SEAD-12	C	744793.9	1015458	C-40	2.87	2.95	3.08	3.31	-10.88%	0033A	
11/18/1998	SEAD-12	C	744648.9	1015455	C-41	9	10.4	13	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744678.9	1015456	C-41	9	10.3	13	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744708.8	1015457	C-41	9	10.2	13	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744738.8	1015458	C-41	9	10.7	13	10.2	4.90%	B009V/B125V	
11/18/1998	SEAD-12	C	744768.8	1015460	C-41	9	10.8	13	10.2	5.88%	B009V/B125V	
11/18/1998	SEAD-12	C	744798.8	1015461	C-41	9	10.1	13	10.2	-0.98%	B009V/B125V	

Appendix F  
Area C Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Line	Min	Mean	Max	Background	% +/- Background	Instrument (s/n)	Comments
			easting	northing								
11/18/1998	SEAD-12	C	744828.7	1015462	C-41	9	10.7	13	10.2	4.90%	B009V/B125V	
9/19/1997	SEAD-12	C	744593.8	1015455	C-42	2.83	2.97	3.05	3.31	-10.27%	0033A	
9/19/1997	SEAD-12	C	744693.7	1015460	C-42	2.76	2.79	2.88	3.31	-15.71%	0033A	
9/19/1997	SEAD-12	C	744793.6	1015464	C-42	2.58	2.7	3.01	3.31	-18.43%	0033A	
11/18/1998	SEAD-12	C	744648.6	1015461	C-43	8	11.1	13	10.2	8.82%	B009V/B125V	
11/18/1998	SEAD-12	C	744678.6	1015462	C-43	8	10.3	13	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744708.6	1015463	C-43	8	10.5	13	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744738.6	1015464	C-43	8	10.6	13	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744768.5	1015466	C-43	8	10.2	13	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744798.5	1015467	C-43	8	10.1	13	10.2	-0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744828.4	1015468	C-43	8	10.3	13	10.2	0.98%	B009V/B125V	
9/19/1997	SEAD-12	C	744593.6	1015461	C-44	2.54	2.62	2.71	2.62	0.00%	0034A	
9/19/1997	SEAD-12	C	744693.4	1015466	C-44	2.39	2.5	2.6	2.62	-4.58%	0034A	
9/19/1997	SEAD-12	C	744793.4	1015470	C-44	2.24	2.3	2.39	2.62	-12.21%	0034A	
11/18/1998	SEAD-12	C	744648.4	1015467	C-45	9	10.2	13	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744678.3	1015468	C-45	9	10.3	13	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744708.3	1015469	C-45	9	10.4	13	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744738.3	1015470	C-45	9	11.2	13	10.2	9.80%	B009V/B125V	
11/18/1998	SEAD-12	C	744768.3	1015472	C-45	9	10.3	13	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744798.3	1015473	C-45	9	9.9	13	10.2	-2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744828.2	1015474	C-45	9	10	13	10.2	-1.96%	B009V/B125V	
9/19/1997	SEAD-12	C	744593.3	1015467	C-46	2.6	2.66	2.86	2.62	1.53%	0034A	
9/19/1997	SEAD-12	C	744693.2	1015471	C-46	2.3	2.44	2.59	2.62	-6.87%	0034A	
9/19/1997	SEAD-12	C	744793.1	1015476	C-46	2.31	2.42	2.53	2.62	-7.63%	0034A	
11/18/1998	SEAD-12	C	744648.1	1015473	C-47	9	10.4	12	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744678.1	1015474	C-47	9	9.8	12	10.2	-3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744708.1	1015475	C-47	9	10	12	10.2	-1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744738	1015476	C-47	9	10.6	12	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744768	1015478	C-47	9	10.5	12	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744797.9	1015479	C-47	9	10.2	12	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744827.9	1015480	C-47	9	10.1	12	10.2	-0.98%	B009V/B125V	
9/19/1997	SEAD-12	C	744593	1015473	C-48	3.15	3.22	3.28	3.31	-2.72%	0033A	
9/19/1997	SEAD-12	C	744692.9	1015477	C-48	2.86	3.15	3.33	3.31	-4.83%	0033A	
9/19/1997	SEAD-12	C	744792.8	1015482	C-48	2.73	2.85	2.96	3.31	-13.90%	0033A	
11/18/1998	SEAD-12	C	744647.8	1015479	C-49	7	10.7	12	10.2	4.90%	B009V/B125V	
11/18/1998	SEAD-12	C	744677.8	1015480	C-49	7	10.3	12	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744707.8	1015481	C-49	7	10.2	12	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744737.8	1015482	C-49	7	10.3	12	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744767.8	1015484	C-49	7	9.9	12	10.2	-2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744797.7	1015485	C-49	7	10.1	12	10.2	-0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744827.7	1015486	C-49	7	10.1	12	10.2	-0.98%	B009V/B125V	
9/19/1997	SEAD-12	C	744592.8	1015479	C-50	2.8	2.95	3.07	3.31	-10.88%	0033A	
9/19/1997	SEAD-12	C	744692.7	1015483	C-50	2.7	2.85	2.96	3.31	-13.90%	0033A	
9/19/1997	SEAD-12	C	744792.6	1015488	C-50	2.6	2.75	2.89	3.31	-16.92%	0033A	
11/18/1998	SEAD-12	C	744647.6	1015485	C-51	9	10.3	12	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744677.6	1015486	C-51	9	10.4	12	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744707.5	1015487	C-51	9	10.2	12	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744737.5	1015488	C-51	9	10.1	12	10.2	-0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744767.4	1015490	C-51	9	10.2	12	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744797.4	1015491	C-51	9	10.4	12	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744827.4	1015492	C-51	9	10.6	12	10.2	3.92%	B009V/B125V	
9/19/1997	SEAD-12	C	744592.5	1015485	C-52	2.52	2.6	2.7	2.62	-0.76%	0034A	
9/19/1997	SEAD-12	C	744692.4	1015489	C-52	2.5	2.56	2.62	2.62	-2.29%	0034A	
9/19/1997	SEAD-12	C	744792.3	1015494	C-52	2.32	2.41	2.5	2.62	-8.02%	0034A	
11/18/1998	SEAD-12	C	744647.3	1015491	C-53	8	10.8	12	10.2	5.88%	B009V/B125V	
11/18/1998	SEAD-12	C	744677.3	1015492	C-53	8	10.7	12	10.2	4.90%	B009V/B125V	
11/18/1998	SEAD-12	C	744707.3	1015493	C-53	8	10.2	12	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744737.3	1015494	C-53	8	10.8	12	10.2	5.88%	B009V/B125V	
11/18/1998	SEAD-12	C	744767.2	1015496	C-53	8	10.1	12	10.2	-0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744797.2	1015497	C-53	8	10.6	12	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744827.1	1015498	C-53	8	10.5	12	10.2	2.94%	B009V/B125V	
9/19/1997	SEAD-12	C	744592.3	1015491	C-54	2.54	2.6	2.66	2.62	-0.76%	0034A	
9/19/1997	SEAD-12	C	744692.1	1015495	C-54	2.4	2.52	2.64	2.62	-3.82%	0034A	
9/19/1997	SEAD-12	C	744792.1	1015500	C-54	2.25	2.28	2.34	2.62	-12.98%	0034A	
11/18/1998	SEAD-12	C	744647.1	1015497	C-55	7	10.5	13	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744677	1015498	C-55	7	10.5	13	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744707	1015499	C-55	7	10.1	13	10.2	-0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744736.9	1015500	C-55	7	10.6	13	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744766.9	1015502	C-55	7	10.3	13	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744796.9	1015503	C-55	7	10.6	13	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744826.9	1015504	C-55	7	10.8	13	10.2	5.88%	B009V/B125V	
9/19/1997	SEAD-12	C	744592	1015497	C-56	3.05	3.1	3.24	3.31	-6.34%	0033A	
9/19/1997	SEAD-12	C	744691.9	1015501	C-56	2.91	3.15	3.27	3.31	-4.83%	0033A	
9/19/1997	SEAD-12	C	744791.8	1015506	C-56	2.78	2.85	2.87	3.31	-13.90%	0033A	
11/18/1998	SEAD-12	C	744646.8	1015502	C-57	9	10.8	14	10.2	5.88%	B009V/B125V	
11/18/1998	SEAD-12	C	744676.8	1015504	C-57	9	10.5	14	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744706.8	1015505	C-57	9	10.2	14	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744736.7	1015506	C-57	9	10.6	14	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744766.7	1015508	C-57	9	10.2	14	10.2	0.00%	B009V/B125V	
11/18/1998	SEAD-12	C	744796.6	1015509	C-57	9	10.6	14	10.2	3.92%	B009V/B125V	
11/18/1998	SEAD-12	C	744826.6	1015510	C-57	9	10.4	14	10.2	1.96%	B009V/B125V	
9/19/1997	SEAD-12	C	744591.7	1015503	C-58	2.79	2.9	3.12	3.31	-12.39%	0033A	
9/19/1997	SEAD-12	C	744691.6	1015507	C-58	2.58	2.6	2.82	3.31	-21.45%	0033A	
9/19/1997	SEAD-12	C	744791.5	1015512	C-58	2.72	2.81	2.89	3.31	-15.11%	0033A	
11/18/1998	SEAD-12	C	744646.5	1015508	C-59	9	10.7	13	10.2	4.90%	B009V/B125V	
11/18/1998	SEAD-12	C	744676.5	1015510	C-59	9	10.3	13	10.2	0.98%	B009V/B125V	
11/18/1998	SEAD-12	C	744706.4	1015511	C-59	9	10.4	13	10.2	1.96%	B009V/B125V	

**Appendix F**  
**Area C Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	NAD-27		Line	Min	Mean	Max	Background	% +/- Background	Instrument (s/n)	Comments
			easting	northing								
11/18/1998	SEAD-12	C	744736.4	1015512	C-59	9	10.4	13	10.2	1.96%	B009V/B125V	
11/18/1998	SEAD-12	C	744766.4	1015514	C-59	9	10.5	13	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744796.4	1015515	C-59	9	10.5	13	10.2	2.94%	B009V/B125V	
11/18/1998	SEAD-12	C	744826.4	1015516	C-59	9	10.4	13	10.2	1.96%	B009V/B125V	
9/19/1997	SEAD-12	C	744591.4	1015509	C-60	2.52	2.6	2.69	2.62	-0.76%	0034A	
9/19/1997	SEAD-12	C	744691.4	1015513	C-60	2.38	2.42	2.45	2.62	-7.63%	0034A	
9/19/1997	SEAD-12	C	744791.3	1015518	C-60	2.21	2.24	2.29	2.62	-14.50%	0034A	
9/19/1997	SEAD-12	C	744591.2	1015515	C-62	2.46	2.52	2.59	2.62	-3.82%	0034A	
9/19/1997	SEAD-12	C	744691.1	1015519	C-62	2.28	2.43	2.57	2.62	-7.25%	0034A	
9/19/1997	SEAD-12	C	744791	1015524	C-62	2.19	2.22	2.28	2.62	-15.27%	0034A	
9/19/1997	SEAD-12	C	744590.9	1015521	C-64	3.12	3.19	3.25	3.31	-3.63%	0033A	
9/19/1997	SEAD-12	C	744690.8	1015525	C-64	2.91	3.1	3.22	3.31	-6.34%	0033A	
9/19/1997	SEAD-12	C	744790.8	1015530	C-64	2.72	2.76	2.81	3.31	-16.62%	0033A	
9/19/1997	SEAD-12	C	744590.7	1015527	C-66	2.78	2.88	2.99	3.31	-12.99%	0033A	
9/19/1997	SEAD-12	C	744690.6	1015531	C-66	2.6	2.78	2.82	3.31	-16.01%	0033A	
9/19/1997	SEAD-12	C	744765.5	1015535	C-66	2.68	2.73	2.78	3.31	-17.52%	0033A	
9/19/1997	SEAD-12	C	744590.4	1015533	C-68	2.5	2.58	2.66	2.62	-1.53%	0034A	
9/19/1997	SEAD-12	C	744690.3	1015537	C-68	2.4	2.5	2.61	2.62	-4.58%	0034A	
9/19/1997	SEAD-12	C	744765.3	1015541	C-68	2.19	2.36	2.53	2.62	-9.92%	0034A	
9/19/1997	SEAD-12	C	744590.1	1015539	C-70	2.55	2.59	2.64	2.62	-1.15%	0034A	
9/19/1997	SEAD-12	C	744690.1	1015543	C-70	2.34	2.45	2.57	2.62	-6.49%	0034A	
9/19/1997	SEAD-12	C	744764.9	1015547	C-70	2.12	2.15	2.21	2.62	-17.94%	0034A	
9/20/1997	SEAD-12	C	744589.9	1015545	C-72	2.53	2.67	2.82	2.98	-10.40%	0034A	
9/20/1997	SEAD-12	C	744689.8	1015549	C-72	2.47	2.53	2.61	2.98	-15.10%	0034A	
9/20/1997	SEAD-12	C	744764.7	1015553	C-72	2.3	2.37	2.47	2.98	-20.47%	0034A	
9/20/1997	SEAD-12	C	744589.6	1015551	C-74	2.58	2.62	2.84	2.98	-12.08%	0034A	
9/20/1997	SEAD-12	C	744689.5	1015555	C-74	2.37	2.53	2.63	2.98	-15.10%	0034A	
9/20/1997	SEAD-12	C	744764.4	1015559	C-74	2.18	2.26	2.34	2.98	-24.16%	0034A	
9/20/1997	SEAD-12	C	744589.4	1015557	C-76	2.94	3.05	3.12	2.84	7.39%	0033A	
9/20/1997	SEAD-12	C	744689.3	1015561	C-76	2.8	2.92	3.1	2.84	2.82%	0033A	
9/20/1997	SEAD-12	C	744764.2	1015565	C-76	2.6	2.66	2.75	2.84	-6.34%	0033A	
9/20/1997	SEAD-12	C	744589.1	1015563	C-78	2.7	2.75	2.8	2.84	-3.17%	0033A	
9/20/1997	SEAD-12	C	744689	1015567	C-78	2.56	2.63	2.74	2.84	-7.39%	0033A	
9/20/1997	SEAD-12	C	744763.9	1015571	C-78	2.48	2.55	2.59	2.84	-10.21%	0033A	
9/20/1997	SEAD-12	C	744588.8	1015569	C-80	2.91	3	3.11	2.84	5.63%	0033A	
9/20/1997	SEAD-12	C	744688.8	1015573	C-80	2.87	2.95	3.11	2.84	3.87%	0033A	
9/20/1997	SEAD-12	C	744763.6	1015577	C-80	2.66	2.75	2.84	2.84	-3.17%	0033A	
9/20/1997	SEAD-12	C	744613.6	1015576	C-82	2.68	2.77	2.86	2.84	-2.46%	0033A	
9/20/1997	SEAD-12	C	744688.4	1015579	C-82	2.61	2.78	2.83	2.84	-2.11%	0033A	
9/20/1997	SEAD-12	C	744763.4	1015583	C-82	2.57	2.65	2.74	2.84	-6.69%	0033A	
9/20/1997	SEAD-12	C	744613.3	1015582	C-84	2.44	2.57	2.7	2.98	-13.76%	0034A	
9/20/1997	SEAD-12	C	744688.2	1015585	C-84	2.43	2.49	2.54	2.98	-16.44%	0034A	
9/20/1997	SEAD-12	C	744763.1	1015589	C-84	2.23	2.36	2.5	2.98	-20.81%	0034A	
9/20/1997	SEAD-12	C	744613	1015588	C-86	2.52	2.59	2.65	2.98	-13.09%	0034A	
9/20/1997	SEAD-12	C	744687.9	1015591	C-86	2.29	2.41	2.52	2.98	-19.13%	0034A	
9/20/1997	SEAD-12	C	744762.9	1015595	C-86	2.16	2.19	2.26	2.98	-26.51%	0034A	
9/20/1997	SEAD-12	C	744612.8	1015594	C-88	2.47	2.55	2.62	2.98	-14.43%	0034A	
9/20/1997	SEAD-12	C	744687.7	1015597	C-88	2.39	2.49	2.55	2.98	-16.44%	0034A	
9/20/1997	SEAD-12	C	744762.6	1015601	C-88	2.12	2.26	2.4	2.98	-24.16%	0034A	
9/20/1997	SEAD-12	C	744612.5	1015600	C-90	1.98	2.06	2.14	2.98	-30.87%	0034A	
9/20/1997	SEAD-12	C	744687.4	1015603	C-90	2.25	2.44	2.63	2.98	-18.12%	0034A	
9/20/1997	SEAD-12	C	744762.3	1015607	C-90	2.54	2.6	2.65	2.98	-12.75%	0034A	
9/20/1997	SEAD-12	C	744612.3	1015606	C-92	2.56	2.6	2.64	2.98	-12.75%	0034A	
9/20/1997	SEAD-12	C	744687.1	1015609	C-92	2.47	2.55	2.64	2.98	-14.43%	0034A	
9/20/1997	SEAD-12	C	744762.1	1015613	C-92	2.14	2.26	2.38	2.98	-24.16%	0034A	
9/20/1997	SEAD-12	C	744611.9	1015612	C-94	2.55	2.61	2.66	2.98	-12.42%	0034A	
9/20/1997	SEAD-12	C	744686.9	1015615	C-94	2.3	2.46	2.65	2.98	-17.45%	0034A	
9/20/1997	SEAD-12	C	744761.8	1015619	C-94	2.16	2.2	2.25	2.98	-26.17%	0034A	
9/20/1997	SEAD-12	C	744611.7	1015618	C-96	2.97	3	3.03	2.84	5.63%	0033A	
9/20/1997	SEAD-12	C	744686.6	1015621	C-96	2.87	2.85	3.13	2.84	0.35%	0033A	
9/20/1997	SEAD-12	C	744761.6	1015625	C-96	2.54	2.71	2.88	2.84	-4.58%	0033A	
9/20/1997	SEAD-12	C	744611.4	1015624	C-98	2.71	2.75	2.79	2.84	-3.17%	0033A	
9/20/1997	SEAD-12	C	744686.4	1015627	C-98	2.56	2.78	2.89	2.84	-2.11%	0033A	
9/20/1997	SEAD-12	C	744761.3	1015631	C-98	2.49	2.54	2.74	2.84	-10.56%	0033A	
9/20/1997	SEAD-12	C	744611.2	1015630	C-100	2.88	2.94	3.07	2.84	3.52%	0033A	
9/20/1997	SEAD-12	C	744686.1	1015633	C-100	2.82	3	3.16	2.84	5.63%	0033A	
9/20/1997	SEAD-12	C	744610.9	1015636	C-102	2.68	2.75	2.82	2.84	-3.17%	0033A	
9/20/1997	SEAD-12	C	744685.8	1015639	C-102	2.78	2.81	2.83	2.84	-1.06%	0033A	
9/20/1997	SEAD-12	C	744610.6	1015642	C-104	2.54	2.58	2.61	2.98	-13.42%	0034A	
9/20/1997	SEAD-12	C	744685.6	1015645	C-104	2.43	2.6	2.7	2.98	-12.75%	0034A	
9/20/1997	SEAD-12	C	744610.4	1015648	C-106	2.55	2.62	2.69	2.98	-12.08%	0034A	
9/20/1997	SEAD-12	C	744685.3	1015651	C-106	2.42	2.54	2.65	2.98	-14.77%	0034A	Standing water 200-242
9/20/1997	SEAD-12	C	744610.1	1015654	C-108	2.9	3	3.08	2.84	5.63%	0033A	
9/20/1997	SEAD-12	C	744685.1	1015657	C-108	2.89	3.03	3.09	2.84	6.69%	0033A	
9/20/1997	SEAD-12	C	744609.9	1015660	C-110	2.73	2.78	2.82	2.84	-2.11%	0033A	
9/20/1997	SEAD-12	C	744684.8	1015663	C-110	2.69	2.82	2.89	2.84	-0.70%	0033A	
9/20/1997	SEAD-12	C	744609.6	1015666	C-112	2.67	2.71	2.76	2.98	-9.06%	0034A	
9/20/1997	SEAD-12	C	744684.5	1015669	C-112	2.46	2.6	2.71	2.98	-12.75%	0034A	
9/20/1997	SEAD-12	C	744609.3	1015672	C-114	2.55	2.59	2.63	2.98	-13.09%	0034A	
9/20/1997	SEAD-12	C	744684.3	1015675	C-114	2.55	2.62	2.68	2.98	-12.08%	0034A	
9/21/1997	SEAD-12	C	744609.1	1015678	C-116	2.3	2.36	2.42	2.58	-8.53%	0034A	
9/21/1997	SEAD-12	C	744684	1015681	C-116	2.24	2.35	2.45	2.58	-8.91%	0034A	
9/21/1997	SEAD-12	C	744608.8	1015684	C-118	2.24	2.3	2.35	2.58	-10.85%	0034A	
9/21/1997	SEAD-12	C	744683.8	1015687	C-118	2.28	2.39	2.49	2.58	-7.36%	0034A	
9/21/1997	SEAD-12	C	744608.6	1015690	C-120	2.63	2.73	2.82	2.85	-4.21%	0033A	
9/21/1997	SEAD-12	C	744683.5	1015693	C-120	2.66	2.8	2.85	2.85	-1.75%	0033A	
9/21/1997	SEAD-12	C	744608.3	1015696	C-122	2.59	2.71	2.83	2.85	-4.91%	0033A	



Appendix F  
Area C Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	NAD-27		Line	Min	Mean	Max	Background	% +/- Background	Instrument (s/n)	Comments
			easting	northing								
9/21/1997	SEAD-12	C	744683 2	1015699	C-122	2.48	2.65	2.78	2.85	-7.02%	0033A	
9/21/1997	SEAD-12	C	744683 2	1015702	C-124	2.25	2.3	2.34	2.58	-10.85%	0034A	
9/21/1997	SEAD-12	C	744682 9	1015705	C-124	2.24	2.31	2.35	2.58	-10.47%	0034A	
9/21/1997	SEAD-12	C	744607 8	1015708	C-126	2.28	2.37	2.44	2.58	-8.14%	0034A	
9/21/1997	SEAD-12	C	744682 7	1015711	C-126	2.24	2.29	2.34	2.58	-11.24%	0034A	
9/21/1997	SEAD-12	C	744607 5	1015714	C-128	2.52	2.65	2.71	2.85	-7.02%	0033A	
9/21/1997	SEAD-12	C	744682 4	1015717	C-128	2.63	2.7	2.78	2.85	-5.26%	0033A	
9/21/1997	SEAD-12	C	744607 3	1015720	C-130	2.57	2.74	2.8	2.85	-3.86%	0033A	
9/21/1997	SEAD-12	C	744682 2	1015723	C-130	2.5	2.58	2.77	2.85	-9.47%	0033A	
9/21/1997	SEAD-12	C	744607	1015726	C-132	2.21	2.25	2.28	2.58	-12.79%	0034A	
9/21/1997	SEAD-12	C	744681 9	1015729	C-132	2.14	2.25	2.36	2.58	-12.79%	0034A	
9/21/1997	SEAD-12	C	744606 7	1015732	C-134	2.16	2.2	2.24	2.58	-14.73%	0034A	
9/21/1997	SEAD-12	C	744681 6	1015735	C-134	2.17	2.22	2.26	2.58	-13.95%	0034A	
9/21/1997	SEAD-12	C	744606 4	1015738	C-136	2.42	2.74	2.8	2.85	-3.86%	0033A	
9/21/1997	SEAD-12	C	744681 4	1015741	C-136	2.5	2.58	2.77	2.85	-9.47%	0033A	
9/21/1997	SEAD-12	C	744606 2	1015744	C-138	2.59	2.67	2.74	2.85	-6.32%	0033A	
9/21/1997	SEAD-12	C	744681 1	1015747	C-138	2.57	2.65	2.78	2.85	-7.02%	0033A	
9/21/1997	SEAD-12	C	744605 9	1015750	C-140	2.2	2.25	2.3	2.58	-12.79%	0034A	
9/21/1997	SEAD-12	C	744680 9	1015753	C-140	2.2	2.28	2.37	2.58	-11.63%	0034A	
9/21/1997	SEAD-12	C	744605 7	1015756	C-142	2.22	2.24	2.28	2.58	-13.18%	0034A	
9/21/1997	SEAD-12	C	744680 6	1015759	C-142	2.19	2.27	2.36	2.58	-12.02%	0034A	
9/21/1997	SEAD-12	C	744605 4	1015762	C-144	2.5	2.7	2.86	2.85	-5.26%	0033A	
9/21/1997	SEAD-12	C	744680 3	1015765	C-144	2.6	2.75	2.82	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744605 1	1015768	C-146	2.69	2.74	2.94	2.85	-3.86%	0033A	
9/21/1997	SEAD-12	C	744680 1	1015771	C-146	2.57	2.75	2.87	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744604 9	1015774	C-148	2.28	2.34	2.4	2.58	-9.30%	0034A	
9/21/1997	SEAD-12	C	744679 8	1015777	C-148	2.28	2.34	2.41	2.58	-9.30%	0034A	
9/21/1997	SEAD-12	C	744604 6	1015780	C-150	2.21	2.36	2.42	2.58	-8.53%	0034A	
9/21/1997	SEAD-12	C	744679 6	1015783	C-150	2.18	2.26	2.34	2.58	-12.40%	0034A	
9/21/1997	SEAD-12	C	744604 4	1015786	C-152	2.57	2.74	2.94	2.85	-3.86%	0033A	
9/21/1997	SEAD-12	C	744679 3	1015789	C-152	2.68	2.75	2.87	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744604 1	1015792	C-154	2.82	2.86	2.9	2.85	0.35%	0033A	
9/21/1997	SEAD-12	C	744679	1015795	C-154	2.66	2.73	2.81	2.85	-4.21%	0033A	
9/21/1997	SEAD-12	C	744603 8	1015798	C-156	2.26	2.32	2.38	2.58	-10.08%	0034A	
9/21/1997	SEAD-12	C	744678 8	1015801	C-156	2.22	2.36	2.46	2.58	-8.53%	0034A	
9/21/1997	SEAD-12	C	744603 6	1015804	C-158	2.42	2.49	2.55	2.58	-3.49%	0034A	
9/21/1997	SEAD-12	C	744678 5	1015807	C-158	2.14	2.31	2.41	2.58	-10.47%	0034A	
9/21/1997	SEAD-12	C	744603 3	1015810	C-160	2.59	2.78	2.88	2.85	-2.46%	0033A	
9/21/1997	SEAD-12	C	744678 3	1015813	C-160	2.53	2.7	2.8	2.85	-5.26%	0033A	
9/21/1997	SEAD-12	C	744603 1	1015816	C-162	2.31	2.68	2.86	2.85	-5.96%	0033A	
9/21/1997	SEAD-12	C	744677 9	1015819	C-162	2.81	2.83	2.92	2.85	-0.70%	0033A	
9/21/1997	SEAD-12	C	744602 8	1015822	C-164	2.42	2.47	2.62	2.58	-4.26%	0034A	
9/21/1997	SEAD-12	C	744677 7	1015825	C-164	2.07	2.3	2.44	2.58	-10.85%	0034A	
9/21/1997	SEAD-12	C	744602 5	1015828	C-166	2.38	2.48	2.58	2.58	-3.88%	0034A	
9/21/1997	SEAD-12	C	744677 4	1015831	C-166	2.04	2.32	2.46	2.58	-10.08%	0034A	
9/21/1997	SEAD-12	C	744602 3	1015834	C-168	2.7	2.75	2.82	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744677 2	1015837	C-168	2.37	2.73	2.84	2.85	-4.21%	0033A	
9/21/1997	SEAD-12	C	744602	1015840	C-170	2.71	2.8	2.99	2.85	-1.75%	0033A	
9/21/1997	SEAD-12	C	744676 9	1015843	C-170	2.27	2.75	2.86	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744601 8	1015846	C-172	2.33	2.42	2.52	2.58	-6.20%	0034A	
9/21/1997	SEAD-12	C	744676 6	1015849	C-172	2.1	2.27	2.44	2.58	-12.02%	0034A	
9/21/1997	SEAD-12	C	744601 4	1015852	C-174	2.46	2.5	2.55	2.58	-3.10%	0034A	
9/21/1997	SEAD-12	C	744676 4	1015855	C-174	2.15	2.32	2.5	2.58	-10.08%	0034A	
9/21/1997	SEAD-12	C	744601 2	1015858	C-176	2.82	2.86	2.96	2.85	0.35%	0033A	
9/21/1997	SEAD-12	C	744676 1	1015861	C-176	2.49	2.75	2.88	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744600 9	1015864	C-178	2.81	2.9	3.03	2.85	1.75%	0033A	
9/21/1997	SEAD-12	C	744675 9	1015867	C-178	2.38	2.81	2.86	2.85	-1.40%	0033A	
9/21/1997	SEAD-12	C	744600 7	1015870	C-180	2.38	2.48	2.58	2.58	-3.88%	0034A	
9/21/1997	SEAD-12	C	744675 6	1015873	C-180	2.01	2.36	2.44	2.58	-8.53%	0034A	
9/21/1997	SEAD-12	C	744600 4	1015876	C-182	2.45	2.48	2.52	2.58	-3.88%	0034A	
9/21/1997	SEAD-12	C	744675 3	1015879	C-182	1.96	2.3	2.41	2.58	-10.85%	0034A	
9/21/1997	SEAD-12	C	744600 1	1015882	C-184	2.59	2.81	2.95	2.85	-1.40%	0033A	
9/21/1997	SEAD-12	C	744675 1	1015885	C-184	2.39	2.78	2.91	2.85	-2.46%	0033A	
9/21/1997	SEAD-12	C	744599 9	1015888	C-186	2.85	2.89	2.95	2.85	1.40%	0033A	
9/21/1997	SEAD-12	C	744674 8	1015891	C-186	2.37	2.75	2.89	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744599 6	1015894	C-188	2.84	2.88	2.98	2.85	1.05%	0033A	
9/21/1997	SEAD-12	C	744674 6	1015897	C-188	2.48	2.8	2.93	2.85	-1.75%	0033A	
9/21/1997	SEAD-12	C	744599 4	1015900	C-190	2.73	2.85	3.02	2.85	0.00%	0033A	
9/21/1997	SEAD-12	C	744674 3	1015903	C-190	2.51	2.83	2.92	2.85	-0.70%	0033A	
9/21/1997	SEAD-12	C	744599 1	1015906	C-192	2.5	2.55	2.71	2.58	-1.16%	0034A	
9/21/1997	SEAD-12	C	744674	1015909	C-192	2.18	2.4	2.57	2.58	-6.98%	0034A	
9/21/1997	SEAD-12	C	744598 8	1015912	C-194	2.55	2.58	2.62	2.58	0.00%	0034A	
9/21/1997	SEAD-12	C	744673 8	1015915	C-194	2.25	2.41	2.58	2.58	-6.59%	0034A	
9/21/1997	SEAD-12	C	744598 6	1015918	C-196	2.66	2.78	2.91	2.85	-2.46%	0033A	
9/21/1997	SEAD-12	C	744673 5	1015921	C-196	2.55	2.7	2.86	2.85	-5.26%	0033A	
9/21/1997	SEAD-12	C	744598 3	1015924	C-198	2.78	2.88	3.04	2.85	1.05%	0033A	
9/21/1997	SEAD-12	C	744673 3	1015927	C-198	2.47	2.75	2.84	2.85	-3.51%	0033A	
9/21/1997	SEAD-12	C	744598 1	1015930	C-200	2.46	2.54	2.63	2.58	-1.55%	0034A	
9/21/1997	SEAD-12	C	744673	1015933	C-200	2.33	2.42	2.51	2.58	-6.20%	0034A	
9/21/1997	SEAD-12	C	744597 8	1015936	C-202	2.24	2.3	2.54	2.58	-10.85%	0034A	
9/21/1997	SEAD-12	C	744672 7	1015939	C-202	2.52	2.54	2.59	2.58	-1.55%	0034A	
9/21/1997	SEAD-12	C	744597 5	1015942	C-204	2.58	2.75	2.92	2.58	6.59%	0034A	
9/21/1997	SEAD-12	C	744672 4	1015945	C-204	2.59	2.7	2.85	2.58	4.65%	0034A	
9/21/1997	SEAD-12	C	744597 3	1015948	C-206	2.71	2.79	2.88	2.58	8.14%	0034A	
9/21/1997	SEAD-12	C	744672 2	1015951	C-206	2.51	2.68	2.74	2.58	3.88%	0034A	
9/21/1997	SEAD-12	C	744597 1	1015952	C-208	2.44	2.54	2.63	2.58	-1.55%	0034A	
9/21/1997	SEAD-12	C	744672	1015955	C-208	2.24	2.38	2.53	2.58	-7.75%	0034A	

**Appendix F**  
**Area C Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	NAD-27		Line	Min	Mean	Max	Background	% +/- Background	Instrument (s/n)	Comments
			easting	northing								
										-4.20%		
										9.80%		

Appendix F  
Area D Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD83		Min	Value	Max	Background	% +/- BKG	Instrument	Comments
				easting	northing							
1/23/2000	SEAD-12	Pit A	D	745034 9	105098 1	8200	8871	10100	8445	5 04%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745083 8	105100 2	7700	8887	9600	8445	5 23%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745034 7	105101 1	7800	8925	10000	8445	5 68%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745083 7	105103 2	8700	8975	9900	8445	6 28%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745034 6	105104 1	7600	8793	9400	8445	4 12%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745083 5	105106 2	7400	8775	9400	8445	3 91%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745034 5	105107 1	8200	8833	9700	8445	4 59%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745083 4	105109 2	8400	8838	10300	8445	4 65%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745034 3	105110 1	8200	8586	9300	8445	1 67%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745083 3	105112 2	8600	8835	9400	8445	4 62%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745034 2	105113 1	7800	8526	9900	8445	0 96%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745083 2	105115 2	8600	8912	9300	8445	5 53%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745034 1	105116 1	8700	8740	9600	8445	3 49%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745083	105118 2	8000	8818	10000	8445	4 42%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033 9	105119 1	7900	8829	10000	8445	4 55%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082 9	105121 2	8700	8809	9700	8445	4 31%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033 8	105122 1	7900	8680	9400	8445	2 78%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082 8	105124 2	7600	8765	10000	8445	3 79%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033 7	105125 1	7600	8635	9100	8445	2 25%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082 6	105127 2	7700	8408	9000	8445	-0 44%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033 5	105128 1	7600	8740	9700	8445	3 49%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082 5	105130 2	8200	8715	10000	8445	3 20%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033 4	105131 1	7200	8556	8900	8445	1 31%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082 4	105133 2	8300	8815	9600	8445	4 38%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033 3	105134 1	8200	8631	9100	8445	2 20%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082 2	105136 2	8200	9031	9700	8445	6 94%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033 1	105137	8600	8820	10100	8445	4 44%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082 1	105139 2	8000	8665	9700	8445	2 61%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745033	105140	8400	9171	10600	8445	8 60%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745082	105142 2	7900	9066	10600	8445	7 35%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032 9	105143	7900	8984	10400	8445	6 38%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745081 8	105145 2	7800	9200	11300	8445	8 94%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032 8	105146	7600	8951	9500	8445	5 99%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745081 7	105148 2	7900	9109	10000	8445	7 86%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032 6	105149	8100	8788	9700	8445	4 06%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745081 6	105151 2	7900	9014	10000	8445	6 74%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032 5	105152	7100	8458	9500	8445	0 15%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745081 4	105154 2	7900	8857	9500	8445	4 88%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032 4	105155	7100	8650	10500	8445	2 43%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745081 3	105157 2	7000	8870	9900	8445	5 03%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032 2	105158	8200	8700	9800	8445	3 02%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745081 2	105160 2	6700	8935	10600	8445	5 80%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032 1	105161	7900	8866	9600	8445	4 99%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745081 1	105163 2	5700	8975	9900	8445	6 28%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745032	105164	7700	9063	10000	8445	7 32%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080 9	105166 2	7500	9097	10200	8445	7 72%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745031 8	105167	7500	9219	10100	8445	9 17%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080 8	105169 2	8600	9094	9400	8445	7 69%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745031 7	105170	8800	9221	10100	8445	9 19%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080 7	105172 2	8200	9001	10300	8445	6 58%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745031 6	105173	7900	9057	8900	8445	7 25%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080 5	105175 2	8200	9276	9900	8445	9 84%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745031 4	105176	8000	9471	10300	8445	12 15%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080 4	105178 2	8400	9235	10500	8445	9 35%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745031 3	105179	8600	9082	9700	8445	7 54%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080 3	105182 2	8400	9177	9800	8445	8 67%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745031 2	105182	8100	9046	10400	8445	7 12%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080 1	105184 1	8100	9759	11800	8445	15 56%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745031	105185	7500	9305	10200	8445	10 18%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745080	105187 1	7700	9200	9900	8445	8 94%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030 9	105188	8000	9876	11200	8445	16 94%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079 9	105190 1	8200	9339	10800	8445	10 59%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030 8	105191	7900	9481	11700	8445	12 27%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079 7	105193 1	8400	9157	10200	8445	8 43%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030 7	105194	7600	9280	10100	8445	9 89%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079 6	105196 1	8000	9017	9900	8445	6 77%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030 5	105197	8600	9380	10200	8445	11 07%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079 5	105199 1	8200	9118	10000	8445	7 97%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030 4	105200	7700	9000	9900	8445	6 57%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079 3	105202 1	8200	9120	10300	8445	7 99%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030 3	105203	8000	9280	10000	8445	9 89%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079 2	105205 1	8100	9317	10100	8445	10 33%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030 1	105206	7900	9305	10300	8445	10 18%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079 1	105208 1	7700	9235	9400	8445	9 35%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745030	105209	8600	9219	9800	8445	9 17%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745079	105211 1	7500	9228	10100	8445	9 27%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745029 9	105212	7900	9179	10300	8445	8 69%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745078 8	105214 1	8000	9082	9900	8445	7 54%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745029 7	105215	8200	9391	10400	8445	11 20%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745078 7	105217 1	7500	9099	10800	8445	7 74%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745029 6	105218	8100	9086	9900	8445	7 59%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745078 6	105220 1	7900	8991	9700	8445	6 47%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745029 5	105221	7500	9198	10300	8445	8 92%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745078 4	105223 1	8600	9209	10700	8445	9 05%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745029 3	105224	7900	9318	9900	8445	10 34%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745078 3	105226 1	8100	9097	10500	8445	7 72%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745029 2	105227	8500	9228	10500	8445	9 27%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745078 2	105229 1	8100	9198	10100	8445	8 92%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745029 1	105230	7900	9291	10600	8445	10 02%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745078	105232 1	7700	9367	10500	8445	10 92%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745028 9	105233	7800	9090	10500	8445	7 64%	142488/A370Q	
1/23/2000	SEAD-12	Pit A	D	745077 9	105235 1	8100	8978	10000	8445	6 31%	142488/A370Q	

Appendix F  
Area D Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

1/23/2000	SEAD-12	Pit A	D	745077.6	105241.1	8500	9217	10200	8445	9.14%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745028.6	105241.9	7900	8237	10100	8445	-2.46%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745077.5	105244.1	8000	8180	11200	8445	-3.14%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745028.4	105244.9	7500	9301	10400	8445	10.14%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745077.4	105247.1	7700	9237	10700	8445	9.38%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745028.3	105247.9	7600	8789	9800	8445	4.07%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745077.2	105250.1	7400	8641	9400	8445	2.32%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745028.2	105250.9	8600	8821	10200	8445	4.45%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745077.1	105253.1	8000	8665	9800	8445	2.61%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745028	105253.9	8800	9057	10800	8445	7.25%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745077	105256.1	8000	9339	11700	8445	10.59%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027.9	105258.9	8100	8788	10600	8445	4.06%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745076.9	105259.1	8200	8981	10400	8445	6.35%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027.8	105259.9	8000	8838	10300	8445	4.65%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745076.7	105262.1	8400	8740	11200	8445	3.49%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027.6	105262.9	7300	8516	10800	8445	0.84%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745076.6	105265.1	7700	9066	10000	8445	7.35%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027.5	105265.9	7600	8793	10300	8445	4.12%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745076.5	105268.1	7400	8818	9900	8445	4.42%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027.4	105268.9	8200	9218	10500	8445	9.15%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745076.3	105271.1	8800	8987	11200	8445	6.42%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027.2	105271.9	8700	9120	9900	8445	7.99%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745076.2	105274.1	7800	8765	10500	8445	3.79%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027.1	105274.9	8400	8818	10000	8445	4.42%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745076.1	105277.1	8600	8997	10800	8445	6.54%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745027	105277.9	7800	9082	10800	8445	7.54%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.9	105280.1	8100	9338	11200	8445	10.57%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745026.8	105280.9	8400	9046	11000	8445	7.12%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.8	105283.1	8000	8935	10200	8445	5.80%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745026.7	105283.9	8200	8840	11200	8445	4.68%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.7	105286.1	8900	9271	11800	8445	9.78%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745026.6	105286.9	7700	8981	10800	8445	6.35%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.5	105289	8000	9037	10200	8445	7.01%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745026.5	105289.9	7400	8701	9900	8445	3.03%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.4	105292	8100	8999	10500	8445	6.56%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745026.3	105292.9	7700	8985	11100	8445	6.39%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.3	105295	8200	8586	10300	8445	1.67%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745026.2	105294.9	7600	8673	9900	8445	2.70%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.2	105297	7400	8778	10500	8445	3.94%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745026.1	105297.9	7800	8531	9800	8445	1.02%	142488/A370Q
1/23/2000	SEAD-12	Pit A	D	745075.1	105300	8200	8586	9300	8445	1.67%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744982.7	105145.9	7200	8581	8900	8445	1.61%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744982.6	105148.8	7600	8680	10400	8445	2.78%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744982.5	105151.8	8200	8705	9800	8445	3.08%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744982.3	105154.8	7900	8866	9900	8445	4.99%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744982.2	105157.8	7600	8740	9700	8445	3.49%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744982.1	105160.8	7200	8556	8900	8445	1.31%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981.9	105163.8	7100	8456	9500	8445	0.13%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981.8	105166.8	8200	9391	10400	8445	11.20%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981.7	105169.8	7500	9199	10300	8445	8.93%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981.5	105172.8	7900	9480	11700	8445	12.26%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981.4	105175.8	7900	9058	9600	8445	7.26%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981.3	105178.8	7500	9219	10100	8445	9.17%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981.1	105181.8	7900	9316	9500	8445	10.31%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744981	105184.8	7600	8890	10200	8445	5.27%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744980.9	105187.8	8000	8970	10800	8445	6.22%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744980.7	105190.8	7400	8701	9900	8445	3.03%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744980.6	105193.8	7700	8250	10200	8445	-2.31%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744980.5	105196.8	8500	9318	10500	8445	10.34%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744980.4	105199.8	7800	9090	10500	8445	7.64%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744980.2	105202.8	8200	9218	10500	8445	9.15%	142488/A370Q
1/23/2000	SEAD-12	Pit B	D	744980.1	105205.8	8400	8910	10800	8445	5.51%	142488/A370Q
										6.27%	
										16.94%	

Appendix F  
 Area E Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	% +/- Background	Instrument	Comments
				easting	northing							
9/22/1997	SEAD-12	E	Regional	742903.4	1013483	2.16	2.22	2.28	2.87	-22.65%	0033A	
9/22/1997	SEAD-12	E	Regional	742901.4	1013528	2.22	2.24	2.31	2.87	-21.95%	0033A	
9/22/1997	SEAD-12	E	Regional	742900.3	1013487	2.08	2.16	2.24	2.87	-24.74%	0033A	
9/22/1997	SEAD-12	E	Regional	742898.4	1013528	2.2	2.25	2.29	2.87	-21.60%	0033A	
9/22/1997	SEAD-12	E	Regional	742897.1	1013559	2.25	2.28	2.3	2.87	-20.56%	0033A	
9/22/1997	SEAD-12	E	Regional	742897.4	1013483	1.76	2.09	2.14	2.62	-20.23%	0034A	
9/22/1997	SEAD-12	E	Regional	742895.4	1013528	2.12	2.15	2.2	2.62	-17.94%	0034A	
9/22/1997	SEAD-12	E	Regional	742893.7	1013568	2	2.07	2.23	2.62	-20.99%	0034A	
9/22/1997	SEAD-12	E	Regional	742894.4	1013483	1.75	2.22	2.53	2.62	-15.27%	0034A	
9/22/1997	SEAD-12	E	Regional	742892.4	1013528	2.18	2.33	2.5	2.62	-11.07%	0034A	
9/22/1997	SEAD-12	E	Regional	742890.7	1013568	2	2.11	2.21	2.62	-19.47%	0034A	
9/22/1997	SEAD-12	E	Regional	742891.5	1013481	2.03	2.7	2.75	2.87	-5.92%	0033A	
9/22/1997	SEAD-12	E	Regional	742889.4	1013528	2.71	2.75	2.8	2.87	-4.18%	0033A	
9/22/1997	SEAD-12	E	Regional	742887.3	1013578	2.23	2.65	2.69	2.87	-7.67%	0033A	
9/22/1997	SEAD-12	E	Regional	742888.6	1013479	2.09	2.54	2.82	2.87	-11.50%	0033A	
9/22/1997	SEAD-12	E	Regional	742886.4	1013528	2.65	2.8	2.94	2.87	-2.44%	0033A	
9/22/1997	SEAD-12	E	Regional	742884.7	1013568	2.32	2.6	2.68	2.87	-9.41%	0033A	
9/22/1997	SEAD-12	E	Regional	742885.6	1013479	1.72	2.24	2.37	2.62	-14.50%	0034A	
9/22/1997	SEAD-12	E	Regional	742883.4	1013528	2.23	2.31	2.38	2.62	-11.83%	0034A	
9/22/1997	SEAD-12	E	Regional	742881.7	1013567	2.11	2.26	2.36	2.62	-13.74%	0034A	
9/22/1997	SEAD-12	E	Regional	742882.6	1013478	2	2.48	2.59	2.62	-5.34%	0034A	
9/22/1997	SEAD-12	E	Regional	742880.4	1013527	2.42	2.47	2.52	2.62	-5.73%	0034A	
9/22/1997	SEAD-12	E	Regional	742878.7	1013567	2.15	2.3	2.45	2.62	-12.21%	0034A	
9/22/1997	SEAD-12	E	Regional	742879.6	1013478	1.88	2.7	2.8	2.87	-5.92%	0033A	
9/22/1997	SEAD-12	E	Regional	742877.4	1013527	2.57	2.64	2.73	2.87	-8.01%	0033A	
9/22/1997	SEAD-12	E	Regional	742875.7	1013567	2.48	2.55	2.74	2.87	-11.15%	0033A	
9/22/1997	SEAD-12	E	Regional	742876.6	1013478	1.9	2.72	2.8	2.87	-5.23%	0033A	
9/22/1997	SEAD-12	E	Regional	742874.4	1013527	2.76	2.8	2.93	2.87	-2.44%	0033A	
9/22/1997	SEAD-12	E	Regional	742872.7	1013567	2.38	2.75	2.89	2.87	-4.18%	0033A	
9/22/1997	SEAD-12	E	Regional	742873.6	1013478	1.73	2.3	2.41	2.62	-12.21%	0034A	
9/22/1997	SEAD-12	E	Regional	742871.4	1013527	2.29	2.43	2.56	2.62	-7.25%	0034A	
9/22/1997	SEAD-12	E	Regional	742869.7	1013567	2.15	2.35	2.52	2.62	-10.31%	0034A	
9/22/1997	SEAD-12	E	Regional	742870.6	1013478	2	2.37	2.6	2.62	-9.54%	0034A	
9/22/1997	SEAD-12	E	Regional	742868.5	1013527	2.53	2.59	2.66	2.62	-1.15%	0034A	
9/22/1997	SEAD-12	E	Regional	742866.8	1013567	2	2.45	2.63	2.62	-6.49%	0034A	
9/22/1997	SEAD-12	E	Regional	742867.6	1013478	1.92	2.5	2.54	2.87	-12.89%	0033A	
9/22/1997	SEAD-12	E	Regional	742865.5	1013527	2.54	2.58	2.68	2.87	-10.10%	0033A	
9/22/1997	SEAD-12	E	Regional	742863.8	1013567	2.37	2.56	2.64	2.87	-10.80%	0033A	
9/22/1997	SEAD-12	E	Regional	742864.6	1013478	1.9	2.7	2.77	2.87	-5.92%	0033A	
9/22/1997	SEAD-12	E	Regional	742862.5	1013527	2.53	2.65	2.79	2.87	-7.67%	0033A	
9/22/1997	SEAD-12	E	Regional	742860.8	1013567	2.32	2.5	2.58	2.87	-12.89%	0033A	
9/22/1997	SEAD-12	E	Regional	742861.6	1013478	1.94	2.23	2.35	2.62	-14.89%	0034A	
9/22/1997	SEAD-12	E	Regional	742859.5	1013526	2.3	2.37	2.44	2.62	-9.54%	0034A	
9/22/1997	SEAD-12	E	Regional	742857.8	1013566	1.96	2.2	2.29	2.62	-16.03%	0034A	
9/22/1997	SEAD-12	E	Regional	742858.6	1013477	1.98	2.23	2.59	2.62	-14.89%	0034A	
9/22/1997	SEAD-12	E	Regional	742856.5	1013526	2.24	2.41	2.57	2.62	-8.02%	0034A	
9/22/1997	SEAD-12	E	Regional	742854.8	1013566	1.94	2.18	2.23	2.62	-16.79%	0034A	
9/22/1997	SEAD-12	E	Regional	742855.6	1013477	1.86	2.5	2.66	2.87	-12.89%	0033A	
9/22/1997	SEAD-12	E	Regional	742853.5	1013526	2.52	2.6	2.68	2.87	-9.41%	0033A	
9/22/1997	SEAD-12	E	Regional	742851.8	1013566	2.29	2.48	2.57	2.87	-13.59%	0033A	
9/22/1997	SEAD-12	E	Regional	742852.6	1013477	1.87	2.75	2.8	2.87	-4.18%	0033A	
9/22/1997	SEAD-12	E	Regional	742850.5	1013526	2.64	2.75	2.82	2.87	-4.18%	0033A	
9/22/1997	SEAD-12	E	Regional	742848.8	1013566	2.27	2.45	2.52	2.87	-14.63%	0033A	
9/22/1997	SEAD-12	E	Regional	742849.6	1013477	1.79	2.18	2.36	2.62	-16.79%	0034A	
9/22/1997	SEAD-12	E	Regional	742847.5	1013526	2.25	2.34	2.44	2.62	-10.69%	0034A	
9/22/1997	SEAD-12	E	Regional	742845.8	1013566	2.11	2.15	2.21	2.62	-17.94%	0034A	
9/22/1997	SEAD-12	E	Regional	742846.6	1013477	2.07	2.29	2.43	2.62	-12.60%	0034A	
9/22/1997	SEAD-12	E	Regional	742844.5	1013526	2.15	2.35	2.5	2.62	-10.31%	0034A	
9/22/1997	SEAD-12	E	Regional	742842.8	1013566	2.09	2.16	2.28	2.62	-17.56%	0034A	
9/22/1997	SEAD-12	E	Regional	742843.6	1013477	1.96	2.15	2.3	2.87	-25.09%	0033A	
9/22/1997	SEAD-12	E	Regional	742841.5	1013526	2.29	2.35	2.43	2.87	-18.12%	0033A	
9/22/1997	SEAD-12	E	Regional	742839.8	1013566	2.25	2.31	2.37	2.87	-19.51%	0033A	
9/22/1997	SEAD-12	E	Regional	742840.6	1013477	1.97	2.1	2.17	2.87	-26.83%	0033A	
9/22/1997	SEAD-12	E	Regional	742838.5	1013526	2.13	2.19	2.24	2.87	-23.69%	0033A	
9/22/1997	SEAD-12	E	Regional	742836.8	1013566	2.11	2.17	2.23	2.87	-24.39%	0033A	
9/22/1997	SEAD-12	E	Regional	742837.6	1013476	1.83	1.87	1.89	2.62	-28.63%	0034A	
9/22/1997	SEAD-12	E	Regional	742835.5	1013525	1.89	1.9	1.93	2.62	-27.48%	0034A	
9/22/1997	SEAD-12	E	Regional	742833.8	1013565	1.91	1.91	1.91	2.62	-27.10%	0034A	
9/22/1997	SEAD-12	E	Regional	742831.2	1013555	2.27	2.32	2.37	2.87	-19.16%	0033A	
9/22/1997	SEAD-12	E	Regional	742828.2	1013555	2.19	2.2	2.22	2.87	-23.34%	0033A	
9/22/1997	SEAD-12	E	Regional	742825.2	1013555	2.53	2.58	2.62	2.87	-10.10%	0033A	
9/22/1997	SEAD-12	E	Regional	742693.6	1013474	1.97	2.01	2.06	2.87	-29.97%	0033A	
9/22/1997	SEAD-12	E	Regional	742691.6	1013519	1.97	2.01	2.05	2.87	-29.97%	0033A	
9/22/1997	SEAD-12	E	Regional	742689.7	1013564	2.01	2.05	2.1	2.87	-28.57%	0033A	
9/22/1997	SEAD-12	E	Regional	742690.6	1013474	2.32	2.35	2.38	2.87	-18.12%	0033A	
9/22/1997	SEAD-12	E	Regional	742688.6	1013519	2.29	2.35	2.42	2.87	-18.12%	0033A	
9/22/1997	SEAD-12	E	Regional	742686.7	1013564	1.88	2.28	2.35	2.87	-20.56%	0033A	
9/22/1997	SEAD-12	E	Regional	742687.6	1013474	1.97	2.1	2.16	2.62	-19.85%	0034A	
9/22/1997	SEAD-12	E	Regional	742685.6	1013519	2.07	2.24	2.3	2.62	-14.50%	0034A	
9/22/1997	SEAD-12	E	Regional	742683.7	1013564	2	2.25	2.35	2.62	-14.12%	0034A	
9/22/1997	SEAD-12	E	Regional	742684.6	1013474	1.97	2.1	2.16	2.62	-19.85%	0034A	
9/22/1997	SEAD-12	E	Regional	742682.6	1013519	2.45	2.52	2.6	2.62	-3.82%	0034A	
9/22/1997	SEAD-12	E	Regional	742680.7	1013564	2.06	2.28	2.48	2.62	-12.98%	0034A	
9/24/1997	SEAD-12	E	Regional	742681.8	1013470	1.76	2.18	2.24	2.67	-18.35%	0034A	
9/24/1997	SEAD-12	E	Regional	742679.6	1013519	2.13	2.18	2.24	2.67	-18.35%	0034A	
9/24/1997	SEAD-12	E	Regional	742677.9	1013559	1.97	2.2	2.22	2.67	-17.60%	0034A	
9/24/1997	SEAD-12	E	Regional	742678.8	1013469	1.93	2.38	2.44	2.67	-10.86%	0034A	



Appendix F  
Area E Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	% +/- Background	Instrument (s/n)	Comments
				easting	northing							
9/24/1997	SEAD-12	E	Regional	742676.6	1013518	2.35	2.42	2.5	2.67	-9.36%	0034A	
9/24/1997	SEAD-12	E	Regional	742674.9	1013558	1.69	2.2	2.3	2.67	-17.60%	0034A	
9/24/1997	SEAD-12	E	Regional	742675.8	1013469	1.76	2.3	2.41	2.67	-13.86%	0034A	
9/24/1997	SEAD-12	E	Regional	742673.7	1013518	2.41	2.57	2.7	2.67	-3.75%	0034A	
9/24/1997	SEAD-12	E	Regional	742671.9	1013558	2	2.3	2.58	2.67	-13.86%	0034A	
9/24/1997	SEAD-12	E	Regional	742672.8	1013469	2	2.42	2.5	2.67	-9.36%	0034A	
9/24/1997	SEAD-12	E	Regional	742670.7	1013518	2.47	2.61	2.75	2.67	-2.25%	0034A	
9/24/1997	SEAD-12	E	Regional	742668.9	1013558	1.97	2.42	2.67	2.67	-9.36%	0034A	
9/24/1997	SEAD-12	E	Regional	742669.8	1013469	1.96	2.38	2.52	2.67	-10.86%	0034A	
9/24/1997	SEAD-12	E	Regional	742667.7	1013518	2.37	2.52	2.68	2.67	-5.62%	0034A	
9/24/1997	SEAD-12	E	Regional	742665.9	1013558	1.95	2.48	2.68	2.67	-7.12%	0034A	
9/24/1997	SEAD-12	E	Regional	742667.7	1013449		2.42		2.67	-9.36%	0034A	
9/24/1997	SEAD-12	E	Regional	742667.8	1013447		9.07		2.67	239.70%	0034A	
9/24/1997	SEAD-12	E	Regional	742667.8	1013446		2.7		2.67	1.12%	0034A	
9/24/1997	SEAD-12	E	Regional	742666.8	1013469	1.88	2.5	2.7	2.67	-6.37%	0034A	
9/24/1997	SEAD-12	E	Regional	742664.7	1013518	2.46	2.52	2.57	2.67	-5.62%	0034A	
9/24/1997	SEAD-12	E	Regional	742662.9	1013558	1.92	2.34	2.49	2.67	-12.36%	0034A	
9/24/1997	SEAD-12	E	Regional	742663.8	1013469	1.95	2.3	2.5	2.67	-13.86%	0034A	
9/24/1997	SEAD-12	E	Regional	742661.7	1013518	2.24	2.6	2.71	2.67	-2.62%	0034A	
9/24/1997	SEAD-12	E	Regional	742659.9	1013558	1.87	2.53	2.65	2.67	-5.24%	0034A	
9/24/1997	SEAD-12	E	Regional	742660.8	1013469	1.9	2.41	2.49	2.67	-9.74%	0034A	
9/24/1997	SEAD-12	E	Regional	742658.7	1013518	2.5	2.55	2.6	2.67	-4.49%	0034A	
9/24/1997	SEAD-12	E	Regional	742656.9	1013558	1.83	2.48	2.56	2.67	-7.12%	0034A	
9/24/1997	SEAD-12	E	Regional	742657.8	1013469	1.88	2.4	2.51	3.12	-23.08%	0033A	
9/24/1997	SEAD-12	E	Regional	742655.7	1013518	2.4	2.54	2.68	3.12	-18.59%	0033A	
9/24/1997	SEAD-12	E	Regional	742653.9	1013557	1.91	2.68	2.73	3.12	-14.10%	0033A	
9/24/1997	SEAD-12	E	Regional	742654.8	1013468	1.91	2.41	2.56	3.12	-22.76%	0033A	
9/24/1997	SEAD-12	E	Regional	742652.7	1013517	2.48	2.5	2.77	3.12	-19.87%	0033A	
9/24/1997	SEAD-12	E	Regional	742650.9	1013557	1.85	2.63	2.72	3.12	-15.71%	0033A	
9/24/1997	SEAD-12	E	Regional	742651.8	1013468	1.87	2.45	2.54	3.12	-21.47%	0033A	
9/24/1997	SEAD-12	E	Regional	742649.7	1013517	2.57	2.78	2.85	3.12	-10.90%	0033A	
9/24/1997	SEAD-12	E	Regional	742647.9	1013557	1.94	2.72	2.8	3.12	-12.82%	0033A	
9/24/1997	SEAD-12	E	Regional	742648.8	1013468	2	2.6	2.72	3.12	-16.67%	0033A	
9/24/1997	SEAD-12	E	Regional	742646.7	1013517	2.69	2.73	2.77	3.12	-12.50%	0033A	
9/24/1997	SEAD-12	E	Regional	742644.9	1013557	1.78	2.72	2.76	3.12	-12.82%	0033A	
9/24/1997	SEAD-12	E	Regional	742645.8	1013468	2	2.34	2.5	2.67	-12.36%	0034A	
9/24/1997	SEAD-12	E	Regional	742643.7	1013517	2.55	2.62	2.65	2.67	-1.87%	0034A	
9/24/1997	SEAD-12	E	Regional	742641.9	1013557	1.83	2.5	2.6	2.67	-6.37%	0034A	
9/24/1997	SEAD-12	E	Regional	742642.8	1013468	1.94	2.64	2.66	2.67	-1.12%	0034A	
9/24/1997	SEAD-12	E	Regional	742640.7	1013517	2.59	2.64	2.68	2.67	-1.12%	0034A	
9/24/1997	SEAD-12	E	Regional	742638.9	1013557	1.87	2.38	2.56	2.67	-10.86%	0034A	
9/24/1997	SEAD-12	E	Regional	742639.8	1013468	1.9	2.36	2.44	2.67	-11.61%	0034A	
9/24/1997	SEAD-12	E	Regional	742637.7	1013517	2.3	2.38	2.45	2.67	-10.86%	0034A	
9/24/1997	SEAD-12	E	Regional	742635.9	1013557	2.01	2.22	2.3	2.67	-16.85%	0034A	
9/24/1997	SEAD-12	E	Regional	742636.7	1013472	1.9	2.36	2.44	2.67	-11.61%	0034A	
9/24/1997	SEAD-12	E	Regional	742634.7	1013517	2.19	2.24	2.29	2.67	-16.10%	0034A	
9/24/1997	SEAD-12	E	Regional	742632.9	1013557	1.83	2.18	2.21	2.67	-18.35%	0034A	
9/24/1997	SEAD-12	E	Regional	742633.4	1013477	1.78	1.95	2.01	2.67	-26.97%	0034A	
9/24/1997	SEAD-12	E	Regional	742631.7	1013516	1.94	1.95	1.98	2.67	-26.97%	0034A	
9/24/1997	SEAD-12	E	Regional	742629.9	1013556	1.74	1.95	1.96	2.67	-26.97%	0034A	
9/24/1997	SEAD-12	E	Regional	742630.1	1013483	1.8	2	2.04	2.67	-25.09%	0034A	
9/24/1997	SEAD-12	E	Regional	742628.7	1013516	1.98	2.01	2.05	2.67	-24.72%	0034A	
9/24/1997	SEAD-12	E	Regional	742626.9	1013556	1.78	1.83	1.86	2.67	-31.46%	0034A	
				742618.7	1013516					1.12%		
				742616.9	1013556					-31.46%		
										-12.00%		

Appendix F  
Area F Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	Line	NAD-27		Min	Mean	Max	Background	Instrument	% +/-	BKG	Comments
					Eastings	Northing								
9/23/1997	SEAD-12	Area-F	Local	F-0	742165.2	1012170	2.79	2.84	2.9	2.7	0034A	5.19%		
9/23/1997	SEAD-12	Area-F	Local	F-0	742085.3	1012166	2.83	2.98	2.99	2.7	0034A	10.37%		
9/23/1997	SEAD-12	Area-F	Local	F-2	742164.9	1012176	2.89	2.95	3.02	2.7	0034A	9.26%		
9/23/1997	SEAD-12	Area-F	Local	F-2	742085	1012172	2.91	3.03	3.15	2.7	0034A	12.22%		
9/23/1997	SEAD-12	Area-F	Local	F-4	742164.6	1012182	3.33	3.38	3.44	3.1	0033A	9.03%		
9/23/1997	SEAD-12	Area-F	Local	F-4	742084.7	1012178	3.39	3.48	3.56	3.1	0033A	12.26%		
9/23/1997	SEAD-12	Area-F	Local	F-6	742164.4	1012188	3.35	3.47	3.54	3.1	0033A	11.94%		
9/23/1997	SEAD-12	Area-F	Local	F-6	742084.4	1012184	3.35	3.5	3.63	3.1	0033A	12.90%		
9/23/1997	SEAD-12	Area-F	Local	F-8	742164.1	1012194	2.6	2.73	2.8	2.7	0034A	1.11%		
9/23/1997	SEAD-12	Area-F	Local	F-8	742084.2	1012190	2.59	2.72	2.83	2.7	0034A	0.74%		
9/23/1997	SEAD-12	Area-F	Local	F-10	742163.9	1012200	2.65	2.71	2.77	2.7	0034A	0.37%		
9/23/1997	SEAD-12	Area-F	Local	F-10	742083.9	1012196	2.72	2.77	2.89	2.7	0034A	2.59%		
9/23/1997	SEAD-12	Area-F	Local	F-12	742163.6	1012206	2.69	2.85	2.99	3.1	0033A	-8.06%		
9/23/1997	SEAD-12	Area-F	Local	F-12	742083.7	1012202	2.85	2.94	3.01	3.1	0033A	-5.16%		
9/23/1997	SEAD-12	Area-F	Local	F-14	742163.3	1012212	2.79	2.82	3.01	3.1	0033A	-9.03%		
9/23/1997	SEAD-12	Area-F	Local	F-14	742083.4	1012208	2.89	2.99	3.08	3.1	0033A	-3.55%		
9/23/1997	SEAD-12	Area-F	Local	F-16	742163.1	1012218	2.69	2.74	2.87	2.7	0034A	1.48%		
9/23/1997	SEAD-12	Area-F	Local	F-16	742083.1	1012214	2.68	2.77	2.86	2.7	0034A	2.59%		
9/23/1997	SEAD-12	Area-F	Local	F-18	742162.8	1012224	2.62	2.78	2.91	2.7	0034A	2.96%		
9/23/1997	SEAD-12	Area-F	Local	F-18	742082.9	1012220	2.79	2.87	2.95	2.7	0034A	6.30%		
9/23/1997	SEAD-12	Area-F	Local	F-20	742162.6	1012230	2.76	2.8	3.01	3.1	0033A	-9.68%		
9/23/1997	SEAD-12	Area-F	Local	F-20	742082.6	1012226	2.86	2.92	2.98	3.1	0033A	-5.81%		
9/23/1997	SEAD-12	Area-F	Local	F-22	742162.3	1012236	2.83	2.9	3.01	3.1	0033A	-6.45%		
9/23/1997	SEAD-12	Area-F	Local	F-22	742082.4	1012232	2.92	3	3.09	3.1	0033A	-3.23%		
9/23/1997	SEAD-12	Area-F	Local	F-24	742162	1012242	2.85	2.9	3.12	2.7	0034A	7.41%		
9/23/1997	SEAD-12	Area-F	Local	F-24	742082.1	1012238	2.89	2.93	3.04	2.7	0034A	8.52%		
9/23/1997	SEAD-12	Area-F	Local	F-26	742161.8	1012248	2.82	2.9	3.08	2.7	0034A	7.41%		
9/23/1997	SEAD-12	Area-F	Local	F-26	742081.8	1012244	2.87	2.92	3.14	2.7	0034A	8.15%		
9/23/1997	SEAD-12	Area-F	Local	F-28	742161.5	1012254	2.63	2.76	2.89	3.1	0033A	-10.97%		
9/23/1997	SEAD-12	Area-F	Local	F-28	742081.6	1012250	2.77	2.85	2.84	3.1	0033A	-8.06%		
9/23/1997	SEAD-12	Area-F	Local	F-30	742161.3	1012260	2.69	2.79	2.85	3.1	0033A	-10.00%		
9/23/1997	SEAD-12	Area-F	Local	F-30	742081.3	1012256	2.82	2.9	2.94	3.1	0033A	-6.45%		
9/23/1997	SEAD-12	Area-F	Local	F-32	742160.9	1012266	2.88	2.95	2.14	2.7	0034A	9.26%		
9/23/1997	SEAD-12	Area-F	Local	F-32	742081.1	1012262	2.82	2.9	2.98	2.7	0034A	7.41%		
9/23/1997	SEAD-12	Area-F	Local	F-34	742160.7	1012272	2.75	2.84	2.93	2.7	0034A	5.19%		
9/23/1997	SEAD-12	Area-F	Local	F-34	742080.8	1012268	2.76	2.85	2.94	2.7	0034A	5.56%		
9/23/1997	SEAD-12	Area-F	Local	F-36	742160.4	1012278	2.7	2.79	2.88	3.1	0033A	-10.00%		
9/23/1997	SEAD-12	Area-F	Local	F-36	742080.5	1012274	2.7	2.82	2.93	3.1	0033A	-9.03%		
9/23/1997	SEAD-12	Area-F	Local	F-38	742160.2	1012284	2.64	2.78	2.9	3.1	0033A	-10.32%		
9/23/1997	SEAD-12	Area-F	Local	F-38	742080.3	1012280	2.62	2.7	2.78	3.1	0033A	-12.90%		
												0.79%		
												12.90%		

Appendix F  
Area H Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		line	min	mean	max	background	% +/- BKG	Instruments	Comments
				easting	northing								
10/3/1997	SEAD-12	Area-H	Local	741347.60	1013581.00	H-0	9	9.4	10.4	9.72	-3.29%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741397.50	1013584.00	H-0	8.8	9.4	9.8	9.72	-3.29%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741347.30	1013587.00	H-2	8.4	9.5	10.2	9.72	-2.26%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741397.30	1013590.00	H-2	8.5	9.4	10.1	9.72	-3.29%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741347.10	1013593.00	H-4	7.2	9.5	11.5	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741397.00	1013596.00	H-4	7.2	9.4	11.2	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741346.80	1013599.00	H-6	6.8	9.5	12.2	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741396.80	1013602.00	H-6	7.2	9.4	11.8	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741346.50	1013605.00	H-8	8.5	9.5	10.4	9.72	-2.26%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741396.50	1013608.00	H-8	9	9.6	10.5	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741346.30	1013611.00	H-10	9.3	10.1	11	9.72	3.91%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741396.20	1013614.00	H-10	9	9.5	10.3	9.72	-2.26%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741346.00	1013617.00	H-12	7	10.1	13	9.59	5.32%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741395.90	1013620.00	H-12	7.8	9.8	13	9.59	2.19%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741345.80	1013623.00	H-14	7.5	9.9	12.2	9.59	3.23%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741395.70	1013626.00	H-14	7.8	9.7	12.2	9.59	1.15%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741345.50	1013629.00	H-16	9.5	9.9	11.2	9.72	1.85%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741395.40	1013632.00	H-16	8.8	9.6	10.5	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741345.20	1013635.00	H-18	8.5	9.4	11.2	9.72	-3.29%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741395.20	1013637.00	H-18	9	9.6	10.5	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741344.90	1013641.00	H-20	6.8	9.5	12.5	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741394.90	1013643.00	H-20	6.5	9.7	12.5	9.59	1.15%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741344.70	1013647.00	H-22	7.8	9.4	12.8	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741394.60	1013649.00	H-22	7.8	9.9	13	9.59	3.23%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741344.40	1013653.00	H-24	8	9.6	11	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741394.40	1013655.00	H-24	8.4	10	11.4	9.72	2.88%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741344.20	1013659.00	H-26	8.5	9.6	11	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741394.10	1013661.00	H-26	8.8	9.8	11	9.72	0.82%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741343.90	1013665.00	H-28	6.5	9.4	12.8	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741393.90	1013667.00	H-28	8.2	9.5	12.5	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741343.60	1013671.00	H-30	7.5	9.5	11.5	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741393.60	1013673.00	H-30	7.2	9.5	12	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741343.40	1013677.00	H-32	8.4	9.6	11.4	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741393.30	1013679.00	H-32	8	9.6	10.8	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741343.10	1013683.00	H-34	8.5	9.5	10.8	9.72	-2.26%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741393.10	1013685.00	H-34	8.8	9.8	11	9.72	0.82%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741342.90	1013689.00	H-36	7	9.4	12.2	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741392.80	1013691.00	H-36	6.8	9.6	12.5	9.59	0.10%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741342.60	1013695.00	H-38	7.2	9.4	12.2	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741392.60	1013697.00	H-38	8	9.8	12	9.59	2.19%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741342.30	1013701.00	H-40	8.5	9.3	10.4	9.72	-4.32%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741392.30	1013703.00	H-40	8.8	9.5	11.3	9.72	-2.26%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741342.10	1013707.00	H-42	8.8	9.9	11	9.72	1.85%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741392.00	1013709.00	H-42	8.8	8.9	11	9.72	-8.44%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741341.80	1013713.00	H-44	6.2	9.6	12.5	9.59	0.10%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741391.80	1013715.00	H-44	8	9.7	12	9.59	1.15%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741341.60	1013719.00	H-46	6.5	9.5	10.8	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741391.50	1013721.00	H-46	5.5	9.6	11.5	9.59	0.10%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741341.30	1013725.00	H-48	8.8	9.7	11.2	9.72	-0.21%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741391.30	1013727.00	H-48	8	9.3	10.5	9.72	-4.32%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741341.00	1013731.00	H-50	9	10	11.4	9.72	2.88%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741390.90	1013733.00	H-50	8.2	9.2	10.4	9.72	-5.35%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741340.80	1013737.00	H-52	8	9.8	12.5	9.59	2.19%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741390.70	1013739.00	H-52	6.8	9.2	11.5	9.59	-4.07%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741340.50	1013743.00	H-54	7.5	10.7	13.1	9.59	11.57%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741390.40	1013745.00	H-54	5.8	9.3	11.8	9.59	-3.02%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741340.30	1013749.00	H-56	9.8	11	13	9.72	13.17%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741390.20	1013751.00	H-56	8.8	9.4	11	9.72	-3.29%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741339.90	1013755.00	H-58	9	9.8	12	9.72	0.82%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741389.90	1013757.00	H-58	8	9	10.5	9.72	-7.41%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741339.70	1013761.00	H-60	6.8	9.7	12.2	9.59	1.15%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741389.60	1013763.00	H-60	6.2	9.3	12.2	9.59	-3.02%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741339.40	1013767.00	H-62	6.5	9.5	12.5	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741389.40	1013769.00	H-62	6.8	9.4	11.8	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741339.20	1013773.00	H-64	8.7	9.7	12	9.72	-0.21%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741389.10	1013775.00	H-64	8.5	9.8	11.2	9.72	0.82%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741338.90	1013779.00	H-66	8.5	9.3	11.2	9.72	-4.32%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741388.90	1013781.00	H-66	8.8	9.5	10.4	9.72	-2.26%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741338.60	1013785.00	H-68	6.8	9.4	10.8	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741388.60	1013787.00	H-68	6.5	9.2	12.5	9.59	-4.07%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741338.40	1013791.00	H-70	7	9.1	11.5	9.59	-5.11%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741388.30	1013793.00	H-70	9.8	9.5	11.2	9.59	-0.94%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741338.10	1013797.00	H-72	8	9.5	11	9.72	-2.26%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741388.10	1013799.00	H-72	8.9	9.6	10.9	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741337.90	1013803.00	H-74	8.8	9.4	10.8	9.72	-3.29%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741387.80	1013805.00	H-74	9	9.6	11.5	9.72	-1.23%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741337.60	1013809.00	H-76	9.8	9.3	10.8	9.59	-3.02%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741387.60	1013811.00	H-76	6.8	9.4	11.8	9.59	-1.98%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741337.30	1013815.00	H-78	6.8	9	11	9.59	-6.15%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741387.30	1013817.00	H-78	8.8	9.2	11.5	9.59	-4.07%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741337.10	1013821.00	H-80	8	9.3	10.5	9.72	-4.32%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741387.00	1013823.00	H-80	7.8	9	11	9.72	-7.41%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741336.80	1013827.00	H-82	8.4	9	10.3	9.72	-7.41%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741386.80	1013829.00	H-82	8.5	9.2	10.5	9.72	-5.35%	A984P	
10/3/1997	SEAD-12	Area-H	Local	741336.60	1013833.00	H-84	7	9.1	10.8	9.59	-5.11%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741386.50	1013835.00	H-84	7.7	9.3	11.5	9.59	-3.02%	A945P	
10/3/1997	SEAD-12	Area-H	Local	741336.30	1013839.00	H-86	6.8	9.2	10.8	9.72	-5.35%	A984P	



Appendix F  
Area H Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		line	min	mean	max	background	% +/- BKG	Instruments	Comments
				easting	northing								
10/3/1997	SEAD-12	Area-H	Local	741386.30	1013841.00	H-86	7.2	9.1	10.5	9.72	-6.38%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741336.00	1013845.00	H-88	7.8	9.6	11.5	9.41	2.02%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741385.90	1013847.00	H-88	8.9	9.3	11.2	9.41	-1.17%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741335.80	1013851.00	H-90	7.8	9.4	11	9.41	-0.11%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741385.70	1013853.00	H-90	8	9.4	10	9.41	-0.11%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741335.50	1013857.00	H-92	7.5	9.4	11.5	9.41	-0.11%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741385.40	1013859.00	H-92	8.2	9.3	12.2	9.41	-1.17%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741335.30	1013863.00	H-94	7.8	9.4	11.5	9.43	-0.32%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741385.20	1013865.00	H-94	7.8	9.4	11.8	9.43	-0.32%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741334.90	1013869.00	H-96	8.5	9.5	11	9.41	0.96%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741384.90	1013871.00	H-96	8.5	9.5	10.5	9.41	0.96%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741334.70	1013875.00	H-98	8.8	9.6	11.8	9.41	2.02%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741384.60	1013877.00	H-98	8.8	9.7	11.5	9.41	3.08%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741334.40	1013881.00	H-100	7.8	9.6	12.2	9.43	1.80%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741384.40	1013883.00	H-100	7.2	9.7	11.8	9.43	2.86%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741334.20	1013887.00	H-102	7.2	9.6	11.8	9.43	1.80%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741384.10	1013889.00	H-102	6	9.6	11.5	9.43	1.80%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741333.90	1013893.00	H-104	8.5	9.7	11.5	9.41	3.08%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741383.90	1013895.00	H-104	8	9.5	11	9.41	0.96%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741333.60	1013899.00	H-106	8	9.7	11.4	9.41	3.08%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741383.60	1013901.00	H-106	8.7	9.5	11	9.41	0.96%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741333.40	1013905.00	H-108	8	9.5	11.2	9.43	0.74%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741383.30	1013907.00	H-108	8	9.6	11.5	9.43	1.80%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741333.10	1013911.00	H-110	6.8	9.5	12.8	9.43	0.74%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741383.10	1013913.00	H-110	7.8	9.7	11.2	9.43	2.86%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741335.30	1013863.00	H-112	8.2	9.4	10.8	9.41	-0.11%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741385.20	1013865.00	H-112	9.2	10.3	12	9.41	9.46%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741332.60	1013923.00	H-114	9.2	9.7	10.8	9.41	3.08%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741382.60	1013925.00	H-114	9.5	10.2	12	9.41	8.40%	A984P	
10/6/1997	SEAD-12	Area-H	Local	741332.30	1013929.00	H-116	6.5	9.9	12.2	9.43	4.98%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741382.30	1013931.00	H-116	9.2	10.2	12.2	9.43	8.17%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741332.10	1013935.00	H-118	7.5	9.6	11.8	9.43	1.80%	A945P	
10/6/1997	SEAD-12	Area-H	Local	741382.00	1013937.00	H-118	8	9.8	11.5	9.43	3.92%	A945P	
											-0.43%		
											13.17%		

Appendix F  
 Area I Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grid	Line	NAD-27		Min	Mean	Max	Background	Instrument	% +/-	Background	Comments
					Easting	Northing								
10/6/1997	SEAD-12	Area-I	Local	I-0	742924.80	1013564.00	5.8	9.7	11.2	9.43	A945P		2.86%	
10/6/1997	SEAD-12	Area-I	Local	I-1	742927.80	1013565.00	6.8	9.6	12.8	9.43	A945P		1.80%	
10/6/1997	SEAD-12	Area-I	Local	I-2	742930.80	1013565.00	9	9.7	11	9.41	A984P		3.08%	
10/6/1997	SEAD-12	Area-I	Local	I-3	742933.80	1013565.00	8.5	9.6	10	9.41	A984P		2.02%	
10/6/1997	SEAD-12	Area-I	Local	I-4	742936.80	1013565.00	7	9.7	12	9.43	A945P		2.86%	
10/6/1997	SEAD-12	Area-I	Local	I-5	742939.80	1013565.00	7.5	9.7	12.2	9.43	A945P		2.86%	
10/6/1997	SEAD-12	Area-I	Local	I-6	742942.80	1013565.00	8.5	9.8	10.8	9.41	A984P		4.14%	
10/6/1997	SEAD-12	Area-I	Local	I-7	742945.80	1013565.00	8.8	9.8	10.8	9.41	A984P		4.14%	
10/6/1997	SEAD-12	Area-I	Local	I-8	742948.80	1013565.00	6.8	9.7	11.5	9.43	A945P		2.86%	
10/6/1997	SEAD-12	Area-I	Local	I-9	742951.80	1013566.00	7.5	9.9	12.5	9.43	A945P		4.98%	
10/6/1997	SEAD-12	Area-I	Local	I-10	742954.80	1013566.00	8.7	9.9	10.8	9.41	A984P		5.21%	
10/6/1997	SEAD-12	Area-I	Local	I-11	742957.80	1013566.00	9	9.7	11.2	9.41	A984P		3.08%	
10/6/1997	SEAD-12	Area-I	Local	I-12	742960.80	1013566.00	7.8	9.6	12.5	9.43	A945P		1.80%	
10/6/1997	SEAD-12	Area-I	Local	I-13	742963.80	1013566.00	6.8	9.5	11.2	9.43	A945P		0.74%	
10/6/1997	SEAD-12	Area-I	Local	I-14	742966.80	1013566.00	8.2	9.8	10.5	9.41	A984P		4.14%	
10/6/1997	SEAD-12	Area-I	Local	I-15	742969.80	1013566.00	9	9.7	10.8	9.41	A984P		3.08%	
10/6/1997	SEAD-12	Area-I	Local	I-16	742972.80	1013567.00	6.8	9.7	12	9.43	A945P		2.86%	
10/6/1997	SEAD-12	Area-I	Local	I-17	742975.80	1013567.00	7.5	9.6	11.8	9.43	A945P		1.80%	
10/6/1997	SEAD-12	Area-I	Local	I-18	742978.80	1013567.00	8.9	9.9	10.4	9.41	A984P		5.21%	
10/6/1997	SEAD-12	Area-I	Local	I-19	742981.80	1013567.00	8.5	9.7	11	9.41	A984P		3.08%	
10/6/1997	SEAD-12	Area-I	Local	I-20	742984.80	1013567.00	6.5	9.6	12.2	9.43	A945P		1.80%	
10/6/1997	SEAD-12	Area-I	Local	I-21	742987.80	1013567.00	6.5	9.7	10.8	9.43	A945P		2.86%	
10/6/1997	SEAD-12	Area-I	Local	I-22	742990.80	1013567.00	8.5	9.6	10.4	9.41	A984P		2.02%	
10/6/1997	SEAD-12	Area-I	Local	I-23	742993.80	1013567.00	8.2	9.7	11	9.41	A984P		3.08%	
10/6/1997	SEAD-12	Area-I	Local	I-24	742996.80	1013568.00	7.8	9.7	11.8	9.43	A945P		2.86%	
10/6/1997	SEAD-12	Area-I	Local	I-25	742999.80	1013568.00	6.8	9.6	11.5	9.43	A945P		1.80%	
10/6/1997	SEAD-12	Area-I	Local	I-26	743002.80	1013568.00	8.4	9.7	10.8	9.41	A984P		3.08%	
10/6/1997	SEAD-12	Area-I	Local	I-27	743005.80	1013568.00	8.5	9.7	11.5	9.41	A984P		3.08%	
10/6/1997	SEAD-12	Area-I	Local	I-28	743008.80	1013568.00	6.5	9.7	11.2	9.43	A945P		2.86%	
													0.74%	
													5.21%	
													2.97%	

Appendix F  
Area J Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	% +/- BKG	Instumen (s/n)	Comments
				easting	northing							
	SEAD-12	Area-J	Local	744382 70	1014194 00	7	8 8	10 4	9 41	-5 48%	A984Q	
	SEAD-12	Area-J	Local	744378 30	1014294 00	7 5	11 4	13 5	9 41	21 15%	A984Q	
	SEAD-12	Area-J	Local	744373 90	1014394 00	8 5	11 3	13	9 41	20 09%	A984Q	
	SEAD-12	Area-J	Local	744369 60	1014494 00	9	10	12	9 41	6 27%	A984Q	
	SEAD-12	Area-J	Local	744365 10	1014593 00	7	9 9	11 2	9 41	5 21%	A984Q	
	SEAD-12	Area-J	Local	744360 80	1014693 00	8 5	10 1	11 5	9 41	7 33%	A984Q	
	SEAD-12	Area-J	Local	744356 40	1014793 00	8	9 9	11 5	9 41	5 21%	A984Q	
	SEAD-12	Area-J	Local	744352 00	1014893 00	7 5	9 4	10 8	9 41	-0 11%	A984Q	
	SEAD-12	Area-J	Local	744347 60	1014993 00	8 5	9 7	11 2	9 41	3 08%	A984Q	
	SEAD-12	Area-J	Local	744343 30	1015093 00	9 1	10 7	12	9 41	13 71%	A984Q	
	SEAD-12	Area-J	Local	743201 30	1015363 00	7 5	9 4	10 5	9 67	-2 79%	A945Q	
	SEAD-12	Area-J	Local	743145 80	1015374 00	7 8	9 4	10 8	9 67	-2 79%	A945Q	
	SEAD-12	Area-J	Local	743072 30	1015338 00	8 2	9 9	10 5	9 67	2 38%	A945Q	
	SEAD-12	Area-J	Local	743074 80	1015283 00	7 2	10	11 8	9 67	3 41%	A945Q	
	SEAD-12	Area-J	Local	743028 60	1015170 00	5	6 7	8 5	9 67	-30 71%	A945Q	
	SEAD-12	Area-J	Local	743391 60	1015362 00	7	8 9	10	9 62	-7 48%	A984Q	
	SEAD-12	Area-J	Local	743496 40	1015368 00	8 5	9 1	10 5	9 62	-5 41%	A984Q	
	SEAD-12	Area-J	Local	743566 30	1015371 00	8 5	9 9	11	9 62	2 91%	A984Q	
	SEAD-12	Area-J	Local	743674 60	1015369 00	8 5	9 9	11 5	9 62	2 91%	A984Q	
	SEAD-12	Area-J	Local	743766 70	1015368 00	8 5	10 2	12	9 62	6 03%	A984Q	
	SEAD-12	Area-J	Local	743866 70	1015369 00	9	11 1	13	9 62	15 38%	A984Q	
	SEAD-12	Area-J	Local	743956 80	1015368 00	9	10 9	12	9 62	13 31%	A984Q	
	SEAD-12	Area-J	Local	744025 80	1015164 00	9	11 2	13	9 62	16 42%	A984Q	
	SEAD-12	Area-J	Local	744113 80	1015326 00	9 5	11 6	13	9 62	20 58%	A984Q	
	SEAD-12	Area-J	Local	744175 30	1015296 00	10 5	12 6	13 8	9 62	30 98%	A984Q	
	SEAD-12	Area-J	Local	744261 40	1015225 00	9	11	12	9 62	14 35%	A984Q	
	SEAD-12	Area-J	Local	744286 30	1015161 00	8 5	10 8	11 8	9 62	12 27%	A984Q	
										6 19%		
										30 98%		

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/7/1997	SEAD-12	1	Regional	741163	1013797	8	9.4	10	9.5	A984P/A398Q	-1.05%	other: A945P/A378Q
10/7/1997	SEAD-12	1	Regional	741167.4	1013698	8.8	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741171.8	1013598	10.3	11.7	13.5	9.5	A984P/A398Q	23.16%	
10/7/1997	SEAD-12	1	Regional	741176.1	1013498	10.5	11.7	13.7	9.5	A984P/A398Q	23.16%	
10/7/1997	SEAD-12	1	Regional	741180.5	1013398	6.8	9.4	12.4	9.5	A984P/A398Q	-1.05%	
10/7/1997	SEAD-12	1	Regional	741184.9	1013298	7.5	8.9	10.8	9.5	A984P/A398Q	-6.32%	
10/7/1997	SEAD-12	1	Regional	741189.3	1013198	8.9	10.8	12	9.5	A984P/A398Q	13.68%	
10/7/1997	SEAD-12	1	Regional	741193.6	1013098	8.7	10.4	11.2	9.5	A984P/A398Q	9.47%	
10/7/1997	SEAD-12	1	Regional	741198	1012998	7.8	9.9	12	9.5	A984P/A398Q	4.21%	
10/7/1997	SEAD-12	1	Regional	741202.4	1012898	8.8	10.3	12.2	9.5	A984P/A398Q	8.42%	
10/7/1997	SEAD-12	1	Regional	741206.8	1012798	8.7	9.9	11.4	9.5	A984P/A398Q	4.21%	
10/7/1997	SEAD-12	1	Regional	741259.2	1013887	8	9.3	10	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741262.9	1013802	8.2	9.3	10	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741267.3	1013702	8.5	9.6	10.2	9.5	A984P/A398Q	1.05%	
10/7/1997	SEAD-12	1	Regional	741271.6	1013602	8	9.2	10.2	9.5	A984P/A398Q	-3.16%	
10/7/1997	SEAD-12	1	Regional	741276	1013502	8.2	9.6	11	9.5	A984P/A398Q	1.05%	
10/7/1997	SEAD-12	1	Regional	741280.4	1013402	8.8	9.7	11	9.5	A984P/A398Q	2.11%	
10/7/1997	SEAD-12	1	Regional	741284.8	1013302	8.9	12	13.9	9.5	A984P/A398Q	26.32%	
10/7/1997	SEAD-12	1	Regional	741289.1	1013202	10	11.7	12.8	9.5	A984P/A398Q	23.16%	
10/7/1997	SEAD-12	1	Regional	741293.5	1013102	9.7	12	13.2	9.5	A984P/A398Q	26.32%	
10/7/1997	SEAD-12	1	Regional	741297.9	1013002	9.5	12.2	13.8	9.5	A984P/A398Q	28.42%	
10/7/1997	SEAD-12	1	Regional	741302.3	1012902	9.8	12	12.9	9.5	A984P/A398Q	26.32%	
10/7/1997	SEAD-12	1	Regional	741306.7	1012802	10.8	12.3	13.5	9.5	A984P/A398Q	29.47%	
10/7/1997	SEAD-12	1	Regional	741208.6	1013900	4.8	7.7	10	9.4	A945P/A378Q	-18.09%	
10/7/1997	SEAD-12	1	Regional	741212.9	1013800	6.8	9.5	11.2	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741217.3	1013700	7.2	9.4	10.2	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741221.7	1013600	6.5	9.5	11.2	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741226.1	1013500	7.5	9.5	11.5	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741230.4	1013400	7.2	10	11.8	9.4	A945P/A378Q	6.38%	
10/7/1997	SEAD-12	1	Regional	741234.8	1013300	6.2	10.5	13.5	9.4	A945P/A378Q	11.70%	
10/7/1997	SEAD-12	1	Regional	741239.2	1013200	8.2	11.7	13.8	9.4	A945P/A378Q	24.47%	
10/7/1997	SEAD-12	1	Regional	741243.6	1013100	9.2	12	14	9.4	A945P/A378Q	27.66%	
10/7/1997	SEAD-12	1	Regional	741247.9	1013000	9.8	12.1	14.2	9.4	A945P/A378Q	28.72%	
10/7/1997	SEAD-12	1	Regional	741252.3	1012900	9.5	11.4	14	9.4	A945P/A378Q	21.28%	
10/7/1997	SEAD-12	1	Regional	741256.7	1012800	7.8	11.4	12.5	9.4	A945P/A378Q	21.28%	
10/7/1997	SEAD-12	1	Regional	741309.1	1013889	7.2	9.5	10.5	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741312.9	1013804	7.5	9.6	10.8	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741317.3	1013704	7.8	9.8	11.5	9.4	A945P/A378Q	4.26%	
10/7/1997	SEAD-12	1	Regional	741321.6	1013604	7.2	9.5	11.2	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741326	1013504	6.8	9.5	11.8	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741330.4	1013404	5.8	9.5	11.2	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741334.8	1013304	8.5	11.5	13.5	9.4	A945P/A378Q	22.34%	
10/7/1997	SEAD-12	1	Regional	741339.1	1013204	8.8	11.4	13.8	9.4	A945P/A378Q	21.28%	
10/7/1997	SEAD-12	1	Regional	741343.5	1013104	9.5	11.8	13.8	9.4	A945P/A378Q	25.53%	
10/7/1997	SEAD-12	1	Regional	741347.9	1013004	9.8	12.3	14.2	9.4	A945P/A378Q	30.85%	
10/7/1997	SEAD-12	1	Regional	741352.3	1012904	9.8	12.3	14.5	9.4	A945P/A378Q	30.85%	
10/7/1997	SEAD-12	1	Regional	741356.6	1012804	7.2	11.3	13	9.4	A945P/A378Q	20.21%	
10/7/1997	SEAD-12	1	Regional	741358.4	1013906	8.5	9.5	11	9.5	A984P/A398Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741362.8	1013806	8.5	9.8	10.4	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741367.2	1013706	9	10	11.5	9.5	A984P/A398Q	5.26%	
10/7/1997	SEAD-12	1	Regional	741371.6	1013606	8	9.9	10.5	9.5	A984P/A398Q	4.21%	
10/7/1997	SEAD-12	1	Regional	741375.9	1013507	8.7	9.6	10.8	9.5	A984P/A398Q	1.05%	
10/7/1997	SEAD-12	1	Regional	741380.3	1013407	8.9	9.5	10.4	9.5	A984P/A398Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741384.7	1013307	8.5	9.9	12	9.5	A984P/A398Q	4.21%	
10/7/1997	SEAD-12	1	Regional	741389.1	1013207	9	10.8	12.4	9.5	A984P/A398Q	13.68%	
10/7/1997	SEAD-12	1	Regional	741393.4	1013107	10	11.1	13	9.5	A984P/A398Q	16.84%	
10/7/1997	SEAD-12	1	Regional	741397.8	1013007	9.6	10.3	12.5	9.5	A984P/A398Q	8.42%	
10/7/1997	SEAD-12	1	Regional	741402.2	1012907	9.8	10.9	13	9.5	A984P/A398Q	14.74%	
10/7/1997	SEAD-12	1	Regional	741406.6	1012807	8.5	10.9	12.8	9.5	A984P/A398Q	14.74%	
10/7/1997	SEAD-12	1	Regional	741458.3	1013911	8	9.8	12	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741462.7	1013811	8	9.2	10	9.5	A984P/A398Q	-3.16%	
10/7/1997	SEAD-12	1	Regional	741467.1	1013711	8.9	10	12	9.5	A984P/A398Q	5.26%	
10/7/1997	SEAD-12	1	Regional	741471.4	1013611	9	9.5	11	9.5	A984P/A398Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741475.8	1013511	8.8	9.3	10.5	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741480.2	1013411	8.2	9.3	10	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741484.6	1013311	7.5	9.4	10.3	9.5	A984P/A398Q	-1.05%	
10/7/1997	SEAD-12	1	Regional	741488.9	1013211	8	9.6	11	9.5	A984P/A398Q	1.05%	
10/7/1997	SEAD-12	1	Regional	741493.3	1013111	8.5	9.7	11	9.5	A984P/A398Q	2.11%	
10/7/1997	SEAD-12	1	Regional	741497.7	1013011	8.9	9.9	11.4	9.5	A984P/A398Q	4.21%	
10/7/1997	SEAD-12	1	Regional	741502.1	1012911	9	10.1	11.4	9.5	A984P/A398Q	6.32%	
10/7/1997	SEAD-12	1	Regional	741506.4	1012812	8.8	9.8	11.2	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741408.4	1013908	6.5	9.8	11.2	9.4	A945P/A378Q	4.26%	
10/7/1997	SEAD-12	1	Regional	741412.8	1013808	6.8	9.5	11.5	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741417.1	1013709	6.8	10	11.2	9.4	A945P/A378Q	6.38%	
10/7/1997	SEAD-12	1	Regional	741421.5	1013609	8.2	9.4	11.5	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741425.9	1013509	7.8	9.5	11.2	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741430.3	1013409	5.2	9.3	10.8	9.4	A945P/A378Q	-1.06%	
10/7/1997	SEAD-12	1	Regional	741434.6	1013309	5.8	9.6	12.5	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741439	1013209	7.5	9.7	12.2	9.4	A945P/A378Q	3.19%	
10/7/1997	SEAD-12	1	Regional	741443.4	1013109	6.8	9.9	12.2	9.4	A945P/A378Q	5.32%	
10/7/1997	SEAD-12	1	Regional	741447.8	1013009	8.5	10	13.8	9.4	A945P/A378Q	6.38%	
10/7/1997	SEAD-12	1	Regional	741452.1	1012909	9.2	10.2	13.5	9.4	A945P/A378Q	8.51%	
10/7/1997	SEAD-12	1	Regional	741456.5	1012809	8.2	10.4	12.2	9.4	A945P/A378Q	10.64%	
10/7/1997	SEAD-12	1	Regional	741508.3	1013913	7.2	10.1	12.5	9.4	A945P/A378Q	7.45%	
10/7/1997	SEAD-12	1	Regional	741512.7	1013813	8.2	9.4	11.8	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741517.1	1013713	6.5	9.3	11.2	9.4	A945P/A378Q	-1.06%	
10/7/1997	SEAD-12	1	Regional	741521.4	1013613	6.2	9.5	12	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741525.8	1013513	6.5	9.4	10.8	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741530.2	1013413	5.8	9.1	10.8	9.4	A945P/A378Q	-3.19%	
10/7/1997	SEAD-12	1	Regional	741534.6	1013313	8.8	9.8	11.8	9.4	A945P/A378Q	4.26%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/7/1997	SEAD-12	1	Regional	741538.9	1013213	8.5	9.6	11.2	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741543.3	1013113	7.2	9.5	12	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741547.7	1013014	7.8	9.8	11.8	9.4	A945P/A378Q	4.26%	
10/7/1997	SEAD-12	1	Regional	741552.1	1012914	8.2	10	11.5	9.4	A945P/A378Q	6.38%	
10/7/1997	SEAD-12	1	Regional	741556.4	1012814	8	9.8	11.2	9.4	A945P/A378Q	4.26%	
10/7/1997	SEAD-12	1	Regional	741558.3	1013915	10	10.8	12.8	9.5	A984P/A398Q	13.68%	
10/7/1997	SEAD-12	1	Regional	741562.6	1013815	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741567	1013715	8.4	9.3	11.2	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741571.4	1013615	8.6	9.5	10.5	9.5	A984P/A398Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741575.8	1013515	8	9.2	10	9.5	A984P/A398Q	-3.16%	
10/7/1997	SEAD-12	1	Regional	741580.1	1013415	8	9	10	9.5	A984P/A398Q	-5.26%	
10/7/1997	SEAD-12	1	Regional	741584.5	1013315	8.4	9.3	9.8	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741588.9	1013216	8.5	9.6	10.5	9.5	A984P/A398Q	1.05%	
10/7/1997	SEAD-12	1	Regional	741593.3	1013116	9	10.1	11.8	9.5	A984P/A398Q	6.32%	
10/7/1997	SEAD-12	1	Regional	741597.6	1013016	9.1	10	11.2	9.5	A984P/A398Q	5.26%	
10/7/1997	SEAD-12	1	Regional	741602	1012916	9	10.1	10.6	9.5	A984P/A398Q	6.32%	
10/7/1997	SEAD-12	1	Regional	741606.4	1012816	9	9.8	10.4	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741608.1	1013919	7.5	9.8	10.8	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741612.5	1013819	7.7	9	10.5	9.5	A984P/A398Q	-5.26%	
10/7/1997	SEAD-12	1	Regional	741616.9	1013719	7.5	8.6	9.9	9.5	A984P/A398Q	-9.47%	
10/7/1997	SEAD-12	1	Regional	741621.3	1013620	8	8.8	10	9.5	A984P/A398Q	-7.37%	
10/7/1997	SEAD-12	1	Regional	741625.7	1013520	7.8	8.9	10	9.5	A984P/A398Q	-6.32%	
10/7/1997	SEAD-12	1	Regional	741630.1	1013420	7.5	9	9.7	9.5	A984P/A398Q	-5.26%	
10/7/1997	SEAD-12	1	Regional	741634.4	1013320	8.5	9.3	10.1	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741638.8	1013220	8.7	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/7/1997	SEAD-12	1	Regional	741643.2	1013120	9	10	11.2	9.5	A984P/A398Q	5.26%	
10/7/1997	SEAD-12	1	Regional	741647.5	1013020	9.9	10.7	12.4	9.5	A984P/A398Q	12.63%	
10/7/1997	SEAD-12	1	Regional	741701.9	1012920	9.2	10.5	11.2	9.5	A984P/A398Q	10.53%	
10/7/1997	SEAD-12	1	Regional	741706.3	1012820	9	10.1	11.6	9.5	A984P/A398Q	6.32%	
10/7/1997	SEAD-12	1	Regional	741608.2	1013917	7.2	9.5	11.5	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741612.6	1013817	8.2	9.2	12	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741616.9	1013717	7.8	9.5	11.5	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741621.3	1013617	8	9.5	10.8	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741625.7	1013517	6.8	9.4	11	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741630.1	1013418	5.8	9.2	10.2	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741634.4	1013318	6	9.5	11.5	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741638.8	1013218	6.8	9.5	10.8	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741643.2	1013118	6.5	9.5	11.2	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741647.6	1013018	8	10	12	9.4	A945P/A378Q	6.38%	
10/7/1997	SEAD-12	1	Regional	741651.9	1012918	7.2	9.8	11	9.4	A945P/A378Q	4.26%	
10/7/1997	SEAD-12	1	Regional	741656.3	1012818	5.5	10.4	11.5	9.4	A945P/A378Q	10.64%	
10/7/1997	SEAD-12	1	Regional	741708.1	1013921	6	9.7	11.5	9.4	A945P/A378Q	3.19%	
10/7/1997	SEAD-12	1	Regional	741712.4	1013822	8	9.2	11	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741716.8	1013722	8.2	9.1	10.5	9.4	A945P/A378Q	-3.19%	
10/7/1997	SEAD-12	1	Regional	741721.3	1013622	7.2	8.9	10.5	9.4	A945P/A378Q	-5.32%	
10/7/1997	SEAD-12	1	Regional	741725.6	1013522	6.8	8.8	10.8	9.4	A945P/A378Q	-6.38%	
10/7/1997	SEAD-12	1	Regional	741730	1013422	6.2	9.1	11	9.4	A945P/A378Q	-3.19%	
10/7/1997	SEAD-12	1	Regional	741734.4	1013322	6.2	8.9	10.8	9.4	A945P/A378Q	-5.32%	
10/7/1997	SEAD-12	1	Regional	741738.8	1013222	8	9.3	11.8	9.4	A945P/A378Q	-1.06%	
10/7/1997	SEAD-12	1	Regional	741743.1	1013122	8	9.4	11.8	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741747.5	1013022	7.2	9.6	11.5	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741751.9	1012922	6.8	9.9	12.2	9.4	A945P/A378Q	5.32%	
10/7/1997	SEAD-12	1	Regional	741756.3	1012823	6.5	9.6	11.8	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741758.1	1013924	8.9	10.2	12.5	9.5	A984P/A398Q	7.37%	
10/7/1997	SEAD-12	1	Regional	741762.4	1013824	8	8.7	10	9.5	A984P/A398Q	-8.42%	
10/7/1997	SEAD-12	1	Regional	741766.8	1013724	7.5	9.3	9.8	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741771.2	1013624	7.5	8.6	9.2	9.5	A984P/A398Q	-9.47%	
10/7/1997	SEAD-12	1	Regional	741775.6	1013524	7.8	8.5	9.8	9.5	A984P/A398Q	-10.53%	
10/7/1997	SEAD-12	1	Regional	741779.9	1013424	8	9.4	10.8	9.5	A984P/A398Q	-1.05%	
10/7/1997	SEAD-12	1	Regional	741784.3	1013324	7.5	8.2	9.4	9.5	A984P/A398Q	-13.68%	
10/7/1997	SEAD-12	1	Regional	741788.7	1013224	8.4	9.3	10.4	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741793.1	1013124	8.9	9.3	9.8	9.5	A984P/A398Q	-2.11%	
10/7/1997	SEAD-12	1	Regional	741797.4	1013025	7.7	9.1	10.2	9.5	A984P/A398Q	-4.21%	
10/7/1997	SEAD-12	1	Regional	741801.8	1012925	8.9	9.8	11.2	9.5	A984P/A398Q	3.16%	
10/7/1997	SEAD-12	1	Regional	741806.2	1012825	8.5	9.5	11	9.5	A984P/A398Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741810.5	1013928	9	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/7/1997	SEAD-12	1	Regional	741814.9	1013828	8.5	9.5	10.5	9.5	A984P/A398Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741819.2	1013728	8.5	9.2	10.2	9.5	A984P/A398Q	-3.16%	
10/7/1997	SEAD-12	1	Regional	741823.6	1013628	8.4	9.4	10	9.5	A984P/A398Q	-1.05%	
10/7/1997	SEAD-12	1	Regional	741828.0	1013528	8.3	9	9.5	9.5	A984P/A398Q	-5.26%	
10/7/1997	SEAD-12	1	Regional	741832.4	1013428	8	9	9.5	9.5	A984P/A398Q	-5.26%	
10/7/1997	SEAD-12	1	Regional	741836.8	1013328	8.4	9.2	9.9	9.5	A984P/A398Q	-3.16%	
10/7/1997	SEAD-12	1	Regional	741841.2	1013228	8.8	9.7	10.8	9.5	A984P/A398Q	2.11%	
10/7/1997	SEAD-12	1	Regional	741845.6	1013128	8.5	9.5	10.4	9.5	A984P/A398Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741850.0	1013028	8.9	9.2	9.8	9.5	A984P/A398Q	-3.16%	
10/7/1997	SEAD-12	1	Regional	741854.4	1012928	8.4	9.6	10	9.5	A984P/A398Q	1.05%	
10/7/1997	SEAD-12	1	Regional	741858.8	1012828	8.5	9.4	10.2	9.5	A984P/A398Q	-1.05%	
10/7/1997	SEAD-12	1	Regional	741863.2	1013932	5.8	9.9	13.1	9.4	A945P/A378Q	5.32%	
10/7/1997	SEAD-12	1	Regional	741867.6	1013832	8.9	9.2	12.2	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741872.0	1013732	7.5	9	12.2	9.4	A945P/A378Q	-4.26%	
10/7/1997	SEAD-12	1	Regional	741876.4	1013632	7.2	9.3	10.5	9.4	A945P/A378Q	-1.06%	
10/7/1997	SEAD-12	1	Regional	741880.8	1013532	6.5	9	10.2	9.4	A945P/A378Q	-4.26%	
10/7/1997	SEAD-12	1	Regional	741885.2	1013432	7.2	8.8	10	9.4	A945P/A378Q	-6.38%	
10/7/1997	SEAD-12	1	Regional	741889.6	1013332	6.2	9.2	10.8	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741894.0	1013232	7	9.4	11.5	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741898.4	1013132	7	9.1	11.2	9.4	A945P/A378Q	-3.19%	
10/7/1997	SEAD-12	1	Regional	741902.8	1013032	7.2	9.1	11.5	9.4	A945P/A378Q	-3.19%	
10/7/1997	SEAD-12	1	Regional	741907.2	1012932	6.8	9.2	10.5	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741911.6	1012832	5.8	9.6	11	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741916.0	1013936	7.2	9.7	12	9.4	A945P/A378Q	3.19%	



Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/7/1997	SEAD-12	1	Regional	741912.3	1013830	7.2	9.6	11.2	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741916.6	1013730	7.5	9.2	12	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741921	1013630	7.2	9.5	11	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741925.4	1013531	7.5	9.2	10.8	9.4	A945P/A378Q	-2.13%	
10/7/1997	SEAD-12	1	Regional	741929.8	1013431	5.2	9.1	12	9.4	A945P/A378Q	-3.19%	
10/7/1997	SEAD-12	1	Regional	741934.1	1013331	5.4	9.6	10.2	9.4	A945P/A378Q	2.13%	
10/7/1997	SEAD-12	1	Regional	741938.6	1013231	6.8	9.4	10.5	9.4	A945P/A378Q	0.00%	
10/7/1997	SEAD-12	1	Regional	741942.9	1013131	7.2	9.8	11.5	9.4	A945P/A378Q	4.26%	
10/7/1997	SEAD-12	1	Regional	741947.3	1013031	6.5	9.5	10.8	9.4	A945P/A378Q	1.06%	
10/7/1997	SEAD-12	1	Regional	741951.7	1012931	7	9.8	11.5	9.4	A945P/A378Q	4.26%	
10/7/1997	SEAD-12	1	Regional	741956.1	1012831	4.8	8.8	10.2	9.4	A945P/A378Q	-6.38%	
10/8/1997	SEAD-12	1	Regional	741957.9	1013932	9	10	11.4	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742058.2	1013937	9	10	11.4	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	741962.3	1013832	8.4	9.4	11.2	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	741966.6	1013733	8.2	9.2	10.7	9.6	A984P/A398Q	-4.17%	
10/8/1997	SEAD-12	1	Regional	741971	1013633	7.8	9.5	11.5	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	741975.4	1013533	8.7	9.7	10.8	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	741979.8	1013433	8.3	9.6	10.4	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	741984.1	1013333	8.8	9.7	11	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	741988.5	1013233	8.8	9.8	10.8	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	741992.9	1013133	8	9.5	10.8	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	741997.3	1013033	9	9.8	11.5	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742001.6	1012933	9.2	10.1	12	9.6	A984P/A398Q	5.21%	
10/8/1997	SEAD-12	1	Regional	742006	1012833	9.3	10.3	11.2	9.6	A984P/A398Q	7.29%	
10/8/1997	SEAD-12	1	Regional	741957.9	1013932	8	9.8	11.4	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742062.1	1013837	8.2	9.2	10.2	9.6	A984P/A398Q	-4.17%	
10/8/1997	SEAD-12	1	Regional	742066.5	1013737	8.3	9.5	10.4	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742070.9	1013637	8	9	10.2	9.6	A984P/A398Q	-6.25%	
10/8/1997	SEAD-12	1	Regional	742075.3	1013537	8.3	9.4	10.2	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742079.6	1013437	8	9.4	10.3	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742084	1013337	8.5	9.4	10.4	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742088.4	1013237	8.5	9.7	11.2	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	742092.8	1013138	8.5	10	11	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742097.1	1013038	9	10.6	11.8	9.6	A984P/A398Q	10.42%	
10/8/1997	SEAD-12	1	Regional	742101.5	1012938	8.8	10.2	11.5	9.6	A984P/A398Q	6.25%	
10/8/1997	SEAD-12	1	Regional	742105.9	1012838	9	9.8	11.2	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742007.8	1013935	5.8	9.4	12	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742012.2	1013835	6.5	9.2	11.8	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742016.6	1013735	6.5	9.4	11.2	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742020.9	1013635	7.8	9.5	12.2	9.5	A945P/A378Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742025.3	1013535	7.2	9.2	11.5	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742029.7	1013435	6.2	9.5	12.2	9.5	A945P/A378Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742034.1	1013335	5.2	9.4	11.8	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742038.4	1013235	7.5	9.6	11.5	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742042.8	1013135	6.8	9.8	11.8	9.5	A945P/A378Q	3.16%	
10/8/1997	SEAD-12	1	Regional	742047.2	1013035	7.2	10.1	12.5	9.5	A945P/A378Q	6.32%	
10/8/1997	SEAD-12	1	Regional	742051.6	1012936	6.8	10.3	12.8	9.5	A945P/A378Q	8.42%	
10/8/1997	SEAD-12	1	Regional	742055.9	1012836	5.8	10.1	12.2	9.5	A945P/A378Q	6.32%	
10/8/1997	SEAD-12	1	Regional	742107.7	1013939	6.8	9.8	11.5	9.5	A945P/A378Q	3.16%	
10/8/1997	SEAD-12	1	Regional	742112.1	1013839	7.8	9.7	12.2	9.5	A945P/A378Q	2.11%	
10/8/1997	SEAD-12	1	Regional	742116.4	1013739	8	9.7	11.5	9.5	A945P/A378Q	2.11%	
10/8/1997	SEAD-12	1	Regional	742120.8	1013639	6	9.4	11.2	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742125.2	1013539	7.8	9.5	11.2	9.5	A945P/A378Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742129.6	1013439	4.8	9.2	11.5	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742133.9	1013340	5.8	9.7	12.2	9.5	A945P/A378Q	2.11%	
10/8/1997	SEAD-12	1	Regional	742138.3	1013240	6.5	9.4	11.5	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742142.7	1013140	6.8	10	11	9.5	A945P/A378Q	5.26%	
10/8/1997	SEAD-12	1	Regional	742147.1	1013040	7	10	12.2	9.5	A945P/A378Q	5.26%	
10/8/1997	SEAD-12	1	Regional	742151.4	1012940	7.2	10.2	12.5	9.5	A945P/A378Q	7.37%	
10/8/1997	SEAD-12	1	Regional	742155.8	1012840	7	9.5	11.5	9.5	A945P/A378Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742157.7	1013941	8.8	9.7	10.5	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	742162.1	1013841	9.2	9.8	10.5	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742166.4	1013741	9.1	9.7	10.5	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	742170.8	1013641	8.8	9.8	11	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742175.2	1013542	8.5	9.4	10.6	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742179.6	1013442	7.8	9.5	10.5	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742183.9	1013342	8.2	9.6	10.4	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742188.3	1013242	8.5	9.5	10.2	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742192.7	1013142	8.8	9.9	11	9.6	A984P/A398Q	3.13%	
10/8/1997	SEAD-12	1	Regional	742197.1	1013042	8.5	10	11	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742201.4	1012942	8.5	10	11	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742205.8	1012842	8.8	10.1	11.8	9.6	A984P/A398Q	5.21%	
10/8/1997	SEAD-12	1	Regional	742257.6	1013946	8.5	9.6	10.3	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742261.9	1013846	8.4	9.4	10.2	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742266.3	1013746	8.7	9.4	10.3	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742270.7	1013646	8.6	9.6	10.6	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742275.1	1013546	8.4	9.5	10.2	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742279.4	1013446	8	9.2	10	9.6	A984P/A398Q	-4.17%	
10/8/1997	SEAD-12	1	Regional	742283.8	1013346	7.7	8.7	9.9	9.6	A984P/A398Q	-9.38%	
10/8/1997	SEAD-12	1	Regional	742288.2	1013246	7.5	9.4	10.2	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742292.6	1013146	8.5	10	10.8	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742296.9	1013046	9	10.2	11.8	9.6	A984P/A398Q	6.25%	
10/8/1997	SEAD-12	1	Regional	742301.3	1012946	8.5	10	11.5	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742305.7	1012847	10	11	12.6	9.6	A984P/A398Q	14.58%	
10/8/1997	SEAD-12	1	Regional	742207.6	1013943	6.8	9.3	10.8	9.5	A945P/A378Q	-2.11%	
10/8/1997	SEAD-12	1	Regional	742212	1013843	7.8	9.6	12	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742216.4	1013744	8	9.7	12	9.5	A945P/A378Q	2.11%	
10/8/1997	SEAD-12	1	Regional	742220.8	1013644	7.5	9.6	12.2	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742225.1	1013544	7.8	9.6	11.8	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742229.5	1013444	6.2	9.8	12.2	9.5	A945P/A378Q	3.16%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument (s/n)	% +/- Background	Comments
				easting	northing							
10/8/1997	SEAD-12	1	Regional	742233 9	1013344	5.5	10	13	9.5	A945P/A378Q	5.26%	
10/8/1997	SEAD-12	1	Regional	742238 3	1013244	7.8	10	11.5	9.5	A945P/A378Q	5.26%	
10/8/1997	SEAD-12	1	Regional	742242 6	1013144	7.5	10.1	11.8	9.5	A945P/A378Q	6.32%	
10/8/1997	SEAD-12	1	Regional	742247	1013044	8	10.7	12.5	9.5	A945P/A378Q	12.63%	
10/8/1997	SEAD-12	1	Regional	742251 4	1012944	8.8	10.1	12.2	9.5	A945P/A378Q	6.32%	
10/8/1997	SEAD-12	1	Regional	742255 8	1012844	6.8	10.4	12.5	9.5	A945P/A378Q	9.47%	
10/8/1997	SEAD-12	1	Regional	742307 5	1013948	5.8	9.4	11.5	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742311.9	1013848	6.2	9	11.8	9.5	A945P/A378Q	-5.26%	
10/8/1997	SEAD-12	1	Regional	742316 3	1013748	7	9.6	11.5	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742320 6	1013648	6.8	9.5	11.2	9.5	A945P/A378Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742325	1013548	6.5	9.6	11.5	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742329.4	1013448	5.2	9.3	12	9.5	A945P/A378Q	-2.11%	
10/8/1997	SEAD-12	1	Regional	742333 8	1013348	6.2	8.9	11.2	9.5	A945P/A378Q	-6.32%	
10/8/1997	SEAD-12	1	Regional	742338.1	1013248	6.8	9.1	11.5	9.5	A945P/A378Q	-4.21%	
10/8/1997	SEAD-12	1	Regional	742342 5	1013148	7.2	10.4	12.5	9.5	A945P/A378Q	9.47%	
10/8/1997	SEAD-12	1	Regional	742346 9	1013049	7.5	10.7	12.8	9.5	A945P/A378Q	12.63%	
10/8/1997	SEAD-12	1	Regional	742351 3	1012949	7.8	10.9	13.5	9.5	A945P/A378Q	14.74%	
10/8/1997	SEAD-12	1	Regional	742355 6	1012849	5.5	9.9	12.5	9.5	A945P/A378Q	4.21%	
10/8/1997	SEAD-12	1	Regional	742357.5	1013950	8.5	9.4	10.2	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742361 9	1013850	7.7	8.6	9.2	9.6	A984P/A398Q	-10.42%	
10/8/1997	SEAD-12	1	Regional	742366 3	1013750	8.5	9.4	10	9.6	A984P/A398Q	-2.08%	
10/8/1997	SEAD-12	1	Regional	742370 6	1013650	8.8	9.6	10.2	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742375	1013550	8.5	9.2	10	9.6	A984P/A398Q	-4.17%	
10/8/1997	SEAD-12	1	Regional	742379.4	1013450	8.8	9.5	10.4	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742457 4	1013954	9	9.9	11	9.6	A984P/A398Q	3.13%	
10/8/1997	SEAD-12	1	Regional	742461 8	1013854	8.8	9.5	10	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742466.1	1013754	8.8	9.8	10.4	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742470 5	1013655	7.5	9.2	9.8	9.6	A984P/A398Q	-4.17%	
10/8/1997	SEAD-12	1	Regional	742474.9	1013555	8	9.3	10	9.6	A984P/A398Q	-3.12%	
10/8/1997	SEAD-12	1	Regional	742479 3	1013455	8	9.2	9.8	9.6	A984P/A398Q	-4.17%	
10/8/1997	SEAD-12	1	Regional	742407.4	1013952	5.2	9.6	11.5	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742411 8	1013852	7.2	8.8	11.2	9.5	A945P/A378Q	-7.37%	
10/8/1997	SEAD-12	1	Regional	742416 2	1013752	7.8	9.5	10.5	9.5	A945P/A378Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742420 6	1013652	7.8	9.4	11.2	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742424.9	1013552	6.5	9.6	10.8	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742429 3	1013453	6.5	9.5	10.5	9.5	A945P/A378Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742507 3	1013956	5.8	10.2	12.2	9.5	A945P/A378Q	7.37%	
10/8/1997	SEAD-12	1	Regional	742511 7	1013857	7.8	9.4	10.5	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742516 1	1013757	7.2	9.2	11.2	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742520 4	1013657	7.8	9.2	10.5	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742524 8	1013557	5.8	9.3	10.8	9.5	A945P/A378Q	-2.11%	
10/8/1997	SEAD-12	1	Regional	742529 2	1013457	5.2	9.1	11.5	9.5	A945P/A378Q	-4.21%	
10/8/1997	SEAD-12	1	Regional	742607 3	1013961	5.5	9.2	11.5	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742611 6	1013861	6.8	9.4	10.8	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742616	1013761	7.2	9.2	10.5	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742620.4	1013661	6.2	9.2	11	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742624 8	1013561	5.2	9	10.2	9.5	A945P/A378Q	-5.26%	
10/8/1997	SEAD-12	1	Regional	742707 1	1013965	5.8	9.2	11	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742711 5	1013865	6.8	9.3	11.2	9.5	A945P/A378Q	-2.11%	
10/8/1997	SEAD-12	1	Regional	742715 9	1013765	7.2	9.8	11.8	9.5	A945P/A378Q	3.16%	
10/8/1997	SEAD-12	1	Regional	742720 3	1013666	6.2	10	11.8	9.5	A945P/A378Q	5.26%	
10/8/1997	SEAD-12	1	Regional	742724 6	1013566	3.8	7.9	9.2	9.5	A945P/A378Q	-16.84%	
10/8/1997	SEAD-12	1	Regional	742557 3	1013959	8.5	9.6	10.4	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742561 6	1013859	7.2	9.5	10.4	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742566	1013759	8.5	9.2	9.8	9.6	A984P/A398Q	-4.17%	
10/8/1997	SEAD-12	1	Regional	742570 4	1013659	8.5	9	9.5	9.6	A984P/A398Q	-6.25%	
10/8/1997	SEAD-12	1	Regional	742574 8	1013559	7.2	9.3	10.2	9.6	A984P/A398Q	-3.12%	
10/8/1997	SEAD-12	1	Regional	742579 2	1013459	9	9.9	11.4	9.6	A984P/A398Q	3.13%	
10/8/1997	SEAD-12	1	Regional	742657 2	1013963	7.5	8.5	9.8	9.6	A984P/A398Q	-11.46%	
10/8/1997	SEAD-12	1	Regional	742661 6	1013863	10	10.1	11.3	9.6	A984P/A398Q	5.21%	
10/8/1997	SEAD-12	1	Regional	742665 9	1013763	6	7	8	9.6	A984P/A398Q	-27.08%	
10/8/1997	SEAD-12	1	Regional	742670 3	1013663	5.5	6.7	8.5	9.6	A984P/A398Q	-30.21%	
10/8/1997	SEAD-12	1	Regional	742674 7	1013563	7.2	9.5	10.2	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742679 1	1013464	7.2	9.5	10	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742757 1	1013967	8.4	10.2	11	9.6	A984P/A398Q	6.25%	
10/8/1997	SEAD-12	1	Regional	742761 4	1013867	7.5	9.6	11.1	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742765 8	1013768	8	10	11.5	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742770 2	1013668	9	9.6	11.5	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742857	1013972	8.5	9.6	11	9.6	A984P/A398Q	0.00%	
10/8/1997	SEAD-12	1	Regional	742861 4	1013872	9	10	11	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742865 8	1013772	9	10.3	11.5	9.6	A984P/A398Q	7.29%	
10/8/1997	SEAD-12	1	Regional	742870 1	1013672	8.5	9	9.9	9.6	A984P/A398Q	-6.25%	
10/8/1997	SEAD-12	1	Regional	742874 5	1013572	9	9.9	11	9.6	A984P/A398Q	3.13%	
10/8/1997	SEAD-12	1	Regional	742878 9	1013472	8	8.9	10.2	9.6	A984P/A398Q	-7.29%	
10/8/1997	SEAD-12	1	Regional	742956 9	1013976	8.5	9.5	11	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742961 3	1013876	8.4	10	11	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742965 6	1013776	9	10.6	12	9.6	A984P/A398Q	10.42%	
10/8/1997	SEAD-12	1	Regional	742970	1013676	8.5	9.8	11	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742974 4	1013577	8.5	9.5	11.8	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742978 8	1013477	8.4	9.7	11	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	743056 8	1013981	8.5	9.9	11	9.6	A984P/A398Q	3.13%	
10/8/1997	SEAD-12	1	Regional	743061 2	1013881	9	9.7	10.8	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	743065 6	1013781	9.5	11	12.5	9.6	A984P/A398Q	14.58%	
10/8/1997	SEAD-12	1	Regional	743069 9	1013681	7.5	9.5	11	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	743074 3	1013581	8.8	10	10.8	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	743078 7	1013481	8.5	9.5	10.4	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742807 1	1013970	4.8	9.2	11.2	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	742811 4	1013870	6.5	9.6	11.5	9.5	A945P/A378Q	1.05%	
10/8/1997	SEAD-12	1	Regional	742815 8	1013770	7.8	10	10.8	9.5	A945P/A378Q	5.26%	
10/8/1997	SEAD-12	1	Regional	742820 2	1013670	6.2	9.8	12.2	9.5	A945P/A378Q	3.16%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Gnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/8/1997	SEAD-12	1	Regional	742906.9	1013974	4.8	9.7	12	9.5	A945P/A378Q	2.11%	
10/8/1997	SEAD-12	1	Regional	742911.3	1013874	8.5	9.8	12.5	9.5	A945P/A378Q	3.16%	
10/8/1997	SEAD-12	1	Regional	742915.7	1013774	7.2	10.1	12.8	9.5	A945P/A378Q	6.32%	
10/8/1997	SEAD-12	1	Regional	742920.1	1013674	7.5	9.4	11.2	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	742924.4	1013574	5.2	8.6	10.5	9.5	A945P/A378Q	-9.47%	
10/8/1997	SEAD-12	1	Regional	742928.8	1013474	4.5	6.9	8.2	9.5	A945P/A378Q	-27.37%	
10/8/1997	SEAD-12	1	Regional	743006.9	1013978	4.8	9.2	11.2	9.5	A945P/A378Q	-3.16%	
10/8/1997	SEAD-12	1	Regional	743011.3	1013878	7.8	9.4	10.8	9.5	A945P/A378Q	-1.05%	
10/8/1997	SEAD-12	1	Regional	743015.6	1013779	7.2	10.7	12.2	9.5	A945P/A378Q	12.63%	
10/8/1997	SEAD-12	1	Regional	743020	1013679	7.2	9.8	11.5	9.5	A945P/A378Q	3.16%	
10/8/1997	SEAD-12	1	Regional	743024.4	1013579	6.8	9.8	11.5	9.5	A945P/A378Q	3.16%	
10/8/1997	SEAD-12	1	Regional	743028.8	1013479	4.8	10	11.5	9.5	A945P/A378Q	5.26%	
10/8/1997	SEAD-12	1	Regional	742956.9	1013976	8.5	9.5	11.9	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742961.3	1013876	8.4	10	11	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	742965.6	1013776	9	10.6	12	9.6	A984P/A398Q	10.42%	
10/8/1997	SEAD-12	1	Regional	742970	1013676	8.5	9.8	11	9.6	A984P/A398Q	2.08%	
10/8/1997	SEAD-12	1	Regional	742974.4	1013577	8.5	9.5	11.8	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	742978.8	1013477	8.4	9.7	11	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	743056.8	1013981	8.5	9.9	11	9.6	A984P/A398Q	3.13%	
10/8/1997	SEAD-12	1	Regional	743061.2	1013881	9	9.7	10.8	9.6	A984P/A398Q	1.04%	
10/8/1997	SEAD-12	1	Regional	743065.6	1013781	9.5	11	12.5	9.6	A984P/A398Q	14.58%	
10/8/1997	SEAD-12	1	Regional	743069.9	1013681	7.5	9.5	11	9.6	A984P/A398Q	-1.04%	
10/8/1997	SEAD-12	1	Regional	743074.3	1013581	8.8	10	10.8	9.6	A984P/A398Q	4.17%	
10/8/1997	SEAD-12	1	Regional	743078.7	1013481	8.5	9.5	10.4	9.6	A984P/A398Q	-1.04%	
10/9/1997	SEAD-12	2	Regional	741210.3	1012719	8.8	10.5	12.2	9.9	A984P/A398Q	6.06%	
10/9/1997	SEAD-12	2	Regional	741214.6	1012619	9	10.9	12	9.9	A984P/A398Q	10.10%	
10/9/1997	SEAD-12	2	Regional	741219	1012519	9	10.6	12.2	9.9	A984P/A398Q	7.07%	
10/9/1997	SEAD-12	2	Regional	741223.4	1012419	9.8	11.3	13	9.9	A984P/A398Q	14.14%	
10/9/1997	SEAD-12	2	Regional	741227.8	1012319	9.8	11.4	13.2	9.9	A984P/A398Q	15.15%	
10/9/1997	SEAD-12	2	Regional	741232.1	1012219	10	11.6	13.2	9.9	A984P/A398Q	17.17%	
10/9/1997	SEAD-12	2	Regional	741236.5	1012119	9.5	11.1	13	9.9	A984P/A398Q	12.12%	
10/9/1997	SEAD-12	2	Regional	741240.9	1012019	9	11.2	12.5	9.9	A984P/A398Q	13.13%	drain @760'
10/9/1997	SEAD-12	2	Regional	741245.3	1011919	8.8	10.4	11.5	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741249.6	1011819	8.5	10	11	9.9	A984P/A398Q	1.01%	
10/9/1997	SEAD-12	2	Regional	741254	1011719	8	10	10.8	9.9	A984P/A398Q	1.01%	
10/9/1997	SEAD-12	2	Regional	741258.4	1011620	8.8	10.4	11.5	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741260.6	1011520	8.5	9.8	10.5	9.9	A984P/A398Q	-1.01%	12" Inlet Drain 1230/26"Outlet Drain 1295'
10/9/1997	SEAD-12	2	Regional	741310.2	1012723	8	10	12	9.9	A984P/A398Q	1.01%	
10/9/1997	SEAD-12	2	Regional	741314.6	1012623	8	9.8	10.8	9.9	A984P/A398Q	-1.01%	
10/9/1997	SEAD-12	2	Regional	741318.9	1012523	8	9.8	10.5	9.9	A984P/A398Q	-1.01%	
10/9/1997	SEAD-12	2	Regional	741323.3	1012423	8.2	10	11	9.9	A984P/A398Q	1.01%	
10/9/1997	SEAD-12	2	Regional	741327.7	1012323	8.5	9.9	10.8	9.9	A984P/A398Q	0.00%	
10/9/1997	SEAD-12	2	Regional	741332.1	1012223	9.2	10.6	12.5	9.9	A984P/A398Q	7.07%	
10/9/1997	SEAD-12	2	Regional	741336.4	1012123	9.8	10.8	12	9.9	A984P/A398Q	9.09%	
10/9/1997	SEAD-12	2	Regional	741340.8	1012024	9.5	10.8	12.5	9.9	A984P/A398Q	9.09%	
10/9/1997	SEAD-12	2	Regional	741345.2	1011924	9	10.4	11.8	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741349.6	1011824	9.5	10.8	12.5	9.9	A984P/A398Q	9.09%	
10/9/1997	SEAD-12	2	Regional	741353.9	1011724	9.4	10.4	12.8	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741358.3	1011624	8.8	10.4	11.5	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741360.5	1011524	8.5	10.4	11.2	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741260.2	1012721	6.8	10	12	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741264.6	1012621	6.8	9.5	11.8	9.7	A945P/A378Q	-2.06%	
10/9/1997	SEAD-12	2	Regional	741268.9	1012521	8.2	10.3	13	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741273.3	1012421	7.8	10.2	12.8	9.7	A945P/A378Q	5.15%	
10/9/1997	SEAD-12	2	Regional	741277.7	1012321	7.5	10	13.2	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741282.1	1012221	8	9.8	12.2	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741286.4	1012121	7.2	10.6	13.5	9.7	A945P/A378Q	9.28%	
10/9/1997	SEAD-12	2	Regional	741290.8	1012021	7	10.4	13	9.7	A945P/A378Q	7.22%	
10/9/2007	SEAD-12	2	Regional	741295.2	1011921	8.5	10.8	13.2	9.7	A945P/A378Q	11.34%	
10/9/1997	SEAD-12	2	Regional	741299.6	1011822	7.8	10.4	12.5	9.7	A945P/A378Q	7.22%	
10/9/1997	SEAD-12	2	Regional	741303.9	1011722	8.2	10.5	13.2	9.7	A945P/A378Q	8.25%	
10/9/1997	SEAD-12	2	Regional	741308.3	1011622	6.8	9.8	12.2	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741310.5	1011522	8.5	10.2	12.5	9.7	A945P/A378Q	5.15%	
10/9/1997	SEAD-12	2	Regional	741360.1	1012725	6.2	9.8	13	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741364.5	1012625	7.8	9.5	12	9.7	A945P/A378Q	-2.06%	
10/9/1997	SEAD-12	2	Regional	741368.9	1012525	8.2	9.8	11.8	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741373.3	1012425	8.2	10.3	13.5	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741377.6	1012325	8.5	10.5	12.2	9.7	A945P/A378Q	8.25%	
10/9/1997	SEAD-12	2	Regional	741382	1012226	8.2	10.9	12.8	9.7	A945P/A378Q	12.37%	
10/9/1997	SEAD-12	2	Regional	741386.4	1012126	8.2	10.8	12.5	9.7	A945P/A378Q	11.34%	
10/9/1997	SEAD-12	2	Regional	741390.8	1012026	8.5	10.8	13.5	9.7	A945P/A378Q	11.34%	
10/9/1997	SEAD-12	2	Regional	741395.1	1011926	8.5	10.7	13.2	9.7	A945P/A378Q	10.31%	
10/9/1997	SEAD-12	2	Regional	741399.5	1011826	7.5	10.5	13.5	9.7	A945P/A378Q	8.25%	
10/9/1997	SEAD-12	2	Regional	741403.9	1011726	6.5	10.3	12.5	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741408.3	1011626	7.8	10.6	12.2	9.7	A945P/A378Q	9.28%	
10/9/1997	SEAD-12	2	Regional	741410.4	1011526	8.2	10.8	13.5	9.7	A945P/A378Q	11.34%	
10/9/1997	SEAD-12	2	Regional	741509.9	1012732	8.5	9.7	11	9.7	A945P/A378Q	0.00%	
10/9/1997	SEAD-12	2	Regional	741514.3	1012632	8	10.1	11.2	9.7	A945P/A378Q	4.12%	
10/9/1997	SEAD-12	2	Regional	741518.7	1012532	8.5	10	11	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741523.1	1012432	8	10	11	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741527.5	1012332	8.5	9.7	10.5	9.7	A945P/A378Q	0.00%	
10/9/1997	SEAD-12	2	Regional	741531.9	1012232	9	10.1	11	9.7	A945P/A378Q	4.12%	
10/9/1997	SEAD-12	2	Regional	741536.3	1012132	8.8	10.9	11.8	9.7	A945P/A378Q	12.37%	
10/9/1997	SEAD-12	2	Regional	741540.6	1012032	9.4	11.3	12.5	9.7	A945P/A378Q	16.49%	
10/9/1997	SEAD-12	2	Regional	741545	1011932	9	10.5	11.8	9.7	A945P/A378Q	8.25%	
10/9/1997	SEAD-12	2	Regional	741549.4	1011833	9.5	10.4	12	9.7	A945P/A378Q	7.22%	
10/9/1997	SEAD-12	2	Regional	741553.8	1011733	8.5	10.3	11.5	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741558.1	1011633	8.8	10.7	11.8	9.7	A945P/A378Q	10.31%	
10/9/1997	SEAD-12	2	Regional	741560.3	1011533	9	11.5	12.5	9.7	A945P/A378Q	18.56%	
10/9/1997	SEAD-12	2	Regional	741410.1	1012727	8.5	9.5	12	9.9	A984P/A398Q	-4.04%	



Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Gnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/9/1997	SEAD-12	2	Regional	741414.4	1012627	8	9.4	10	9.9	A984P/A398Q	-5.05%	
10/9/1997	SEAD-12	2	Regional	741418.8	1012527	8.5	9.7	11	9.9	A984P/A398Q	-2.02%	
10/9/1997	SEAD-12	2	Regional	741423.2	1012428	9.5	10.2	11.5	9.9	A984P/A398Q	3.03%	
10/9/1997	SEAD-12	2	Regional	741427.6	1012328	9	11	12.2	9.9	A984P/A398Q	11.11%	
10/9/1997	SEAD-12	2	Regional	741431.9	1012228	9.8	11.3	13	9.9	A984P/A398Q	14.14%	
10/9/1997	SEAD-12	2	Regional	741436.3	1012128	8.5	10.4	12	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741440.7	1012028	9	10.8	12.5	9.9	A984P/A398Q	9.09%	
10/9/1997	SEAD-12	2	Regional	741445.1	1011928	8.5	10.3	11.5	9.9	A984P/A398Q	4.04%	
10/9/1997	SEAD-12	2	Regional	741449.4	1011828	7.5	10.4	12	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741453.8	1011728	8.5	10.5	12	9.9	A984P/A398Q	6.06%	
10/9/1997	SEAD-12	2	Regional	741458.2	1011628	8.5	10.5	11.5	9.9	A984P/A398Q	6.06%	
10/9/1997	SEAD-12	2	Regional	741460.4	1011528	8.5	10.2	11.2	9.9	A984P/A398Q	3.03%	
10/9/1997	SEAD-12	2	Regional	741460	1012729	8.2	9.8	13.2	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741464.4	1012630	7.5	9.8	12.5	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741468.8	1012530	7.8	10	11.5	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741473.1	1012430	7.5	10.1	12	9.7	A945P/A378Q	4.12%	
10/9/1997	SEAD-12	2	Regional	741477.5	1012330	8.5	10.6	11.8	9.7	A945P/A378Q	9.28%	
10/9/1997	SEAD-12	2	Regional	741481.9	1012230	8.5	11.3	12.8	9.7	A945P/A378Q	16.49%	
10/9/1997	SEAD-12	2	Regional	741486.3	1012130	8.8	11.1	13.5	9.7	A945P/A378Q	14.43%	
10/9/1997	SEAD-12	2	Regional	741490.6	1012030	7.8	10.6	12.5	9.7	A945P/A378Q	9.28%	
10/9/1997	SEAD-12	2	Regional	741495	1011930	7.5	10.6	13.2	9.7	A945P/A378Q	9.28%	
10/9/1997	SEAD-12	2	Regional	741499.4	1011830	8.2	10.3	12.2	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741503.8	1011730	7.2	10.4	13.5	9.7	A945P/A378Q	7.22%	
10/9/1997	SEAD-12	2	Regional	741508.1	1011631	7.8	10.5	12.2	9.7	A945P/A378Q	8.25%	
10/9/1997	SEAD-12	2	Regional	741510.3	1011581	8.5	11.3	12	9.7	A945P/A378Q	16.49%	
10/9/1997	SEAD-12	2	Regional	741559.9	1012734	6.8	9.9	10.8	9.7	A945P/A378Q	2.06%	
10/9/1997	SEAD-12	2	Regional	741564.3	1012634	7.8	9.5	11.5	9.7	A945P/A378Q	-2.06%	
10/9/1997	SEAD-12	2	Regional	741568.7	1012534	8	9.6	11.8	9.7	A945P/A378Q	-1.03%	
10/9/1997	SEAD-12	2	Regional	741573.1	1012434	7.5	10	12.2	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741577.4	1012334	8	9.6	11.8	9.7	A945P/A378Q	-1.03%	600n @ 650'
10/9/1997	SEAD-12	2	Regional	741581.8	1012234	8.2	9.7	11.2	9.7	A945P/A378Q	0.00%	
10/9/1997	SEAD-12	2	Regional	741586.2	1012134	7.8	9.8	11.8	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741590.6	1012035	8	10.2	12	9.7	A945P/A378Q	5.15%	
10/9/1997	SEAD-12	2	Regional	741594.9	1011935	8.2	10.3	12.2	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741599.3	1011835	7.8	10.3	12	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741603.7	1011735	8	9.9	11.8	9.7	A945P/A378Q	2.06%	
10/9/1997	SEAD-12	2	Regional	741608.1	1011635	7.8	10.3	13.8	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741610.3	1011585	8.2	12.1	13.2	9.7	A945P/A378Q	24.74%	good bare to sparse vegetation
10/9/1997	SEAD-12	2	Regional	741609.9	1012736	8.5	10	12.2	9.9	A984P/A398Q	1.01%	
10/9/1997	SEAD-12	2	Regional	741614.3	1012636	8	9.3	10.8	9.9	A984P/A398Q	-6.06%	
10/9/1997	SEAD-12	2	Regional	741618.6	1012536	9	9.6	10.5	9.9	A984P/A398Q	-3.03%	
10/9/1997	SEAD-12	2	Regional	741623	1012436	9	9.7	10.5	9.9	A984P/A398Q	-2.02%	
10/9/1997	SEAD-12	2	Regional	741627.4	1012336	9	9.7	10.5	9.9	A984P/A398Q	-2.02%	
10/9/1997	SEAD-12	2	Regional	741631.8	1012236	8.8	10.1	11	9.9	A984P/A398Q	2.02%	
10/9/1997	SEAD-12	2	Regional	741636.1	1012137	9	10.3	11.2	9.9	A984P/A398Q	4.04%	
10/9/1997	SEAD-12	2	Regional	741640.5	1012037	9.5	11.4	12.5	9.9	A984P/A398Q	15.15%	
10/9/1997	SEAD-12	2	Regional	741644.9	1011937	9	10.7	12	9.9	A984P/A398Q	8.08%	
10/9/1997	SEAD-12	2	Regional	741649.3	1011837	8.5	10.2	11.5	9.9	A984P/A398Q	3.03%	
10/9/1997	SEAD-12	2	Regional	741653.6	1011737	8.4	10.1	11.2	9.9	A984P/A398Q	2.02%	
10/9/1997	SEAD-12	2	Regional	741658	1011637	8.8	10.7	12	9.9	A984P/A398Q	8.08%	
10/9/1997	SEAD-12	2	Regional	741660.2	1011587	10	11.7	12.5	9.9	A984P/A398Q	18.18%	
10/9/1997	SEAD-12	2	Regional	741709.8	1012740	8	10	11.2	9.9	A984P/A398Q	1.01%	
10/9/1997	SEAD-12	2	Regional	741714.1	1012640	8.2	9.6	10.5	9.9	A984P/A398Q	-3.03%	
10/9/1997	SEAD-12	2	Regional	741718.5	1012541	8	10	10.8	9.9	A984P/A398Q	1.01%	
10/9/1997	SEAD-12	2	Regional	741722.9	1012441	8	9.6	10.5	9.9	A984P/A398Q	-3.03%	
10/9/1997	SEAD-12	2	Regional	741727.3	1012341	8.5	9.6	10.5	9.9	A984P/A398Q	-3.03%	
10/9/1997	SEAD-12	2	Regional	741731.6	1012241	9.5	10.8	12.2	9.9	A984P/A398Q	9.09%	
10/9/1997	SEAD-12	2	Regional	741736	1012141	10.5	12	13.2	9.9	A984P/A398Q	21.21%	
10/9/1997	SEAD-12	2	Regional	741740.4	1012041	9.8	10.8	13	9.9	A984P/A398Q	9.09%	
10/9/1997	SEAD-12	2	Regional	741744.8	1011941	9.5	10.4	12	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741749.2	1011841	9	10.7	12	9.9	A984P/A398Q	8.08%	
10/9/1997	SEAD-12	2	Regional	741753.6	1011741	8	10.3	11.5	9.9	A984P/A398Q	4.04%	
10/9/1997	SEAD-12	2	Regional	741757.9	1011641	8.5	10.4	11	9.9	A984P/A398Q	5.05%	
10/9/1997	SEAD-12	2	Regional	741760.1	1011591	11	11.9	13	9.9	A984P/A398Q	20.20%	
10/9/1997	SEAD-12	2	Regional	741659.8	1012738	8	9.7	12.5	9.7	A945P/A378Q	0.00%	11' concrete culvert and
10/9/1997	SEAD-12	2	Regional	741664.2	1012638	7.5	9.9	11.8	9.7	A945P/A378Q	2.06%	
10/9/1997	SEAD-12	2	Regional	741668.6	1012538	7.8	9.7	12.2	9.7	A945P/A378Q	0.00%	
10/9/1997	SEAD-12	2	Regional	741672.9	1012438	7.5	9.7	11.5	9.7	A945P/A378Q	0.00%	
10/9/1997	SEAD-12	2	Regional	741677.3	1012339	7.8	10	11.8	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741681.7	1012239	8.2	11.8	14	9.7	A945P/A378Q	21.65%	
10/9/1997	SEAD-12	2	Regional	741686.1	1012139	8.5	11.8	13.5	9.7	A945P/A378Q	21.65%	
10/9/1997	SEAD-12	2	Regional	741690.4	1012039	8.2	10.6	12	9.7	A945P/A378Q	9.28%	
10/9/1997	SEAD-12	2	Regional	741694.8	1011939	6.8	10.1	12.2	9.7	A945P/A378Q	4.12%	
10/9/1997	SEAD-12	2	Regional	741699.2	1011839	7.5	10.4	12.2	9.7	A945P/A378Q	7.22%	
10/9/1997	SEAD-12	2	Regional	741703.6	1011739	8.2	10	12.5	9.7	A945P/A378Q	3.09%	
10/9/1997	SEAD-12	2	Regional	741707.9	1011639	7.8	10.3	13	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741710.1	1011589	8	11.4	13.2	9.7	A945P/A378Q	17.53%	
10/9/1997	SEAD-12	2	Regional	741759.8	1012743	7	10.3	13	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741764.1	1012643	6.2	9.1	10.8	9.7	A945P/A378Q	-6.19%	
10/9/1997	SEAD-12	2	Regional	741768.5	1012543	6.5	9.8	13	9.7	A945P/A378Q	1.03%	
10/9/1997	SEAD-12	2	Regional	741772.9	1012443	8.5	10.4	11.8	9.7	A945P/A378Q	7.22%	
10/9/1997	SEAD-12	2	Regional	741777.3	1012343	9	11.1	13.5	9.7	A945P/A378Q	14.43%	
10/9/1997	SEAD-12	2	Regional	741781.6	1012243	9.2	11.8	13.8	9.7	A945P/A378Q	21.65%	
10/9/1997	SEAD-12	2	Regional	741786	1012143	7.8	10.7	13.2	9.7	A945P/A378Q	10.31%	
10/9/1997	SEAD-12	2	Regional	741790.4	1012043	8.5	10.6	13.5	9.7	A945P/A378Q	9.28%	
10/9/1997	SEAD-12	2	Regional	741794.8	1011943	8	10.3	12	9.7	A945P/A378Q	6.19%	
10/9/1997	SEAD-12	2	Regional	741799.1	1011843	8.2	10.2	12.2	9.7	A945P/A378Q	5.15%	
10/9/1997	SEAD-12	2	Regional	741803.5	1011744	7.8	9.6	11.5	9.7	A945P/A378Q	-1.03%	
10/9/1997	SEAD-12	2	Regional	741807.9	1011644	8.2	11.3	12.8	9.7	A945P/A378Q	16.49%	
10/9/1997	SEAD-12	2	Regional	741810.1	1011594	8	12.1	13.5	9.7	A945P/A378Q	24.74%	1150'-1250' mostly above ground

Appendix F  
 Class III Areas Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/10/1997	SEAD-12	2	Regional	741809.7	1012745	8	9.7	11	9.5	A984P/A39PQ	2.11%	
10/10/1997	SEAD-12	2	Regional	741814.1	1012645	8	9.4	11	9.5	A984P/A39PQ	-1.05%	
10/10/1997	SEAD-12	2	Regional	741818.4	1012545	8.5	10	11.5	9.5	A984P/A39PQ	5.26%	
10/10/1997	SEAD-12	2	Regional	741822.8	1012445	9	10.2	11.8	9.5	A984P/A39PQ	7.37%	
10/10/1997	SEAD-12	2	Regional	741827.2	1012345	8.5	9.9	11.8	9.5	A984P/A39PQ	4.21%	
10/10/1997	SEAD-12	2	Regional	741831.6	1012245	9	10.8	12	9.5	A984P/A39PQ	13.68%	
10/10/1997	SEAD-12	2	Regional	741835.9	1012145	8.5	10.2	12	9.5	A984P/A39PQ	7.37%	
10/10/1997	SEAD-12	2	Regional	741840.3	1012045	8	10.2	12	9.5	A984P/A39PQ	7.37%	
10/10/1997	SEAD-12	2	Regional	741844.7	1011946	8	9.4	10.8	9.5	A984P/A39PQ	-1.05%	
10/10/1997	SEAD-12	2	Regional	741849.1	1011846	8	9.9	12	9.5	A984P/A39PQ	4.21%	EM42@995'
10/10/1997	SEAD-12	2	Regional	741853.4	1011746	8.4	9.8	11.5	9.5	A984P/A39PQ	3.16%	
10/10/1997	SEAD-12	2	Regional	741857.8	1011646	9	11.2	13	9.5	A984P/A39PQ	17.89%	
10/10/1997	SEAD-12	2	Regional	741860	1011596	8.5	10.5	12	9.5	A984P/A39PQ	10.53%	
10/10/1997	SEAD-12	2	Regional	741909.6	1012749	8	9.3	10	9.5	A984P/A39PQ	-2.11%	
10/10/1997	SEAD-12	2	Regional	741913.9	1012649	8.5	9.8	11	9.5	A984P/A39PQ	3.16%	
10/10/1997	SEAD-12	2	Regional	741918.3	1012549	8.5	9.8	11	9.5	A984P/A39PQ	3.16%	
10/10/1997	SEAD-12	2	Regional	741922.7	1012449	8.5	9.5	11.2	9.5	A984P/A39PQ	0.00%	
10/10/1997	SEAD-12	2	Regional	741927.1	1012350	8.5	9.6	11	9.5	A984P/A39PQ	1.05%	
10/10/1997	SEAD-12	2	Regional	741931.4	1012250	9	10.8	12	9.5	A984P/A39PQ	13.68%	
10/10/1997	SEAD-12	2	Regional	741935.8	1012150	8.5	10.9	13	9.5	A984P/A39PQ	14.74%	
10/10/1997	SEAD-12	2	Regional	741940.2	1012050	9	10.5	13	9.5	A984P/A39PQ	10.53%	
10/10/1997	SEAD-12	2	Regional	741944.6	1011950	7.5	9.2	10.2	9.5	A984P/A39PQ	-3.16%	
10/10/1997	SEAD-12	2	Regional	741948.9	1011850	8.5	9.6	11	9.5	A984P/A39PQ	1.05%	
10/10/1997	SEAD-12	2	Regional	741953.3	1011750	8.5	9.6	10.5	9.5	A984P/A39PQ	1.05%	
10/10/1997	SEAD-12	2	Regional	741957.7	1011650	9	9.7	11.5	9.5	A984P/A39PQ	2.11%	
10/10/1997	SEAD-12	2	Regional	741959.9	1011600	8.5	10.7	11.8	9.5	A984P/A39PQ	12.63%	
10/10/1997	SEAD-12	2	Regional	741859.6	1012747	7.5	9.8	13.5	9.6	A945P/A378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	741864	1012647	7.8	9.7	12.2	9.6	A945P/A378Q	1.04%	
10/10/1997	SEAD-12	2	Regional	741868.4	1012547	7.5	10	11.8	9.6	A945P/A378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	741872.8	1012447	8.2	9.6	12.6	9.6	A945P/A378Q	0.00%	
10/10/1997	SEAD-12	2	Regional	741877.1	1012347	7.8	9.5	12.5	9.6	A945P/A378Q	-1.04%	
10/10/1997	SEAD-12	2	Regional	741881.5	1012247	8.5	10.5	13	9.6	A945P/A378Q	9.38%	
10/10/1997	SEAD-12	2	Regional	741885.9	1012148	7.5	10.5	12.5	9.6	A945P/A378Q	9.38%	
10/10/1997	SEAD-12	2	Regional	741890.3	1012048	7	10.3	13.2	9.6	A945P/A378Q	7.29%	
10/10/1997	SEAD-12	2	Regional	741894.6	1011948	7.8	9.4	12.2	9.6	A945P/A378Q	-2.08%	
10/10/1997	SEAD-12	2	Regional	741899	1011848	7.5	9.3	10.5	9.6	A945P/A378Q	-3.12%	
10/10/1997	SEAD-12	2	Regional	741903.4	1011748	7.2	9.4	10.8	9.6	A945P/A378Q	-2.08%	
10/10/1997	SEAD-12	2	Regional	741907.8	1011648	6.8	10.7	13	9.6	A945P/A378Q	11.46%	
10/10/1997	SEAD-12	2	Regional	741909.9	1011598	8.2	11.4	12.8	9.6	A945P/A378Q	18.75%	
10/10/1997	SEAD-12	2	Regional	741959.6	1012751	6.8	9.7	12.5	9.6	A945P/A378Q	1.04%	
10/10/1997	SEAD-12	2	Regional	741963.9	1012651	7.2	9.6	12	9.6	A945P/A378Q	0.00%	
10/10/1997	SEAD-12	2	Regional	741968.3	1012552	7.5	9.9	11.2	9.6	A945P/A378Q	3.13%	
10/10/1997	SEAD-12	2	Regional	741972.7	1012452	7.2	9.8	11.2	9.6	A945P/A378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	741977.1	1012352	7.8	9.7	11.5	9.6	A945P/A378Q	1.04%	
10/10/1997	SEAD-12	2	Regional	741981.4	1012252	7	10.8	12.5	9.6	A945P/A378Q	12.50%	
10/10/1997	SEAD-12	2	Regional	741985.8	1012152	7.5	10.4	12.2	9.6	A945P/A378Q	8.33%	
10/10/1997	SEAD-12	2	Regional	741990.2	1012052	8.2	10.3	11.5	9.6	A945P/A378Q	7.29%	
10/10/1997	SEAD-12	2	Regional	741994.6	1011952	6.8	9.7	11.2	9.6	A945P/A378Q	1.04%	
10/10/1997	SEAD-12	2	Regional	741998.9	1011852	8	9.5	10.8	9.6	A945P/A378Q	-1.04%	
10/10/1997	SEAD-12	2	Regional	742003.3	1011752	7.8	9.4	11.5	9.6	A945P/A378Q	-2.08%	
10/10/1997	SEAD-12	2	Regional	742007.7	1011652	8.2	9.8	13	9.6	A945P/A378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742009.9	1011602	8	10.3	12.5	9.6	A945P/A378Q	7.29%	
10/10/1997	SEAD-12	2	Regional	742009.5	1012754	7.8	9.5	10.2	9.5	A984P/A398Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742013.9	1012654	8	9.6	11	9.5	A984P/A398Q	1.05%	
10/10/1997	SEAD-12	2	Regional	742018.3	1012554	8.5	10.1	12.5	9.5	A984P/A398Q	6.32%	
10/10/1997	SEAD-12	2	Regional	742022.6	1012454	9	10.6	12.4	9.5	A984P/A398Q	11.58%	
10/10/1997	SEAD-12	2	Regional	742027	1012354	8.5	10.1	11.5	9.5	A984P/A398Q	6.32%	
10/10/1997	SEAD-12	2	Regional	742031.4	1012254	9	10.6	12.2	9.5	A984P/A398Q	11.58%	
10/10/1997	SEAD-12	2	Regional	742035.8	1012154	7.5	9.7	11	9.5	A984P/A398Q	2.11%	
10/10/1997	SEAD-12	2	Regional	742040.1	1012054	6	9.3	11	9.5	A984P/A398Q	-2.11%	
10/10/1997	SEAD-12	2	Regional	742044.5	1011954	9	10	11	9.5	A984P/A398Q	5.26%	
10/10/1997	SEAD-12	2	Regional	742048.9	1011854	8.5	9.6	10.4	9.5	A984P/A398Q	1.05%	
10/10/1997	SEAD-12	2	Regional	742053.3	1011754	8	9.5	11	9.5	A984P/A398Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742057.6	1011655	7.5	9.4	10	9.5	A984P/A398Q	-1.05%	
10/10/1997	SEAD-12	2	Regional	742059.8	1011605	8.5	9.5	10.5	9.5	A984P/A398Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742109.4	1012758	8	9.5	11	9.5	A984P/A398Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742113.8	1012658	8	9.8	10.5	9.5	A984P/A398Q	3.16%	
10/10/1997	SEAD-12	2	Regional	742118.1	1012558	9	10.3	12	9.5	A984P/A398Q	8.42%	
10/10/1997	SEAD-12	2	Regional	742122.5	1012458	8	10	11.5	9.5	A984P/A398Q	5.26%	
10/10/1997	SEAD-12	2	Regional	742126.9	1012358	8.5	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/10/1997	SEAD-12	2	Regional	742131.3	1012258	9.5	11	13	9.5	A984P/A398Q	15.79%	
10/10/1997	SEAD-12	2	Regional	742135.6	1012158	9	10.3	11.5	9.5	A984P/A398Q	8.42%	
10/10/1997	SEAD-12	2	Regional	742140	1012059	6	10.1	12	9.5	A984P/A398Q	6.32%	
10/10/1997	SEAD-12	2	Regional	742144.4	1011959	8.5	9.9	11.2	9.5	A984P/A398Q	4.21%	
10/10/1997	SEAD-12	2	Regional	742148.8	1011859	8.5	10	11	9.5	A984P/A398Q	5.26%	
10/10/1997	SEAD-12	2	Regional	742153.1	1011759	8	9.5	10.5	9.5	A984P/A398Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742157.5	1011659	8	9.6	10.2	9.5	A984P/A398Q	1.05%	
10/10/1997	SEAD-12	2	Regional	742159.7	1011609	8.5	9.8	10.5	9.5	A984P/A398Q	3.16%	
10/10/1997	SEAD-12	2	Regional	742059.4	1012756	7.5	9	11.8	9.6	A945P/A378Q	-6.25%	
10/10/1997	SEAD-12	2	Regional	742063.8	1012656	8.2	9.8	12	9.6	A945P/A378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742068.2	1012556	7.8	10.3	12.2	9.6	A945P/A378Q	7.29%	
10/10/1997	SEAD-12	2	Regional	742072.6	1012456	6.8	9.6	11.8	9.6	A945P/A378Q	0.00%	em - 7 390'
10/10/1997	SEAD-12	2	Regional	742076.9	1012356	7.5	10.3	12.2	9.6	A945P/A378Q	7.29%	
10/10/1997	SEAD-12	2	Regional	742081.3	1012256	7.8	10.4	12.5	9.6	A945P/A378Q	8.33%	NW CORNER AREA F @ 535'
10/10/1997	SEAD-12	2	Regional	742085.7	1012156	7.5	10	12.5	9.6	A945P/A378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	742090.1	1012056	7.2	9.6	13.5	9.6	A945P/A378Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742094.4	1011956	7.8	9.8	11.2	9.6	A945P/A378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742098.8	1011857	8	10	12	9.6	A945P/A378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	742103.2	1011757	7.8	9.5	11.8	9.6	A945P/A378Q	-1.04%	
10/10/1997	SEAD-12	2	Regional	742107.6	1011657	7.5	9.5	15	9.6	A945P/A378Q	-1.04%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/10/1997	SEAD-12	2	Regional	742109.8	1011607	7.8	10	10.8	9.6	A945P/A378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	742159.4	1012760	8	9.8	11.8	9.6	A945P/A378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742163.8	1012660	7.8	9.9	12.2	9.6	A945P/A378Q	3.13%	
10/10/1997	SEAD-12	2	Regional	742168.1	1012560	7.5	10.1	11.8	9.6	A945P/A378Q	5.21%	
10/10/1997	SEAD-12	2	Regional	742172.5	1012460	7.8	10.1	12.5	9.6	A945P/A378Q	5.21%	
10/10/1997	SEAD-12	2	Regional	742176.9	1012360	8.2	10.5	12.8	9.6	A945P/A378Q	9.38%	540'-680' EM6 (AREA F)
10/10/1997	SEAD-12	2	Regional	742181.3	1012261	8	11.6	13.5	9.6	A945P/A378Q	20.83%	
10/10/1997	SEAD-12	2	Regional	742185.6	1012161	7.8	10.9	12.8	9.6	A945P/A378Q	13.54%	
10/10/1997	SEAD-12	2	Regional	742190	1012061	6.5	10.1	11.5	9.6	A945P/A378Q	5.21%	
10/10/1997	SEAD-12	2	Regional	742194.4	1011961	8.2	10.6	12.5	9.6	A945P/A378Q	10.42%	
10/10/1997	SEAD-12	2	Regional	742198.8	1011861	8	10.8	11.8	9.6	A945P/A378Q	12.50%	
10/10/1997	SEAD-12	2	Regional	742203.1	1011761	7.2	9.5	11.2	9.6	A945P/A378Q	-1.04%	
10/10/1997	SEAD-12	2	Regional	742207.5	1011661	8.2	9.6	11.5	9.6	A945P/A378Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742209.7	1011611	7.8	10.4	11.8	9.6	A945P/A378Q	8.33%	
10/10/1997	SEAD-12	2	Regional	742209.3	1012762	8.5	9.9	10.8	9.5	A984P/A398Q	4.21%	
10/10/1997	SEAD-12	2	Regional	742213.7	1012662	8.5	9.8	10.5	9.5	A984P/A398Q	3.16%	
10/10/1997	SEAD-12	2	Regional	742218.1	1012562	8	9.7	10.5	9.5	A984P/A398Q	2.11%	
10/10/1997	SEAD-12	2	Regional	742222.4	1012463	9	10.2	11	9.5	A984P/A398Q	7.37%	
10/10/1997	SEAD-12	2	Regional	742226.8	1012363	8.5	10	11.5	9.5	A984P/A398Q	5.26%	
10/10/1997	SEAD-12	2	Regional	742231.2	1012263	10	11.6	13.5	9.5	A984P/A398Q	22.11%	
10/10/1997	SEAD-12	2	Regional	742235.6	1012163	9	10.7	12.5	9.5	A984P/A398Q	12.63%	
10/10/1997	SEAD-12	2	Regional	742239.9	1012063	5.5	10.1	12	9.5	A984P/A398Q	6.32%	RRBED
10/10/1997	SEAD-12	2	Regional	742244.3	1011963	8.5	10.5	11.5	9.5	A984P/A398Q	10.53%	
10/10/1997	SEAD-12	2	Regional	742248.7	1011863	7.5	9.9	11	9.5	A984P/A398Q	4.21%	
10/10/1997	SEAD-12	2	Regional	742253.1	1011763	8	9.6	11	9.5	A984P/A398Q	1.05%	
10/10/1997	SEAD-12	2	Regional	742257.4	1011663	7.8	9.5	10.5	9.5	A984P/A398Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742259.6	1011613	9	10.3	11.2	9.5	A984P/A398Q	8.42%	
10/10/1997	SEAD-12	2	Regional	742309.2	1012767	7.8	9.9	13	9.5	A984P/A398Q	4.21%	
10/10/1997	SEAD-12	2	Regional	742313.6	1012667	9	10.7	11.5	9.5	A984P/A398Q	12.63%	
10/10/1997	SEAD-12	2	Regional	742317.9	1012567	9	10.2	11.7	9.5	A984P/A398Q	7.37%	
10/10/1997	SEAD-12	2	Regional	742322.3	1012467	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/10/1997	SEAD-12	2	Regional	742326.7	1012367	8.5	9.9	11.2	9.5	A984P/A398Q	4.21%	
10/10/1997	SEAD-12	2	Regional	742331.1	1012267	9.5	10.9	12.5	9.5	A984P/A398Q	14.74%	
10/10/1997	SEAD-12	2	Regional	742335.4	1012167	9	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/10/1997	SEAD-12	2	Regional	742339.8	1012067	6	10	11.5	9.5	A984P/A398Q	5.26%	
10/10/1997	SEAD-12	2	Regional	742344.2	1011967	9.5	10.5	11.8	9.5	A984P/A398Q	10.53%	
10/10/1997	SEAD-12	2	Regional	742348.6	1011867	7.5	9.6	11	9.5	A984P/A398Q	1.05%	
10/10/1997	SEAD-12	2	Regional	742352.9	1011767	8	9.4	11	9.5	A984P/A398Q	-1.05%	
10/10/1997	SEAD-12	2	Regional	742357.3	1011667	8.5	9.6	10.8	9.5	A984P/A398Q	1.05%	
10/10/1997	SEAD-12	2	Regional	742359.5	1011617	9	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/10/1997	SEAD-12	2	Regional	742259.3	1012764	7.8	9.8	12	9.6	A945P/378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742263.6	1012665	8.2	9.8	11.8	9.6	A945P/378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742268	1012565	6.8	10	12.2	9.6	A945P/378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	742272.4	1012465	8	10.2	11.8	9.6	A945P/378Q	6.25%	
10/10/1997	SEAD-12	2	Regional	742276.8	1012365	7.8	9.9	12.2	9.6	A945P/378Q	3.13%	
10/10/1997	SEAD-12	2	Regional	742281.1	1012265	8	10.8	13.5	9.6	A945P/378Q	12.50%	
10/10/1997	SEAD-12	2	Regional	742285.5	1012165	7.8	10.7	14	9.6	A945P/378Q	11.46%	
10/10/1997	SEAD-12	2	Regional	742289.9	1012065	5.5	10	12.2	9.6	A945P/378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	742294.3	1011965	7.5	10.4	12	9.6	A945P/378Q	8.33%	
10/10/1997	SEAD-12	2	Regional	742298.6	1011865	6.2	9.8	12.2	9.6	A945P/378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742303	1011765	7.5	9.6	11.8	9.6	A945P/378Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742307.4	1011666	8	9.4	11.2	9.6	A945P/378Q	-2.08%	
10/10/1997	SEAD-12	2	Regional	742309.6	1011616	7.8	10.2	11	9.6	A945P/378Q	6.25%	
10/10/1997	SEAD-12	2	Regional	742359.1	1012769	6.8	10	13.2	9.6	A945P/378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	742363.5	1012669	8.2	10.1	11.5	9.6	A945P/378Q	5.21%	
10/10/1997	SEAD-12	2	Regional	742367.9	1012569	8	9.7	10.8	9.6	A945P/378Q	1.04%	
10/10/1997	SEAD-12	2	Regional	742372.3	1012469	7.8	9.6	11.8	9.6	A945P/378Q	0.00%	
10/10/1997	SEAD-12	2	Regional	742376.6	1012369	7.5	9.8	11.2	9.6	A945P/378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742381.1	1012269	8.2	10	11.2	9.6	A945P/378Q	4.17%	
10/10/1997	SEAD-12	2	Regional	742385.4	1012169	7.8	9.8	12.2	9.6	A945P/378Q	2.08%	
10/10/1997	SEAD-12	2	Regional	742389.8	1012070	5.2	9.5	12.8	9.6	A945P/378Q	-1.04%	
10/10/1997	SEAD-12	2	Regional	742394.2	1011970	8.2	10.6	11.5	9.6	A945P/378Q	10.42%	
10/10/1997	SEAD-12	2	Regional	742398.6	1011870	7.2	9.4	11.2	9.6	A945P/378Q	-2.08%	
10/10/1997	SEAD-12	2	Regional	742402.9	1011770	7.5	9.3	12.5	9.6	A945P/378Q	-3.12%	
10/10/1997	SEAD-12	2	Regional	742407.3	1011670	7.2	9.5	12	9.6	A945P/378Q	-1.04%	
10/10/1997	SEAD-12	2	Regional	742409.5	1011620	7.5	9.7	11.2	9.6	A945P/378Q	1.04%	
10/11/1997	SEAD-12	2	Regional	742382.9	1013370	7.5	9.5	10.5	9.4	A984P/A398Q	1.06%	
10/11/1997	SEAD-12	2	Regional	742387.3	1013271	8.5	10.9	13.5	9.4	A984P/A398Q	15.96%	
10/11/1997	SEAD-12	2	Regional	742391.6	1013171	10	11.6	13.2	9.4	A984P/A398Q	23.40%	
10/11/1997	SEAD-12	2	Regional	742396	1013071	10.2	11.6	13	9.4	A984P/A398Q	23.40%	
10/11/1997	SEAD-12	2	Regional	742400.4	1012971	8.5	10.4	12.5	9.4	A984P/A398Q	10.64%	
10/11/1997	SEAD-12	2	Regional	742404.8	1012871	7.5	9	11.5	9.4	A984P/A398Q	-4.26%	
10/11/1997	SEAD-12	2	Regional	742409.1	1012771	8	10.1	11.2	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742413.5	1012671	8	9.8	11.5	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742417.9	1012571	8.2	9.6	11	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742422.3	1012471	8.5	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742426.6	1012371	8	9.7	10.8	9.4	A984P/A398Q	3.19%	
10/11/1997	SEAD-12	2	Regional	742431	1012272	8	9.7	11.2	9.4	A984P/A398Q	3.19%	
10/11/1997	SEAD-12	2	Regional	742435.4	1012172	8.2	9.8	11	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742439.8	1012072	6	10.5	11.5	9.4	A984P/A398Q	11.70%	
10/11/1997	SEAD-12	2	Regional	742444.1	1011972	8.5	10.4	11.5	9.4	A984P/A398Q	10.64%	
10/11/1997	SEAD-12	2	Regional	742448.5	1011872	8	9.4	11	9.4	A984P/A398Q	0.00%	
10/11/1997	SEAD-12	2	Regional	742452.9	1011772	8.2	9.6	11.5	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742457.3	1011672	8.5	9.7	11.5	9.4	A984P/A398Q	3.19%	
10/11/1997	SEAD-12	2	Regional	742459.4	1011622	8.8	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742482.8	1013375	8	9.6	12	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742487.1	1013275	10	11.2	13	9.4	A984P/A398Q	19.15%	
10/11/1997	SEAD-12	2	Regional	742491.5	1013175	10.5	11.3	12.5	9.4	A984P/A398Q	20.21%	
10/11/1997	SEAD-12	2	Regional	742495.9	1013075	10	11.3	13.5	9.4	A984P/A398Q	20.21%	
10/11/1997	SEAD-12	2	Regional	742500.3	1012975	9	11.2	13.2	9.4	A984P/A398Q	19.15%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/11/1997	SEAD-12	2	Regional	742504.6	1012875	9.5	10.7	13	9.4	A984P/A398Q	13.83%	
10/11/1997	SEAD-12	2	Regional	742509	1012775	9	10.1	12	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742513.4	1012675	9	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742517.8	1012576	8	9.5	10.5	9.4	A984P/A398Q	1.06%	
10/11/1997	SEAD-12	2	Regional	742522.1	1012476	8	9.2	10	9.4	A984P/A398Q	-2.13%	
10/11/1997	SEAD-12	2	Regional	742526.5	1012376	8.5	9.6	12	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742530.9	1012276	8.2	9.9	12	9.4	A984P/A398Q	5.32%	
10/11/1997	SEAD-12	2	Regional	742535.3	1012176	8	10.1	11.8	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742539.6	1012076	5.5	9.8	12	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742544	1011976	9	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742548.4	1011876	8.2	9.4	10	9.4	A984P/A398Q	0.00%	
10/11/1997	SEAD-12	2	Regional	742552.8	1011776	7.5	9.3	10.5	9.4	A984P/A398Q	-1.06%	
10/11/1997	SEAD-12	2	Regional	742557.1	1011676	8.2	9.6	11	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742559.3	1011627	8.5	10.4	11.2	9.4	A984P/A398Q	10.64%	
10/11/1997	SEAD-12	2	Regional	742432.8	1013373	6.2	9.6	11	9.5	A945P/A378Q	1.05%	
10/11/1997	SEAD-12	2	Regional	742437.2	1013273	7.8	10.1	12.2	9.5	A945P/A378Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742441.6	1013173	8.2	10.6	12	9.5	A945P/A378Q	11.58%	
10/11/1997	SEAD-12	2	Regional	742445.9	1013073	8	10.8	12.5	9.5	A945P/A378Q	13.68%	
10/11/1997	SEAD-12	2	Regional	742450.3	1012973	8.5	11.1	12.8	9.5	A945P/A378Q	16.84%	
10/11/1997	SEAD-12	2	Regional	742454.7	1012873	6.8	10.3	13.2	9.5	A945P/A378Q	8.42%	
10/11/1997	SEAD-12	2	Regional	742459.1	1012773	7.2	9.8	11.2	9.5	A945P/A378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742463.4	1012673	6.8	9.7	11.5	9.5	A945P/A378Q	2.11%	
10/11/1997	SEAD-12	2	Regional	742467.8	1012573	7.5	9.3	11	9.5	A945P/A378Q	-2.11%	
10/11/1997	SEAD-12	2	Regional	742472.2	1012474	7.8	9.2	10.8	9.5	A945P/A378Q	-3.16%	
10/11/1997	SEAD-12	2	Regional	742476.6	1012374	7.5	9.8	11	9.5	A945P/A378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742480.9	1012274	7.8	9.9	10.8	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742485.3	1012174	8.2	9.9	12	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742489.7	1012074	5.8	9.6	11.8	9.5	A945P/A378Q	1.05%	
10/11/1997	SEAD-12	2	Regional	742494.1	1011974	7.8	10.2	12.2	9.5	A945P/A378Q	7.37%	
10/11/1997	SEAD-12	2	Regional	742498.4	1011874	7.5	9.5	11.5	9.5	A945P/A378Q	0.00%	
10/11/1997	SEAD-12	2	Regional	742502.8	1011774	7.8	9.6	11.2	9.5	A945P/A378Q	1.05%	
10/11/1997	SEAD-12	2	Regional	742507.2	1011674	7.2	10.1	11	9.5	A945P/A378Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742509.4	1011624	8	10.4	11.5	9.5	A945P/A378Q	9.47%	
10/11/1997	SEAD-12	2	Regional	742532.7	1013377	58.8	10.6	12.8	9.5	A945P/A378Q	11.58%	
10/11/1997	SEAD-12	2	Regional	742537.1	1013277	8.8	11.1	13	9.5	A945P/A378Q	16.84%	
10/11/1997	SEAD-12	2	Regional	742541.4	1013177	9	11.4	13.2	9.5	A945P/A378Q	20.00%	
10/11/1997	SEAD-12	2	Regional	742545.8	1013077	8.5	11.2	12.8	9.5	A945P/A378Q	17.89%	
10/11/1997	SEAD-12	2	Regional	742550.2	1012977	8	11.3	13	9.5	A945P/A378Q	18.95%	
10/11/1997	SEAD-12	2	Regional	742554.6	1012877	8.2	10.9	12.8	9.5	A945P/A378Q	14.74%	
10/11/1997	SEAD-12	2	Regional	742558.9	1012778	8	10.9	13.2	9.5	A945P/A378Q	14.74%	
10/11/1997	SEAD-12	2	Regional	742563.3	1012678	8.2	9.9	11.5	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742567.7	1012578	8	9.8	12	9.5	A945P/A378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742572.1	1012478	7.5	9.5	11.5	9.5	A945P/A378Q	0.00%	
10/11/1997	SEAD-12	2	Regional	742576.4	1012378	7.2	9.5	11.7	9.5	A945P/A378Q	0.00%	
10/11/1997	SEAD-12	2	Regional	742580.8	1012278	7.5	9.8	11.2	9.5	A945P/A378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742585.2	1012178	7.8	9.7	10.8	9.5	A945P/A378Q	2.11%	
10/11/1997	SEAD-12	2	Regional	742589.6	1012078	6.2	9.6	11.8	9.5	A945P/A378Q	1.05%	
10/11/1997	SEAD-12	2	Regional	742593.9	1011978	8	10	10.8	9.5	A945P/A378Q	5.26%	
10/11/1997	SEAD-12	2	Regional	742598.4	1011878	7.8	9.6	11.2	9.5	A945P/A378Q	1.05%	
10/11/1997	SEAD-12	2	Regional	742602.8	1011779	7.5	9.7	12.2	9.5	A945P/A378Q	2.11%	
10/11/1997	SEAD-12	2	Regional	742607.1	1011679	8	9.7	11.5	9.5	A945P/A378Q	2.11%	
10/11/1997	SEAD-12	2	Regional	742609.3	1011629	8.2	10.1	11.2	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742632.6	1013381	6.2	9.9	12	9.4	A984P/A398Q	5.32%	
10/11/1997	SEAD-12	2	Regional	742637	1013281	7.2	10.6	12.8	9.4	A984P/A398Q	12.77%	
10/11/1997	SEAD-12	2	Regional	742641.4	1013182	7.5	11.2	13	9.4	A984P/A398Q	19.15%	
10/11/1997	SEAD-12	2	Regional	742645.8	1013082	8.2	11.3	13	9.4	A984P/A398Q	20.21%	
10/11/1997	SEAD-12	2	Regional	742650.1	1012982	8.2	11.1	13	9.4	A984P/A398Q	18.09%	
10/11/1997	SEAD-12	2	Regional	742654.5	1012882	8	10.6	12.5	9.4	A984P/A398Q	12.77%	
10/11/1997	SEAD-12	2	Regional	742658.9	1012782	8.2	10.5	12.8	9.4	A984P/A398Q	11.70%	
10/11/1997	SEAD-12	2	Regional	742663.3	1012682	7	10.1	12	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742667.6	1012582	8.2	10.1	11.8	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742672	1012482	7.8	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742676.4	1012382	8	10.5	11.8	9.4	A984P/A398Q	11.70%	
10/11/1997	SEAD-12	2	Regional	742680.8	1012282	8.5	10.1	11.5	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742685.1	1012183	8.2	9.509	12	9.4	A984P/A398Q	1.16%	
10/11/1997	SEAD-12	2	Regional	742689.5	1012083	5.8	9.8	11.8	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742693.9	1011983	7.8	9.8	12.5	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742698.3	1011883	8	9.3	12.2	9.4	A984P/A398Q	-1.06%	
10/11/1997	SEAD-12	2	Regional	742702.6	1011783	6.8	9.3	10.8	9.4	A984P/A398Q	-1.06%	
10/11/1997	SEAD-12	2	Regional	742707	1011683	7.2	9.6	11	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742709.2	1011633	7.8	9.9	10.8	9.4	A984P/A398Q	5.32%	
10/11/1997	SEAD-12	2	Regional	742582.7	1013379	8	10.1	11.5	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742587.1	1013279	8.5	10.7	13	9.4	A984P/A398Q	13.83%	
10/11/1997	SEAD-12	2	Regional	742591.4	1013179	9.5	11.2	13	9.4	A984P/A398Q	19.15%	
10/11/1997	SEAD-12	2	Regional	742595.8	1013079	9.5	11.2	13	9.4	A984P/A398Q	19.15%	
10/11/1997	SEAD-12	2	Regional	742600.2	1012980	9	11.2	12.5	9.4	A984P/A398Q	19.15%	
10/11/1997	SEAD-12	2	Regional	742604.6	1012880	8.8	10.9	13	9.4	A984P/A398Q	15.96%	
10/11/1997	SEAD-12	2	Regional	742608.9	1012780	8.5	10.5	12.5	9.4	A984P/A398Q	11.70%	
10/11/1997	SEAD-12	2	Regional	742613.3	1012680	8	10	10.8	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742617.7	1012580	8.5	9.8	10.5	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742622.1	1012480	8	9.8	10.8	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742626.4	1012380	8	9.8	10.5	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742630.8	1012280	7.5	9.5	10.5	9.4	A984P/A398Q	1.06%	
10/11/1997	SEAD-12	2	Regional	742635.2	1012180	7.5	9.6	11	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742639.6	1012080	6.5	9.9	11.5	9.4	A984P/A398Q	5.32%	
10/11/1997	SEAD-12	2	Regional	742643.9	1011981	8	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742648.3	1011881	8.2	9.7	11.2	9.4	A984P/A398Q	3.19%	
10/11/1997	SEAD-12	2	Regional	742652.7	1011781	7.8	9.5	11.5	9.4	A984P/A398Q	1.06%	
10/11/1997	SEAD-12	2	Regional	742657.1	1011681	8.2	9.9	11	9.4	A984P/A398Q	5.32%	
10/11/1997	SEAD-12	2	Regional	742659.3	1011631	8.5	10.4	11	9.4	A984P/A398Q	10.64%	



Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/11/1997	SEAD-12	2	Regional	742682.6	1013384	7.5	9.7	11	9.4	A984P/A398Q	3.19%	
10/11/1997	SEAD-12	2	Regional	742686.9	1013284	8	10.2	11.5	9.4	A984P/A398Q	8.51%	
10/11/1997	SEAD-12	2	Regional	742691.3	1013184	8.5	10.1	11.5	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742695.7	1013084	9	10.9	12.5	9.4	A984P/A398Q	15.96%	
10/11/1997	SEAD-12	2	Regional	742700.1	1012984	9.5	11	13	9.4	A984P/A398Q	17.02%	
10/11/1997	SEAD-12	2	Regional	742704.4	1012884	9	10.4	12	9.4	A984P/A398Q	10.64%	
10/11/1997	SEAD-12	2	Regional	742708.8	1012784	9	10.7	12.8	9.4	A984P/A398Q	13.83%	
10/11/1997	SEAD-12	2	Regional	742713.2	1012684	8	10	12	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742717.6	1012584	9	10.1	11.2	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742721.9	1012484	8	9.6	11.5	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742726.3	1012385	8.5	10.1	12	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742730.7	1012285	8.5	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742735.1	1012185	9	10.2	12	9.4	A984P/A398Q	8.51%	
10/11/1997	SEAD-12	2	Regional	742739.4	1012085	8	10.1	12	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742743.8	1011985	9	9.8	11.5	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742748.2	1011885	8.5	9.5	10.5	9.4	A984P/A398Q	1.06%	
10/11/1997	SEAD-12	2	Regional	742752.6	1011785	8.5	9.5	11.5	9.4	A984P/A398Q	1.06%	
10/11/1997	SEAD-12	2	Regional	742756.9	1011685	8.5	9.7	11	9.4	A984P/A398Q	3.19%	
10/11/1997	SEAD-12	2	Regional	742759.1	1011635	9	9.9	11	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742732.5	1013385	6.5	9.8	12.5	9.5	A945P/A378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742736.9	1013285	8.2	9.9	12.2	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742741.3	1013186	7.8	10.3	13	9.5	A945P/A378Q	8.42%	
10/11/1997	SEAD-12	2	Regional	742745.6	1013086	8.2	10.5	11.8	9.5	A945P/A378Q	10.53%	
10/11/1997	SEAD-12	2	Regional	742750	1012986	8	11	12.2	9.5	A945P/A378Q	15.79%	
10/11/1997	SEAD-12	2	Regional	742754.4	1012886	7.8	10.6	12	9.5	A945P/A378Q	11.58%	
10/11/1997	SEAD-12	2	Regional	742758.8	1012786	8.5	10.8	12.2	9.5	A945P/A378Q	13.68%	
10/11/1997	SEAD-12	2	Regional	742763.1	1012686	8	10	12.5	9.5	A945P/A378Q	5.26%	
10/11/1997	SEAD-12	2	Regional	742767.5	1012587	8	10.1	11.5	9.5	A945P/A378Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742771.9	1012487	7.8	10.1	12.2	9.5	A945P/A378Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742776.3	1012387	7.2	9.9	12	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742780.6	1012287	7.8	9.9	10.8	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742785	1012187	7	10.3	11.2	9.5	A945P/A378Q	8.42%	
10/11/1997	SEAD-12	2	Regional	742789.4	1012087	7.5	10.1	11.8	9.5	A945P/A378Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742793.8	1011987	8.2	10	11.5	9.5	A945P/A378Q	5.26%	
10/11/1997	SEAD-12	2	Regional	742798.1	1011887	8	9.6	11.8	9.5	A945P/A378Q	1.05%	
10/11/1997	SEAD-12	2	Regional	742802.5	1011787	7.8	9.6	11.5	9.5	A945P/A378Q	1.05%	
10/11/1997	SEAD-12	2	Regional	742806.9	1011687	8	9.9	11.2	9.5	A945P/A378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742809.1	1011637	8.2	10.4	12	9.4	A945P/A378Q	10.64%	
10/11/1997	SEAD-12	2	Regional	742782.4	1013388	7.5	10	11.5	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742786.8	1013288	8.5	10.1	11.5	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742791.2	1013188	8.5	10	11	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742795.6	1013088	9	10.2	12	9.4	A984P/A398Q	8.51%	
10/11/1997	SEAD-12	2	Regional	742800	1012988	9.5	11	13	9.4	A984P/A398Q	17.02%	
10/11/1997	SEAD-12	2	Regional	742804.4	1012888	8	10.6	12	9.4	A984P/A398Q	12.77%	
10/11/1997	SEAD-12	2	Regional	742808.8	1012788	8.5	10.3	12	9.4	A984P/A398Q	9.57%	
10/11/1997	SEAD-12	2	Regional	742813.1	1012688	8	9.8	11	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742817.5	1012589	9	10.2	11.5	9.4	A984P/A398Q	8.51%	
10/11/1997	SEAD-12	2	Regional	742821.9	1012489	8.5	10.1	11.2	9.4	A984P/A398Q	7.45%	
10/11/1997	SEAD-12	2	Regional	742826.3	1012389	8	9.9	11	9.4	A984P/A398Q	5.32%	
10/11/1997	SEAD-12	2	Regional	742830.6	1012289	8.5	9.8	11.5	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742835	1012189	8	9.8	11.5	9.4	A984P/A398Q	4.26%	
10/11/1997	SEAD-12	2	Regional	742839.4	1012089	8.5	10.2	11.5	9.4	A984P/A398Q	8.51%	
10/11/1997	SEAD-12	2	Regional	742843.8	1011989	8.5	10.2	11.5	9.4	A984P/A398Q	8.51%	
10/11/1997	SEAD-12	2	Regional	742848.1	1011889	8	9.6	11.5	9.4	A984P/A398Q	2.13%	
10/11/1997	SEAD-12	2	Regional	742852.5	1011789	8	9.5	11	9.4	A984P/A398Q	1.06%	
10/11/1997	SEAD-12	2	Regional	742856.9	1011690	8	10	11.2	9.4	A984P/A398Q	6.38%	
10/11/1997	SEAD-12	2	Regional	742859.1	1011640	9	10.1	12	9.5	A984P/A398Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742832.4	1013390	6	9.8	13	9.5	A945P/378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742836.8	1013290	6.8	10.2	12.8	9.5	A945P/378Q	7.37%	
10/11/1997	SEAD-12	2	Regional	742841.2	1013190	8.2	9.9	11.5	9.5	A945P/378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742845.6	1013090	7.8	9.9	11.2	9.5	A945P/378Q	4.21%	
10/11/1997	SEAD-12	2	Regional	742849.9	1012991	7.5	10.1	12	9.5	A945P/378Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742854.3	1012891	7.2	10.6	11.5	9.5	A945P/378Q	11.58%	
10/11/1997	SEAD-12	2	Regional	742858.7	1012791	8	10.8	11.8	9.5	A945P/378Q	13.68%	
10/11/1997	SEAD-12	2	Regional	742863.1	1012691	7.8	10.3	11.5	9.5	A945P/378Q	8.42%	
10/11/1997	SEAD-12	2	Regional	742867.4	1012591	7.5	10	10.8	9.5	A945P/378Q	5.26%	
10/11/1997	SEAD-12	2	Regional	742871.8	1012491	6.8	9.8	11.2	9.5	A945P/378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742876.2	1012391	7.2	9.8	10.8	9.5	A945P/378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742880.6	1012291	7	9.7	11.2	9.5	A945P/378Q	2.11%	
10/11/1997	SEAD-12	2	Regional	742884.9	1012191	7.8	10	11	9.5	A945P/378Q	5.26%	
10/11/1997	SEAD-12	2	Regional	742889.3	1012091	6.2	10.1	12.2	9.5	A945P/378Q	6.32%	
10/11/1997	SEAD-12	2	Regional	742893.7	1011991	8.2	10.3	12	9.5	A945P/378Q	8.42%	
10/11/1997	SEAD-12	2	Regional	742898.1	1011892	7.8	9.8	11.5	9.5	A945P/378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742902.4	1011792	8	9.8	11.2	9.5	A945P/378Q	3.16%	
10/11/1997	SEAD-12	2	Regional	742906.8	1011692	7.5	9.9	11.5	9.5	A945P/378Q	4.21%	
10/12/1997	SEAD-12	2	Regional	742909	1011642	7.8	10.5	11.8	9.7	A945P/378Q	8.25%	
10/12/1997	SEAD-12	2	Regional	742882.4	1013392	7.5	9.7	11	9.7	A945P/378Q	0.00%	
10/12/1997	SEAD-12	2	Regional	742886.8	1013292	9	10.3	11.5	9.7	A945P/378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742891.1	1013193	9.5	10.5	12.5	9.7	A945P/378Q	8.25%	
10/12/1997	SEAD-12	2	Regional	742895.5	1013093	8.5	10.1	11	9.7	A945P/378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	742899.9	1012993	9	10.2	11.5	9.7	A945P/378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	742904.3	1012893	9.5	10.5	12	9.7	A945P/378Q	8.25%	
10/12/1997	SEAD-12	2	Regional	742908.6	1012793	9.5	10.5	12	9.7	A945P/378Q	8.25%	
10/12/1997	SEAD-12	2	Regional	742913	1012693	9.5	11	13	9.7	A945P/378Q	13.40%	
10/12/1997	SEAD-12	2	Regional	742917.4	1012593	9.5	10.2	12	9.7	A945P/378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	742921.8	1012493	9	10.3	12	9.7	A945P/378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742926.1	1012393	9	10.1	11.5	9.7	A945P/378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	742930.5	1012293	8.5	10.5	12	9.7	A945P/378Q	8.25%	
10/12/1997	SEAD-12	2	Regional	742934.9	1012193	8.5	10.3	12.5	9.7	A945P/378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742939.3	1012093	8	10.2	11.8	9.7	A945P/378Q	5.15%	

Appendix F  
 Class III Areas Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
						(kcpm)			(s/n)			
10/12/1997	SEAD-12	2	Regional	742943.6	1011994	9.5	10.4	11.5	9.7	A945P/378Q	7.22%	
10/12/1997	SEAD-12	2	Regional	742948	1011894	9.5	10.4	12	9.7	A945P/378Q	7.22%	
10/12/1997	SEAD-12	2	Regional	742952.4	1011794	9	10	11.5	9.7	A945P/378Q	3.09%	
10/12/1997	SEAD-12	2	Regional	742956.8	1011694	9	10	12	9.7	A945P/378Q	3.09%	
10/12/1997	SEAD-12	2	Regional	742958.9	1011644	9	10.8	12	9.6	A945P/378Q	12.50%	
10/12/1997	SEAD-12	2	Regional	742982.3	1013397	8	10.6	12	9.6	A984P/A398Q	10.42%	
10/12/1997	SEAD-12	2	Regional	742986.6	1013297	9.5	10.7	12	9.6	A984P/A398Q	11.46%	
10/12/1997	SEAD-12	2	Regional	742991	1013197	9.8	11	12	9.6	A984P/A398Q	14.58%	
10/12/1997	SEAD-12	2	Regional	742995.4	1013097	8.5	10.2	11	9.6	A984P/A398Q	6.25%	
10/12/1997	SEAD-12	2	Regional	742999.8	1012997	8.5	10.1	11	9.6	A984P/A398Q	5.21%	
10/12/1997	SEAD-12	2	Regional	743004.1	1012897	8.5	10	11.2	9.6	A984P/A398Q	4.17%	
10/12/1997	SEAD-12	2	Regional	743008.5	1012797	9	10.4	12	9.6	A984P/A398Q	8.33%	
10/12/1997	SEAD-12	2	Regional	743012.9	1012697	9.5	10.2	11.2	9.6	A984P/A398Q	6.25%	
10/12/1997	SEAD-12	2	Regional	743017.3	1012597	8.5	10	11.5	9.6	A984P/A398Q	4.17%	
10/12/1997	SEAD-12	2	Regional	743021.7	1012498	9	9.9	12	9.6	A984P/A398Q	3.13%	
10/12/1997	SEAD-12	2	Regional	743026.1	1012398	8	10.5	11	9.6	A984P/A398Q	9.38%	
10/12/1997	SEAD-12	2	Regional	743030.4	1012298	8	9.6	11	9.6	A984P/A398Q	0.00%	
10/12/1997	SEAD-12	2	Regional	743034.8	1012198	8.5	10.2	11.5	9.6	A984P/A398Q	6.25%	
10/12/1997	SEAD-12	2	Regional	743039.2	1012098	8.5	10.4	11.5	9.6	A984P/A398Q	8.33%	
10/12/1997	SEAD-12	2	Regional	743043.6	1011998	8	9.9	11	9.6	A984P/A398Q	3.13%	
10/12/1997	SEAD-12	2	Regional	743047.9	1011898	8.5	9.8	11.5	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743052.3	1011798	9	10.3	12	9.6	A984P/A398Q	7.29%	
10/12/1997	SEAD-12	2	Regional	743056.7	1011698	9	10	11.5	9.6	A984P/A398Q	4.17%	
10/12/1997	SEAD-12	2	Regional	743058.9	1011648	8.5	10.4	11.5	9.7	A984P/A398Q	7.22%	
10/12/1997	SEAD-12	2	Regional	742932.3	1013395	7.2	9.4	10.8	9.7	A945P/A378Q	-3.09%	
10/12/1997	SEAD-12	2	Regional	742936.7	1013295	8.2	9.8	11	9.7	A945P/A378Q	1.03%	
10/12/1997	SEAD-12	2	Regional	742941.1	1013195	8.5	10	11.2	9.7	A945P/A378Q	3.09%	
10/12/1997	SEAD-12	2	Regional	742945.4	1013095	8.2	9.8	12.2	9.7	A945P/A378Q	1.03%	
10/12/1997	SEAD-12	2	Regional	742949.8	1012995	7.8	9.4	11.5	9.7	A945P/A378Q	-3.09%	
10/12/1997	SEAD-12	2	Regional	742954.2	1012895	7.5	9.8	10.5	9.7	A945P/A378Q	1.03%	
10/12/1997	SEAD-12	2	Regional	742958.6	1012795	8	10.1	11	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	742962.9	1012695	7.8	10.8	11.2	9.7	A945P/A378Q	11.34%	
10/12/1997	SEAD-12	2	Regional	742967.3	1012595	8	10.3	11.8	9.7	A945P/A378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742971.7	1012495	8.2	10.3	12.2	9.7	A945P/A378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742976.1	1012395	7.5	10.3	12	9.7	A945P/A378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742980.4	1012295	7.2	10.3	11.5	9.7	A945P/A378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742984.8	1012196	7.8	10.2	11.2	9.7	A945P/A378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	742989.2	1012096	7	10.3	11	9.7	A945P/A378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	742993.6	1011996	8.2	10.4	11.5	9.7	A945P/A378Q	7.22%	
10/12/1997	SEAD-12	2	Regional	742997.9	1011896	8.5	10.2	11.2	9.7	A945P/A378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	743002.3	1011796	8	10.1	11	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743006.7	1011696	7.8	10.1	11.2	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743008.9	1011646	8.2	10.6	11.5	9.7	A945P/A378Q	9.28%	
10/12/1997	SEAD-12	2	Regional	743032.3	1013399	6.2	10.7	13.2	9.7	A945P/A378Q	10.31%	
10/12/1997	SEAD-12	2	Regional	743036.6	1013299	8.2	11.3	13.8	9.7	A945P/A378Q	16.49%	
10/12/1997	SEAD-12	2	Regional	743041	1013199	7.8	11.8	14.2	9.7	A945P/A378Q	21.65%	
10/12/1997	SEAD-12	2	Regional	743045.4	1013099	6.5	10.2	11.2	9.7	A945P/A378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	743049.8	1012999	7.8	9.9	11.5	9.7	A945P/A378Q	2.06%	
10/12/1997	SEAD-12	2	Regional	743054.1	1012899	8	9.7	11.8	9.7	A945P/A378Q	0.00%	
10/12/1997	SEAD-12	2	Regional	743058.5	1012799	7.8	9.4	10.8	9.7	A945P/A378Q	-3.09%	
10/12/1997	SEAD-12	2	Regional	743062.9	1012700	6.8	10.4	11.5	9.7	A945P/A378Q	7.22%	
10/12/1997	SEAD-12	2	Regional	743067.3	1012600	7.5	9.9	12.2	9.7	A945P/A378Q	2.06%	
10/12/1997	SEAD-12	2	Regional	743071.6	1012500	8.2	9.9	11	9.7	A945P/A378Q	2.06%	
10/12/1997	SEAD-12	2	Regional	743076	1012400	8	9.8	11.2	9.7	A945P/A378Q	1.03%	
10/12/1997	SEAD-12	2	Regional	743080.4	1012300	7.8	9.5	10.5	9.7	A945P/A378Q	-2.06%	
10/12/1997	SEAD-12	2	Regional	743084.8	1012200	8	10.1	12.8	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743089.1	1012100	7	10.4	13	9.7	A945P/A378Q	7.22%	
10/12/1997	SEAD-12	2	Regional	743093.5	1012000	7.5	10.1	12.2	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743097.9	1011900	8	10	11.8	9.7	A945P/A378Q	3.09%	
10/12/1997	SEAD-12	2	Regional	743102.3	1011800	8.2	10.1	11.2	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743106.6	1011701	7.5	9.8	11	9.7	A945P/A378Q	1.03%	
10/12/1997	SEAD-12	2	Regional	743108.8	1011651	7.8	10.4	11.8	9.6	A945P/A378Q	8.33%	
10/12/1997	SEAD-12	2	Regional	743082.2	1013401	7.5	10.4	13	9.6	A984P/A398Q	8.33%	
10/12/1997	SEAD-12	2	Regional	743086.6	1013301	9	10.3	12	9.6	A984P/A398Q	7.29%	
10/12/1997	SEAD-12	2	Regional	743090.9	1013201	10	11.3	13.2	9.6	A984P/A398Q	17.71%	
10/12/1997	SEAD-12	2	Regional	743095.3	1013101	8	9.8	11.5	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743099.7	1013001	8	9.4	11	9.6	A984P/A398Q	-2.08%	
10/12/1997	SEAD-12	2	Regional	743104.1	1012902	8	9.8	10.8	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743108.4	1012802	8	9.8	11	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743112.8	1012702	9	10.7	13.5	9.6	A984P/A398Q	11.46%	
10/12/1997	SEAD-12	2	Regional	743117.2	1012602	8.5	9.6	11.5	9.6	A984P/A398Q	0.00%	
10/12/1997	SEAD-12	2	Regional	743121.6	1012502	8	9.7	11.5	9.6	A984P/A398Q	1.04%	
10/12/1997	SEAD-12	2	Regional	743125.9	1012402	8	9.8	10.8	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743130.3	1012302	8	9.8	12	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743134.7	1012202	8.5	9.9	12	9.6	A984P/A398Q	3.13%	
10/12/1997	SEAD-12	2	Regional	743139.1	1012102	8.7	10.5	12	9.6	A984P/A398Q	9.38%	
10/12/1997	SEAD-12	2	Regional	743143.4	1012002	8	9.7	11.5	9.6	A984P/A398Q	1.04%	
10/12/1997	SEAD-12	2	Regional	743147.8	1011903	8	9.8	11.8	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743152.2	1011803	8	9.8	11.5	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743156.6	1011703	8.5	9.7	12	9.6	A984P/A398Q	1.04%	
10/12/1997	SEAD-12	2	Regional	743158.8	1011653	8.5	10.4	11.5	9.6	A984P/A398Q	8.33%	
10/12/1997	SEAD-12	2	Regional	743221.4	1012506	7.5	9.3	10.5	9.6	A984P/A398Q	-3.12%	
10/12/1997	SEAD-12	2	Regional	743225.8	1012406	8	9.4	11.5	9.6	A984P/A398Q	-2.08%	
10/12/1997	SEAD-12	2	Regional	743230.2	1012307	8.5	9.7	10.5	9.6	A984P/A398Q	1.04%	
10/12/1997	SEAD-12	2	Regional	743234.6	1012207	8.5	9.9	11.5	9.6	A984P/A398Q	3.13%	
10/12/1997	SEAD-12	2	Regional	743239	1012107	9	10.4	11.8	9.6	A984P/A398Q	8.33%	
10/12/1997	SEAD-12	2	Regional	743243.4	1012007	8.5	9.8	12.5	9.6	A984P/A398Q	2.08%	
10/12/1997	SEAD-12	2	Regional	743247.8	1011907	8	9.7	11.5	9.6	A984P/A398Q	1.04%	
10/12/1997	SEAD-12	2	Regional	743252.1	1011807	8	10	11.2	9.6	A984P/A398Q	4.17%	
10/12/1997	SEAD-12	2	Regional	743256.5	1011707	8	9.8	11	9.6	A984P/A398Q	2.08%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/12/1997	SEAD-12	2	Regional	743258.7	1011657	8	9.7	11	9.7	A984P/A398Q	0.00%	
10/12/1997	SEAD-12	2	Regional	743162.8	1012704	4.8	9.6	9.2	9.7	A945P/A378Q	-1.03%	
10/12/1997	SEAD-12	2	Regional	743167.1	1012604	8.2	9.6	10.8	9.7	A945P/A378Q	-1.03%	
10/12/1997	SEAD-12	2	Regional	743171.5	1012504	7.8	9.7	11.2	9.7	A945P/A378Q	0.00%	
10/12/1997	SEAD-12	2	Regional	743175.9	1012404	7.5	9.8	11	9.7	A945P/A378Q	1.03%	
10/12/1997	SEAD-12	2	Regional	743180.3	1012304	7.2	9.7	10.5	9.7	A945P/A378Q	0.00%	
10/12/1997	SEAD-12	2	Regional	743184.6	1012204	7.8	10.2	11	9.7	A945P/A378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	743189	1012105	8.2	10.6	11.8	9.7	A945P/A378Q	9.28%	
10/12/1997	SEAD-12	2	Regional	743193.4	1012005	8.5	10.2	12	9.7	A945P/A378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	743197.8	1011905	6.8	10.1	11.2	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743202.1	1011805	7.8	10.1	11	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743206.5	1011705	8.2	9.8	10.8	9.7	A945P/A378Q	1.03%	
10/12/1997	SEAD-12	2	Regional	743208.7	1011655	7.8	10.3	10.8	9.7	A945P/A378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	743275.8	1012409	5.2	9.4	11	9.7	A945P/A378Q	-3.09%	
10/12/1997	SEAD-12	2	Regional	743280.2	1012309	7.5	9.7	10.8	9.7	A945P/A378Q	0.00%	
10/12/1997	SEAD-12	2	Regional	743284.6	1012209	7.8	10.7	12.5	9.7	A945P/A378Q	10.31%	
10/12/1997	SEAD-12	2	Regional	743288.9	1012109	8.2	10.6	13.2	9.7	A945P/A378Q	9.28%	
10/12/1997	SEAD-12	2	Regional	743293.3	1012009	7.2	10.3	12.8	9.7	A945P/A378Q	6.19%	
10/12/1997	SEAD-12	2	Regional	743297.7	1011909	7.8	10.2	11.2	9.7	A945P/A378Q	5.15%	
10/12/1997	SEAD-12	2	Regional	743302.1	1011809	7.5	10	10.8	9.7	A945P/A378Q	3.09%	
10/12/1997	SEAD-12	2	Regional	743306.4	1011709	8	10.1	11	9.7	A945P/A378Q	4.12%	
10/12/1997	SEAD-12	2	Regional	743308.6	1011659	7.2	9.6	10.8	9.7	A945P/A378Q	-1.03%	
10/12/1997	SEAD-12	2	Regional	743384.4	1012213	6.2	7.4	7.8	9.7	A945P/A378Q	-23.71%	
PAVEMENT/OTHER AREA												
NOTE line 200E is 5' west of pavement on mostly gravel												
10/12/1997	SEAD-12	2	Regional	743388.8	1012113	6	7	8.5	9.7	A945P/A378Q	-27.84%	
10/12/1997	SEAD-12	2	Regional	743393.2	1012013	4.8	7.1	9	9.7	A945P/A378Q	-26.80%	
10/12/1997	SEAD-12	2	Regional	743397.6	1011913	5	6.9	7.5	9.7	A945P/A378Q	-28.87%	
10/12/1997	SEAD-12	2	Regional	743401.9	1011814	5.2	7.1	8	9.7	A945P/A378Q	-26.80%	
10/12/1997	SEAD-12	2	Regional	743406.3	1011714	4.5	7.2	9.8	9.7	A945P/A378Q	-25.77%	
10/12/1997	SEAD-12	2	Regional	743408.5	1011664	4.8	7.1	8.8	9.7	A945P/A378Q	-26.80%	
10/13/1997	SEAD-12	3	Regional	743070.1	1015963	6.7	9.2	10.5	9.7	A984P/A398Q	-5.15%	
10/13/1997	SEAD-12	3	Regional	743074.4	1015863	7.5	9.3	10	9.7	A984P/A398Q	-4.12%	
10/13/1997	SEAD-12	3	Regional	743078.8	1015763	6.5	8.9	9.8	9.7	A984P/A398Q	-8.25%	
10/13/1997	SEAD-12	3	Regional	743082.6	1015678	5.5	8.5	9.8	9.7	A984P/A398Q	-12.37%	
10/13/1997	SEAD-12	3	Regional	743087.6	1015563	8.7	9.3	10.2	9.7	A984P/A398Q	-4.12%	
10/13/1997	SEAD-12	3	Regional	743091.9	1015463	7.5	9.8	11.5	9.7	A984P/A398Q	1.03%	
10/13/1997	SEAD-12	3	Regional	743096.3	1015364	8	10.1	11.5	9.7	A984P/A398Q	4.12%	
10/13/1997	SEAD-12	3	Regional	743100.7	1015264	8.5	9.7	11	9.7	A984P/A398Q	0.00%	
10/13/1997	SEAD-12	3	Regional	743105.1	1015164	8	10	11.5	9.7	A984P/A398Q	3.09%	
10/13/1997	SEAD-12	3	Regional	743109.4	1015064	7	8.9	10.5	9.7	A984P/A398Q	-8.25%	
10/13/1997	SEAD-12	3	Regional	743169.9	1015967	6.5	8.3	10	9.7	A984P/A398Q	-14.43%	Road 34 4 - 34 65
10/13/1997	SEAD-12	3	Regional	743174.3	1015867	8	9.6	11	9.7	A984P/A398Q	-1.03%	
10/13/1997	SEAD-12	3	Regional	743178.7	1015768	7.5	9.5	11	9.7	A984P/A398Q	-2.06%	
10/13/1997	SEAD-12	3	Regional	743182.4	1015683	8	9.9	11	9.7	A984P/A398Q	2.06%	
10/13/1997	SEAD-12	3	Regional	743187.4	1015568	7.5	9.2	10.5	9.7	A984P/A398Q	-5.15%	
10/13/1997	SEAD-12	3	Regional	743191.9	1015468	8	9.5	10.8	9.7	A984P/A398Q	-2.06%	Asphalt 4110 ro 4060
10/13/1997	SEAD-12	3	Regional	743196.3	1015368	8	9.6	11	9.7	A984P/A398Q	-1.03%	
10/13/1997	SEAD-12	3	Regional	743200.6	1015368	8	9.5	11	9.7	A984P/A398Q	-2.06%	
10/13/1997	SEAD-12	3	Regional	743209.4	1015068	6.5	9	12	9.7	A984P/A398Q	-7.22%	BLD812@3500
10/13/1997	SEAD-12	3	Regional	743117.6	1016021	5.2	8.9	10.8	9.9	A945P/A378Q	-10.10%	Asphalt 3415 to 3475
10/13/1997	SEAD-12	3	Regional	743120	1015965	7.5	9.4	10.2	9.9	A945P/A378Q	-5.05%	
10/13/1997	SEAD-12	3	Regional	743124.4	1015865	7.2	9.5	11.2	9.9	A945P/A378Q	-4.04%	
10/13/1997	SEAD-12	3	Regional	743128.8	1015765	5	9.1	10.5	9.9	A945P/A378Q	-8.08%	
10/13/1997	SEAD-12	3	Regional	743132.5	1015680	4.8	8.7	9.5	9.9	A945P/A378Q	-12.12%	4110' - 4080' pavement
10/13/1997	SEAD-12	3	Regional	743137.5	1015566	6.2	9.6	11.2	9.9	A945P/A378Q	-3.03%	4050' - 4000' pavement
10/13/1997	SEAD-12	3	Regional	743141.9	1015466	6.5	9.6	11.8	9.9	A945P/A378Q	-3.03%	
10/13/1997	SEAD-12	3	Regional	743146.3	1015366	8	10	11.5	9.9	A945P/A378Q	1.01%	
10/13/1997	SEAD-12	3	Regional	743150.6	1015266	4.8	9.6	10.8	9.9	A945P/A378Q	-3.03%	
10/13/1997	SEAD-12	3	Regional	743155	1015166	6.8	9.3	10.8	9.9	A945P/A378Q	-6.06%	3684 - 3688 pavement
10/13/1997	SEAD-12	3	Regional	743159.4	1015066	5.2	9.4	10.5	9.9	A945P/A378Q	-5.05%	3620 - 3590 pavement mixed with gravel/grass
10/13/1997	SEAD-12	3	Regional	743216.1	1016056	5.8	8	9.8	9.9	A945P/A378Q	-19.19%	3620-3480 line along cement wet
10/13/1997	SEAD-12	3	Regional	743219.9	1015970	7.8	9.6	10.8	9.9	A945P/A378Q	-3.03%	
10/13/1997	SEAD-12	3	Regional	743224.3	1015870	8	9.6	10.5	9.9	A945P/A378Q	-3.03%	
10/13/1997	SEAD-12	3	Regional	743233.1	1015670	6.2	9.2	10.8	9.9	A945P/A378Q	-7.07%	
10/13/1997	SEAD-12	3	Regional	743237.4	1015570	7.8	9.4	10.5	9.9	A945P/A378Q	-5.05%	
10/13/1997	SEAD-12	3	Regional	743241.8	1015470	7.5	9.7	12	9.9	A945P/A378Q	-2.02%	
10/13/1997	SEAD-12	3	Regional	743246.2	1015370	7	9.5	10.2	9.9	A945P/A378Q	-4.04%	
10/13/1997	SEAD-12	3	Regional	743250.3	1015275	5.2	8.8	10	9.9	A945P/A378Q	-11.11%	
10/13/1997	SEAD-12	3	Regional	743258.9	1015080	6	10.6	12.8	9.7	A945P/A378Q	9.28%	3520-3615 Building # 812
10/13/1997	SEAD-12	3	Regional	743266.9	1016040	2.5	9	9.8	9.7	A984P/A398Q	-7.22%	3450-3475 pavement
10/13/1997	SEAD-12	3	Regional	743269.9	1015972	8.5	9.6	10.5	9.7	A984P/A398Q	-1.03%	Asphalt 4436
10/13/1997	SEAD-12	3	Regional	743274.3	1015872	8	9.3	10	9.7	A984P/A398Q	-4.12%	
10/13/1997	SEAD-12	3	Regional	743278.6	1015772	7	8.8	9.5	9.7	A984P/A398Q	-9.28%	Machine gun 4258
10/13/1997	SEAD-12	3	Regional	743297.2	1015347	7	8.6	9.5	9.7	A984P/A398Q	-11.34%	Dig 810 to 3600
10/13/1997	SEAD-12	3	Regional	743300.5	1015272	6	7.7	8.5	9.7	A984P/A398Q	-20.62%	Asphalt to 3750
10/13/1997	SEAD-12	3	Regional	743310.4	1015048	8	10.7	11.5	9.7	A984P/A398Q	10.31%	Asphalt to
10/13/1997	SEAD-12	3	Regional	743366.8	1016044	8	9.9	10	9.7	A984P/A398Q	2.06%	345
10/13/1997	SEAD-12	3	Regional	743369.8	1015976	8	9.4	10	9.7	A984P/A398Q	-3.09%	
10/13/1997	SEAD-12	3	Regional	743373.9	1015981	8	9.3	10	9.7	A984P/A398Q	-4.12%	
10/13/1997	SEAD-12	3	Regional	743382.9	1015676	7.5	9.4	11	9.7	A984P/A398Q	-3.09%	Sidewalk @ 4140
10/13/1997	SEAD-12	3	Regional	743385.9	1015606	8.9	9.7	12	9.7	A984P/A398Q	0.00%	
10/13/1997	SEAD-12	3	Regional	743316.9	1016042	7.5	9.2	11.2	9.9	A945P/A378Q	-7.07%	Bldg 8105@
10/13/1997	SEAD-12	3	Regional	743319.8	1015974	8	9.4	10.5	9.9	A945P/A378Q	-5.05%	Asphalt @ 3750
10/13/1997	SEAD-12	3	Regional	743324.2	1015874	7.8	9.4	10.2	9.9	A945P/A378Q	-5.05%	
10/13/1997	SEAD-12	3	Regional	743333.4	1015664	6.2	8.4	9.5	9.9	A945P/A378Q	-15.15%	
10/13/1997	SEAD-12	3	Regional	743347.2	1015350	7.2	8.7	10.2	9.9	A945P/A378Q	-12.12%	
10/13/1997	SEAD-12	3	Regional	743349.1	1015305	7.5	8.9	9.8	9.9	A945P/A378Q	-10.10%	
10/13/1997	SEAD-12	3	Regional	743360.3	1015050	6.2	10.6	11.5	9.9	A945P/A378Q	7.07%	
10/13/1997	SEAD-12	3	Regional	743416.7	1016048	5.2	8.8	10.5	9.9	A945P/A378Q	-11.11%	
10/13/1997	SEAD-12	3	Regional	743419.8	1015978	7.8	9.6	11.5	9.9	A945P/A378Q	-3.03%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/13/1997	SEAD-12	3	Regional	743424.1	1015878	8.2	9.9	11.2	9.9	A945P/A378Q	0.00%	
10/13/1997	SEAD-12	3	Regional	743428.5	1015779	6.5	8.7	9.2	9.9	A945P/A378Q	-12.12%	
10/13/1997	SEAD-12	3	Regional	743447.1	1015354	5.5	8.8	9.8	9.9	A945P/A378Q	-11.11%	
10/13/1997	SEAD-12	3	Regional	743450.4	1015279	6.5	8.7	9.5	9.9	A945P/A378Q	-12.12%	3750-4110 pavement & bldg 810
10/13/1997	SEAD-12	3	Regional	743454.8	1015179	6.8	9	9.2	9.9	A945P/A378Q	-9.09%	
10/13/1997	SEAD-12	3	Regional	743459.1	1015079	5.2	9.1	10.8	9.7	A945P/A378Q	-6.19%	
10/13/1997	SEAD-12	3	Regional	743466.6	1016050	6.5	8	9.5	9.7	A984P/A398Q	-17.53%	
10/13/1997	SEAD-12	3	Regional	743469.7	1015981	8	9.6	11	9.7	A984P/A398Q	-1.03%	
10/13/1997	SEAD-12	3	Regional	743474.1	1015981	8.5	10.6	13	9.7	A984P/A398Q	9.28%	
10/13/1997	SEAD-12	3	Regional	743482.8	1015681	6.5	8.7	9.5	9.7	A984P/A398Q	-10.31%	
10/13/1997	SEAD-12	3	Regional	743495.9	1015381	8	8.9	9.8	9.7	A984P/A398Q	-8.25%	
10/13/1997	SEAD-12	3	Regional	743500.3	1015281	7.5	9.1	10	9.7	A984P/A398Q	-6.19%	
10/13/1997	SEAD-12	3	Regional	743504.7	1015181	7.5	9.1	10	9.7	A984P/A398Q	-6.19%	
10/13/1997	SEAD-12	3	Regional	743509.1	1015081	8	9.9	10	9.7	A984P/A398Q	2.06%	
10/13/1997	SEAD-12	3	Regional	743566.5	1016055	6	8	9	9.7	A984P/A398Q	-17.53%	
10/13/1997	SEAD-12	3	Regional	743569.6	1015985	8	9	10	9.7	A984P/A398Q	-7.22%	
10/13/1997	SEAD-12	3	Regional	743573.9	1015885	7	9.3	10.2	9.7	A984P/A398Q	-4.12%	
10/13/1997	SEAD-12	3	Regional	743578.3	1015785	7	9.2	10	9.7	A984P/A398Q	-5.15%	
10/13/1997	SEAD-12	3	Regional	743587.1	1015685	6.5	7.8	8.8	9.7	A984P/A398Q	-19.59%	Asphalt
10/13/1997	SEAD-12	3	Regional	743591.4	1015485	6.5	7.6	8.3	9.7	A984P/A398Q	-21.65%	In grass adjacent to B 810's last line
10/13/1997	SEAD-12	3	Regional	743595.8	1015385	6	8.8	11	9.7	A984P/A398Q	-9.28%	Asphalt 3830-3855 adjacent to line
10/13/1997	SEAD-12	3	Regional	743600.2	1015286	8	9.3	10.2	9.7	A984P/A398Q	-4.12%	on asphalt from 3750
10/13/1997	SEAD-12	3	Regional	743604.6	1015186	8.4	9.4	10.5	9.7	A984P/A398Q	-3.09%	
10/13/1997	SEAD-12	3	Regional	743608.9	1015086	8.5	10	11.5	9.7	A984P/A398Q	3.09%	
10/13/1997	SEAD-12	3	Regional	743516.6	1016053	7.2	8.2	10	9.9	A945P/A378Q	-17.17%	
10/13/1997	SEAD-12	3	Regional	743519.6	1015983	7.8	9.7	11.2	9.9	A945P/A378Q	-2.02%	
10/13/1997	SEAD-12	3	Regional	743524	1015883	7.5	9.5	11.5	9.9	A945P/A378Q	-4.04%	
10/13/1997	SEAD-12	3	Regional	743528.2	1015788	5.8	9	10.2	9.9	A945P/A378Q	-9.09%	
10/13/1997	SEAD-12	3	Regional	743533.2	1015673	6	8.1	9.2	9.9	A945P/A378Q	-18.18%	4080-4110 Pavement
10/13/1997	SEAD-12	3	Regional	743535.6	1015718	4.8	8.2	9.5	9.9	A945P/A378Q	-17.17%	
10/13/1997	SEAD-12	3	Regional	743547	1015358	8	9.1	11	9.9	A945P/A378Q	-8.08%	
10/13/1997	SEAD-12	3	Regional	743550.3	1015283	7.2	9.1	10.2	9.9	A945P/A378Q	-8.08%	
10/13/1997	SEAD-12	3	Regional	743554.6	1015183	7.8	9.4	10.5	9.9	A945P/A378Q	-5.05%	
10/13/1997	SEAD-12	3	Regional	743559	1015084	8.2	9.5	11.8	9.9	A945P/A378Q	-4.04%	
10/13/1997	SEAD-12	3	Regional	743616.5	1016057	5.5	8.1	9.2	9.9	A945P/A378Q	-18.18%	
10/13/1997	SEAD-12	3	Regional	743619.6	1015987	6.2	8.6	9.8	9.9	A945P/A378Q	-13.13%	
10/13/1997	SEAD-12	3	Regional	743623.9	1015887	7.2	9.5	11	9.9	A945P/A378Q	-4.04%	
10/13/1997	SEAD-12	3	Regional	743628.3	1015787	5.2	9	12.2	9.9	A945P/A378Q	-9.09%	
10/13/1997	SEAD-12	3	Regional	743632.7	1015687	5	8.7	9.8	9.9	A945P/A378Q	-12.12%	4080-4110 Pavement
10/13/1997	SEAD-12	3	Regional	743642.8	1015458	4.8	8.2	9.8	9.9	A945P/A378Q	-17.17%	
10/13/1997	SEAD-12	3	Regional	743645.8	1015388	7.8	9.5	11.2	9.9	A945P/A378Q	-4.04%	3835-4000 Pavement
10/13/1997	SEAD-12	3	Regional	743650.2	1015288	8	9.7	10.5	9.9	A945P/A378Q	-2.02%	
10/13/1997	SEAD-12	3	Regional	743654.6	1015188	7.2	9.8	11.2	9.9	A945P/A378Q	-1.01%	
10/14/1997	SEAD-12	3	Regional	743658.9	1015088	7.8	9.8	10.8	9.6	A945P/A378Q	2.08%	
10/14/1997	SEAD-12	3	Regional	743666.4	1016059	6	8.2	9	9.6	A984P/A398Q	-14.58%	
10/14/1997	SEAD-12	3	Regional	743669.5	1015989	7.5	9.2	10.5	9.6	A984P/A398Q	-4.17%	
10/14/1997	SEAD-12	3	Regional	743673.9	1015889	7.5	9	9.8	9.6	A984P/A398Q	-6.25%	Machine Gun Bunker 4365'
10/14/1997	SEAD-12	3	Regional	743678.3	1015789	7.3	9.2	11	9.6	A984P/A398Q	-4.17%	
10/14/1997	SEAD-12	3	Regional	743683.3	1015675	7	8.7	10	9.6	A984P/A398Q	-9.38%	Asphalt Road @ 4100'
10/14/1997	SEAD-12	3	Regional	743692.9	1015455	7	8.9	11	9.6	A984P/A398Q	-7.29%	Bldg 807 & asphalt
10/14/1997	SEAD-12	3	Regional	743695.8	1015390	7	9.5	11	9.6	A984P/A398Q	-1.04%	tp 3835
10/14/1997	SEAD-12	3	Regional	743700.1	1015290	8	9.9	12	9.6	A984P/A398Q	3.13%	
10/14/1997	SEAD-12	3	Regional	743704.5	1015190	8.5	9.9	11	9.6	A984P/A398Q	3.13%	
10/14/1997	SEAD-12	3	Regional	743708.9	1015090	8.5	9.8	11.5	9.6	A984P/A398Q	2.08%	
10/14/1997	SEAD-12	3	Regional	743766.3	1016064	5.5	8.9	10	9.6	A984P/A398Q	-7.29%	
10/14/1997	SEAD-12	3	Regional	743769.4	1015994	8.8	9.9	11.5	9.6	A984P/A398Q	3.13%	
10/14/1997	SEAD-12	3	Regional	743773.8	1015894	8.5	9.5	11	9.6	A984P/A398Q	-1.04%	
10/14/1997	SEAD-12	3	Regional	743778.1	1015794	7.5	8.8	9.5	9.6	A984P/A398Q	-8.33%	
10/14/1997	SEAD-12	3	Regional	743792.4	1015469	6.5	8.9	9.8	9.6	A984P/A398Q	-7.29%	
10/14/1997	SEAD-12	3	Regional	743795.6	1015394	9	10.1	11.5	9.6	A984P/A398Q	5.21%	
10/14/1997	SEAD-12	3	Regional	743800	1015294	8.5	9.6	11	9.6	A984P/A398Q	0.00%	
10/14/1997	SEAD-12	3	Regional	743804.4	1015194	8.5	9.9	11	9.6	A984P/A398Q	3.13%	
10/14/1997	SEAD-12	3	Regional	743808.8	1015095	7.5	9.8	12.5	9.7	A984P/A398Q	1.03%	
10/14/1997	SEAD-12	3	Regional	743716.4	1016061	5.8	8.2	10.2	9.7	A945P/A378Q	-15.46%	
10/14/1997	SEAD-12	3	Regional	743719.4	1015991	7.8	9.3	12	9.7	A945P/A378Q	-4.12%	
10/14/1997	SEAD-12	3	Regional	743723.8	1015892	6.8	9.3	11.8	9.7	A945P/A378Q	-4.12%	
10/14/1997	SEAD-12	3	Regional	743728.2	1015792	5.2	8.8	10.2	9.7	A945P/A378Q	-9.28%	
10/14/1997	SEAD-12	3	Regional	743742.4	1015467	5.8	8	11.2	9.7	A945P/A378Q	-17.53%	
10/14/1997	SEAD-12	3	Regional	743745.7	1015392	8.5	10.4	12.8	9.7	A945P/A378Q	7.22%	3850-4100 pavement
10/14/1997	SEAD-12	3	Regional	743750.1	1015292	7.5	9.5	11.2	9.7	A945P/A378Q	-2.06%	
10/14/1997	SEAD-12	3	Regional	743754.4	1015192	7.8	9.9	11.5	9.7	A945P/A378Q	2.06%	
10/14/1997	SEAD-12	3	Regional	743758.8	1015092	8	9.7	11.2	9.7	A945P/A378Q	0.00%	
10/14/1997	SEAD-12	3	Regional	743816.3	1016066	5.5	9.2	10.8	9.7	A945P/A378Q	-5.15%	
10/14/1997	SEAD-12	3	Regional	743819.3	1015996	8	9.9	10.8	9.7	A945P/A378Q	2.06%	
10/14/1997	SEAD-12	3	Regional	743823.7	1015896	7.8	9.6	11	9.7	A945P/A378Q	-1.03%	
10/14/1997	SEAD-12	3	Regional	743828.1	1015796	5.5	8.9	9.7	9.7	A945P/A378Q	-8.25%	
10/14/1997	SEAD-12	3	Regional	743842	1015478	5.2	9.4	10.8	9.7	A945P/A378Q	-3.09%	
10/14/1997	SEAD-12	3	Regional	743845.6	1015396	7.5	9.9	10.5	9.7	A945P/A378Q	2.06%	3865-4100 pavement
10/14/1997	SEAD-12	3	Regional	743850	1015296	7.8	9.5	10.9	9.7	A945P/A378Q	-2.06%	
10/14/1997	SEAD-12	3	Regional	743854.4	1015197	7.5	9.8	11.5	9.7	A945P/A378Q	1.03%	
10/14/1997	SEAD-12	3	Regional	743858.8	1015097	7.8	10.1	12.5	9.6	A945P/A378Q	5.21%	
10/14/1997	SEAD-12	3	Regional	743866.3	1016068	7	8.5	10.5	9.6	A984P/A398Q	-11.46%	
10/14/1997	SEAD-12	3	Regional	743869.3	1015998	8	9.8	11	9.6	A984P/A398Q	2.08%	
10/14/1997	SEAD-12	3	Regional	743873.7	1015898	7	9.4	11.5	9.6	A984P/A398Q	-2.08%	
10/14/1997	SEAD-12	3	Regional	743878.1	1015798	6.5	9.7	11	9.6	A984P/A398Q	1.04%	
10/14/1997	SEAD-12	3	Regional	743882.4	1015698	7	9	11.5	9.6	A984P/A398Q	-6.25%	Asphalt Road 4100-4070
10/14/1997	SEAD-12	3	Regional	743891.2	1015498	8	9.3	10.2	9.6	A984P/A398Q	-3.12%	Bld #825 @ 4000
10/14/1997	SEAD-12	3	Regional	743895.6	1015399	8.5	9.9	11.5	9.6	A984P/A398Q	3.13%	Asphalt to 3880
10/14/1997	SEAD-12	3	Regional	743899.9	1015299	8	9.5	11	9.6	A984P/A398Q	-1.04%	
10/14/1997	SEAD-12	3	Regional	743904.3	1015199	8.5	10	11.5	9.6	A984P/A398Q	4.17%	



Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/-	Background	Comments
				easting	northing								
10/14/1997	SEAD-12	3	Regional	743908.7	1015099	8.5	10.1	12	9.6	A984P/A398Q	5.21%		
10/14/1997	SEAD-12	3	Regional	743966.1	1016072	7	9.5	10.5	9.6	A984P/A398Q	-1.04%		
10/14/1997	SEAD-12	3	Regional	743969.2	1016002	8	9.9	11	9.6	A984P/A398Q	3.13%		
10/14/1997	SEAD-12	3	Regional	743973.6	1015902	0.5	9.2	11.2	9.6	A984P/A398Q	-4.17%		
10/14/1997	SEAD-12	3	Regional	743977.9	1015803	7.5	9.4	11	9.6	A984P/A398Q	-2.08%		
10/14/1997	SEAD-12	3	Regional	743982.3	1015703	8	9.5	11.5	9.6	A984P/A398Q	-1.04%		
10/14/1997	SEAD-12	3	Regional	743986.7	1015603	8.5	9.6	11	9.6	A984P/A398Q	0.00%		
10/14/1997	SEAD-12	3	Regional	743991.1	1015503	8	9.8	11.5	9.6	A984P/A398Q	2.08%		
10/14/1997	SEAD-12	3	Regional	743995.4	1015403	9	9.9	12.5	9.6	A984P/A398Q	3.13%		
10/14/1997	SEAD-12	3	Regional	743999.8	1015303	8	10.1	12	9.6	A984P/A398Q	5.21%		
10/14/1997	SEAD-12	3	Regional	744004.2	1015203	8.5	10.3	12	9.6	A984P/A398Q	7.29%		
10/14/1997	SEAD-12	3	Regional	744008.6	1015103	9	10.1	12	9.6	A984P/A398Q	5.21%		
10/14/1997	SEAD-12	3	Regional	743916.2	1016070	6.2	8.5	10	9.7	A945P/A378Q	-12.37%		
10/14/1997	SEAD-12	3	Regional	743919.3	1016000	7.5	10.1	11.8	9.7	A945P/A378Q	4.12%		
10/14/1997	SEAD-12	3	Regional	743923.6	1015900	6.8	9.7	11.2	9.7	A945P/A378Q	0.00%		
10/14/1997	SEAD-12	3	Regional	743928	1015800	5.2	9.3	11.5	9.7	A945P/A378Q	-4.12%		
10/14/1997	SEAD-12	3	Regional	743932.4	1015700	5.2	9.1	12.2	9.7	A945P/A378Q	-6.19%		
10/14/1997	SEAD-12	3	Regional	743936.8	1015601	7.8	9.2	10.5	9.7	A945P/A378Q	-5.15%		4098-4068' Pavement
10/14/1997	SEAD-12	3	Regional	743941.1	1015501	7.8	9.2	10.2	9.7	A945P/A378Q	-5.15%		
10/14/1997	SEAD-12	3	Regional	743945.5	1015401	7.5	9.7	11.2	9.7	A945P/A378Q	0.00%		
10/14/1997	SEAD-12	3	Regional	743949.9	1015301	8	9.8	11	9.7	A945P/A378Q	1.03%		
10/14/1997	SEAD-12	3	Regional	743954.3	1015201	8	9.9	11.2	9.7	A945P/A378Q	2.06%		
10/14/1997	SEAD-12	3	Regional	743958.6	1015101	8.2	10	10.8	9.7	A945P/A378Q	3.09%		
10/14/1997	SEAD-12	3	Regional	744016.1	1016075	5.8	9.1	10.8	9.7	A945P/A378Q	-6.19%		
10/14/1997	SEAD-12	3	Regional	744019.1	1016005	7.8	9.6	11.5	9.7	A945P/A378Q	-1.03%		
10/14/1997	SEAD-12	3	Regional	744023.5	1015905	8.2	10.2	12	9.7	A945P/A378Q	5.15%		
10/14/1997	SEAD-12	3	Regional	744027.9	1015805	5.2	9.6	11	9.7	A945P/A378Q	-1.03%		
10/14/1997	SEAD-12	3	Regional	744032.3	1015705	5.5	9.4	10.5	9.7	A945P/A378Q	-3.09%		
10/14/1997	SEAD-12	3	Regional	744036.6	1015605	7.5	9.4	10.8	9.7	A945P/A378Q	-3.09%		
10/14/1997	SEAD-12	3	Regional	744041	1015505	8.2	9.7	11.2	9.7	A945P/A378Q	0.00%		
10/14/1997	SEAD-12	3	Regional	744045.4	1015405	7.8	9.6	10.8	9.7	A945P/A378Q	-1.03%		
10/14/1997	SEAD-12	3	Regional	744049.8	1015305	7.5	10	10.8	9.7	A945P/A378Q	3.09%		
10/14/1997	SEAD-12	3	Regional	744054.2	1015205	8.2	10.2	11.5	9.7	A945P/A378Q	5.15%		
10/14/1997	SEAD-12	3	Regional	744058.6	1015105	8.5	9.9	12	9.7	A945P/A378Q	2.06%		
10/14/1997	SEAD-12	3	Regional	743966.1	1016072	7	9.4	10.5	9.7	A945P/A378Q	-3.09%		
10/14/1997	SEAD-12	3	Regional	743969.2	1016002	8.5	9.7	11.5	9.7	A945P/A378Q	0.00%		
10/14/1997	SEAD-12	3	Regional	743973.6	1015902	8.8	9.8	12	9.7	A945P/A378Q	1.03%		
10/14/1997	SEAD-12	3	Regional	743977.9	1015803	9	10	12	9.7	A945P/A378Q	3.09%		
10/14/1997	SEAD-12	3	Regional	743982.3	1015703	6.5	8.5	10.5	9.7	A945P/A378Q	-12.37%		
10/14/1997	SEAD-12	3	Regional	743986.7	1015603	8.5	9.4	11	9.7	A945P/A378Q	-3.09%		Asphalt @4050 to 4020
10/14/1997	SEAD-12	3	Regional	743991.1	1015503	8	9.4	11	9.7	A945P/A378Q	-3.09%		
10/14/1997	SEAD-12	3	Regional	743995.4	1015403	7.5	9	9.8	9.7	A945P/A378Q	-7.22%		
10/14/1997	SEAD-12	3	Regional	743999.8	1015303	8	9.8	13.5	9.7	A945P/A378Q	1.03%		
10/14/1997	SEAD-12	3	Regional	744004.2	1015203	8.5	9.9	11.5	9.7	A945P/A378Q	2.06%		High 13500 in "J" area stream
10/14/1997	SEAD-12	3	Regional	744008.6	1015103	8	9.9	11.5	9.7	A945P/A378Q	2.06%		
10/14/1997	SEAD-12	3	Regional	744066.1	1016077	6.5	9.2	10	9.7	A945P/A378Q	-5.15%		
10/14/1997	SEAD-12	3	Regional	744069.1	1016007	8.5	9.4	11	9.7	A945P/A378Q	-3.09%		
10/14/1997	SEAD-12	3	Regional	744073.5	1015907	7.5	9.3	10.5	9.7	A945P/A378Q	-4.12%		
10/14/1997	SEAD-12	3	Regional	744077.9	1015807	8	9.2	10.2	9.7	A945P/A378Q	-5.15%		
10/14/1997	SEAD-12	3	Regional	744082.3	1015707	8	9.1	10.5	9.7	A945P/A378Q	-6.19%		
10/14/1997	SEAD-12	3	Regional	744086.6	1015607	6	8.7	9.8	9.7	A945P/A378Q	-10.31%		
10/14/1997	SEAD-12	3	Regional	744091	1015507	8.5	9.3	11	9.7	A945P/A378Q	-4.12%		3945' Asphalt to 3985
10/14/1997	SEAD-12	3	Regional	744095.4	1015407	8	9.5	11	9.7	A945P/A378Q	-2.06%		
10/14/1997	SEAD-12	3	Regional	744099.8	1015307	9	10	13	9.7	A945P/A378Q	3.09%		
10/14/1997	SEAD-12	3	Regional	744104.1	1015208	9	10.2	12	9.7	A945P/A378Q	5.15%		High in "J" stream
10/14/1997	SEAD-12	3	Regional	744108.5	1015108	8.5	9.8	11.5	9.6	A945P/A378Q	2.08%		
10/14/1997	SEAD-12	3	Regional	744116	1016079	7.2	8.6	10.5	9.6	A984P/A398Q	-10.42%		
10/14/1997	SEAD-12	3	Regional	744119.1	1016009	8	10.4	12.2	9.6	A984P/A398Q	8.33%		
10/14/1997	SEAD-12	3	Regional	744123.4	1015909	6.8	9.2	10.2	9.6	A984P/A398Q	-4.17%		
10/14/1997	SEAD-12	3	Regional	744127.8	1015809	7.5	9.2	10.5	9.6	A984P/A398Q	-4.17%		
10/14/1997	SEAD-12	3	Regional	744132.2	1015709	5.5	9	10.2	9.6	A984P/A398Q	-6.25%		
10/14/1997	SEAD-12	3	Regional	744136.6	1015609	5.8	8.9	11	9.6	A984P/A398Q	-7.29%		
10/14/1997	SEAD-12	3	Regional	744140.9	1015509	7.5	9.4	10.8	9.6	A984P/A398Q	-2.08%		
10/14/1997	SEAD-12	3	Regional	744145.3	1015410	8.2	9.2	11	9.6	A984P/A398Q	-4.17%		
10/14/1997	SEAD-12	3	Regional	744149.7	1015310	7.8	9.7	11.8	9.6	A984P/A398Q	1.04%		
10/14/1997	SEAD-12	3	Regional	744154.1	1015210	8.5	10.1	10.8	9.6	A984P/A398Q	5.21%		
10/14/1997	SEAD-12	3	Regional	744158.4	1015110	7.8	9.8	11.2	9.6	A984P/A398Q	2.08%		
10/14/1997	SEAD-12	3	Regional	744165.9	1016081	7.2	8.6	10.5	9.6	A984P/A398Q	-10.42%		
10/14/1997	SEAD-12	3	Regional	744169	1016011	8	10.4	12.2	9.6	A984P/A398Q	8.33%		
10/14/1997	SEAD-12	3	Regional	744173.4	1015911	6.8	9.2	10.2	9.6	A984P/A398Q	-4.17%		
10/14/1997	SEAD-12	3	Regional	744177.8	1015811	7.5	9.2	10.5	9.6	A984P/A398Q	-4.17%		
10/14/1997	SEAD-12	3	Regional	744182.1	1015711	5.5	9	10.2	9.6	A984P/A398Q	-6.25%		
10/14/1997	SEAD-12	3	Regional	744186.5	1015612	5.8	8.9	11	9.6	A984P/A398Q	-7.29%		4020-3985' Pavement
10/14/1997	SEAD-12	3	Regional	744190.9	1015512	7.5	9.4	10.8	9.6	A984P/A398Q	-2.08%		
10/14/1997	SEAD-12	3	Regional	744195.3	1015412	8.2	9.2	11	9.6	A984P/A398Q	-4.17%		
10/14/1997	SEAD-12	3	Regional	744199.6	1015312	7.8	9.7	11.8	9.6	A984P/A398Q	1.04%		
10/14/1997	SEAD-12	3	Regional	744204	1015212	8.5	10.1	10.8	9.6	A984P/A398Q	5.21%		
10/14/1997	SEAD-12	3	Regional	744208.4	1015112	7.8	9.8	11.2	9.6	A984P/A398Q	2.08%		
10/14/1997	SEAD-12	3	Regional	744215.9	1016083	5.2	9	10.2	9.6	A984P/A398Q	-6.25%		
10/14/1997	SEAD-12	3	Regional	744218.9	1016013	7.8	9.5	10.5	9.6	A984P/A398Q	-1.04%		
10/14/1997	SEAD-12	3	Regional	744223.3	1015913	8	9.4	11	9.6	A984P/A398Q	-2.08%		
10/14/1997	SEAD-12	3	Regional	744227.7	1015813	6.8	9.4	10.2	9.6	A984P/A398Q	-2.08%		
10/14/1997	SEAD-12	3	Regional	744232.1	1015713	7.5	9	10.5	9.6	A984P/A398Q	-6.25%		
10/14/1997	SEAD-12	3	Regional	744236.4	1015613	4.8	9.1	10.8	9.6	A984P/A398Q	-5.21%		
10/14/1997	SEAD-12	3	Regional	744240.8	1015513	5	9.3	10.2	9.6	A984P/A398Q	-3.12%		
10/14/1997	SEAD-12	3	Regional	744245.2	1015413	7.2	9.3	10	9.6	A984P/A398Q	-3.12%		3887-3932 pavement
10/14/1997	SEAD-12	3	Regional	744249.6	1015313	8.8	9.4	11	9.6	A984P/A398Q	-2.08%		
10/14/1997	SEAD-12	3	Regional	744253.9	1015213	8.2	10.1	10.8	9.6	A984P/A398Q	5.21%		
10/15/1997	SEAD-12	3	Regional	744258.3	1015113	7.8	9.8	11.2	9.6	A984P/A398Q	2.08%		
10/15/1997	SEAD-12	3	Regional	744265.9	1016085	6.5	9.1	10	9.6	A984P/A398Q	-5.21%		

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/15/1997	SEAD-12	3	Regional	744268.9	1016016	8	9.6	11	9.6	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744273.3	1015916	8.5	9.4	11.2	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744277.7	1015816	8	9.6	11	9.6	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744282.1	1015716	8	9.4	10.8	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744286.4	1015616	7.8	9.3	10	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744290.8	1015516	6	8.3	10	9.6	A984P/A398Q	-13.54%	
10/15/1997	SEAD-12	3	Regional	744315.8	1016088	5.2	8.9	10.2	9.7	A945P/A378Q	-8.25%	Pavement
10/15/1997	SEAD-12	3	Regional	744318.9	1016018	7.5	9.3	11.5	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744323.3	1015918	7.8	9.3	11.2	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744327.6	1015818	7.2	9.4	10.8	9.7	A945P/A378Q	-3.09%	
10/15/1997	SEAD-12	3	Regional	744332	1015718	6.8	9.3	10.5	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744336.4	1015618	7	9.3	11	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744340.8	1015518	7.5	9.3	10.5	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744345.1	1015418	7.8	9.3	10.2	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744349.5	1015318	7.2	9.7	11	9.7	A945P/A378Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744353.9	1015218	9.8	9.2	10.5	9.7	A945P/A378Q	-5.15%	
10/15/1997	SEAD-12	3	Regional	744358.3	1015119	7.8	9.6	11.5	9.6	A945P/A378Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744365.8	1016090	6.5	8.9	10	9.6	A984P/A398Q	-7.29%	
10/15/1997	SEAD-12	3	Regional	744368.8	1016020	7	8.9	9.8	9.6	A984P/A398Q	-7.29%	
10/15/1997	SEAD-12	3	Regional	744373.2	1015920	8.5	9.6	10.5	9.6	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744377.6	1015820	8	9.5	10.8	9.6	A984P/A398Q	-1.04%	
10/15/1997	SEAD-12	3	Regional	744381.9	1015720	8.5	9.3	11.2	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744386.3	1015620	8.5	9.6	11	9.6	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744390.7	1015520	7.5	9.1	10.5	9.6	A984P/A398Q	-5.21%	
10/15/1997	SEAD-12	3	Regional	744395.1	1015420	7.8	9.2	10	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744399.4	1015321	8	9.4	10.5	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744403.8	1015221	8	9.6	11	9.6	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744408.2	1015121	8.5	9.7	11	9.7	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744415.7	1016092	5.5	8.5	10	9.7	A945P/A378Q	-12.37%	
10/15/1997	SEAD-12	3	Regional	744418.8	1016022	7.8	9.2	11.2	9.7	A945P/A378Q	-5.15%	
10/15/1997	SEAD-12	3	Regional	744423.1	1015922	7.2	9.3	10.2	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744427.5	1015822	7.5	9.6	11.5	9.7	A945P/A378Q	-1.03%	
10/15/1997	SEAD-12	3	Regional	744431.9	1015722	7.2	9.3	10.2	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744436.3	1015622	7.8	9.4	11	9.7	A945P/A378Q	-3.09%	
10/15/1997	SEAD-12	3	Regional	744440.6	1015523	7	9.2	10.2	9.7	A945P/A378Q	-5.15%	
10/15/1997	SEAD-12	3	Regional	744445	1015423	8	9.2	10.5	9.7	A945P/A378Q	-5.15%	
10/15/1997	SEAD-12	3	Regional	744449.4	1015323	7.5	9.5	11	9.7	A945P/A378Q	-2.06%	
10/15/1997	SEAD-12	3	Regional	744453.8	1015223	7	9.5	10.8	9.7	A945P/A378Q	-2.06%	
10/15/1997	SEAD-12	3	Regional	744458.1	1015123	7.8	9.5	10.2	9.6	A945P/A378Q	-1.04%	
10/15/1997	SEAD-12	3	Regional	744465.6	1016094	6.5	8.2	10	9.6	A984P/A398Q	-14.58%	
10/15/1997	SEAD-12	3	Regional	744468.8	1016024	8.5	9.6	10.5	9.6	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744473.1	1015924	7.5	9.3	10.5	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744477.5	1015824	8	9.5	10.5	9.6	A984P/A398Q	-1.04%	
10/15/1997	SEAD-12	3	Regional	744481.9	1015725	8	9.3	10	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744486.3	1015625	8	9.2	10	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744490.6	1015525	8	9.2	9.8	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744495	1015425	8.5	9.4	10.5	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744499.4	1015325	7.5	9.1	10	9.6	A984P/A398Q	-5.21%	
10/15/1997	SEAD-12	3	Regional	744503.8	1015225	8	9.4	10.2	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744508.1	1015125	8.5	9.7	10.5	9.7	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744515.6	1016096	5.8	8.8	10.2	9.7	A945P/A378Q	-9.28%	
10/15/1997	SEAD-12	3	Regional	744518.7	1016026	6.8	9.7	11	9.7	A945P/A378Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744523.1	1015927	8	9.5	10.8	9.7	A945P/A378Q	-2.06%	
10/15/1997	SEAD-12	3	Regional	744527.4	1015827	7.8	9.5	10.8	9.7	A945P/A378Q	-2.06%	
10/15/1997	SEAD-12	3	Regional	744531.8	1015727	6.8	9.3	10.2	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744536.2	1015627	7.5	9.2	10.8	9.7	A945P/A378Q	-5.15%	
10/15/1997	SEAD-12	3	Regional	744540.6	1015527	7.8	9.3	10.8	9.7	A945P/A378Q	-4.12%	
10/15/1997	SEAD-12	3	Regional	744544.9	1015427	8	9.4	11	9.7	A945P/A378Q	-3.09%	
10/15/1997	SEAD-12	3	Regional	744549.3	1015327	7.8	9.2	10	9.7	A945P/A378Q	-5.15%	
10/15/1997	SEAD-12	3	Regional	744553.7	1015227	8	9.4	10.8	9.7	A945P/A378Q	-3.09%	
10/15/1997	SEAD-12	3	Regional	744558.1	1015127	7.5	9.4	10.5	9.6	A945P/A378Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744565.6	1016099	8	9.1	10	9.6	A984P/A398Q	-5.21%	
10/15/1997	SEAD-12	3	Regional	744568.6	1016029	6	8.2	10	9.6	A984P/A398Q	-14.58%	
10/15/1997	SEAD-12	3	Regional	744573	1015929	8	9.9	11.5	9.6	A984P/A398Q	3.13%	
10/15/1997	SEAD-12	3	Regional	744577.4	1015829	8.5	9.5	10.5	9.6	A984P/A398Q	-1.04%	
10/15/1997	SEAD-12	3	Regional	744581.8	1015729	8	9.2	10	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744586.1	1015629	8	9.2	10	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744590.5	1015529	8.5	9.2	10.5	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744594.9	1015429	8.5	9.2	11.5	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744599.3	1015329	8	9.4	10.5	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744603.6	1015229	8	9.4	10	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744608	1015130	8	9.3	10	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744615.5	1016101	4.5	8.3	10.5	9.6	A945P/A378Q	-13.54%	
10/15/1997	SEAD-12	3	Regional	744618.6	1016031	5.5	8.1	9.5	9.6	A945P/A378Q	-15.63%	
10/15/1997	SEAD-12	3	Regional	744622.9	1015931	6.8	9.7	10.5	9.6	A945P/A378Q	1.04%	
10/15/1997	SEAD-12	3	Regional	744627.3	1015831	7.8	9.8	10.8	9.6	A945P/A378Q	2.08%	
10/15/1997	SEAD-12	3	Regional	744631.7	1015731	8	9.4	12	9.6	A945P/A378Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744636.1	1015631	7.8	9.3	10.5	9.6	A945P/A378Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744640.4	1015531	7.5	9.1	10.2	9.6	A945P/A378Q	-5.21%	
10/15/1997	SEAD-12	3	Regional	744644.8	1015431	7.8	9.5	10.8	9.6	A945P/A378Q	-1.04%	
10/15/1997	SEAD-12	3	Regional	744649.2	1015332	8	9.6	10.2	9.6	A945P/A378Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744653.6	1015232	8	9.3	10.5	9.6	A945P/A378Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744657.9	1015132	7.8	9.4	10.2	9.6	A945P/A378Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744665.4	1016103	6	9.4	10.5	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744668.5	1016033	7	9.6	11.5	9.6	A984P/A398Q	0.00%	
10/15/1997	SEAD-12	3	Regional	744672.9	1015933	7	8.9	10	9.6	A984P/A398Q	-7.29%	
10/15/1997	SEAD-12	3	Regional	744677.3	1015833	7	9.2	10	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744681.6	1015733	8	9.4	10	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744686	1015633	8	9.2	10.2	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744690.4	1015534	7.5	9	10	9.6	A984P/A398Q	-6.25%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/15/1997	SEAD-12	3	Regional	744694.8	1015434	7.5	9.2	10.2	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744699.2	1015334	8	9.3	10.5	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744703.6	1015234	7.8	9.4	10.5	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744707.9	1015134	7.5	9.4	10.2	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744765.4	1016107	6.5	9.3	10.5	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744768.4	1016037	8	9.8	11	9.6	A984P/A398Q	2.08%	
10/15/1997	SEAD-12	3	Regional	744772.8	1015937	6	8.1	9.4	9.6	A984P/A398Q	-15.63%	
10/15/1997	SEAD-12	3	Regional	744777.2	1015838	6	8	9	9.6	A984P/A398Q	-16.67%	
10/15/1997	SEAD-12	3	Regional	744781.6	1015738	6.5	8.3	9	9.6	A984P/A398Q	-13.54%	
10/15/1997	SEAD-12	3	Regional	744785.9	1015638	6.8	8.1	9	9.6	A984P/A398Q	-15.63%	
10/15/1997	SEAD-12	3	Regional	744790.3	1015538	7	8.5	9.5	9.6	A984P/A398Q	-11.46%	
10/15/1997	SEAD-12	3	Regional	744794.7	1015438	7	8.6	10	9.6	A984P/A398Q	-10.42%	
10/15/1997	SEAD-12	3	Regional	744799.1	1015338	8	9.3	10.2	9.6	A984P/A398Q	-3.12%	
10/15/1997	SEAD-12	3	Regional	744803.4	1015238	8	9.4	11	9.6	A984P/A398Q	-2.08%	
10/15/1997	SEAD-12	3	Regional	744807.8	1015138	7.5	9.2	10.2	9.6	A984P/A398Q	-4.17%	
10/15/1997	SEAD-12	3	Regional	744715.4	1016105	5.2	8.9	10.2	9.6	<b>A945P/A378Q</b>	-7.29%	
10/15/1997	SEAD-12	3	Regional	744718.5	1016035	7	9.8	11	9.6	<b>A945P/A378Q</b>	2.08%	
10/15/1997	SEAD-12	3	Regional	744722.9	1015935	5.2	8.4	9.5	9.6	<b>A945P/A378Q</b>	-12.50%	
10/15/1997	SEAD-12	3	Regional	744727.3	1015835	6.8	8	9.8	9.6	<b>A945P/A378Q</b>	-16.67%	
10/15/1997	SEAD-12	3	Regional	744731.6	1015735	7.2	8.7	11	9.6	<b>A945P/A378Q</b>	-9.38%	
10/15/1997	SEAD-12	3	Regional	744736	1015636	5.8	8.8	10	9.6	<b>A945P/A378Q</b>	-8.33%	
10/15/1997	SEAD-12	3	Regional	744740.4	1015536	6.5	8.2	9.8	9.6	<b>A945P/A378Q</b>	-14.58%	
10/15/1997	SEAD-12	3	Regional	744744.8	1015436	6.8	9	10.2	9.6	<b>A945P/A378Q</b>	-6.25%	
10/15/1997	SEAD-12	3	Regional	744749.1	1015336	7.2	9.3	10	9.6	<b>A945P/A378Q</b>	-3.12%	
10/15/1997	SEAD-12	3	Regional	744753.5	1015236	7	9.4	10.5	9.6	<b>A945P/A378Q</b>	-2.08%	
10/15/1997	SEAD-12	3	Regional	744757.9	1015136	6.5	8.9	10.5	9.6	<b>A945P/A378Q</b>	-7.29%	
10/15/1997	SEAD-12	3	Regional	744815.3	1016110	5.8	8.9	10.5	9.6	<b>A945P/A378Q</b>	-7.29%	
10/15/1997	SEAD-12	3	Regional	744818.4	1016040	7.8	9.7	11.8	9.6	<b>A945P/A378Q</b>	1.04%	
10/15/1997	SEAD-12	3	Regional	744822.8	1015940	8	10	12.2	9.6	<b>A945P/A378Q</b>	4.17%	
10/15/1997	SEAD-12	3	Regional	744827.1	1015840	8	10	11.8	9.6	<b>A945P/A378Q</b>	4.17%	
10/15/1997	SEAD-12	3	Regional	744831.5	1015740	7.2	9.4	11.5	9.6	<b>A945P/A378Q</b>	-2.08%	
10/15/1997	SEAD-12	3	Regional	744835.9	1015640	6.8	9.8	11.5	9.6	<b>A945P/A378Q</b>	2.08%	
10/15/1997	SEAD-12	3	Regional	744840.3	1015540	8	9.9	11	9.6	<b>A945P/A378Q</b>	3.13%	
10/15/1997	SEAD-12	3	Regional	744844.6	1015440	7.8	9.7	10.8	9.6	<b>A945P/A378Q</b>	1.04%	
10/15/1997	SEAD-12	3	Regional	744849	1015340	7	9.2	10.5	9.6	<b>A945P/A378Q</b>	-4.17%	
10/15/1997	SEAD-12	3	Regional	744853.4	1015240	6.8	9.3	10	9.6	<b>A945P/A378Q</b>	-3.12%	
10/15/1997	SEAD-12	3	Regional	744857.8	1015140	7.2	8.9	9.8	9.6	<b>A945P/A378Q</b>	-7.29%	
10/21/1997	SEAD-12	3	Regional	744865.3	1016112	6	8.5	9.5	9.5	A984P/A398Q	-10.53%	
10/21/1997	SEAD-12	3	Regional	744868.3	1016042	8	9.3	10.5	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	744872.7	1015942	8	9.5	11	9.5	A984P/A398Q	0.00%	
10/21/1997	SEAD-12	3	Regional	744877.1	1015842	8	9.4	11.2	9.5	A984P/A398Q	-1.05%	
10/21/1997	SEAD-12	3	Regional	744881.4	1015742	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	744885.8	1015642	8	9.3	11	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	744890.2	1015542	8.5	9.6	11	9.5	A984P/A398Q	1.05%	
10/21/1997	SEAD-12	3	Regional	744894.6	1015442	8.5	9.4	11	9.5	A984P/A398Q	-1.05%	
10/21/1997	SEAD-12	3	Regional	744898.9	1015342	8	9.3	10.5	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	744903.3	1015242	8	9.3	11	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	744907.8	1015142	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/21/1997	SEAD-12	3	Regional	744965.2	1016116	6.5	9.1	10.5	9.5	A984P/A398Q	-4.21%	
10/21/1997	SEAD-12	3	Regional	744968.3	1016046	8	9	11	9.5	A984P/A398Q	-5.26%	
10/21/1997	SEAD-12	3	Regional	744972.6	1015946	8	9.2	11	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	744977	1015846	8	9.3	11.5	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	744981.4	1015746	8.5	9.3	11.5	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	744985.8	1015646	8	8.9	10.5	9.5	A984P/A398Q	-6.32%	
10/21/1997	SEAD-12	3	Regional	744990.1	1015546	7.8	9.1	11	9.5	A984P/A398Q	-4.21%	
10/21/1997	SEAD-12	3	Regional	744994.5	1015446	8	9	11	9.5	A984P/A398Q	-5.26%	
10/21/1997	SEAD-12	3	Regional	744998.9	1015346	8	8.9	10.5	9.5	A984P/A398Q	-6.32%	
10/21/1997	SEAD-12	3	Regional	745003.3	1015246	8	8.9	10.5	9.5	A984P/A398Q	-6.32%	
10/21/1997	SEAD-12	3	Regional	745007.6	1015146	8	8.9	10.5	9.5	A984P/A398Q	-6.32%	
10/21/1997	SEAD-12	3	Regional	744915.3	1016114	7.2	8.5	10	9.5	<b>A945P/A378Q</b>	-10.53%	
10/21/1997	SEAD-12	3	Regional	744918.3	1016044	7.8	9.4	11.2	9.5	<b>A945P/A378Q</b>	-1.05%	
10/21/1997	SEAD-12	3	Regional	744922.7	1015944	7.5	9.5	10.8	9.5	<b>A945P/A378Q</b>	0.00%	
10/21/1997	SEAD-12	3	Regional	744927.1	1015844	8.2	9.5	12.5	9.5	<b>A945P/A378Q</b>	0.00%	
10/21/1997	SEAD-12	3	Regional	744931.4	1015744	7.8	9.5	11.2	9.5	<b>A945P/A378Q</b>	0.00%	
10/21/1997	SEAD-12	3	Regional	744935.8	1015644	6.8	9.2	10.5	9.5	<b>A945P/A378Q</b>	-3.16%	
10/21/1997	SEAD-12	3	Regional	744940.2	1015544	7.2	9	10.2	9.5	<b>A945P/A378Q</b>	-5.26%	
10/21/1997	SEAD-12	3	Regional	744944.6	1015444	6.5	8.9	10.2	9.5	<b>A945P/A378Q</b>	-6.32%	
10/21/1997	SEAD-12	3	Regional	744948.9	1015344	7.5	8.9	10.2	9.5	<b>A945P/A378Q</b>	-6.32%	
10/21/1997	SEAD-12	3	Regional	744953.3	1015244	6.8	9	10.5	9.5	<b>A945P/A378Q</b>	-5.26%	
10/21/1997	SEAD-12	3	Regional	744957.7	1015144	7.2	9.1	11	9.5	<b>A945P/A378Q</b>	-4.21%	
10/21/1997	SEAD-12	3	Regional	745015.1	1016118	5	8.9	10.5	9.5	<b>A945P/A378Q</b>	-6.32%	
10/21/1997	SEAD-12	3	Regional	745018.2	1016048	7.5	9.3	10.2	9.5	<b>A945P/A378Q</b>	-2.11%	
10/21/1997	SEAD-12	3	Regional	745022.6	1015948	7	9.3	10	9.5	<b>A945P/A378Q</b>	-2.11%	
10/21/1997	SEAD-12	3	Regional	745026.9	1015848	7.5	9.3	10.2	9.5	<b>A945P/A378Q</b>	-2.11%	
10/21/1997	SEAD-12	3	Regional	745031.3	1015748	6.8	9.1	10	9.5	<b>A945P/A378Q</b>	-4.21%	
10/21/1997	SEAD-12	3	Regional	745035.7	1015648	7	9.1	10.5	9.5	<b>A945P/A378Q</b>	-4.21%	
10/21/1997	SEAD-12	3	Regional	745040.1	1015548	6.5	9.3	10.8	9.5	<b>A945P/A378Q</b>	-2.11%	
10/21/1997	SEAD-12	3	Regional	745044.4	1015448	6.8	9.1	11	9.5	<b>A945P/A378Q</b>	-4.21%	
10/21/1997	SEAD-12	3	Regional	745048.8	1015348	7.2	9	10.5	9.5	<b>A945P/A378Q</b>	-5.26%	
10/21/1997	SEAD-12	3	Regional	745053.2	1015248	7.5	8.9	10.8	9.5	<b>A945P/A378Q</b>	-6.32%	
10/21/1997	SEAD-12	3	Regional	745057.6	1015148	6.8	9.1	11.5	9.5	<b>A945P/A378Q</b>	-4.21%	
10/21/1997	SEAD-12	3	Regional	745068.1	1016051	7	9.1	11	9.5	A984P/A398Q	-4.21%	
10/21/1997	SEAD-12	3	Regional	745072.5	1015951	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	745076.9	1015851	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	745081.3	1015751	8.5	9.2	11	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	745085.6	1015651	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	745090	1015551	8.5	9.1	10.5	9.5	A984P/A398Q	-4.21%	
10/21/1997	SEAD-12	3	Regional	745094.4	1015451	7.5	9	10.5	9.5	A984P/A398Q	-5.26%	
10/21/1997	SEAD-12	3	Regional	745098.8	1015351	7.5	9	10.5	9.5	A984P/A398Q	-5.26%	
10/21/1997	SEAD-12	3	Regional	745103.1	1015251	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Gnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/21/1997	SEAD-12	3	Regional	745107.5	1015151	8	8.8	10	9.5	A984P/A398Q	-7.37%	
10/21/1997	SEAD-12	3	Regional	745168.1	1016055	7	8.8	10.5	9.5	A984P/A398Q	-7.37%	
10/21/1997	SEAD-12	3	Regional	745172.4	1015955	8.5	9.4	11	9.5	A984P/A398Q	-1.05%	
10/21/1997	SEAD-12	3	Regional	745176.8	1015855	8.5	9.4	11.2	9.5	A984P/A398Q	-1.05%	
10/21/1997	SEAD-12	3	Regional	745181.2	1015755	8.5	9.4	11	9.5	A984P/A398Q	-1.05%	
10/21/1997	SEAD-12	3	Regional	745185.6	1015655	8.5	9.2	11	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	745189.9	1015555	8	9.2	11	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	745194.3	1015455	8.5	9.3	10.5	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	745198.7	1015355	8.5	9.3	12	9.5	A984P/A398Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	745203.1	1015256	8	9	11	9.5	A984P/A398Q	-5.26%	
10/21/1997	SEAD-12	3	Regional	745207.4	1015156	8	8.9	10	9.5	A984P/A398Q	-6.32%	
10/21/1997	SEAD-12	3	Regional	745115.7	1016108	5.2	8.8	10.2	9.5	A945P/A378Q	-7.37%	
10/21/1997	SEAD-12	3	Regional	745118.1	1016053	7	9.2	10.8	9.5	A945P/A378Q	-3.16%	
10/21/1997	SEAD-12	3	Regional	745122.5	1015953	7.5	9.3	11	9.5	A945P/A378Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	745126.9	1015853	7.8	9.5	10.8	9.5	A945P/A378Q	0.00%	
10/21/1997	SEAD-12	3	Regional	745131.3	1015753	7	9.3	10.5	9.5	A945P/A378Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	745135.6	1015653	7	9.3	10.8	9.5	A945P/A378Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	745140	1015553	6.8	9.3	10.2	9.5	A945P/A378Q	-2.11%	
10/21/1997	SEAD-12	3	Regional	745144.4	1015453	7.2	9.1	10.8	9.5	A945P/A378Q	-4.21%	
10/21/1997	SEAD-12	3	Regional	745148.8	1015353	7	8.9	10	9.5	A945P/A378Q	-6.32%	
10/21/1997	SEAD-12	3	Regional	745153.1	1015253	7.2	10.6	13.8	9.5	A945P/A378Q	11.58%	
10/21/1997	SEAD-12	3	Regional	745157.5	1015154	6.5	8.8	10.2	9.5	A945P/A378Q	-7.37%	
10/21/1997	SEAD-12	3	Regional	745231.1	1015757	5.2	7	8.2	9.5	A945P/A378Q	-26.32%	
10/21/1997	SEAD-12	3	Regional	745235.5	1015657	5.8	6.9	8.5	9.5	A945P/A378Q	-27.37%	
10/21/1997	SEAD-12	3	Regional	745239.9	1015558	5.5	7	9.2	9.5	A945P/A378Q	-26.32%	
10/21/1997	SEAD-12	3	Regional	745244.3	1015458	5.8	6.8	8.8	9.5	A945P/A378Q	-28.42%	
10/21/1997	SEAD-12	3	Regional	745248.6	1015358	5.5	7.4	10	9.5	A945P/A378Q	-22.11%	
10/21/1997	SEAD-12	3	Regional	745253	1015258	5.2	6.8	9.2	9.5	A945P/A378Q	-28.42%	
10/21/1997	SEAD-12	3	Regional	745257.4	1015158	4.2	6.6	8	9.5	A945P/A378Q	-30.53%	
10/21/1997	SEAD-12	4	Regional	743113.8	1014964	9	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743118.2	1014864	9	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743122.6	1014764	9.5	10.5	12	9.5	A984P/A398Q	10.53%	
10/21/1997	SEAD-12	4	Regional	743126.9	1014664	8.5	10.3	11.5	9.5	A984P/A398Q	8.42%	
10/21/1997	SEAD-12	4	Regional	743131.3	1014564	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743135.7	1014464	9	10.4	12	9.5	A984P/A398Q	9.47%	
10/21/1997	SEAD-12	4	Regional	743140.1	1014365	9	11.1	13	9.5	A984P/A398Q	16.84%	
10/21/1997	SEAD-12	4	Regional	743144.4	1014265	9	10.9	12.5	9.5	A984P/A398Q	14.74%	
10/21/1997	SEAD-12	4	Regional	743148.8	1014165	9	10.3	12.5	9.5	A984P/A398Q	8.42%	
10/21/1997	SEAD-12	4	Regional	743153.2	1014065	8	9.8	11	9.5	A984P/A398Q	3.16%	
10/21/1997	SEAD-12	4	Regional	743157.6	1013965	8	9.8	12	9.5	A984P/A398Q	3.16%	
10/21/1997	SEAD-12	4	Regional	743161.9	1013865	8	10.4	12	9.5	A984P/A398Q	9.47%	
10/21/1997	SEAD-12	4	Regional	743166.3	1013765	8.5	10.1	11.5	9.5	A984P/A398Q	6.32%	
10/21/1997	SEAD-12	4	Regional	743170.7	1013665	8.5	9.9	10.5	9.5	A984P/A398Q	4.21%	
10/21/1997	SEAD-12	4	Regional	743175.1	1013565	9	10.7	12	9.5	A984P/A398Q	12.63%	
10/21/1997	SEAD-12	4	Regional	743178.1	1013495	6.5	9.6	11.5	9.5	A984P/A398Q	1.05%	
10/21/1997	SEAD-12	4	Regional	743213.8	1014968	8.5	9.8	12	9.5	A984P/A398Q	3.16%	
10/21/1997	SEAD-12	4	Regional	743218.1	1014868	9	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743222.5	1014769	8	9.7	10.5	9.5	A984P/A398Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743226.9	1014669	8	9.5	10.5	9.5	A984P/A398Q	0.00%	
10/21/1997	SEAD-12	4	Regional	743231.3	1014569	8	9.6	11	9.5	A984P/A398Q	1.05%	
10/21/1997	SEAD-12	4	Regional	743235.6	1014469	8.5	9.4	11	9.5	A984P/A398Q	-1.05%	
10/21/1997	SEAD-12	4	Regional	743240	1014369	8.5	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743244.4	1014269	8.4	9.6	11	9.5	A984P/A398Q	1.05%	
10/21/1997	SEAD-12	4	Regional	743248.8	1014169	8.5	9.6	11	9.5	A984P/A398Q	1.05%	
10/21/1997	SEAD-12	4	Regional	743253.1	1014069	6.5	9.2	11	9.5	A984P/A398Q	-3.16%	
10/21/1997	SEAD-12	4	Regional	743257.5	1013969	8.5	9.7	11.2	9.5	A984P/A398Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743261.9	1013869	9	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/21/1997	SEAD-12	4	Regional	743266.3	1013769	8.5	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/21/1997	SEAD-12	4	Regional	743270.6	1013670	8.5	10.1	12	9.5	A984P/A398Q	6.32%	
10/21/1997	SEAD-12	4	Regional	743275	1013570	8.5	9.9	12	9.5	A984P/A398Q	4.21%	
10/21/1997	SEAD-12	4	Regional	743278.1	1013500	8	9.5	11	9.5	A984P/A398Q	0.00%	
10/21/1997	SEAD-12	4	Regional	743163.8	1014966	8.2	10.2	11.8	9.5	A945P/A378Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743168.1	1014866	8	10	11.5	9.5	A945P/A378Q	5.26%	
10/21/1997	SEAD-12	4	Regional	743172.5	1014766	7.8	9.7	11.8	9.5	A945P/A378Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743176.9	1014666	7.5	9.7	11.8	9.5	A945P/A378Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743181.3	1014567	7.2	9.6	12.2	9.5	A945P/A378Q	1.05%	
10/21/1997	SEAD-12	4	Regional	743185.6	1014467	7.8	9.7	11.2	9.5	A945P/A378Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743190	1014367	8	10.2	11.8	9.5	A945P/A378Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743194.4	1014267	8.2	10.4	13.2	9.5	A945P/A378Q	9.47%	
10/21/1997	SEAD-12	4	Regional	743198.8	1014167	8	10.3	12	9.5	A945P/A378Q	8.42%	
10/21/1997	SEAD-12	4	Regional	743203.1	1014067	6.2	10.1	11.5	9.5	A945P/A378Q	6.32%	
10/21/1997	SEAD-12	4	Regional	743207.5	1013967	8.2	10.2	11.5	9.5	A945P/A378Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743211.9	1013867	8	9.8	12.2	9.5	A945P/A378Q	3.16%	
10/21/1997	SEAD-12	4	Regional	743216.3	1013767	8.5	9.8	11.5	9.5	A945P/A378Q	3.16%	
10/21/1997	SEAD-12	4	Regional	743220.7	1013667	7.8	9.9	10.8	9.5	A945P/A378Q	4.21%	
10/21/1997	SEAD-12	4	Regional	743225.1	1013567	7	9.6	11.5	9.5	A945P/A378Q	1.05%	
10/21/1997	SEAD-12	4	Regional	743229.4	1013468	5.8	9.5	10.8	9.5	A945P/A378Q	0.00%	
10/21/1997	SEAD-12	4	Regional	743263.7	1014971	8	9.9	12.2	9.5	A945P/A378Q	4.21%	
10/21/1997	SEAD-12	4	Regional	743268.1	1014871	8.2	10.3	11.2	9.5	A945P/A378Q	8.42%	
10/21/1997	SEAD-12	4	Regional	743272.4	1014771	8	9.7	11.5	9.5	A945P/A378Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743276.8	1014671	7.8	9.4	11.8	9.5	A945P/A378Q	-1.05%	
10/21/1997	SEAD-12	4	Regional	743281.2	1014571	7.2	9.7	11	9.5	A945P/A378Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743285.6	1014471	7.5	9.5	11.2	9.5	A945P/A378Q	0.00%	
10/21/1997	SEAD-12	4	Regional	743289.9	1014371	8	9.5	10.8	9.5	A945P/A378Q	0.00%	
10/21/1997	SEAD-12	4	Regional	743294.3	1014271	7.8	9.6	10.2	9.5	A945P/A378Q	1.05%	
10/21/1997	SEAD-12	4	Regional	743298.7	1014171	7.5	10.2	12.2	9.5	A945P/A378Q	7.37%	
10/21/1997	SEAD-12	4	Regional	743303.1	1014071	5.2	9.2	11.8	9.5	A945P/A378Q	-3.16%	
10/21/1997	SEAD-12	4	Regional	743307.4	1013971	8	9.7	10.8	9.5	A945P/A378Q	2.11%	
10/21/1997	SEAD-12	4	Regional	743311.8	1013872	8	10	11	9.5	A945P/A378Q	5.26%	
10/21/1997	SEAD-12	4	Regional	743316.2	1013772	7.8	9.8	11.2	9.5	A945P/A378Q	3.16%	



Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/21/1997	SEAD-12	4	Regional	743320.6	1013672	8	9.9	12	9.5	A945P/A378Q	4.21%	
10/21/1997	SEAD-12	4	Regional	743324.9	1013572	6.8	10.1	11	9.5	A945P/A378Q	6.32%	
10/21/1997	SEAD-12	4	Regional	743328	1013502	5.5	9.3	11.2	9.5	A945P/A378Q	-2.11%	
10/22/1997	SEAD-12	4	Regional	743313.6	1014973	9.5	11	13.2	9.5	A984P/A398Q	15.79%	
10/22/1997	SEAD-12	4	Regional	743318	1014873	9	10.3	12.5	9.5	A984P/A398Q	8.42%	
10/22/1997	SEAD-12	4	Regional	743322.4	1014773	9	9.9	12	9.5	A984P/A398Q	4.21%	
10/22/1997	SEAD-12	4	Regional	743326.8	1014673	8.5	10	11.5	9.5	A984P/A398Q	5.26%	
10/22/1997	SEAD-12	4	Regional	743331.1	1014573	8.5	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743335.5	1014473	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743339.9	1014373	8	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743344.3	1014273	8	10.3	12	9.5	A984P/A398Q	8.42%	
10/22/1997	SEAD-12	4	Regional	743348.6	1014173	8	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743353	1014074	6.5	9.7	12	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743357.4	1013974	7.5	9.7	12	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743361.8	1013874	8	10	11.5	9.5	A984P/A398Q	5.26%	
10/22/1997	SEAD-12	4	Regional	743366.1	1013774	8	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743370.5	1013674	8.5	9.8	11	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743374.9	1013574	8	9.8	11	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743377.9	1013504	7.5	10.1	11.5	9.5	A984P/A398Q	6.32%	
10/22/1997	SEAD-12	4	Regional	743413.6	1014977	8	9.9	12	9.5	A984P/A398Q	4.21%	
10/22/1997	SEAD-12	4	Regional	743417.9	1014877	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
10/22/1997	SEAD-12	4	Regional	743422.3	1014777	8.5	9.5	11	9.5	A984P/A398Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743426.7	1014677	8	9.3	10	9.5	A984P/A398Q	-2.11%	
10/22/1997	SEAD-12	4	Regional	743431.1	1014577	8.5	9.4	10.5	9.5	A984P/A398Q	-1.05%	
10/22/1997	SEAD-12	4	Regional	743435.4	1014478	8	9.3	10.5	9.5	A984P/A398Q	-2.11%	
10/22/1997	SEAD-12	4	Regional	743439.8	1014378	8	9.5	11	9.5	A984P/A398Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743444.2	1014278	8.5	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743448.6	1014178	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743452.9	1014078	7	9.5	11	9.5	A984P/A398Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743457.3	1013978	8.5	9.6	11	9.5	A984P/A398Q	1.05%	
10/22/1997	SEAD-12	4	Regional	743461.7	1013878	8.5	9.8	12	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743466.1	1013778	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743470.4	1013678	8	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/22/1997	SEAD-12	4	Regional	743474.8	1013578	8.5	9.6	11	9.5	A984P/A398Q	1.05%	
10/22/1997	SEAD-12	4	Regional	743477.9	1013509	8	9.6	10.5	9.5	A984P/A398Q	1.05%	
10/22/1997	SEAD-12	4	Regional	743363.6	1014975	8.2	10.6	12.5	9.3	A945P/A378Q	13.98%	
10/22/1997	SEAD-12	4	Regional	743367.9	1014875	7.8	9.8	11.5	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743372.3	1014775	8.2	10	12	9.3	A945P/A378Q	7.53%	
10/22/1997	SEAD-12	4	Regional	743376.7	1014675	8	9.3	11.5	9.3	A945P/A378Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743381.1	1014575	7.5	9.5	11.2	9.3	A945P/A378Q	2.15%	
10/22/1997	SEAD-12	4	Regional	743385.4	1014475	8	9.6	10.8	9.3	A945P/A378Q	3.23%	
10/22/1997	SEAD-12	4	Regional	743389.8	1014375	7.8	9.7	11.5	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743394.2	1014276	8.2	9.7	12	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743398.6	1014176	8.2	10.2	11.8	9.3	A945P/A378Q	9.68%	
10/22/1997	SEAD-12	4	Regional	743402.9	1014076	5.8	9.8	11.5	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743407.3	1013976	8.2	9.4	10.8	9.3	A945P/A378Q	1.08%	
10/22/1997	SEAD-12	4	Regional	743411.7	1013876	8	9.6	11.8	9.3	A945P/A378Q	3.23%	
10/22/1997	SEAD-12	4	Regional	743416.1	1013776	7.8	9.9	11.2	9.3	A945P/A378Q	6.45%	
10/22/1997	SEAD-12	4	Regional	743420.4	1013676	7.8	9.7	11.5	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743424.8	1013576	8	9.5	11	9.3	A945P/A378Q	2.15%	
10/22/1997	SEAD-12	4	Regional	743427.9	1013506	5.8	10	12.2	9.3	A945P/A378Q	7.53%	
10/22/1997	SEAD-12	4	Regional	743463.5	1014979	7.5	9.7	12	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743467.9	1014879	7.2	9.3	11.5	9.3	A945P/A378Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743472.3	1014779	8.2	9.6	11.8	9.3	A945P/A378Q	3.23%	
10/22/1997	SEAD-12	4	Regional	743476.6	1014680	7.5	9.5	11.2	9.3	A945P/A378Q	2.15%	
10/22/1997	SEAD-12	4	Regional	743481	1014580	7.8	9.2	10.5	9.3	A945P/A378Q	-1.08%	
10/22/1997	SEAD-12	4	Regional	743485.4	1014480	7.2	9.4	10.8	9.3	A945P/A378Q	1.08%	
10/22/1997	SEAD-12	4	Regional	743489.8	1014380	8.2	9.6	11.8	9.3	A945P/A378Q	3.23%	
10/22/1997	SEAD-12	4	Regional	743494.1	1014280	7.8	9.7	11.5	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743498.5	1014180	8.2	10.1	12.5	9.3	A945P/A378Q	8.60%	
10/22/1997	SEAD-12	4	Regional	743502.9	1014080	5.5	9.8	11.2	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743507.3	1013980	6.8	10	11.8	9.3	A945P/A378Q	7.53%	
10/22/1997	SEAD-12	4	Regional	743511.6	1013880	7.2	9.8	12.2	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743516	1013780	8.5	10.4	12	9.3	A945P/A378Q	11.83%	
10/22/1997	SEAD-12	4	Regional	743520.4	1013681	7.8	10	11.8	9.3	A945P/A378Q	7.53%	
10/22/1997	SEAD-12	4	Regional	743524.8	1013581	8.2	9.8	11.8	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743527.8	1013511	6	9.7	11.2	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743513.4	1014981	8.5	9.6	11.5	9.5	A984P/A398Q	1.05%	
10/22/1997	SEAD-12	4	Regional	743517.8	1014882	8	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743522.2	1014782	9	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743526.6	1014682	8	9.6	11	9.5	A984P/A398Q	1.05%	
10/22/1997	SEAD-12	4	Regional	743530.9	1014582	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
10/22/1997	SEAD-12	4	Regional	743535.3	1014482	7.5	9.3	10.2	9.5	A984P/A398Q	-2.11%	
10/22/1997	SEAD-12	4	Regional	743539.7	1014382	8	9.3	11.5	9.5	A984P/A398Q	-2.11%	
10/22/1997	SEAD-12	4	Regional	743544.1	1014282	8.5	9.7	10.8	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743548.4	1014182	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743552.8	1014082	7	10.2	12.5	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743557.2	1013982	8	10.3	12.5	9.5	A984P/A398Q	8.42%	
10/22/1997	SEAD-12	4	Regional	743561.6	1013883	9	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743565.9	1013783	9	10.5	11.5	9.5	A984P/A398Q	10.53%	
10/22/1997	SEAD-12	4	Regional	743570.3	1013683	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743574.7	1013583	8.5	10.4	12	9.5	A984P/A398Q	9.47%	
10/22/1997	SEAD-12	4	Regional	743577.8	1013513	7	10.1	12.2	9.5	A984P/A398Q	6.32%	
10/22/1997	SEAD-12	4	Regional	743613.3	1014986	8.5	10.1	11	9.5	A984P/A398Q	6.32%	
10/22/1997	SEAD-12	4	Regional	743617.7	1014886	8.5	9.8	11	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743622.1	1014786	8	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743626.4	1014686	8	9.5	10.8	9.5	A984P/A398Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743630.8	1014586	8.5	9.6	11	9.5	A984P/A398Q	1.05%	
10/22/1997	SEAD-12	4	Regional	743635.3	1014486	8	9.7	11	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743639.6	1014386	8	9.6	11	9.5	A984P/A398Q	1.05%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/22/1997	SEAD-12	4	Regional	743644	1014287	8.5	9.7	11	9.5	A984P/A398Q	2.11%	
10/22/1997	SEAD-12	4	Regional	743648.4	1014187	9	10.1	12.5	9.5	A984P/A398Q	6.32%	
10/22/1997	SEAD-12	4	Regional	743652.8	1014087	7	10	12.2	9.5	A984P/A398Q	5.26%	
10/22/1997	SEAD-12	4	Regional	743657.1	1013987	9	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743661.5	1013887	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743665.9	1013787	8.5	10	12	9.5	A984P/A398Q	5.26%	
10/22/1997	SEAD-12	4	Regional	743670.3	1013687	9	10.2	12	9.5	A984P/A398Q	7.37%	
10/22/1997	SEAD-12	4	Regional	743674.6	1013587	9	10.6	12.5	9.5	A984P/A398Q	11.58%	
10/22/1997	SEAD-12	4	Regional	743677.7	1013517	7.5	9.8	11	9.5	A984P/A398Q	3.16%	
10/22/1997	SEAD-12	4	Regional	743563.4	1014984	8.2	9.8	12	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743567.8	1014884	7.8	9.8	11.2	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743572.1	1014784	8.2	9.8	11.5	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743576.5	1014684	7.5	9.4	11.2	9.3	A945P/A378Q	1.08%	
10/22/1997	SEAD-12	4	Regional	743580.9	1014584	7.8	9.3	11.5	9.3	A945P/A378Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743585.3	1014484	7.8	9.3	12	9.3	A945P/A378Q	0.00%	
10/22/1997	SEAD-12	4	Regional	743589.6	1014384	8	9.4	11.2	9.3	A945P/A378Q	1.08%	
10/22/1997	SEAD-12	4	Regional	743594	1014284	8.2	9.7	11.5	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743598.4	1014184	8.5	10.1	11.2	9.3	A945P/A378Q	8.60%	
10/22/1997	SEAD-12	4	Regional	743602.8	1014085	5.2	11	13.5	9.3	A945P/A378Q	18.28%	
10/22/1997	SEAD-12	4	Regional	743607.1	1013985	8	10.2	12.5	9.3	A945P/A378Q	9.68%	
10/22/1997	SEAD-12	4	Regional	743611.5	1013885	7.8	10.1	11.8	9.3	A945P/A378Q	8.60%	
10/22/1997	SEAD-12	4	Regional	743615.9	1013785	8.2	10	12.2	9.3	A945P/A378Q	7.53%	
10/22/1997	SEAD-12	4	Regional	743620.3	1013685	8	10.1	11.8	9.3	A945P/A378Q	8.60%	
10/22/1997	SEAD-12	4	Regional	743624.6	1013585	7.8	10.3	11.5	9.3	A945P/A378Q	10.75%	
10/22/1997	SEAD-12	4	Regional	743627.7	1013515	5.5	10.2	11.2	9.3	A945P/A378Q	9.68%	
10/22/1997	SEAD-12	4	Regional	743663.3	1014988	7.2	9.6	11	9.3	A945P/A378Q	3.23%	
10/22/1997	SEAD-12	4	Regional	743667.7	1014888	8	9.8	11.2	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743672.1	1014788	8.2	9.9	11.5	9.3	A945P/A378Q	6.45%	
10/22/1997	SEAD-12	4	Regional	743676.4	1014688	8	10	11.8	9.3	A945P/A378Q	7.53%	
10/22/1997	SEAD-12	4	Regional	743680.8	1014588	7.8	9.8	11.2	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743685.2	1014489	8.2	9.6	11	9.3	A945P/A378Q	3.23%	
10/22/1997	SEAD-12	4	Regional	743689.6	1014389	7.5	9.6	11.8	9.3	A945P/A378Q	3.23%	
10/22/1997	SEAD-12	4	Regional	743693.9	1014289	8	9.9	11.5	9.3	A945P/A378Q	6.45%	
10/22/1997	SEAD-12	4	Regional	743698.3	1014189	7.8	9.8	11.8	9.3	A945P/A378Q	5.38%	
10/22/1997	SEAD-12	4	Regional	743702.7	1014089	8.2	10.2	12.8	9.3	A945P/A378Q	9.68%	
10/22/1997	SEAD-12	4	Regional	743707.1	1013989	7.5	10.2	11.8	9.3	A945P/A378Q	9.68%	
10/22/1997	SEAD-12	4	Regional	743711.4	1013889	8.2	10.4	12.2	9.3	A945P/A378Q	11.83%	
10/22/1997	SEAD-12	4	Regional	743715.8	1013789	8.2	10.3	11.2	9.3	A945P/A378Q	10.75%	
10/22/1997	SEAD-12	4	Regional	743720.2	1013689	8	10.3	11.5	9.3	A945P/A378Q	10.75%	
10/22/1997	SEAD-12	4	Regional	743724.6	1013589	7.5	9.7	11.2	9.3	A945P/A378Q	4.30%	
10/22/1997	SEAD-12	4	Regional	743727.6	1013519	6.2	9.8	11.5	9.3	A945P/A378Q	5.38%	
10/23/1997	SEAD-12	4	Regional	743713.3	1014990	8.5	9.3	10.5	9.5	A984P/A398Q	-2.11%	
10/23/1997	SEAD-12	4	Regional	743717.6	1014890	8.5	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	743722	1014790	8.5	10.2	12	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	743726.4	1014691	8.8	9.9	12	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	743730.8	1014591	8.5	10.2	11.8	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	743735.1	1014491	8.5	10.1	12	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	743739.5	1014391	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	743743.9	1014291	8	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	743748.3	1014191	8.5	10	12	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743752.6	1014091	8	10.6	13	9.5	A984P/A398Q	11.58%	
10/23/1997	SEAD-12	4	Regional	743757	1013991	8	10.2	12.5	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	743761.4	1013891	9	10	12.8	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743765.8	1013791	9	10.5	12.5	9.5	A984P/A398Q	10.53%	
10/23/1997	SEAD-12	4	Regional	743770.1	1013691	8.5	10.2	12.2	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	743774.5	1013592	8	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	743777.6	1013522	6.5	9.9	12	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	743813.1	1014995	8	10	12	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743817.5	1014895	8.5	10.3	12	9.5	A984P/A398Q	8.42%	
10/23/1997	SEAD-12	4	Regional	743821.9	1014795	8	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	743826.3	1014695	8	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	743830.6	1014595	8.5	10.5	11.8	9.5	A984P/A398Q	10.53%	
10/23/1997	SEAD-12	4	Regional	743835	1014495	8.5	10.1	12	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	743839.4	1014395	9	10.2	12	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	743843.8	1014295	9.5	10	12	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743848.1	1014195	9	10	12	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743852.6	1014095	7.5	10.7	13	9.5	A984P/A398Q	12.63%	
10/23/1997	SEAD-12	4	Regional	743856.9	1013995	9.5	10.5	12.5	9.5	A984P/A398Q	10.53%	
10/23/1997	SEAD-12	4	Regional	743861.3	1013895	10	11.4	14	9.5	A984P/A398Q	20.00%	
10/23/1997	SEAD-12	4	Regional	743865.7	1013795	9	10.1	12	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	743870.1	1013695	9	10.2	12.5	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	743874.4	1013596	7	9.7	12	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	743877.5	1013526	8	10.1	12	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	743783.2	1014992	7.5	9.7	11.8	9.1	A945P/A378Q	6.59%	
10/23/1997	SEAD-12	4	Regional	743767.6	1014893	7.8	9.8	11.2	9.1	A945P/A378Q	7.69%	
10/23/1997	SEAD-12	4	Regional	743771.9	1014793	8	10.4	13.2	9.1	A945P/A378Q	14.29%	
10/23/1997	SEAD-12	4	Regional	743776.3	1014693	8.5	10.1	12.5	9.1	A945P/A378Q	10.99%	
10/23/1997	SEAD-12	4	Regional	743780.7	1014593	7.8	10.2	12.8	9.1	A945P/A378Q	12.09%	
10/23/1997	SEAD-12	4	Regional	743785.1	1014493	7.5	9.8	11.8	9.1	A945P/A378Q	7.69%	
10/23/1997	SEAD-12	4	Regional	743789.4	1014393	8	10.2	11.2	9.1	A945P/A378Q	12.09%	
10/23/1997	SEAD-12	4	Regional	743793.8	1014293	7.5	10.1	11.5	9.1	A945P/A378Q	10.99%	
10/23/1997	SEAD-12	4	Regional	743798.2	1014193	8.2	10	11.5	9.1	A945P/A378Q	9.89%	
10/23/1997	SEAD-12	4	Regional	743802.6	1014093	5.2	11.3	13.5	9.1	A945P/A378Q	24.18%	
10/23/1997	SEAD-12	4	Regional	743806.9	1013993	7.8	10.2	12	9.1	A945P/A378Q	12.09%	
10/23/1997	SEAD-12	4	Regional	743811.3	1013893	8.2	10.9	13.9	9.1	A945P/A378Q	19.78%	
10/23/1997	SEAD-12	4	Regional	743815.7	1013793	8	10.2	12.2	9.1	A945P/A378Q	12.09%	
10/23/1997	SEAD-12	4	Regional	743820.1	1013693	7.5	10.4	11.8	9.1	A945P/A378Q	14.29%	
10/23/1997	SEAD-12	4	Regional	743824.4	1013593	8.2	10.4	12	9.1	A945P/A378Q	14.29%	
10/23/1997	SEAD-12	4	Regional	743827.5	1013524	5.5	10	12.8	9.1	A945P/A378Q	9.89%	
10/23/1997	SEAD-12	4	Regional	743863.1	1014997	6.8	8.3	10.5	9.1	A945P/A378Q	-8.79%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/23/1997	SEAD-12	4	Regional	743867.5	1014897	7	8.5	10.8	9.1	A945P/A378Q	-6.59%	
10/23/1997	SEAD-12	4	Regional	743871.9	1014797	8	8.7	10.2	9.1	A945P/A378Q	-4.40%	
10/23/1997	SEAD-12	4	Regional	743876.3	1014697	7.8	9.5	10.8	9.1	A945P/A378Q	4.40%	
10/23/1997	SEAD-12	4	Regional	743880.6	1014597	8.5	9.4	11.8	9.1	A945P/A378Q	3.30%	
10/23/1997	SEAD-12	4	Regional	743885	1014497	7.8	9.7	11.2	9.1	A945P/A378Q	6.59%	
10/23/1997	SEAD-12	4	Regional	743889.4	1014397	8.2	9.8	11.5	9.1	A945P/A378Q	7.69%	
10/23/1997	SEAD-12	4	Regional	743893.8	1014297	7.5	9.8	12	9.1	A945P/A378Q	7.69%	
10/23/1997	SEAD-12	4	Regional	743898.1	1014198	8.2	9.9	11.5	9.1	A945P/A378Q	8.79%	
10/23/1997	SEAD-12	4	Regional	743902.5	1014098	5.2	10.6	13.2	9.1	A945P/A378Q	16.48%	
10/23/1997	SEAD-12	4	Regional	743906.9	1013998	7.5	10.5	12.8	9.1	A945P/A378Q	15.38%	
10/23/1997	SEAD-12	4	Regional	743911.3	1013898	8	11.2	14.5	9.1	A945P/A378Q	23.08%	
10/23/1997	SEAD-12	4	Regional	743915.6	1013798	8.2	10	12.2	9.1	A945P/A378Q	9.89%	
10/23/1997	SEAD-12	4	Regional	743920	1013698	8	10.1	11.8	9.1	A945P/A378Q	10.99%	
10/23/1997	SEAD-12	4	Regional	743924.4	1013598	6.8	8.6	11	9.1	A945P/A378Q	-5.49%	
10/23/1997	SEAD-12	4	Regional	743927.4	1013528	5	8.2	10.2	9.1	A945P/A378Q	-9.89%	
10/23/1997	SEAD-12	4	Regional	743913.1	1014999	8	9.4	10.5	9.5	A984P/A398Q	-1.05%	
10/23/1997	SEAD-12	4	Regional	743917.4	1014899	8.5	9.6	11.5	9.5	A984P/A398Q	1.05%	
10/23/1997	SEAD-12	4	Regional	743921.8	1014799	8	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	743926.2	1014699	8.5	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	743930.6	1014599	8.5	10	12	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743934.9	1014499	8	10.1	12	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	743939.3	1014400	8.5	10	12.5	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743943.7	1014300	8.5	10.1	12.5	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	743948.1	1014200	8.5	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	743952.4	1014100	7.5	10	12	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743956.8	1014000	9	10.3	12.5	9.5	A984P/A398Q	8.42%	
10/23/1997	SEAD-12	4	Regional	743961.2	1013900	8.5	10	12.5	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	743965.6	1013800	8.8	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	743969.9	1013700	8.5	10.3	11.5	9.5	A984P/A398Q	8.42%	
10/23/1997	SEAD-12	4	Regional	743974.3	1013600	9	10.5	13	9.5	A984P/A398Q	10.53%	
10/23/1997	SEAD-12	4	Regional	743977.4	1013530	8	10.9	13.5	9.5	A984P/A398Q	14.74%	
10/23/1997	SEAD-12	4	Regional	744012.9	1015003	8.5	9.6	11.5	9.5	A984P/A398Q	1.05%	
10/23/1997	SEAD-12	4	Regional	744017.3	1014903	8	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	744021.7	1014804	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	744026.1	1014704	8.5	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	744030.4	1014604	8.5	9.9	11.8	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	744034.8	1014504	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	744039.2	1014404	8	9.7	11	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	744043.6	1014304	8	9.5	11	9.5	A984P/A398Q	0.00%	
10/23/1997	SEAD-12	4	Regional	744047.9	1014204	8.5	9.4	11	9.5	A984P/A398Q	-1.05%	
10/23/1997	SEAD-12	4	Regional	744052.3	1014104	8	9.4	10	9.5	A984P/A398Q	-1.05%	
10/23/1997	SEAD-12	4	Regional	744056.7	1014004	7.5	8.9	10	9.5	A984P/A398Q	-6.32%	
10/23/1997	SEAD-12	4	Regional	744061.1	1013904	8	9.1	9.8	9.5	A984P/A398Q	-4.21%	
10/23/1997	SEAD-12	4	Regional	744065.4	1013804	8	9.2	10.2	9.5	A984P/A398Q	-3.16%	
10/23/1997	SEAD-12	4	Regional	744069.8	1013705	8	9.4	11	9.5	A984P/A398Q	-1.05%	
10/23/1997	SEAD-12	4	Regional	744074.3	1013605	9	10.2	12.5	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	744077.3	1013535	7.5	10.1	12.5	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	743963	1015001	7.2	10.1	11.8	9.1	A945P/A378Q	10.99%	
10/23/1997	SEAD-12	4	Regional	743967.4	1014901	7.8	9.7	12.2	9.1	A945P/A378Q	6.59%	
10/23/1997	SEAD-12	4	Regional	743971.8	1014801	7.5	10.1	12.8	9.1	A945P/A378Q	10.99%	
10/23/1997	SEAD-12	4	Regional	743976.1	1014701	8.2	9.7	11.8	9.1	A945P/A378Q	6.59%	
10/23/1997	SEAD-12	4	Regional	743980.5	1014602	7.5	9.8	11.5	9.1	A945P/A378Q	7.69%	
10/23/1997	SEAD-12	4	Regional	743984.9	1014502	7.8	9.6	11.2	9.1	A945P/A378Q	5.49%	
10/23/1997	SEAD-12	4	Regional	743989.3	1014402	8.2	9.8	12	9.1	A945P/A378Q	7.69%	
10/23/1997	SEAD-12	4	Regional	743993.6	1014302	8	9.9	11.8	9.1	A945P/A378Q	8.79%	
10/23/1997	SEAD-12	4	Regional	743998	1014202	7.5	9.9	12.2	9.1	A945P/A378Q	8.79%	
10/23/1997	SEAD-12	4	Regional	744002.4	1014102	7.8	9.5	9.5	9.1	A945P/A378Q	4.40%	
10/23/1997	SEAD-12	4	Regional	744006.8	1014002	6.8	9.8	10.2	9.1	A945P/A378Q	7.69%	
10/23/1997	SEAD-12	4	Regional	744011.1	1013902	6.5	9.9	10.8	9.1	A945P/A378Q	8.79%	
10/23/1997	SEAD-12	4	Regional	744015.5	1013802	7.2	8.5	10.8	9.1	A945P/A378Q	-6.59%	
10/23/1997	SEAD-12	4	Regional	744019.9	1013702	7.8	9.6	11.2	9.1	A945P/A378Q	5.49%	
10/23/1997	SEAD-12	4	Regional	744024.3	1013603	8.8	10.8	13.8	9.1	A945P/A378Q	18.68%	
10/23/1997	SEAD-12	4	Regional	744027.3	1013533	5.5	10	12.5	9.1	A945P/A378Q	9.89%	
10/23/1997	SEAD-12	4	Regional	744112.9	1015008	8	10	11	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	744117.3	1014908	9	10.9	13	9.5	A984P/A398Q	14.74%	
10/23/1997	SEAD-12	4	Regional	744121.6	1014808	9	10.5	12.5	9.5	A984P/A398Q	10.53%	
10/23/1997	SEAD-12	4	Regional	744126	1014708	8.5	10.2	12.5	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	744130.4	1014608	8	10.2	11.8	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	744134.8	1014508	8.5	10	11.5	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	744139.1	1014408	8	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	744143.5	1014308	8.5	9.9	12	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	744147.9	1014208	8	10.4	12	9.5	A984P/A398Q	9.47%	
10/23/1997	SEAD-12	4	Regional	744152.3	1014109	7	10.5	12	9.5	A984P/A398Q	10.53%	
10/23/1997	SEAD-12	4	Regional	744156.6	1014009	8	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	744161	1013909	8	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	744165.4	1013809	8	10	11.8	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	744169.8	1013709	8	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	744174.1	1013609	8.5	10	12	9.5	A984P/A398Q	5.26%	
10/23/1997	SEAD-12	4	Regional	744177.2	1013539	7.5	9.5	11	9.5	A984P/A398Q	0.00%	
10/23/1997	SEAD-12	4	Regional	744212.8	1015012	8.5	10.4	12	9.5	A984P/A398Q	9.47%	
10/23/1997	SEAD-12	4	Regional	744217.1	1014912	8	10.2	12	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	744221.5	1014812	8.5	10.2	11.5	9.5	A984P/A398Q	7.37%	
10/23/1997	SEAD-12	4	Regional	744225.9	1014712	8.8	9.7	12	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	744230.3	1014612	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	744234.6	1014513	8	9.7	11.5	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	744239	1014413	8	9.6	11	9.5	A984P/A398Q	1.05%	
10/23/1997	SEAD-12	4	Regional	744243.4	1014313	8.5	9.8	11.5	9.5	A984P/A398Q	3.16%	
10/23/1997	SEAD-12	4	Regional	744247.8	1014213	8	9.7	11.2	9.5	A984P/A398Q	2.11%	
10/23/1997	SEAD-12	4	Regional	744252.1	1014113	7.5	9.5	11.5	9.5	A984P/A398Q	0.00%	
10/23/1997	SEAD-12	4	Regional	744256.5	1014013	8	9.7	11	9.5	A984P/A398Q	2.11%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
						(kcpm)			(s/n)			
10/23/1997	SEAD-12	4	Regional	744260.9	1013913	8	9.6	11.2	9.5	A984P/A398Q	1.05%	
10/23/1997	SEAD-12	4	Regional	744265.3	1013813	8.5	9.9	11.5	9.5	A984P/A398Q	4.21%	
10/23/1997	SEAD-12	4	Regional	744269.6	1013713	8.5	10.1	12.5	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	744274	1013613	9	10.1	12.5	9.5	A984P/A398Q	6.32%	
10/23/1997	SEAD-12	4	Regional	744277.1	1013544	7	10.2	12	9.5	A984P/A398Q	7.37%	
10/24/1999	SEAD-12	4	Regional	744062.9	1015006	7.5	9.9	12.2	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744067.3	1014906	8.2	10.2	12.5	9.7	A945P/A378Q	5.15%	
10/24/1999	SEAD-12	4	Regional	744071.7	1014806	7.8	9.8	11.8	9.7	A945P/A378Q	1.03%	
10/24/1999	SEAD-12	4	Regional	744076.1	1014706	7.5	9.6	11.5	9.7	A945P/A378Q	-1.03%	
10/24/1999	SEAD-12	4	Regional	744080.4	1014606	8	10.2	12.2	9.7	A945P/A378Q	5.15%	
10/24/1999	SEAD-12	4	Regional	744084.8	1014506	8.2	9.9	11.8	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744089.2	1014406	8.2	10.1	11.5	9.7	A945P/A378Q	4.12%	
10/24/1999	SEAD-12	4	Regional	744093.6	1014306	8	10	11.2	9.7	A945P/A378Q	3.09%	
10/24/1999	SEAD-12	4	Regional	744097.9	1014206	8.8	10.3	12.8	9.7	A945P/A378Q	6.19%	
10/24/1999	SEAD-12	4	Regional	744102.3	1014106	5.8	10.5	13.5	9.7	A945P/A378Q	8.25%	
10/24/1999	SEAD-12	4	Regional	744106.7	1014006	6.8	10.1	13	9.7	A945P/A378Q	4.12%	
10/24/1999	SEAD-12	4	Regional	744111.1	1013907	7.8	10	12.2	9.7	A945P/A378Q	3.09%	
10/24/1999	SEAD-12	4	Regional	744115.4	1013807	8	9.9	12	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744119.8	1013707	7.5	9.9	12.5	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744124.2	1013607	8	10.4	12	9.7	A945P/A378Q	7.22%	
10/24/1999	SEAD-12	4	Regional	744127.3	1013537	5.8	10.2	11.8	9.7	A945P/A378Q	5.15%	
10/24/1999	SEAD-12	4	Regional	744162.8	1015010	7.8	10	11.8	9.7	A945P/A378Q	3.09%	
10/24/1999	SEAD-12	4	Regional	744187.2	1014910	8.2	9.9	12.2	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744171.6	1014810	7.5	9.7	12	9.7	A945P/A378Q	0.00%	
10/24/1999	SEAD-12	4	Regional	744175.9	1014710	8.2	9.8	12.5	9.7	A945P/A378Q	1.03%	
10/24/1999	SEAD-12	4	Regional	744180.3	1014610	8.5	10.3	12.8	9.7	A945P/A378Q	6.19%	
10/24/1999	SEAD-12	4	Regional	744184.7	1014510	7.8	9.8	11.2	9.7	A945P/A378Q	1.03%	
10/24/1999	SEAD-12	4	Regional	744189.1	1014410	8.2	9.7	11.8	9.7	A945P/A378Q	0.00%	
10/24/1999	SEAD-12	4	Regional	744193.4	1014311	8	10	11.8	9.7	A945P/A378Q	3.09%	
10/24/1999	SEAD-12	4	Regional	744197.8	1014211	7.5	10.1	12	9.7	A945P/A378Q	4.12%	
10/24/1999	SEAD-12	4	Regional	744202.2	1014111	7.8	10.3	14.2	9.7	A945P/A378Q	6.19%	
10/24/1999	SEAD-12	4	Regional	744206.6	1014011	7	9.7	12	9.7	A945P/A378Q	0.00%	
10/24/1999	SEAD-12	4	Regional	744210.9	1013911	7.8	9.7	11.8	9.7	A945P/A378Q	0.00%	
10/24/1999	SEAD-12	4	Regional	744215.3	1013811	7.2	10	12.2	9.7	A945P/A378Q	3.09%	
10/24/1999	SEAD-12	4	Regional	744219.7	1013711	6.8	9.9	12.5	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744224.1	1013611	7.5	9.8	11	9.7	A945P/A378Q	1.03%	
10/24/1999	SEAD-12	4	Regional	744227.1	1013541	8.2	9.8	11.5	9.7	A945P/A378Q	1.03%	
10/24/1999	SEAD-12	4	Regional	744262.7	1015014	6.8	10.3	12.2	9.7	A945P/A378Q	6.19%	
10/24/1999	SEAD-12	4	Regional	744267.1	1014914	7.5	10.2	12.8	9.7	A945P/A378Q	5.15%	
10/24/1999	SEAD-12	4	Regional	744271.5	1014814	7.2	9.9	11.5	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744275.9	1014715	6.5	10	12.8	9.7	A945P/A378Q	3.09%	
10/24/1999	SEAD-12	4	Regional	744280.3	1014615	7.5	9.9	12.2	9.7	A945P/A378Q	2.06%	
10/24/1999	SEAD-12	4	Regional	744284.6	1014515	8	9.8	11.8	9.7	A945P/A378Q	1.03%	
10/24/1999	SEAD-12	4	Regional	744289	1014415	7.8	9.7	12	9.7	A945P/A378Q	0.00%	
10/24/1999	SEAD-12	4	Regional	744293.4	1014315	8	9.6	12.5	9.7	A945P/A378Q	-1.03%	
10/24/1999	SEAD-12	4	Regional	744297.8	1014215	7.2	9.7	12.8	9.7	A945P/A378Q	0.00%	
10/24/1999	SEAD-12	4	Regional	744302.1	1014115	7.5	10.5	12.5	9.8	A984P/A398Q	7.14%	
10/24/1999	SEAD-12	4	Regional	744306.5	1014015	8	10	11.2	9.8	A984P/A398Q	2.04%	
10/24/1999	SEAD-12	4	Regional	744310.9	1013915	8.5	10.2	12	9.8	A984P/A398Q	4.08%	
10/24/1999	SEAD-12	4	Regional	744315.3	1013815	8.5	10.1	12	9.8	A984P/A398Q	3.06%	
10/24/1999	SEAD-12	4	Regional	744319.6	1013716	9	10.3	12.2	9.8	A984P/A398Q	5.10%	
10/24/1999	SEAD-12	4	Regional	744324	1013616	9	10.3	12	9.8	A984P/A398Q	5.10%	
10/24/1999	SEAD-12	4	Regional	744327.1	1013546	7.5	10.6	11.5	9.8	A984P/A398Q	8.16%	
10/24/1997	SEAD-12	5	Regional	743181.2	1013425	7.5	8.9	10.5	9.8	A984P/A398Q	-9.18%	
10/24/1997	SEAD-12	5	Regional	743183.8	1013365	9	10.5	12	9.8	A984P/A398Q	7.14%	
10/24/1997	SEAD-12	5	Regional	743188.2	1013266	9	10.1	12	9.8	A984P/A398Q	3.06%	1655'-1677' Gravel
10/24/1997	SEAD-12	5	Regional	743192.6	1013166	7.5	9.7	11	9.8	A984P/A398Q	-1.02%	1552' - 24" Culvert
10/24/1997	SEAD-12	5	Regional	743196.9	1013066	8.5	10	11.5	9.8	A984P/A398Q	2.04%	
10/24/1997	SEAD-12	5	Regional	743201.3	1012966	8.5	10.2	12	9.8	A984P/A398Q	4.08%	
10/24/1997	SEAD-12	5	Regional	743205.7	1012866	8.5	10.3	11.5	9.8	A984P/A398Q	5.10%	
10/24/1997	SEAD-12	5	Regional	743210.1	1012766	8.5	10.2	11.5	9.8	A984P/A398Q	4.08%	
10/24/1997	SEAD-12	5	Regional	743214.4	1012666	7.5	9.5	12	9.8	A984P/A398Q	-3.06%	Roadway 1055'
10/24/1997	SEAD-12	5	Regional	743231.1	1013430	5.2	9.8	11.8	9.7	A945P/A378Q	1.03%	
10/24/1997	SEAD-12	5	Regional	743233.8	1013368	8.2	11.1	13.5	9.7	A945P/A378Q	14.43%	
10/24/1997	SEAD-12	5	Regional	743238.2	1013268	7.5	10.2	12.2	9.7	A945P/A378Q	5.15%	
10/24/1997	SEAD-12	5	Regional	743242.6	1013168	7.8	10.2	11.8	9.7	A945P/A378Q	5.15%	
10/24/1997	SEAD-12	5	Regional	743246.9	1013068	6.8	10.1	12.8	9.7	A945P/A378Q	4.12%	
10/24/1997	SEAD-12	5	Regional	743251.3	1012968	8.2	10.6	13.5	9.7	A945P/A378Q	9.28%	
10/24/1997	SEAD-12	5	Regional	743255.7	1012868	8.5	10.2	13	9.7	A945P/A378Q	5.15%	
10/24/1997	SEAD-12	5	Regional	743260.1	1012768	7.8	10	12.5	9.7	A945P/A378Q	3.09%	
10/24/1997	SEAD-12	5	Regional	743264.4	1012668	7.2	10.5	13.8	9.7	A945P/A378Q	8.25%	
10/24/1997	SEAD-12	5	Regional	743267.8	1012591	5.5	9.4	12.8	9.7	A945P/A378Q	-3.09%	
10/24/1997	SEAD-12	5	Regional	743281	1013432	8	10.5	11.5	9.8	A984P/A398Q	7.14%	
10/24/1997	SEAD-12	5	Regional	743283.8	1013370	9.5	11.3	13	9.8	A984P/A398Q	15.31%	
10/24/1997	SEAD-12	5	Regional	743288.1	1013270	8.5	10.7	12	9.8	A984P/A398Q	9.18%	
10/24/1997	SEAD-12	5	Regional	743292.5	1013170	9	10.3	12	9.8	A984P/A398Q	5.10%	
10/24/1997	SEAD-12	5	Regional	743296.9	1013070	9	10.3	12	9.8	A984P/A398Q	5.10%	
10/24/1997	SEAD-12	5	Regional	743301.3	1012970	9	10.3	11.5	9.8	A984P/A398Q	5.10%	
10/24/1997	SEAD-12	5	Regional	743305.6	1012870	8.5	10	11.2	9.8	A984P/A398Q	2.04%	
10/24/1997	SEAD-12	5	Regional	743310	1012770	9	10.2	12	9.8	A984P/A398Q	4.08%	
10/24/1997	SEAD-12	5	Regional	743314.4	1012671	8	10.3	11.5	9.8	A984P/A398Q	5.10%	
10/24/1997	SEAD-12	5	Regional	743318.8	1012571	7	10	11.5	9.8	A984P/A398Q	2.04%	Roadway - 895'
10/24/1997	SEAD-12	5	Regional	743330.9	1013435	5.5	10	13.2	9.7	A945P/A378Q	3.09%	
10/24/1997	SEAD-12	5	Regional	743333.7	1013372	8.8	11.2	14.5	9.7	A945P/A378Q	15.46%	
10/24/1997	SEAD-12	5	Regional	743338.1	1013272	8.2	10.8	13.8	9.7	A945P/A378Q	11.34%	
10/24/1997	SEAD-12	5	Regional	743342.4	1013172	8.5	10.2	13.5	9.7	A945P/A378Q	5.15%	
10/24/1997	SEAD-12	5	Regional	743346.8	1013072	8	10.4	13.8	9.7	A945P/A378Q	7.22%	
10/24/1997	SEAD-12	5	Regional	743351.2	1012972	8.5	10.6	13.5	9.7	A945P/A378Q	9.28%	
10/24/1997	SEAD-12	5	Regional	743355.6	1012873	7.8	10.1	12.5	9.7	A945P/A378Q	4.12%	
10/24/1997	SEAD-12	5	Regional	743359.9	1012773	7.5	10.3	12.2	9.7	A945P/A378Q	6.19%	



Appendix F  
 Class III Areas Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/24/1997	SEAD-12	5	Regional	743364.3	1012673	7.8	10.2	11.8	9.7	A945P/A378Q	5.15%	
10/24/1997	SEAD-12	5	Regional	743368.7	1012573	7.5	10.5	13.2	9.7	A945P/A378Q	8.25%	
10/24/1997	SEAD-12	5	Regional	743372.9	1012478	5.5	10	12.2	9.7	A945P/A378Q	3.09%	
10/24/1997	SEAD-12	5	Regional	743380.9	1013437	7	9.4	11.5	9.8	A984P/A398Q	-4.08%	
10/24/1997	SEAD-12	5	Regional	743383.6	1013374	9	10.8	13	9.8	A984P/A398Q	10.20%	
10/24/1997	SEAD-12	5	Regional	743388	1013274	8.5	10.5	12.5	9.8	A984P/A398Q	7.14%	
10/24/1997	SEAD-12	5	Regional	743392.4	1013174	8.5	10.4	12	9.8	A984P/A398Q	6.12%	
10/24/1997	SEAD-12	5	Regional	743396.8	1013075	8	10	11.5	9.8	A984P/A398Q	2.04%	
10/24/1997	SEAD-12	5	Regional	743401.1	1012975	8.5	10.4	12	9.8	A984P/A398Q	6.12%	
10/24/1997	SEAD-12	5	Regional	743405.5	1012875	8.5	10.4	11.5	9.8	A984P/A398Q	6.12%	
10/24/1997	SEAD-12	5	Regional	743409.9	1012775	8	10	12	9.8	A984P/A398Q	2.04%	
10/24/1997	SEAD-12	5	Regional	743414.3	1012675	8	10.4	11.5	9.8	A984P/A398Q	6.12%	
10/24/1997	SEAD-12	5	Regional	743418.6	1012575	8	10.9	14	9.8	A984P/A398Q	11.22%	940' - Shale Roadway
10/24/1997	SEAD-12	5	Regional	743423	1012475	8	10	11	9.8	A984P/A398Q	2.04%	
10/24/1997	SEAD-12	5	Regional	743427.4	1012375	8	9.8	11	9.8	A984P/A398Q	0.00%	
10/24/1997	SEAD-12	5	Regional	743431.8	1012275	8	10.3	12	9.8	A984P/A398Q	5.10%	
10/24/1997	SEAD-12	5	Regional	743436.1	1012175	8.5	9.8	11	9.8	A984P/A398Q	0.00%	
10/24/1997	SEAD-12	5	Regional	743440.5	1012075	9.5	11	13	9.8	A984P/A398Q	12.24%	Old RR Bed - 487'
10/24/1997	SEAD-12	5	Regional	743444.9	1011976	9	10.5	12	9.8	A984P/A398Q	7.14%	
10/24/1997	SEAD-12	5	Regional	743449.3	1011876	8.5	10	11.5	9.8	A984P/A398Q	2.04%	
10/24/1997	SEAD-12	5	Regional	743453.6	1011776	8.5	9.9	11.5	9.8	A984P/A398Q	1.02%	
10/24/1997	SEAD-12	5	Regional	743458.1	1011676	9	10.4	12	9.8	A984P/A398Q	6.12%	
10/25/1997	SEAD-12	5	Regional	743430.9	1013439	5.2	9.7	12.8	10.2	A945P/A378Q	-4.90%	
10/25/1997	SEAD-12	5	Regional	743433.6	1013376	7.8	10.4	13.2	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743438	1013277	8	10.4	13.2	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743442.4	1013177	7.5	10.2	12	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743446.8	1013077	6.5	10.5	11.8	10.2	A945P/A378Q	2.94%	
10/25/1997	SEAD-12	5	Regional	743451.1	1012977	7.8	10.2	12	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743455.5	1012877	8.2	10	11.8	10.2	A945P/A378Q	-1.96%	
10/25/1997	SEAD-12	5	Regional	743459.9	1012777	8	10.2	11.5	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743464.3	1012677	8.5	10.3	12.2	10.2	A945P/A378Q	0.98%	
10/25/1997	SEAD-12	5	Regional	743468.6	1012577	7.8	10	13.8	10.2	A945P/A378Q	-1.96%	
10/25/1997	SEAD-12	5	Regional	743473	1012477	9.2	12.1	14.2	10.2	A945P/A378Q	18.63%	
10/25/1997	SEAD-12	5	Regional	743477.4	1012377	9.8	12.4	15.5	10.2	A945P/A378Q	21.57%	
10/25/1997	SEAD-12	5	Regional	743481.8	1012277	9	12	14.8	10.2	A945P/A378Q	17.65%	
10/25/1997	SEAD-12	5	Regional	743486.1	1012178	8.5	11.3	14.2	10.2	A945P/A378Q	10.78%	550'-930' - Crushed Shale Pad/Road
10/25/1997	SEAD-12	5	Regional	743490.5	1012078	8.8	10.9	13.8	10.2	A945P/A378Q	6.86%	
10/25/1997	SEAD-12	5	Regional	743494.9	1011978	8.2	11.1	14.2	10.2	A945P/A378Q	8.82%	
10/25/1997	SEAD-12	5	Regional	743499.3	1011878	7.8	10.7	13.5	10.2	A945P/A378Q	4.90%	
10/25/1997	SEAD-12	5	Regional	743503.6	1011778	8.2	10.6	12.8	10.2	A945P/A378Q	3.92%	
10/25/1997	SEAD-12	5	Regional	743508	1011678	7	10.1	12.5	10.2	A945P/A378Q	-0.98%	
10/25/1997	SEAD-12	5	Regional	743480.8	1013441	7	9.6	11	10	A984P/A398Q	-4.00%	
10/25/1997	SEAD-12	5	Regional	743483.6	1013379	9	10.7	13	10	A984P/A398Q	7.00%	
10/25/1997	SEAD-12	5	Regional	743487.9	1013279	9	10.4	12.5	10	A984P/A398Q	4.00%	
10/25/1997	SEAD-12	5	Regional	743492.3	1013179	8.5	10.6	12	10	A984P/A398Q	6.00%	
10/25/1997	SEAD-12	5	Regional	743496.7	1013079	8.5	10.1	12	10	A984P/A398Q	1.00%	
10/25/1997	SEAD-12	5	Regional	743501.1	1012979	8.8	10.6	12.2	10	A984P/A398Q	6.00%	
10/25/1997	SEAD-12	5	Regional	743505.4	1012879	8.5	10.1	12	10	A984P/A398Q	1.00%	
10/25/1997	SEAD-12	5	Regional	743509.8	1012779	8.5	10.3	11.5	10	A984P/A398Q	3.00%	
10/25/1997	SEAD-12	5	Regional	743514.2	1012679	8.8	10.4	12	10	A984P/A398Q	4.00%	
10/25/1997	SEAD-12	5	Regional	743518.6	1012579	8.5	10	11.5	10	A984P/A398Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743522.9	1012479	8.5	10	11.5	10	A984P/A398Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743527.3	1012380	8	10.2	12	10	A984P/A398Q	2.00%	
10/25/1997	SEAD-12	5	Regional	743531.7	1012280	8.5	10.1	11.5	10	A984P/A398Q	1.00%	
10/25/1997	SEAD-12	5	Regional	743536.1	1012180	8	10.3	13	10	A984P/A398Q	3.00%	
10/25/1997	SEAD-12	5	Regional	743540.4	1012080	9	10.6	13	10	A984P/A398Q	6.00%	Old RR Bed 490'-500'
10/25/1997	SEAD-12	5	Regional	743544.8	1011980	10	11.5	13.2	10	A984P/A398Q	15.00%	
10/25/1997	SEAD-12	5	Regional	743549.2	1011880	10	11.3	13.5	10	A984P/A398Q	13.00%	
10/25/1997	SEAD-12	5	Regional	743553.6	1011780	8.5	10.3	11.5	10	A984P/A398Q	3.00%	
10/25/1997	SEAD-12	5	Regional	743557.9	1011680	8	10.1	11.2	10	A984P/A398Q	1.00%	
10/25/1997	SEAD-12	5	Regional	743530.8	1013443	5.5	10.2	13.8	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743533.5	1013381	8.8	10.9	12.5	10.2	A945P/A378Q	6.86%	
10/25/1997	SEAD-12	5	Regional	743537.9	1013281	7.8	10.9	12.8	10.2	A945P/A378Q	6.86%	
10/25/1997	SEAD-12	5	Regional	743542.3	1013181	8.5	10.6	13.2	10.2	A945P/A378Q	3.92%	
10/25/1997	SEAD-12	5	Regional	743546.6	1013081	9.2	10.8	13	10.2	A945P/A378Q	5.88%	
10/25/1997	SEAD-12	5	Regional	743551	1012981	8.8	10.4	12.5	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743555.4	1012881	7.5	10.3	12.2	10.2	A945P/A378Q	0.98%	
10/25/1997	SEAD-12	5	Regional	743559.8	1012781	8	10.4	12.8	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743564.1	1012681	8.2	10.3	11.8	10.2	A945P/A378Q	0.98%	
10/25/1997	SEAD-12	5	Regional	743568.5	1012582	8.5	10.5	13.2	10.2	A945P/A378Q	2.94%	
10/25/1997	SEAD-12	5	Regional	743572.9	1012482	8	10.3	12.5	10.2	A945P/A378Q	0.98%	
10/25/1997	SEAD-12	5	Regional	743577.3	1012382	7.5	10.8	12.8	10.2	A945P/A378Q	5.88%	
10/25/1997	SEAD-12	5	Regional	743581.6	1012282	8.2	10.2	11.8	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743586	1012182	8.8	10.4	12.5	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743590.4	1012082	8	10.7	13	10.2	A945P/A378Q	4.90%	
10/25/1997	SEAD-12	5	Regional	743594.8	1011982	8.5	11	14.2	10.2	A945P/A378Q	7.84%	
10/25/1997	SEAD-12	5	Regional	743599.1	1011882	9.6	11.7	14.5	10.2	A945P/A378Q	14.71%	
10/25/1997	SEAD-12	5	Regional	743603.5	1011782	8.2	11.1	13.5	10.2	A945P/A378Q	8.82%	
10/25/1997	SEAD-12	5	Regional	743607.9	1011682	8.8	10.4	12	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743580.7	1013445	7	10.6	12	10	A984P/A398Q	6.00%	
10/25/1997	SEAD-12	5	Regional	743583.4	1013383	9	10.9	13	10	A984P/A398Q	9.00%	
10/25/1997	SEAD-12	5	Regional	743587.8	1013283	9	10.6	12.5	10	A984P/A398Q	6.00%	
10/25/1997	SEAD-12	5	Regional	743592.2	1013183	8.5	10.7	12.5	10	A984P/A398Q	7.00%	
10/25/1997	SEAD-12	5	Regional	743596.6	1013083	8.5	10.5	12.5	10	A984P/A398Q	5.00%	
10/25/1997	SEAD-12	5	Regional	743600.9	1012983	8.5	10.2	11.5	10	A984P/A398Q	2.00%	
10/25/1997	SEAD-12	5	Regional	743605.3	1012883	8	10	11.5	10	A984P/A398Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743609.7	1012784	8	10.2	11.5	10	A984P/A398Q	2.00%	
10/25/1997	SEAD-12	5	Regional	743614.1	1012684	9	10.1	11.5	10	A984P/A398Q	1.00%	
10/25/1997	SEAD-12	5	Regional	743618.4	1012584	8.5	10.1	12	10	A984P/A398Q	1.00%	
10/25/1997	SEAD-12	5	Regional	743622.8	1012484	8.5	10	12	10	A984P/A398Q	0.00%	

Appendix F  
 Class III Areas Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/25/1997	SEAD-12	5	Regional	743627.2	1012384	8.5	10.4	12.2	10	A984P/A398Q	4.00%	
10/25/1997	SEAD-12	5	Regional	743631.6	1012284	9	10.3	12	10	A984P/A398Q	3.00%	
10/25/1997	SEAD-12	5	Regional	743635.9	1012184	8.5	10.3	12.5	10	A984P/A398Q	3.00%	
10/25/1997	SEAD-12	5	Regional	743640.3	1012084	8.5	10.9	12.5	10	A984P/A398Q	9.00%	Old RR Bed - 495'
10/25/1997	SEAD-12	5	Regional	743644.7	1011984	8.5	10.5	12	10	A984P/A398Q	5.00%	300'-350' - 11500 Scaler
10/25/1997	SEAD-12	5	Regional	743649.1	1011884	10	12.3	13.5	10	A984P/A398Q	23.00%	
10/25/1997	SEAD-12	5	Regional	743653.4	1011785	9.5	11.6	13	10	A984P/A398Q	16.00%	
10/25/1997	SEAD-12	5	Regional	743657.8	1011685	9	10.1	12	10	A984P/A398Q	1.00%	
10/25/1997	SEAD-12	5	Regional	743630.7	1013448	4.8	9.5	12.2	10.2	A945P/A378Q	-6.86%	
10/25/1997	SEAD-12	5	Regional	743633.4	1013385	8.8	10.2	12.5	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743637.8	1013285	7.8	10.4	11.8	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743642.1	1013185	8.2	10.4	12	10.2	A945P/A378Q	1.96%	
10/25/1997	SEAD-12	5	Regional	743646.5	1013085	8.5	10.2	12.8	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743650.9	1012986	8.2	10.1	12.5	10.2	A945P/A378Q	-0.98%	
10/25/1997	SEAD-12	5	Regional	743655.3	1012886	8	10.4	11.8	10.2	A945P/A378Q	1.86%	
10/25/1997	SEAD-12	5	Regional	743659.7	1012786	7.8	10.3	12.2	10.2	A945P/A378Q	0.98%	
10/25/1997	SEAD-12	5	Regional	743664.1	1012686	8.2	10.3	11.5	10.2	A945P/A378Q	0.88%	
10/25/1997	SEAD-12	5	Regional	743668.4	1012586	8	10.2	11.8	10.2	A945P/A378Q	0.00%	
10/25/1997	SEAD-12	5	Regional	743672.8	1012486	8.5	9.9	12.5	10.2	A945P/A378Q	-2.94%	
10/25/1997	SEAD-12	5	Regional	743677.2	1012386	8	9.9	11.8	10.2	A945P/A378Q	-2.94%	
10/25/1997	SEAD-12	5	Regional	743681.6	1012286	7.8	10	12.2	10.2	A945P/A378Q	-1.96%	
10/25/1997	SEAD-12	5	Regional	743685.9	1012186	8.5	11	13.8	10.2	A945P/A378Q	7.84%	
10/25/1997	SEAD-12	5	Regional	743690.3	1012086	8	10.7	13.2	10.2	A945P/A378Q	4.90%	
10/25/1997	SEAD-12	5	Regional	743694.7	1011987	8.2	11.2	15.5	10.2	A945P/A378Q	9.80%	at 340' 300-350-12300 ave
10/25/1997	SEAD-12	5	Regional	743699.1	1011887	9.8	12.1	14	10.2	A945P/A378Q	18.63%	
10/25/1997	SEAD-12	5	Regional	743703.4	1011787	8.5	10.6	13.8	10.2	A945P/A378Q	3.92%	
10/25/1997	SEAD-12	5	Regional	743707.8	1011687	7.8	10.5	13.2	10.2	A945P/A378Q	2.94%	
10/26/1997	SEAD-12	5	Regional	743680.6	1013450	7	10.95	12.5	9.9	A984P/A398Q	10.61%	
10/26/1997	SEAD-12	5	Regional	743683.4	1013387	9	10.6	12.5	9.9	A984P/A398Q	7.07%	
10/26/1997	SEAD-12	5	Regional	743687.8	1013287	8.5	10.3	12	9.9	A984P/A398Q	4.04%	
10/28/1997	SEAD-12	5	Regional	743692.1	1013188	8.5	10.3	12.5	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743696.5	1013088	8	10.2	12	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743700.9	1012988	8.5	10.2	12	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743705.3	1012888	8	10.2	11.5	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743709.6	1012788	8	10.1	11.5	9.9	A984P/A398Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743714	1012688	8.5	10.2	11.5	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743718.4	1012588	8.5	10.2	12	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743722.8	1012488	8	10.1	11.5	9.9	A984P/A398Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743727.1	1012388	8.5	10.3	11.5	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743731.5	1012288	8	10.4	12	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743735.9	1012189	8.5	11.3	13	9.9	A984P/A398Q	14.14%	Shale Visible
10/26/1997	SEAD-12	5	Regional	743740.3	1012089	9	10.5	13.5	9.9	A984P/A398Q	6.06%	Old RR Bed - 480'-500'
10/26/1997	SEAD-12	5	Regional	743744.6	1011989	10	11.8	13.8	9.9	A984P/A398Q	19.19%	
10/26/1997	SEAD-12	5	Regional	743749	1011889	10.5	12.4	14	9.9	A984P/A398Q	25.25%	
10/26/1997	SEAD-12	5	Regional	743753.4	1011789	8	10.3	12	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743757.8	1011689	9	10.9	13	9.9	A984P/A398Q	10.10%	
10/26/1997	SEAD-12	5	Regional	743730.6	1013452	5.8	9.7	13.8	9.9	A945P/A378Q	-2.02%	
10/26/1997	SEAD-12	5	Regional	743733.3	1013390	7.8	10.4	13.2	9.9	A945P/A378Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743737.7	1013290	8.2	10.1	12.8	9.9	A945P/A378Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743742.1	1013190	7.5	10.2	12.2	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743746.4	1013090	6.8	10.5	13	9.9	A945P/A378Q	6.06%	
10/26/1997	SEAD-12	5	Regional	743750.8	1012990	8.2	10.3	13.8	9.9	A945P/A378Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743755.2	1012890	7.5	10.2	13.2	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743759.6	1012790	8	10.2	12.5	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743763.9	1012690	7.8	10.2	11.8	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743768.3	1012590	8	10.1	12	9.9	A945P/A378Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743772.7	1012490	8.5	10	13.2	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743777.1	1012391	7.2	10	11.8	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743781.4	1012291	8	10	12.5	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743785.8	1012191	7.8	10.6	13.8	9.9	A945P/A378Q	7.07%	500' - Center of RR Cut
10/26/1997	SEAD-12	5	Regional	743790.2	1012091	8.8	11.1	14.2	9.9	A945P/A378Q	12.12%	
10/26/1997	SEAD-12	5	Regional	743794.6	1011991	9	11.7	14.8	9.9	A945P/A378Q	18.18%	325'-350' - 12600 cpm ave
10/26/1997	SEAD-12	5	Regional	743798.9	1011891	8.5	11.7	15.2	9.9	A945P/A378Q	18.18%	225'-300' - 12200 cpm ave
10/26/1997	SEAD-12	5	Regional	743803.3	1011791	7.8	10.3	12.8	9.9	A945P/A378Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743807.7	1011691	8	10.2	12.5	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743812.1	1011591	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743816.5	1011491	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743820.9	1011391	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743825.3	1011291	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743829.7	1011191	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743834.1	1011091	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743838.5	1010991	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743842.9	1010891	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743847.3	1010791	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743851.7	1010691	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743856.1	1010591	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743860.5	1010491	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743864.9	1010391	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743869.3	1010291	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743873.7	1010191	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743878.1	1010091	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743882.5	1009991	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743886.9	1009891	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743891.3	1009791	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743895.7	1009691	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743900.1	1009591	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743904.5	1009491	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743908.9	1009391	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743913.3	1009291	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743917.7	1009191	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743922.1	1009091	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743926.5	1008991	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743930.9	1008891	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743935.3	1008791	7	10.4	12.2	9.9	A984P/A398Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743939.7	1008691	7	10.4	12.2	9.9			

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/26/1997	SEAD-12	5	Regional	743855.1	1012894	8.8	10.5	11.8	9.9	A945P/A378Q	6.06%	
10/26/1997	SEAD-12	5	Regional	743859.4	1012795	8.5	10.5	11.5	9.9	A945P/A378Q	6.06%	
10/26/1997	SEAD-12	5	Regional	743863.8	1012695	8.2	10.5	12	9.9	A945P/A378Q	6.06%	
10/26/1997	SEAD-12	5	Regional	743868.2	1012595	8	10.4	11.5	9.9	A945P/A378Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743872.6	1012495	8.2	10.1	12.5	9.9	A945P/A378Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743877	1012395	7.8	10	11.8	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743881.4	1012295	8	10	12.2	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743885.8	1012195	7.5	10.1	11.8	9.9	A945P/A378Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743890.1	1012095	8.8	10.5	13.2	9.9	A945P/A378Q	6.06%	
10/26/1997	SEAD-12	5	Regional	743894.5	1011995	8	10.6	13.5	9.9	A945P/A378Q	7.07%	
10/26/1997	SEAD-12	5	Regional	743898.9	1011895	8.5	10.9	13	9.9	A945P/A378Q	10.10%	
10/26/1997	SEAD-12	5	Regional	743903.3	1011795	8.2	10.2	12.2	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743907.6	1011696	7.2	10.2	11.8	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743880.4	1013459	7	8.9	11	9.9	A984P/A398Q	-10.10%	
10/26/1997	SEAD-12	5	Regional	743883.2	1013396	8.5	10	12	9.9	A984P/A398Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743887.6	1013296	8.5	9.8	11.5	9.9	A984P/A398Q	-1.01%	
10/26/1997	SEAD-12	5	Regional	743891.9	1013196	8	10.1	11.5	9.9	A984P/A398Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743896.3	1013096	8.5	10.3	11.5	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743900.7	1012997	8	10.3	12	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743905.1	1012897	8	10.3	11.5	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743909.4	1012797	8	10.2	12	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743913.8	1012697	8	10	11.8	9.9	A984P/A398Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743918.2	1012597	8	10.1	11.5	9.9	A984P/A398Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743922.6	1012497	8.5	10.2	12	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743926.9	1012397	8	9.8	11.5	9.9	A984P/A398Q	-1.01%	
10/26/1997	SEAD-12	5	Regional	743931.3	1012297	8.5	10.2	11.5	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743935.7	1012197	8.5	10.3	12	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743940.1	1012097	8.5	10.6	13	9.9	A984P/A398Q	7.07%	
10/26/1997	SEAD-12	5	Regional	743944.4	1011997	9	11.6	14	9.9	A984P/A398Q	17.17%	Old RR Bed 12500 cpm - 300'-350'
10/26/1997	SEAD-12	5	Regional	743948.8	1011898	10	12.4	14	9.9	A984P/A398Q	25.25%	
10/26/1997	SEAD-12	5	Regional	743953.2	1011798	9	11.3	13	9.9	A984P/A398Q	14.14%	
10/26/1997	SEAD-12	5	Regional	743957.6	1011698	8	10.2	12	9.9	A984P/A398Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743930.4	1013461	4.8	10.6	13.2	9.9	A945P/A378Q	7.07%	
10/26/1997	SEAD-12	5	Regional	743933.1	1013398	8.2	10.8	12.5	9.9	A945P/A378Q	9.09%	
10/26/1997	SEAD-12	5	Regional	743937.5	1013298	7.5	10.3	12.2	9.9	A945P/A378Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743941.9	1013199	8.5	10.3	12.5	9.9	A945P/A378Q	4.04%	
10/26/1997	SEAD-12	5	Regional	743946.3	1013099	8	10.2	11.8	9.9	A945P/A378Q	3.03%	
10/26/1997	SEAD-12	5	Regional	743950.6	1012999	8.2	10.5	13.2	9.9	A945P/A378Q	6.06%	
10/26/1997	SEAD-12	5	Regional	743955	1012899	8.5	11.5	14.2	9.9	A945P/A378Q	16.16%	
10/26/1997	SEAD-12	5	Regional	743959.4	1012799	9.5	12.1	15	9.9	A945P/A378Q	22.22%	
10/26/1997	SEAD-12	5	Regional	743963.8	1012699	8.2	11.4	12.8	9.9	A945P/A378Q	15.15%	
10/26/1997	SEAD-12	5	Regional	743968.1	1012599	7.8	10.4	12.2	9.9	A945P/A378Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743972.5	1012499	8.2	10.1	11.8	9.9	A945P/A378Q	2.02%	
10/26/1997	SEAD-12	5	Regional	743976.9	1012399	7.2	10	11.5	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743981.3	1012299	7.8	10	12.2	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	743985.6	1012199	7.2	10.4	13.2	9.9	A945P/A378Q	5.05%	
10/26/1997	SEAD-12	5	Regional	743990	1012100	8.2	10.9	14.5	9.9	A945P/A378Q	10.10%	
10/26/1997	SEAD-12	5	Regional	743994.4	1012000	9.2	11.4	13.8	9.9	A945P/A378Q	15.15%	
10/26/1997	SEAD-12	5	Regional	743998.8	1011900	8.8	11.6	13.2	9.9	A945P/A378Q	17.17%	
10/26/1997	SEAD-12	5	Regional	744003.1	1011800	8	10.8	13	9.9	A945P/A378Q	9.09%	
10/26/1997	SEAD-12	5	Regional	744007.5	1011700	7.8	9.8	12.2	9.9	A945P/A378Q	-1.01%	
10/26/1997	SEAD-12	5	Regional	743980.3	1013463	7	10.8	14	9.9	A984P/A398Q	9.09%	
10/26/1997	SEAD-12	5	Regional	743983.1	1013401	10	11.8	14.5	9.9	A984P/A398Q	19.19%	
10/26/1997	SEAD-12	5	Regional	743987.4	1013301	9	11.2	13	9.9	A984P/A398Q	13.13%	
10/26/1997	SEAD-12	5	Regional	743991.8	1013201	9	11	13	9.9	A984P/A398Q	11.11%	
10/26/1997	SEAD-12	5	Regional	743996.2	1013101	8.5	10.9	12	9.9	A984P/A398Q	10.10%	
10/26/1997	SEAD-12	5	Regional	744000.6	1013001	9.5	10.9	13	9.9	A984P/A398Q	10.10%	
10/26/1997	SEAD-12	5	Regional	744004.9	1012901	8.5	10.7	12.5	9.9	A984P/A398Q	8.08%	
10/26/1997	SEAD-12	5	Regional	744009.3	1012801	10.5	12.4	14	9.9	A984P/A398Q	25.25%	
10/26/1997	SEAD-12	5	Regional	744013.7	1012701	9.5	12.2	14	9.9	A984P/A398Q	23.23%	
10/26/1997	SEAD-12	5	Regional	744018.1	1012601	9	10.7	12.5	9.9	A984P/A398Q	8.08%	
10/26/1997	SEAD-12	5	Regional	744022.4	1012501	9	10.7	12.5	9.9	A984P/A398Q	8.08%	
10/26/1997	SEAD-12	5	Regional	744026.8	1012401	8.5	10.3	11.5	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	744031.2	1012302	10.5	11.4	13.5	9.9	A984P/A398Q	15.15%	
10/26/1997	SEAD-12	5	Regional	744035.6	1012202	10	11.5	13.5	9.9	A984P/A398Q	16.16%	
10/26/1997	SEAD-12	5	Regional	744039.9	1012102	10	11.5	13.5	9.9	A984P/A398Q	16.16%	
10/26/1997	SEAD-12	5	Regional	744044.3	1012002	9.5	11.5	13	9.9	A984P/A398Q	16.16%	
10/26/1997	SEAD-12	5	Regional	744048.7	1011902	9	11	12.5	9.9	A984P/A398Q	11.11%	
10/26/1997	SEAD-12	5	Regional	744053.1	1011802	8.5	10.3	11.5	9.9	A984P/A398Q	4.04%	
10/26/1997	SEAD-12	5	Regional	744057.4	1011702	8.5	9.8	11.2	9.9	A984P/A398Q	-1.01%	
10/26/1997	SEAD-12	5	Regional	744030.3	1013465	5.8	11.8	13.8	9.9	A945P/A378Q	19.19%	
10/26/1997	SEAD-12	5	Regional	744033	1013403	9	11.2	13.5	9.9	A945P/A378Q	13.13%	
10/26/1997	SEAD-12	5	Regional	744037.4	1013303	8.5	10.8	12.2	9.9	A945P/A378Q	9.09%	
10/26/1997	SEAD-12	5	Regional	744041.8	1013203	7.8	10.8	13.8	9.9	A945P/A378Q	9.09%	
10/26/1997	SEAD-12	5	Regional	744046.1	1013103	6.8	10.6	12.8	9.9	A945P/A378Q	7.07%	
10/26/1997	SEAD-12	5	Regional	744050.5	1013003	8	9.9	12.2	9.9	A945P/A378Q	0.00%	
10/26/1997	SEAD-12	5	Regional	744054.9	1012903	7.2	10.1	11.8	9.9	A945P/A378Q	2.02%	
10/26/1997	SEAD-12	5	Regional	744059.3	1012803	7.8	10.6	12.5	9.9	A945P/A378Q	7.07%	
10/26/1997	SEAD-12	5	Regional	744063.6	1012703	8	10.5	13	9.9	A945P/A378Q	6.06%	
10/26/1997	SEAD-12	5	Regional	744068	1012603	7.8	10.6	12.5	9.9	A945P/A378Q	7.07%	
10/26/1997	SEAD-12	5	Regional	744072.4	1012504	8.5	10.8	13.8	9.9	A945P/A378Q	9.09%	
10/26/1997	SEAD-12	5	Regional	744076.8	1012404	8.2	10	13	9.9	A945P/A378Q	1.01%	
10/26/1997	SEAD-12	5	Regional	744081.1	1012304	7	10.7	12	9.9	A945P/A378Q	8.08%	
10/26/1997	SEAD-12	5	Regional	744085.5	1012204	7.5	10.6	12.8	9.9	A945P/A378Q	7.07%	
10/26/1997	SEAD-12	5	Regional	744089.9	1012104	8.5	10.8	13.8	9.9	A945P/A378Q	9.09%	
10/26/1997	SEAD-12	5	Regional	744094.3	1012004	7.2	10.6	12.2	9.9	A945P/A378Q	7.07%	
10/26/1997	SEAD-12	5	Regional	744098.7	1011904	8	10.1	12.5	9.9	A945P/A378Q	2.02%	
10/26/1997	SEAD-12	5	Regional	744103.1	1011804	8.2	9.7	11.8	9.9	A945P/A378Q	-2.02%	
10/26/1997	SEAD-12	5	Regional	744107.4	1011704	7.8	10.6	12.8	9.9	A945P/A378Q	7.07%	
10/27/1997	SEAD-12	5	Regional	744080.3	1013467	7	10.4	13	9.7	A984P/A398Q	7.22%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
						(kcpm)			(s/n)			
10/27/1997	SEAD-12	5	Regional	744083	1013405	8.5	10.3	11.5	9.7	A984P/A398Q	6.19%	
10/27/1997	SEAD-12	5	Regional	744087.4	1013305	8.5	10	12	9.7	A984P/A398Q	3.09%	
10/27/1997	SEAD-12	5	Regional	744091.8	1013205	8	9.5	11.5	9.7	A984P/A398Q	-2.06%	
10/27/1997	SEAD-12	5	Regional	744096.1	1013105	8	9.4	11.5	9.7	A984P/A398Q	-3.09%	
10/27/1997	SEAD-12	5	Regional	744100.5	1013005	7.8	9.2	10.5	9.7	A984P/A398Q	-5.15%	
10/27/1997	SEAD-12	5	Regional	744104.9	1012905	7.5	9.7	12	9.7	A984P/A398Q	0.00%	
10/27/1997	SEAD-12	5	Regional	744109.3	1012805	8.5	10.1	12	9.7	A984P/A398Q	4.12%	
10/27/1997	SEAD-12	5	Regional	744113.6	1012706	8.5	10.1	12	9.7	A984P/A398Q	4.12%	
10/27/1997	SEAD-12	5	Regional	744118	1012606	8.5	9.8	11.5	9.7	A984P/A398Q	1.03%	
10/27/1997	SEAD-12	5	Regional	744122.4	1012506	8.5	9.8	12	9.7	A984P/A398Q	1.03%	
10/27/1997	SEAD-12	5	Regional	744126.8	1012406	8.5	9.6	11.5	9.7	A984P/A398Q	-1.03%	
10/27/1997	SEAD-12	5	Regional	744131.1	1012306	8	10	12	9.7	A984P/A398Q	3.09%	
10/27/1997	SEAD-12	5	Regional	744135.5	1012206	8	10.3	14	9.7	A984P/A398Q	6.19%	510' - Shale; 14000 cpm peak
10/27/1997	SEAD-12	5	Regional	744139.9	1012106	8	9.9	12	9.7	A984P/A398Q	2.06%	
10/27/1997	SEAD-12	5	Regional	744144.3	1012006	9	11.1	13	9.7	A984P/A398Q	14.43%	
10/27/1997	SEAD-12	5	Regional	744148.6	1011906	9	10.3	12.5	9.7	A984P/A398Q	6.19%	
10/27/1997	SEAD-12	5	Regional	744153	1011806	7.8	9.5	11.5	9.7	A984P/A398Q	-2.06%	
10/27/1997	SEAD-12	5	Regional	744157.4	1011707	8	9.6	11.5	9.7	A984P/A398Q	-1.03%	
10/27/1997	SEAD-12	5	Regional	744130.2	1013470	5.2	9.9	12.4	9.8	A945P/A378Q	1.02%	
10/27/1997	SEAD-12	5	Regional	744132.9	1013407	7.2	10.3	12.8	9.8	A945P/A378Q	5.10%	
10/27/1997	SEAD-12	5	Regional	744137.3	1013307	7.8	9.1	12.2	9.8	A945P/A378Q	-7.14%	
10/27/1997	SEAD-12	5	Regional	744141.7	1013207	7.2	9.1	11.8	9.8	A945P/A378Q	-7.14%	
10/27/1997	SEAD-12	5	Regional	744146.1	1013107	7.8	9.3	12	9.8	A945P/A378Q	-5.10%	
10/27/1997	SEAD-12	5	Regional	744150.4	1013007	7.8	9.4	11.5	9.8	A945P/A378Q	-4.08%	
10/27/1997	SEAD-12	5	Regional	744154.8	1012908	7.2	9.5	12	9.8	A945P/A378Q	-3.06%	
10/27/1997	SEAD-12	5	Regional	744159.2	1012808	6.8	9.6	11.2	9.8	A945P/A378Q	-2.04%	
10/27/1997	SEAD-12	5	Regional	744163.6	1012708	7.8	9.6	11.5	9.8	A945P/A378Q	-2.04%	
10/27/1997	SEAD-12	5	Regional	744167.9	1012608	7.5	9.8	11	9.8	A945P/A378Q	0.00%	
10/27/1997	SEAD-12	5	Regional	744172.3	1012508	7.2	9.5	11.5	9.8	A945P/A378Q	-3.06%	
10/27/1997	SEAD-12	5	Regional	744176.7	1012408	7.8	10.6	12.8	9.8	A945P/A378Q	8.16%	
10/27/1997	SEAD-12	5	Regional	744181.1	1012308	8	9.1	12	9.8	A945P/A378Q	-7.14%	
10/27/1997	SEAD-12	5	Regional	744185.4	1012208	8.2	10.1	11.2	9.8	A945P/A378Q	3.06%	
10/27/1997	SEAD-12	5	Regional	744189.8	1012108	7.8	10.6	12.8	9.8	A945P/A378Q	8.16%	
10/27/1997	SEAD-12	5	Regional	744194.2	1012008	7.2	11.4	14.2	9.8	A945P/A378Q	16.33%	
10/27/1997	SEAD-12	5	Regional	744198.6	1011909	8	10.4	13.8	9.8	A945P/A378Q	6.12%	
10/27/1997	SEAD-12	5	Regional	744202.9	1011809	7.5	9.1	11.8	9.8	A945P/A378Q	-7.14%	
10/27/1997	SEAD-12	5	Regional	744207.3	1011709	7.8	9.3	12	9.8	A945P/A378Q	-5.10%	
10/27/1997	SEAD-12	5	Regional	744180.1	1013472	7	10.6	13	9.7	A984P/A398Q	9.28%	
10/27/1997	SEAD-12	5	Regional	744182.9	1013409	8	10	12	9.7	A984P/A398Q	3.09%	
10/27/1997	SEAD-12	5	Regional	744187.3	1013309	7.5	8.9	10.5	9.7	A984P/A398Q	-8.25%	
10/27/1997	SEAD-12	5	Regional	744191.6	1013209	7	8.8	10	9.7	A984P/A398Q	-9.28%	
10/27/1997	SEAD-12	5	Regional	744196	1013110	7	8.9	10	9.7	A984P/A398Q	-8.25%	
10/27/1997	SEAD-12	5	Regional	744200.4	1013010	7.5	9.1	11	9.7	A984P/A398Q	-6.19%	
10/27/1997	SEAD-12	5	Regional	744204.8	1012910	7.5	9.4	10.5	9.7	A984P/A398Q	-3.09%	
10/27/1997	SEAD-12	5	Regional	744209.1	1012810	7.5	9.6	12	9.7	A984P/A398Q	-1.03%	
10/27/1997	SEAD-12	5	Regional	744213.5	1012710	8	9.7	11	9.7	A984P/A398Q	0.00%	
10/27/1997	SEAD-12	5	Regional	744217.9	1012610	8	9.6	11	9.7	A984P/A398Q	-1.03%	
10/27/1997	SEAD-12	5	Regional	744222.3	1012510	7.5	9.7	11	9.7	A984P/A398Q	0.00%	
10/27/1997	SEAD-12	5	Regional	744226.6	1012410	8	9.4	11.5	9.7	A984P/A398Q	-3.09%	
10/27/1997	SEAD-12	5	Regional	744231	1012310	8	9.9	12.5	9.7	A984P/A398Q	2.06%	
10/27/1997	SEAD-12	5	Regional	744235.4	1012210	8	10.4	13	9.7	A984P/A398Q	7.22%	
10/27/1997	SEAD-12	5	Regional	744239.8	1012111	8	10.4	12.5	9.7	A984P/A398Q	7.22%	Old RR Bed - 490'
10/27/1997	SEAD-12	5	Regional	744244.1	1012011	8	10	12	9.7	A984P/A398Q	3.09%	
10/27/1997	SEAD-12	5	Regional	744248.5	1011911	8.5	10	12	9.7	A984P/A398Q	3.09%	
10/27/1997	SEAD-12	5	Regional	744252.9	1011811	8	9.9	12	9.7	A984P/A398Q	2.06%	
10/27/1997	SEAD-12	5	Regional	744257.3	1011711	8	9.6	11.5	9.7	A984P/A398Q	-1.03%	
10/27/1997	SEAD-12	5	Regional	744230.1	1013474	5.5	9.6	12.8	9.8	A945P/A378Q	-2.04%	
10/27/1997	SEAD-12	5	Regional	744232.8	1013411	7.2	9.9	13.2	9.8	A945P/A378Q	1.02%	
10/27/1997	SEAD-12	5	Regional	744237.2	1013312	6.8	9.3	10.5	9.8	A945P/A378Q	-5.10%	
10/27/1997	SEAD-12	5	Regional	744241.6	1013212	7.2	9.4	11	9.8	A945P/A378Q	-4.08%	
10/27/1997	SEAD-12	5	Regional	744241.6	1013212	7.5	9.4	11.5	9.8	A945P/A378Q	-4.08%	
10/27/1997	SEAD-12	5	Regional	744245.9	1013112	7.5	9.4	11.5	9.8	A945P/A378Q	-4.08%	
10/27/1997	SEAD-12	5	Regional	744250.3	1013012	8.2	9.5	12	9.8	A945P/A378Q	-3.06%	
10/27/1997	SEAD-12	5	Regional	744254.7	1012912	7.8	10	12.8	9.8	A945P/A378Q	2.04%	
10/27/1997	SEAD-12	5	Regional	744259.1	1012812	8.5	11.3	13.2	9.8	A945P/A378Q	15.31%	
10/27/1997	SEAD-12	5	Regional	744263.4	1012712	7.8	10.9	14.2	9.8	A945P/A378Q	11.22%	
10/27/1997	SEAD-12	5	Regional	744267.8	1012612	7.5	9.5	11.5	9.8	A945P/A378Q	-3.06%	
10/27/1997	SEAD-12	5	Regional	744272.2	1012512	8	9.3	10.8	9.8	A945P/A378Q	-5.10%	
10/27/1997	SEAD-12	5	Regional	744276.6	1012412	7.5	9.5	11.8	9.8	A945P/A378Q	-3.06%	
10/27/1997	SEAD-12	5	Regional	744280.9	1012312	6.8	10.1	12.5	9.8	A945P/A378Q	3.06%	
10/27/1997	SEAD-12	5	Regional	744285.3	1012213	8	10.4	11.8	9.8	A945P/A378Q	6.12%	
10/27/1997	SEAD-12	5	Regional	744289.7	1012113	8.2	10.2	12.2	9.8	A945P/A378Q	4.08%	
10/27/1997	SEAD-12	5	Regional	744294.1	1012013	8.5	10.5	12.8	9.8	A945P/A378Q	7.14%	
10/27/1997	SEAD-12	5	Regional	744298.4	1011913	8	10	12.2	9.8	A945P/A378Q	2.04%	
10/27/1997	SEAD-12	5	Regional	744302.8	1011813	8.2	10.2	12.5	9.8	A945P/A378Q	4.08%	
10/27/1997	SEAD-12	5	Regional	744307.2	1011713	7.5	9.9	12	9.8	A945P/A378Q	1.02%	
10/28/1997	SEAD-12	5	Regional	744280.1	1013476	7	9.4	12	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744282.8	1013414	7.8	9.6	11.5	9.4	A984P/A398Q	2.13%	
10/28/1997	SEAD-12	5	Regional	744287.1	1013314	8	9.6	11	9.4	A984P/A398Q	2.13%	
10/28/1997	SEAD-12	5	Regional	744291.6	1013214	8	9.5	11	9.4	A984P/A398Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744295.9	1013114	8	9.4	11	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744300.3	1013014	7.8	9.1	10.5	9.4	A984P/A398Q	-3.19%	
10/28/1997	SEAD-12	5	Regional	744304.7	1012914	8	9.2	11	9.4	A984P/A398Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744309.1	1012814	8	10	12	9.4	A984P/A398Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744313.4	1012714	7.8	9.4	11	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744317.8	1012614	7.5	9.3	11	9.4	A984P/A398Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744322.2	1012514	8	9.7	11	9.4	A984P/A398Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744326.6	1012415	7.5	10.1	12.5	9.4	A984P/A398Q	7.45%	107000 cpm 700'-750'
10/28/1997	SEAD-12	5	Regional	744330.9	1012315	8	10.2	13	9.4	A984P/A398Q	8.51%	
10/28/1997	SEAD-12	5	Regional	744335.3	1012215	8.5	10	12.5	9.4	A984P/A398Q	6.38%	Old RR Bed - 500'



Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
10/28/1997	SEAD-12	5	Regional	744339.7	1012115	8.5	10.6	12.5	9.4	A984P/A398Q	12.77%	
10/28/1997	SEAD-12	5	Regional	744344.1	1012015	8.5	10.2	12.5	9.4	A984P/A398Q	8.51%	
10/28/1997	SEAD-12	5	Regional	744348.4	1011915	8.5	9.7	11	9.4	A984P/A398Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744352.8	1011815	8.5	10	12	9.4	A984P/A398Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744357.2	1011715	8	9.9	12	9.4	A984P/A398Q	5.32%	
10/28/1997	SEAD-12	5	Regional	744330	1013478	5.5	9.4	11.8	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744332.8	1013416	7.2	9.7	12.5	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744337.1	1013316	8	9.7	13.2	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744341.5	1013216	7.5	9.9	11.8	9.4	A945P/A378Q	5.32%	
10/28/1997	SEAD-12	5	Regional	744345.9	1013116	7.8	9.2	11.5	9.4	A945P/A378Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744350.3	1013016	6.8	9.2	12.5	9.4	A945P/A378Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744354.6	1012916	7.5	9.5	12.2	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744359	1012816	7.8	9.7	12.5	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744363.4	1012716	8	9.5	11.8	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744367.8	1012617	7.5	9.4	11.2	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744372.1	1012517	7.8	9.3	12	9.4	A945P/A378Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744376.5	1012417	8	9.7	13.2	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744380.9	1012317	8.5	10.1	12.8	9.4	A945P/A378Q	7.45%	
10/28/1997	SEAD-12	5	Regional	744385.3	1012217	8	10.5	13.5	9.4	A945P/A378Q	11.70%	
10/28/1997	SEAD-12	5	Regional	744389.6	1012117	8.8	10.4	12.5	9.4	A945P/A378Q	10.64%	
10/28/1997	SEAD-12	5	Regional	744394	1012017	7.5	10	11.8	9.4	A945P/A378Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744398.4	1011917	8.2	9.5	11.5	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744402.8	1011817	8	9.7	12	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744407.1	1011717	7.5	10.2	12.5	9.4	A945P/A378Q	8.51%	
10/28/1997	SEAD-12	5	Regional	744392.1	1013203	7	9	12	9.4	A984P/A398Q	-4.26%	Road - 1570'
10/28/1997	SEAD-12	5	Regional	744395.8	1013118	8	10	12	9.4	A984P/A398Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744400.2	1013018	8	9.2	11	9.4	A984P/A398Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744404.6	1012918	8	9.3	11	9.4	A984P/A398Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744408.9	1012819	8	9.4	11	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744413.3	1012719	8	9.1	10.5	9.4	A984P/A398Q	-3.19%	
10/28/1997	SEAD-12	5	Regional	744417.7	1012619	7.5	9.2	11	9.4	A984P/A398Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744422.1	1012519	7.8	9.1	10.5	9.4	A984P/A398Q	-3.19%	
10/28/1997	SEAD-12	5	Regional	744426.4	1012419	8	9.3	10.5	9.4	A984P/A398Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744430.8	1012319	8.5	9.4	11	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744435.2	1012219	8.5	9.7	12	9.4	A984P/A398Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744439.6	1012119	8.8	10.6	12	9.4	A984P/A398Q	12.77%	Old RR Bed - 500'
10/28/1997	SEAD-12	5	Regional	744443.9	1012019	8.5	9.6	11.5	9.4	A984P/A398Q	2.13%	
10/28/1997	SEAD-12	5	Regional	744448.3	1011919	8.5	9.7	11.5	9.4	A984P/A398Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744452.7	1011820	8.5	9.7	11	9.4	A984P/A398Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744457.1	1011720	8.5	9.8	11.5	9.4	A984P/A398Q	4.26%	
10/28/1997	SEAD-12	5	Regional	744459.6	1013033	5.2	9.8	10.8	9.4	A945P/A378Q	4.26%	
10/28/1997	SEAD-12	5	Regional	744454.5	1012921	7.8	9.4	11.2	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744458.9	1012821	7.5	9.3	12.2	9.4	A945P/A378Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744463.3	1012721	6.2	9.2	11.8	9.4	A945P/A378Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744467.6	1012621	7	9.2	10.2	9.4	A945P/A378Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744472	1012521	7.5	9.2	11	9.4	A945P/A378Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744476.4	1012421	7	9.1	10.8	9.4	A945P/A378Q	-3.19%	
10/28/1997	SEAD-12	5	Regional	744480.8	1012321	6.5	9.4	11.5	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744485.1	1012221	7.8	9.9	12	9.4	A945P/A378Q	5.32%	
10/28/1997	SEAD-12	5	Regional	744489.5	1012121	6.8	10	12.5	9.4	A945P/A378Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744493.9	1012022	7.2	9.6	11.8	9.4	A945P/A378Q	2.13%	
10/28/1997	SEAD-12	5	Regional	744498.3	1011922	6.2	9.7	11.5	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744502.6	1011822	8	9.5	12	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744507	1011722	8.8	10.2	12.8	9.4	A945P/A378Q	8.51%	Road
10/28/1997	SEAD-12	5	Regional	744505.3	1012903	6.5	9.1	12	9.4	A984P/A398Q	-3.19%	
10/28/1997	SEAD-12	5	Regional	744508.8	1012823	8	9.4	10.5	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744513.3	1012723	8	9.2	10.5	9.4	A984P/A398Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744517.6	1012623	8	9.3	11	9.4	A984P/A398Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744522	1012523	7.5	9.1	10.5	9.4	A984P/A398Q	-3.19%	
10/28/1997	SEAD-12	5	Regional	744526.4	1012423	8	9.2	10.5	9.4	A984P/A398Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744530.8	1012323	8	9.5	12	9.4	A984P/A398Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744535.1	1012224	8.5	10	12	9.4	A984P/A398Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744539.5	1012124	8.5	10.4	13	9.4	A984P/A398Q	10.64%	Old RR Bed = Max Reading
10/28/1997	SEAD-12	5	Regional	744543.9	1012024	8	9.4	11	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744548.3	1011924	8.5	9.4	11.5	9.4	A984P/A398Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744552.6	1011824	8	9.6	11.5	9.4	A984P/A398Q	2.13%	
10/28/1997	SEAD-12	5	Regional	744557	1011724	8	10.1	12	9.4	A984P/A398Q	7.45%	
10/28/1997	SEAD-12	5	Regional	744559.9	1012800	5.2	9.4	11.8	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744563.2	1012725	7.8	9.5	12.5	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744567.6	1012625	7.8	8.8	11.5	9.4	A945P/A378Q	-6.38%	
10/28/1997	SEAD-12	5	Regional	744571.9	1012525	6.5	9.1	10.8	9.4	A945P/A378Q	-3.19%	
10/28/1997	SEAD-12	5	Regional	744576.3	1012426	7.2	9.5	11.2	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744580.7	1012326	7.5	9.3	12	9.4	A945P/A378Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744585.1	1012226	8	10	11.8	9.4	A945P/A378Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744589.4	1012126	7.8	10	12.5	9.4	A945P/A378Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744593.8	1012026	7	9.9	11.5	9.4	A945P/A378Q	5.32%	
10/28/1997	SEAD-12	5	Regional	744598.2	1011926	8.5	9.7	12.8	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744602.6	1011826	8	9.5	11.8	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744606.9	1011726	7.2	10.3	12.5	9.4	A945P/A378Q	9.57%	
10/28/1997	SEAD-12	5	Regional	744613.8	1012712	7	9.5	11.5	9.4	A984P/A398Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744617.5	1012628	7	8.8	10	9.4	A984P/A398Q	-6.38%	
10/28/1997	SEAD-12	5	Regional	744621.9	1012528	8	9.2	10.5	9.4	A984P/A398Q	-2.13%	
10/28/1997	SEAD-12	5	Regional	744626.3	1012428	8	9.3	11	9.4	A984P/A398Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744630.6	1012328	8.5	9.6	11	9.4	A984P/A398Q	2.13%	
10/28/1997	SEAD-12	5	Regional	744635	1012228	9	9.8	11.5	9.4	A984P/A398Q	4.26%	
10/28/1997	SEAD-12	5	Regional	744639.4	1012128	8.5	9.9	12	9.4	A984P/A398Q	5.32%	
10/28/1997	SEAD-12	5	Regional	744643.8	1012028	8.5	10	12	9.4	A984P/A398Q	6.38%	
10/28/1997	SEAD-12	5	Regional	744648.1	1011928	8.5	9.6	11.5	9.4	A984P/A398Q	2.13%	
10/28/1997	SEAD-12	5	Regional	744652.5	1011828	8	9.8	11.5	9.4	A984P/A398Q	4.26%	
10/28/1997	SEAD-12	5	Regional	744656.9	1011728	8.5	10.1	12	9.4	A984P/A398Q	7.45%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
						(kcpm)			(s/n)			
10/28/1997	SEAD-12	5	Regional	744667.4	1012630	5.5	8.9	10.8	9.4	A945P/A378Q	-5.32%	
10/28/1997	SEAD-12	5	Regional	744671.8	1012530	6.8	9.5	11.8	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744676.2	1012430	7.5	9.3	10.5	9.4	A945P/A378Q	-1.06%	
10/28/1997	SEAD-12	5	Regional	744680.6	1012330	8	9.4	11.2	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744684.9	1012230	7.2	9.7	11.8	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744689.3	1012130	8	9.7	12.5	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744693.7	1012030	7.5	9.5	11.5	9.4	A945P/A378Q	1.06%	
10/28/1997	SEAD-12	5	Regional	744698.1	1011930	7.8	9.4	10.8	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744702.4	1011830	7.2	9.4	10.2	9.4	A945P/A378Q	0.00%	
10/28/1997	SEAD-12	5	Regional	744706.8	1011731	8	9.7	11.2	9.4	A945P/A378Q	3.19%	
10/28/1997	SEAD-12	5	Regional	744719.1	1012592	7	8.9	10.5	9.8	A984P/A398Q	-9.18%	Road
10/28/1997	SEAD-12	5	Regional	744721.8	1012532	7	9.1	10.5	9.8	A984P/A398Q	-7.14%	
10/29/1997	SEAD-12	5	Regional	744726.1	1012432	8	9.3	11.5	9.8	A984P/A398Q	-5.10%	
10/29/1997	SEAD-12	5	Regional	744730.5	1012332	8	9.5	11.5	9.8	A984P/A398Q	-3.06%	
10/29/1997	SEAD-12	5	Regional	744734.9	1012232	8.5	10.1	12	9.8	A984P/A398Q	3.06%	
10/29/1997	SEAD-12	5	Regional	744739.3	1012132	8	9.2	12	9.8	A984P/A398Q	-6.12%	
10/29/1997	SEAD-12	5	Regional	744743.7	1012032	8.5	10	12	9.8	A984P/A398Q	2.04%	
10/29/1997	SEAD-12	5	Regional	744748.1	1011933	8	9.6	11.5	9.8	A984P/A398Q	-2.04%	
10/29/1997	SEAD-12	5	Regional	744752.4	1011833	8.5	9.5	11.5	9.8	A984P/A398Q	-3.06%	
10/29/1997	SEAD-12	5	Regional	744756.8	1011733	8.5	10.2	12	9.8	A984P/A398Q	4.08%	
10/29/1997	SEAD-12	5	Regional	744773.4	1012497	4.8	7	11.2	9.7	A945P/A378Q	-27.84%	805'-825' - Gravel Shoulder of Road
10/29/1997	SEAD-12	5	Regional	744776.1	1012434	6.8	9	12.2	9.7	A945P/A378Q	-7.22%	
10/29/1997	SEAD-12	5	Regional	744780.5	1012334	7.8	9	11.5	9.7	A945P/A378Q	-7.22%	
10/29/1997	SEAD-12	5	Regional	744784.9	1012234	7.2	9.5	12.5	9.7	A945P/A378Q	-2.06%	
10/29/1997	SEAD-12	5	Regional	744789.3	1012135	6.5	9.5	12.8	9.7	A945P/A378Q	-2.06%	
10/29/1997	SEAD-12	5	Regional	744793.6	1012035	7.8	9.6	12.2	9.7	A945P/A378Q	-1.03%	
10/29/1997	SEAD-12	5	Regional	744798	1011935	8.2	9.4	11.8	9.7	A945P/A378Q	-3.09%	
10/29/1997	SEAD-12	5	Regional	744802.4	1011835	7.5	9.4	11	9.7	A945P/A378Q	-3.09%	
10/29/1997	SEAD-12	5	Regional	744806.8	1011735	8	10.1	11.8	9.7	A945P/A378Q	4.12%	
10/29/1997	SEAD-12	5	Regional	744830.4	1012337	6.5	9.1	11	9.8	A984P/A398Q	-7.14%	
10/29/1997	SEAD-12	5	Regional	744834.8	1012237	8	9.3	10.5	9.8	A984P/A398Q	-5.10%	
10/29/1997	SEAD-12	5	Regional	744839.2	1012137	7.5	9.4	12	9.8	A984P/A398Q	-4.08%	
10/29/1997	SEAD-12	5	Regional	744843.6	1012037	8	9.9	12	9.8	A984P/A398Q	1.02%	
10/29/1997	SEAD-12	5	Regional	744847.9	1011937	8	9.2	11	9.8	A984P/A398Q	-6.12%	
10/29/1997	SEAD-12	5	Regional	744852.3	1011837	7.8	9.3	11.2	9.8	A984P/A398Q	-5.10%	
10/29/1997	SEAD-12	5	Regional	744856.7	1011737	8	9.4	12.5	9.8	A984P/A398Q	-4.08%	
10/29/1997	SEAD-12	5	Regional	744881.6	1012311	5.2	9.2	12.2	9.7	A945P/A378Q	-5.15%	
10/29/1997	SEAD-12	5	Regional	744884.8	1012239	7.2	9.5	11.8	9.7	A945P/A378Q	-2.06%	
10/29/1997	SEAD-12	5	Regional	744889.1	1012139	7.8	9	11.2	9.7	A945P/A378Q	-7.22%	
10/29/1997	SEAD-12	5	Regional	744893.5	1012039	6.8	9.7	12.2	9.7	A945P/A378Q	0.00%	
10/29/1997	SEAD-12	5	Regional	744897.9	1011939	7	9.3	11.5	9.7	A945P/A378Q	-4.12%	
10/29/1997	SEAD-12	5	Regional	744902.3	1011839	7.5	9.2	10.8	9.7	A945P/A378Q	-5.15%	
10/29/1997	SEAD-12	5	Regional	744906.6	1011739	8	9.7	11.8	9.7	A945P/A378Q	0.00%	
11/5/1997	SEAD-12	5	Regional	744936	1012211	6.5	9.5	12	9.5	A984P/A398Q	0.00%	Road
11/5/1997	SEAD-12	5	Regional	744939.1	1012141	8	9.8	11.5	9.5	A984P/A398Q	3.16%	
11/5/1997	SEAD-12	5	Regional	744943.4	1012041	7	9.2	10.5	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	5	Regional	744947.8	1011941	8	9.1	10.5	9.5	A984P/A398Q	-4.21%	
11/5/1997	SEAD-12	5	Regional	744952.3	1011841	7.5	9.4	11.5	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	5	Regional	744956.6	1011742	8.5	10	12	9.5	A984P/A398Q	5.26%	
11/5/1997	SEAD-12	5	Regional	744989.6	1012131	5.5	9.7	11.5	9.3	A945P/A398Q	4.30%	465'-500' Pavement
11/5/1997	SEAD-12	5	Regional	744993.4	1012043	6.8	9.5	11.8	9.3	A945P/A398Q	2.15%	
11/5/1997	SEAD-12	5	Regional	744997.8	1011944	7	8.9	11	9.3	A945P/A398Q	-4.30%	
11/5/1997	SEAD-12	5	Regional	745002.2	1011844	6.2	9.1	10.8	9.3	A945P/A398Q	-2.15%	
11/5/1997	SEAD-12	5	Regional	745006.6	1011744	6.8	9.4	11.5	9.3	A945P/A398Q	1.08%	
11/5/1997	SEAD-12	5	Regional	745043.7	1012038	6.5	9.2	11.5	9.5	A984P/A378Q	-3.16%	
11/5/1997	SEAD-12	5	Regional	745047.8	1011946	8	9.3	11	9.5	A984P/A378Q	-2.11%	
11/5/1997	SEAD-12	5	Regional	745052.1	1011846	7.5	9.1	10.5	9.5	A984P/A378Q	-4.21%	
11/5/1997	SEAD-12	5	Regional	745056.5	1011746	8	10	11.5	9.5	A984P/A378Q	5.26%	
11/5/1997	SEAD-12	5	Regional	745097.8	1011945	5.5	9.2	12	9.3	A945P/A398Q	-1.08%	
11/5/1997	SEAD-12	5	Regional	745102.1	1011848	7.2	9.2	10.8	9.3	A945P/A398Q	-1.08%	
11/5/1997	SEAD-12	5	Regional	745106.4	1011748	7.5	9.7	12.2	9.3	A945P/A398Q	4.30%	
11/5/1997	SEAD-12	5	Regional	745152	1011850	6.5	9.4	12	9.5	A984P/A378Q	-1.05%	Road at 200'
11/5/1997	SEAD-12	5	Regional	745156.4	1011750	8	9.9	11.5	9.5	A984P/A378Q	4.21%	
11/5/1997	SEAD-12	5	Regional	745203.1	1011826	6.2	10.7	13.2	9.3	A945P/A398Q	15.05%	
11/5/1997	SEAD-12	5	Regional	745206.4	1011752	7.8	10.1	12.8	9.3	A945P/A398Q	8.60%	
11/5/1997	SEAD-12	5	Regional	745256.9	1011740	6	9.7	13.5	9.5	A984P/A378Q	2.11%	Road at 70' - at Shale Exposed Bank Scaler = 11700 to 12800 cpm
11/6/1997	SEAD-12	6	Regional	744762.3	1015036	6.2	8.8	10.2	9.7	A945P/A378Q	-9.28%	
11/6/1997	SEAD-12	6	Regional	744766.6	1014936	6.8	9.3	10.8	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	744771	1014836	7.5	9.1	11.2	9.7	A945P/A378Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	744775.4	1014736	7.2	9.2	10.8	9.7	A945P/A378Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744779.8	1014637	8.2	9.5	11.8	9.7	A945P/A378Q	-2.06%	
11/6/1997	SEAD-12	6	Regional	744784.1	1014537	7.5	9.6	11.2	9.7	A945P/A378Q	-1.03%	
11/6/1997	SEAD-12	6	Regional	744788.5	1014437	7.8	9.4	11	9.7	A945P/A378Q	-3.09%	
11/6/1997	SEAD-12	6	Regional	744792.9	1014337	7.2	9.2	11.8	9.7	A945P/A378Q	-5.15%	
11/5/1997	SEAD-12	6	Regional	744362.6	1015019	7.5	9.3	11.2	9.3	A945P/A378Q	0.00%	
11/5/1997	SEAD-12	6	Regional	744367	1014919	8	9.4	11.5	9.3	A945P/A378Q	1.08%	
11/5/1997	SEAD-12	6	Regional	744371.4	1014819	7.8	10.2	12.2	9.3	A945P/A378Q	9.68%	
11/5/1997	SEAD-12	6	Regional	744375.8	1014719	8.2	10.5	11.8	9.3	A945P/A378Q	12.90%	
11/5/1997	SEAD-12	6	Regional	744380.1	1014619	7.5	10.1	12.5	9.3	A945P/A378Q	8.60%	
11/5/1997	SEAD-12	6	Regional	744384.5	1014519	7.8	9.7	12	9.3	A945P/A378Q	4.30%	
11/5/1997	SEAD-12	6	Regional	744388.9	1014419	8	9.6	11.8	9.3	A945P/A378Q	3.23%	
11/5/1997	SEAD-12	6	Regional	744393.3	1014319	7.2	9.8	12	9.3	A945P/A378Q	5.38%	
11/5/1997	SEAD-12	6	Regional	744412.6	1015021	7	8.8	10	9.5	A984P/A398Q	-7.37%	
11/5/1997	SEAD-12	6	Regional	744416.9	1014921	8	9.3	10.5	9.5	A984P/A398Q	-2.11%	
11/5/1997	SEAD-12	6	Regional	744421.3	1014821	7.5	9.3	10.5	9.5	A984P/A398Q	-2.11%	
11/5/1997	SEAD-12	6	Regional	744425.7	1014721	8	9.4	10.5	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	6	Regional	744430.1	1014621	8	9.2	11	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	6	Regional	744434.4	1014521	7.8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	6	Regional	744438.8	1014421	7.5	9.3	11	9.5	A984P/A398Q	-2.11%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Gnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
11/5/1997	SEAD-12	6	Regional	744443.2	1014322	7.5	9.4	11.5	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	6	Regional	744462.5	1015023	7.5	9.1	10.5	9.3	A945P/A378Q	-2.15%	
11/5/1997	SEAD-12	6	Regional	744466.9	1014923	7.2	9.2	10.5	9.3	A945P/A378Q	-1.08%	
11/5/1997	SEAD-12	6	Regional	744471.3	1014823	7.2	9.3	11.2	9.3	A945P/A378Q	0.00%	
11/5/1997	SEAD-12	6	Regional	744475.6	1014723	6.8	9	10.8	9.3	A945P/A378Q	-3.23%	
11/5/1997	SEAD-12	6	Regional	744480	1014623	7.2	9.3	10.8	9.3	A945P/A378Q	0.00%	
11/5/1997	SEAD-12	6	Regional	744484.4	1014524	8	9.3	11.2	9.3	A945P/A378Q	0.00%	
11/5/1997	SEAD-12	6	Regional	744488.8	1014424	7.8	9.3	10.5	9.3	A945P/A378Q	0.00%	
11/5/1997	SEAD-12	6	Regional	744493.2	1014324	7.5	9.5	11	9.3	A945P/A378Q	2.15%	
11/5/1997	SEAD-12	6	Regional	744512.5	1015025	7.8	9	10.5	9.5	A984P/A398Q	-5.26%	
11/5/1997	SEAD-12	6	Regional	744516.9	1014925	8	9.3	10.8	9.5	A984P/A398Q	-2.11%	
11/5/1997	SEAD-12	6	Regional	744521.3	1014825	8	9.2	10.8	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	6	Regional	744525.6	1014726	7.5	9.2	10.5	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	6	Regional	744530	1014626	8	9.2	10.5	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	6	Regional	744534.4	1014526	8	9.1	10.5	9.5	A984P/A398Q	-4.21%	
11/5/1997	SEAD-12	6	Regional	744538.8	1014426	7.5	9.4	11.2	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	6	Regional	744543.1	1014326	8	9.2	11	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	6	Regional	744562.4	1015027	5.2	8.6	10.5	9.3	A945P/A378Q	-7.53%	3320'-3400' - Very marshy/standing water intermittently
11/5/1997	SEAD-12	6	Regional	744566.8	1014928	6.5	9.2	10.8	9.3	A945P/A378Q	-1.08%	
11/5/1997	SEAD-12	6	Regional	744571.2	1014828	7.5	9.5	11.2	9.3	A945P/A378Q	2.15%	
11/5/1997	SEAD-12	6	Regional	744575.6	1014728	6.8	9.9	11.8	9.3	A945P/A378Q	6.45%	
11/5/1997	SEAD-12	6	Regional	744579.9	1014628	7.2	9.3	11.2	9.3	A945P/A378Q	0.00%	
11/5/1997	SEAD-12	6	Regional	744584.3	1014528	7.8	9.8	11.5	9.3	A945P/A378Q	5.38%	
11/5/1997	SEAD-12	6	Regional	744588.7	1014428	7.5	9.4	11	9.3	A945P/A378Q	1.08%	
11/5/1997	SEAD-12	6	Regional	744593.1	1014328	8.2	10.1	12.2	9.3	A945P/A378Q	8.60%	
11/5/1997	SEAD-12	6	Regional	744612.4	1015030	8	9.6	11.5	9.5	A984P/A398Q	1.05%	
11/5/1997	SEAD-12	6	Regional	744616.8	1014930	8	9.4	11	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	6	Regional	744621.1	1014830	8	9.6	11.5	9.5	A984P/A398Q	1.05%	
11/5/1997	SEAD-12	6	Regional	744625.5	1014730	8	9.4	11.2	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	6	Regional	744629.9	1014630	8	9.1	10.5	9.5	A984P/A398Q	-4.21%	
11/5/1997	SEAD-12	6	Regional	744634.3	1014530	7.5	9.3	10.5	9.5	A984P/A398Q	-2.11%	
11/5/1997	SEAD-12	6	Regional	744638.6	1014430	8	9.3	11	9.5	A984P/A398Q	-2.11%	
11/5/1997	SEAD-12	6	Regional	744643	1014330	7	9.1	10.5	9.5	A984P/A398Q	-4.21%	
11/5/1997	SEAD-12	6	Regional	744662.3	1015032	6.8	9.2	10.8	9.3	A945P/A378Q	-1.08%	
11/5/1997	SEAD-12	6	Regional	744666.7	1014932	7	9.2	11	9.3	A945P/A378Q	-1.08%	
11/5/1997	SEAD-12	6	Regional	744671.1	1014832	6.2	9	11.5	9.3	A945P/A378Q	-3.23%	
11/5/1997	SEAD-12	6	Regional	744675.4	1014732	7	8.9	10.2	9.3	A945P/A378Q	-4.30%	
11/5/1997	SEAD-12	6	Regional	744679.8	1014632	6.8	9.2	10.5	9.3	A945P/A378Q	-1.08%	
11/5/1997	SEAD-12	6	Regional	744684.2	1014532	8	9.5	10.8	9.3	A945P/A378Q	2.15%	
11/5/1997	SEAD-12	6	Regional	744688.6	1014432	8.2	9.5	11.8	9.3	A945P/A378Q	2.15%	
11/5/1997	SEAD-12	6	Regional	744692.9	1014332	7.5	9.7	11.5	9.3	A945P/A378Q	4.30%	
11/5/1997	SEAD-12	6	Regional	744712.3	1015034	8	9.2	10.8	9.5	A984P/A398Q	-3.16%	
11/5/1997	SEAD-12	6	Regional	744716.7	1014934	8	9.1	10.5	9.5	A984P/A398Q	-4.21%	
11/5/1997	SEAD-12	6	Regional	744721.1	1014834	7.5	9	11	9.5	A984P/A398Q	-5.26%	
11/5/1997	SEAD-12	6	Regional	744725.4	1014734	7.5	8.8	10	9.5	A984P/A398Q	-7.37%	
11/5/1997	SEAD-12	6	Regional	744729.8	1014634	8	9	10.5	9.5	A984P/A398Q	-5.26%	
11/5/1997	SEAD-12	6	Regional	744734.2	1014534	8	9.4	10.8	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	6	Regional	744738.6	1014435	7.5	9.4	11	9.5	A984P/A398Q	-1.05%	
11/5/1997	SEAD-12	6	Regional	744742.9	1014335	8	9.4	11.5	9.5	A984P/A398Q	-1.05%	
11/6/1997	SEAD-12	6	Regional	744762.3	1015036	6.2	8.8	10.2	9.7	A945P/A378Q	-9.28%	
11/6/1997	SEAD-12	6	Regional	744766.6	1014936	6.8	9.3	10.8	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	744771	1014836	7.5	9.1	11.2	9.7	A945P/A378Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	744775.4	1014736	7.2	9.2	10.8	9.7	A945P/A378Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744779.8	1014637	8.2	9.5	11.8	9.7	A945P/A378Q	-2.06%	
11/6/1997	SEAD-12	6	Regional	744784.1	1014537	7.5	9.6	11.2	9.7	A945P/A378Q	-1.03%	
11/6/1997	SEAD-12	6	Regional	744788.5	1014437	7.8	9.4	11	9.7	A945P/A378Q	-3.09%	
11/6/1997	SEAD-12	6	Regional	744792.9	1014337	7.2	9.2	11.8	9.7	A945P/A378Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744812.2	1015038	7	8.8	10	9.7	A984P/A398Q	-9.28%	
11/6/1997	SEAD-12	6	Regional	744816.6	1014938	8	9.3	11.5	9.7	A984P/A398Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	744820.9	1014839	8	9.4	11	9.7	A984P/A398Q	-3.09%	
11/6/1997	SEAD-12	6	Regional	744825.3	1014739	7.5	9.2	11.5	9.7	A984P/A398Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744829.7	1014639	8	9.2	11	9.7	A984P/A398Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744834.1	1014539	8	9.9	12	9.7	A984P/A398Q	2.06%	
11/6/1997	SEAD-12	6	Regional	744838.4	1014439	8	9.5	11	9.7	A984P/A398Q	-2.06%	
11/6/1997	SEAD-12	6	Regional	744842.8	1014339	8	9.2	11	9.7	A984P/A398Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744862.1	1015041	6.8	8.6	11.5	9.7	A945P/A378Q	-11.34%	
11/6/1997	SEAD-12	6	Regional	744866.5	1014941	6.8	9.5	11.2	9.7	A945P/A378Q	-2.06%	
11/6/1997	SEAD-12	6	Regional	744870.9	1014841	7.8	9.3	12	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	744875.3	1014741	7.2	9.3	11.8	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	744879.6	1014641	6.8	9.1	11.5	9.7	A945P/A378Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	744884	1014541	7.8	9.7	12.2	9.7	A945P/A378Q	0.00%	
11/6/1997	SEAD-12	6	Regional	744888.4	1014441	7.2	9.4	11.2	9.7	A945P/A378Q	-3.09%	
11/6/1997	SEAD-12	6	Regional	744892.8	1014341	6.8	9.5	11.5	9.7	A945P/A378Q	-2.06%	
11/6/1997	SEAD-12	6	Regional	744912.1	1015043	7.5	9	10.5	9.7	A984P/A398Q	-7.22%	
11/6/1997	SEAD-12	6	Regional	744916.5	1014943	7.5	8.9	10.5	9.7	A984P/A398Q	-8.25%	
11/6/1997	SEAD-12	6	Regional	744920.9	1014843	7.5	9.2	11	9.7	A984P/A398Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744925.3	1014743	7.5	9.2	11.2	9.7	A984P/A398Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744929.6	1014643	8	9	11	9.7	A984P/A398Q	-7.22%	
11/6/1997	SEAD-12	6	Regional	744934	1014543	8	9.3	11	9.7	A984P/A398Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	744938.4	1014443	8.5	9.6	11.5	9.7	A984P/A398Q	-1.03%	
11/6/1997	SEAD-12	6	Regional	744942.8	1014343	8	9.2	11	9.7	A984P/A398Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744962.1	1015045	7.2	9	10.8	9.7	A945P/A378Q	-7.22%	
11/6/1997	SEAD-12	6	Regional	744966.4	1014945	7.8	9.1	11.5	9.7	A945P/A378Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	744970.8	1014845	8.2	9.4	11.2	9.7	A945P/A378Q	-3.09%	
11/6/1997	SEAD-12	6	Regional	744975.2	1014745	7.8	9.7	11.8	9.7	A945P/A378Q	0.00%	
11/6/1997	SEAD-12	6	Regional	744979.6	1014645	6.8	9.3	11.2	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	744983.9	1014545	6.5	9.2	11.8	9.7	A945P/A378Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	744988.3	1014445	7	9.4	12.2	9.7	A945P/A378Q	-3.09%	
11/6/1997	SEAD-12	6	Regional	744992.7	1014346	7.2	9.5	11.5	9.7	A945P/A378Q	-2.06%	

**Appendix F**  
**Class III Areas Gamma Scanning Results**  
**SEAD-12 Remedial Investigation**  
**Seneca Army Depot**

Collection Date	Site	Area	Grd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
11/6/1997	SEAD-12	6	Regional	745012	1015047	7	9.1	10.5	9.7	A984P/A398Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	745016.4	1014947	7.5	9.3	10.5	9.7	A984P/A398Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	745020.8	1014847	8	9.3	10.8	9.7	A984P/A398Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	745025.1	1014747	7.5	8.9	11.5	9.7	A984P/A398Q	-8.25%	
11/6/1997	SEAD-12	6	Regional	745029.5	1014647	7.5	9.6	11.5	9.7	A984P/A398Q	-1.03%	
11/6/1997	SEAD-12	6	Regional	745033.9	1014548	8	9.3	11.5	9.7	A984P/A398Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	745038.3	1014448	8	9.4	11	9.7	A984P/A398Q	-3.09%	
11/6/1997	SEAD-12	6	Regional	745042.6	1014348	7	8.8	10	9.7	A984P/A398Q	-9.28%	
11/6/1997	SEAD-12	6	Regional	745061.9	1015049	6.2	8.7	10.5	9.7	A945P/A378Q	-10.31%	
11/6/1997	SEAD-12	6	Regional	745066.3	1014949	6.5	8.6	11	9.7	A945P/A378Q	-11.34%	
11/6/1997	SEAD-12	6	Regional	745070.7	1014849	7.8	9.2	11.2	9.7	A945P/A378Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	745075.1	1014750	7.2	9.1	10.5	9.7	A945P/A378Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	745079.4	1014650	6.8	8.9	10.8	9.7	A945P/A378Q	-8.25%	
11/6/1997	SEAD-12	6	Regional	745083.8	1014550	7	9.1	11.2	9.7	A945P/A378Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	745088.2	1014450	7.5	9.3	11.8	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	6	Regional	745092.6	1014350	6.8	8.9	11.5	9.7	A945P/A378Q	-8.25%	
11/6/1997	SEAD-12	6	Regional	745111.9	1015051	7	8.6	10	9.7	A984P/A398Q	-11.34%	
11/6/1997	SEAD-12	6	Regional	745116.3	1014952	6	8.1	9.5	9.7	A984P/A398Q	-16.49%	
11/6/1997	SEAD-12	6	Regional	745120.6	1014852	7	9.1	10	9.7	A984P/A398Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	745125	1014752	7	8.8	9.8	9.7	A984P/A398Q	-9.28%	
11/6/1997	SEAD-12	6	Regional	745129.4	1014652	7.5	9.2	10.5	9.7	A984P/A398Q	-5.15%	
11/6/1997	SEAD-12	6	Regional	745133.8	1014552	7.5	9.1	11	9.7	A984P/A398Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	745138.2	1014452	7.5	9	10.5	9.7	A984P/A398Q	-7.22%	
11/6/1997	SEAD-12	6	Regional	745142.6	1014352	7	9.1	10	9.7	A984P/A398Q	-6.19%	
11/6/1997	SEAD-12	6	Regional	745161.9	1015054	5.8	8.6	10.8	9.7	A945P/A378Q	-11.34%	
11/6/1997	SEAD-12	6	Regional	745166.3	1014954	6.8	8.6	11.2	9.7	A945P/A378Q	-11.34%	
11/6/1997	SEAD-12	6	Regional	745170.6	1014854	7.5	9	11.2	9.7	A945P/A378Q	-7.22%	
11/6/1997	SEAD-12	6	Regional	745175	1014754	7.2	9	10.8	9.7	A945P/A378Q	-7.22%	
11/6/1997	SEAD-12	6	Regional	745179.4	1014654	7	8.9	11	9.7	A945P/A378Q	-8.25%	
11/6/1997	SEAD-12	6	Regional	745183.8	1014554	6.8	8.6	11.5	9.7	A945P/A378Q	-11.34%	
11/6/1997	SEAD-12	6	Regional	745188.1	1014454	7.2	8.7	10.8	9.7	A945P/A378Q	-10.31%	
11/6/1997	SEAD-12	6	Regional	745192.5	1014354	7	9	10.5	9.7	A945P/A378Q	-7.22%	
11/6/1997	SEAD-12	6	Regional	745211.8	1015056	7	8.5	9.5	9.7	A984P/A398Q	-12.37%	
11/6/1997	SEAD-12	6	Regional	745216.2	1014956	7	8.5	10	9.7	A984P/A398Q	-12.37%	
11/6/1997	SEAD-12	6	Regional	745220.6	1014856	7	8.7	10	9.7	A984P/A398Q	-10.31%	
11/6/1997	SEAD-12	6	Regional	745224.9	1014756	7	8.6	9.8	9.7	A984P/A398Q	-11.34%	
11/6/1997	SEAD-12	6	Regional	745229.3	1014656	7	8.8	10	9.7	A984P/A398Q	-9.28%	
11/6/1997	SEAD-12	6	Regional	745233.7	1014556	7	8.5	9.8	9.7	A984P/A398Q	-12.37%	
11/6/1997	SEAD-12	6	Regional	745238.1	1014456	7	8.8	9.5	9.7	A984P/A398Q	-9.28%	
11/6/1997	SEAD-12	6	Regional	745242.4	1014357	7	8.7	9.8	9.7	A984P/A398Q	-10.31%	
11/6/1997	SEAD-12	6	Regional	745261.8	1015058	5	6.5	7.8	9.7	A945P/A378Q	-32.99%	
11/6/1997	SEAD-12	6	Regional	745266.1	1014958	5.5	7	8.8	9.7	A945P/A378Q	-27.84%	
11/6/1997	SEAD-12	6	Regional	745270.5	1014858	5	6.8	8.5	9.7	A945P/A378Q	-29.90%	
11/6/1997	SEAD-12	6	Regional	745274.9	1014758	5	6.6	8.5	9.7	A945P/A378Q	-31.96%	
11/6/1997	SEAD-12	6	Regional	745279.3	1014658	5	6.5	8.5	9.7	A945P/A378Q	-32.99%	
11/6/1997	SEAD-12	6	Regional	745283.6	1014559	5	6.6	8	9.7	A945P/A378Q	-31.96%	
11/6/1997	SEAD-12	6	Regional	745288	1014459	5	6.8	9	9.7	A945P/A378Q	-29.90%	
11/6/1997	SEAD-12	6	Regional	745292.4	1014359	5.5	6.7	8	9.7	A945P/A378Q	-30.93%	
11/6/1997	SEAD-12	7	Regional	744397.6	1014219	6.8	9.3	11.5	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	7	Regional	744402	1014120	5.2	9.3	10.8	9.7	A945P/A378Q	-4.12%	2455'-2412' - Pavement
11/6/1997	SEAD-12	7	Regional	744406.4	1014020	7.2	9.2	10.5	9.7	A945P/A378Q	-5.15%	
11/6/1997	SEAD-12	7	Regional	744410.8	1013920	6.8	9.2	11.2	9.7	A945P/A378Q	-5.15%	
11/6/1997	SEAD-12	7	Regional	744415.1	1013820	7.5	9.3	12.5	9.7	A945P/A378Q	-4.12%	
11/6/1997	SEAD-12	7	Regional	744419.5	1013720	8	10.3	13.2	9.7	A945P/A378Q	6.19%	
11/6/1997	SEAD-12	7	Regional	744423.9	1013620	5.8	10.3	12.2	9.7	A945P/A378Q	6.19%	1945'-1810' - Pavement
11/6/1997	SEAD-12	7	Regional	744428.3	1013520	5.2	7.6	9.8	9.7	A945P/A378Q	-21.65%	
11/6/1997	SEAD-12	7	Regional	744447.6	1014222	8.5	10.2	12.5	9.7	A984P/A398Q	5.15%	
11/6/1997	SEAD-12	7	Regional	744450.9	1014147	6.5	10.3	12	9.7	A984P/A398Q	6.19%	2450'-1900' - Road
11/6/1997	SEAD-12	7	Regional	744478.9	1013552	8	8.8	10	9.7	A984P/A398Q	-9.28%	
11/6/1997	SEAD-12	7	Regional	744480.2	1013477	6.5	8.2	10	9.7	A984P/A398Q	-15.46%	1810'-1860' - Pavement
11/6/1997	SEAD-12	7	Regional	744497.6	1014224	7	9.6	11.5	9.7	A984P/A398Q	-1.03%	
11/6/1997	SEAD-12	7	Regional	744500.8	1014149	6.5	10.3	12	9.7	A984P/A398Q	6.19%	Substation Pad Area. 2450'-1900' - Road
11/6/1997	SEAD-12	7	Regional	744530.1	1013480	6	7.7	9	9.7	A984P/A398Q	-20.62%	
11/6/1997	SEAD-12	7	Regional	744547.5	1014226	7	9.6	11.5	9.7	A984P/A398Q	-1.03%	Substation fence - 2530'
11/6/1997	SEAD-12	7	Regional	744550.8	1014151	7	9.1	10.5	9.7	A984P/A398Q	-6.19%	Substation Pad Area. 2450' - Road
11/6/1997	SEAD-12	7	Regional	744580.1	1013482	6.5	7.4	9.5	9.7	A984P/A398Q	-23.71%	
11/6/1997	SEAD-12	7	Regional	744597.4	1014228	8	10.8	12.8	9.7	A984P/A398Q	11.34%	
11/6/1997	SEAD-12	7	Regional	744600.8	1014153	7	8.8	12	9.7	A984P/A398Q	-9.28%	Drainage ditch - Gravel road
11/6/1997	SEAD-12	7	Regional	744630.1	1013484	7	8.8	9.5	9.7	A984P/A398Q	-9.28%	
11/6/1997	SEAD-12	7	Regional	744647.4	1014230	8.5	10.1	12.5	9.7	A984P/A398Q	4.12%	
11/6/1997	SEAD-12	7	Regional	744650.7	1014155	6	8.9	12	9.7	A984P/A398Q	-8.25%	
11/6/1997	SEAD-12	7	Regional	744678	1013531	5.5	7.4	9	9.9	A984P/A398Q	-25.25%	RR - 1900'
11/7/1997	SEAD-12	7	Regional	744697.3	1014233	7.2	10.3	13	9.9	A945P/A378Q	4.04%	
11/7/1997	SEAD-12	7	Regional	744700.6	1014158	5.5	9.9	12.5	9.9	A945P/A378Q	0.00%	1900'-2450' - Pavement
11/7/1997	SEAD-12	7	Regional	744728	1013533	5.2	9.8	13.2	9.9	A945P/A378Q	-1.01%	
11/7/1997	SEAD-12	7	Regional	744747.3	1014235	9	10.8	13	9.9	A984P/A398Q	9.09%	
11/7/1997	SEAD-12	7	Regional	744751	1014150	9	10.4	12.5	9.9	A984P/A398Q	5.05%	
11/7/1997	SEAD-12	7	Regional	744762.2	1013695	9.5	9.9	12	9.9	A984P/A398Q	0.00%	
11/7/1997	SEAD-12	7	Regional	744764.8	1013835	9.5	10.8	12.5	9.9	A984P/A398Q	9.09%	
11/7/1997	SEAD-12	7	Regional	744769.2	1013735	8	9.4	12	9.9	A984P/A398Q	-5.05%	
11/7/1997	SEAD-12	7	Regional	744773.6	1013635	8.5	9.8	12	9.9	A984P/A398Q	-1.01%	RR - 1900'
11/7/1997	SEAD-12	7	Regional	744775.8	1013585	7	10.5	13	9.9	A984P/A398Q	6.06%	
11/7/1997	SEAD-12	7	Regional	744797.3	1014237	8.2	10.3	12.2	9.9	A945P/A378Q	4.04%	
11/7/1997	SEAD-12	7	Regional	744801.6	1014137	7.5	10.1	13	9.9	A945P/A378Q	2.02%	
11/7/1997	SEAD-12	7	Regional	744806	1014037	7.8	8.9	13.2	9.9	A945P/A378Q	-10.10%	
11/7/1997	SEAD-12	7	Regional	744810.4	1013937	8.2	10.6	12.8	9.9	A945P/A378Q	7.07%	
11/7/1997	SEAD-12	7	Regional	744814.8	1013837	7.8	10.8	14	9.9	A945P/A378Q	9.09%	2160'-2300' - Shale bank
11/7/1997	SEAD-12	7	Regional	744819.1	1013737	7.2	10.5	12.8	9.9	A945P/A378Q	6.06%	
11/7/1997	SEAD-12	7	Regional	744823.5	1013638	6.8	11.1	13.8	9.9	A945P/A378Q	12.12%	Shale-covered, bare ground
11/7/1997	SEAD-12	7	Regional	744827.9	1013538	6.2	10.9	13.5	9.9	A945P/A378Q	10.10%	1800'-1900' - RR bed



Appendix F  
 Class III Areas Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
11/7/1997	SEAD-12	7	Regional	744847.2	1014239	8.5	10.2	13	9.9	A984P/A398Q	3.03%	
11/7/1997	SEAD-12	7	Regional	744851.6	1014139	8.5	10.6	12.5	9.9	A984P/A398Q	7.07%	
11/7/1997	SEAD-12	7	Regional	744855.9	1014039	8.5	10.3	12	9.9	A984P/A398Q	4.04%	
11/7/1997	SEAD-12	7	Regional	744860.3	1013939	8.5	10.4	12.5	9.9	A984P/A398Q	5.05%	
11/7/1997	SEAD-12	7	Regional	744864.7	1013840	8.5	10.2	12.5	9.9	A984P/A398Q	3.03%	
11/7/1997	SEAD-12	7	Regional	744869.1	1013740	8.5	10.1	12	9.9	A984P/A398Q	2.02%	
11/7/1997	SEAD-12	7	Regional	744873.4	1013640	7	10	13	9.9	A984P/A398Q	1.01%	
11/7/1997	SEAD-12	7	Regional	744877.8	1013540	7	10	12	9.9	A984P/A398Q	1.01%	RR - 1900
11/7/1997	SEAD-12	7	Regional	744887.1	1014241	7	10.1	13.2	9.9	A945P/A378Q	2.02%	
11/7/1997	SEAD-12	7	Regional	744901.5	1014141	8.2	10.3	12.5	9.9	A945P/A378Q	4.04%	
11/7/1997	SEAD-12	7	Regional	744905.9	1014042	7.5	9.8	11.8	9.9	A945P/A378Q	-1.01%	
11/7/1997	SEAD-12	7	Regional	744910.3	1013942	7.5	9.5	11	9.9	A945P/A378Q	-0.44%	
11/7/1997	SEAD-12	7	Regional	744914.6	1013842	7	9.7	10.8	9.9	A945P/A378Q	-2.02%	
11/7/1997	SEAD-12	7	Regional	744919	1013742	7.2	9.6	11.5	9.9	A945P/A378Q	-3.03%	
11/7/1997	SEAD-12	7	Regional	744923.4	1013642	5.2	10.1	12.5	9.9	A945P/A378Q	2.02%	
11/7/1997	SEAD-12	7	Regional	744927.8	1013542	6.2	10	11.8	9.9	A945P/A378Q	1.01%	
11/7/1997	SEAD-12	7	Regional	744947.1	1014243	8	9.7	12	9.9	A984P/A398Q	-2.02%	
11/7/1997	SEAD-12	7	Regional	744951.5	1014144	8	10.2	12.5	9.9	A984P/A398Q	3.03%	
11/7/1997	SEAD-12	7	Regional	744955.9	1014044	7.8	9.8	11.8	9.9	A984P/A398Q	-1.01%	
11/7/1997	SEAD-12	7	Regional	744960.3	1013944	8	9.7	11.5	9.9	A984P/A398Q	-2.02%	
11/7/1997	SEAD-12	7	Regional	744964.6	1013844	8	9.6	11	9.9	A984P/A398Q	-3.03%	
11/7/1997	SEAD-12	7	Regional	744969	1013744	8	9.3	11	9.9	A984P/A398Q	-6.06%	
11/7/1997	SEAD-12	7	Regional	744973.4	1013644	8	9.7	13	9.9	A984P/A398Q	-2.02%	
11/7/1997	SEAD-12	7	Regional	744977.6	1013547	8	9.7	11.5	9.9	A984P/A398Q	-2.02%	
11/8/1997	SEAD-12	7	Regional	745001.4	1014146	6.8	9.2	11.8	9.3	A945P/A378Q	-1.08%	
11/8/1997	SEAD-12	7	Regional	744997	1014246	6.8	9.2	11.8	9.3	A945P/A378Q	-1.08%	
11/8/1997	SEAD-12	7	Regional	745005.8	1014046	6.5	9.6	10.8	9.3	A945P/A378Q	3.23%	
11/8/1997	SEAD-12	7	Regional	745010.2	1013946	7.2	9.7	11.8	9.3	A945P/A378Q	4.30%	
11/8/1997	SEAD-12	7	Regional	745014.6	1013846	8.2	9.8	12	9.3	A945P/A378Q	5.38%	
11/8/1997	SEAD-12	7	Regional	745018.9	1013746	7.5	10.1	12.2	9.3	A945P/A378Q	8.60%	
11/8/1997	SEAD-12	7	Regional	745023.3	1013646	8.2	10.8	11.8	9.3	A945P/A378Q	16.13%	
11/8/1997	SEAD-12	7	Regional	745027.7	1013546	5.5	10.7	12.8	9.3	A945P/A378Q	15.05%	
11/8/1997	SEAD-12	7	Regional	745047	1014248	7.5	9.7	12	9.4	A984P/A398Q	3.19%	
11/8/1997	SEAD-12	7	Regional	745051.4	1014148	8	9.6	11.5	9.4	A984P/A398Q	2.13%	
11/8/1997	SEAD-12	7	Regional	745055.8	1014048	8	10	11.8	9.4	A984P/A398Q	6.38%	
11/8/1997	SEAD-12	7	Regional	745060.1	1013948	8	9.8	11.5	9.4	A984P/A398Q	4.26%	
11/8/1997	SEAD-12	7	Regional	745064.5	1013848	8	9.8	11.2	9.4	A984P/A398Q	4.26%	
11/8/1997	SEAD-12	7	Regional	745068.9	1013748	8	9.6	11	9.4	A984P/A398Q	2.13%	
11/8/1997	SEAD-12	7	Regional	745073.3	1013648	7.5	9.5	11	9.4	A984P/A398Q	1.06%	
11/8/1997	SEAD-12	7	Regional	745077.6	1013549	8	9.8	12	9.4	A984P/A398Q	4.26%	
11/10/1997	SEAD-12	7	Regional	745096.9	1014250	7.2	8.8	11.5	9.2	A945P/A378Q	-4.35%	
11/10/1997	SEAD-12	7	Regional	745101.3	1014150	6.5	8.8	10.8	9.2	A945P/A378Q	-4.35%	
11/10/1997	SEAD-12	7	Regional	745105.7	1014050	7.5	9	10.5	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	7	Regional	745110.1	1013950	7.2	9.4	11.2	9.2	A945P/A378Q	2.17%	
11/10/1997	SEAD-12	7	Regional	745114.4	1013850	7.5	9.3	12	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	7	Regional	745118.8	1013751	7.8	9.5	12.2	9.2	A945P/A378Q	3.26%	
11/10/1997	SEAD-12	7	Regional	745123.2	1013651	7.2	9.2	12	9.2	A945P/A378Q	0.00%	
11/10/1997	SEAD-12	7	Regional	745127.6	1013551	5.2	9	12.8	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	7	Regional	745146.9	1014252	7.5	8.8	10.5	9.2	A984P/A398Q	-4.35%	
11/10/1997	SEAD-12	7	Regional	745151.3	1014152	8	8.9	10.2	9.2	A984P/A398Q	-3.26%	
11/10/1997	SEAD-12	7	Regional	745155.7	1014052	8	9.6	11.5	9.2	A984P/A398Q	4.35%	
11/10/1997	SEAD-12	7	Regional	745160.1	1013953	8	9.8	12	9.2	A984P/A398Q	6.52%	
11/10/1997	SEAD-12	7	Regional	745164.4	1013853	7.8	9.6	11.5	9.2	A984P/A398Q	4.35%	
11/10/1997	SEAD-12	7	Regional	745168.8	1013753	7.5	9.4	11.2	9.2	A984P/A398Q	2.17%	
11/10/1997	SEAD-12	7	Regional	745173.2	1013653	7.8	9.3	11.2	9.2	A984P/A398Q	1.09%	
11/10/1997	SEAD-12	7	Regional	745177.6	1013553	6.5	9.3	11.5	9.2	A984P/A398Q	1.09%	
11/10/1997	SEAD-12	7	Regional	745196.9	1014254	6.8	8.8	10.8	9.2	A945P/A378Q	-4.35%	
11/10/1997	SEAD-12	7	Regional	745201.3	1014155	6.8	8.9	11.8	9.2	A945P/A378Q	-3.26%	
11/10/1997	SEAD-12	7	Regional	745205.6	1014055	7.5	9.6	11.5	9.2	A945P/A378Q	4.35%	
11/10/1997	SEAD-12	7	Regional	745210	1013955	7.8	9.3	12	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	7	Regional	745214.4	1013855	7.2	9.5	11.8	9.2	A945P/A378Q	3.26%	
11/10/1997	SEAD-12	7	Regional	745218.8	1013755	7.5	9.3	10.8	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	7	Regional	745223.1	1013655	8.2	9	11.2	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	7	Regional	745227.5	1013555	5.2	9	12.8	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	7	Regional	745246.8	1014257	7	8.4	10.2	9.2	A984P/A398Q	-8.70%	
11/10/1997	SEAD-12	7	Regional	745251.2	1014157	7.8	8.8	10.5	9.2	A984P/A398Q	-4.35%	
11/10/1997	SEAD-12	7	Regional	745255.6	1014057	7.8	9.4	11.2	9.2	A984P/A398Q	2.17%	
11/10/1997	SEAD-12	7	Regional	745259.9	1013957	7.5	9.2	10.8	9.2	A984P/A398Q	0.00%	
11/10/1997	SEAD-12	7	Regional	745264.3	1013857	7.5	9.2	11	9.2	A984P/A398Q	0.00%	
11/10/1997	SEAD-12	7	Regional	745268.7	1013757	7.8	9.3	11	9.2	A984P/A398Q	1.09%	
11/10/1997	SEAD-12	7	Regional	745273.1	1013657	8	9.5	11	9.2	A984P/A398Q	3.26%	
11/10/1997	SEAD-12	7	Regional	745277.4	1013557	8	9.6	11	9.2	A984P/A398Q	4.35%	
11/10/1997	SEAD-12	7	Regional	745296.8	1014259	6	7.6	9	9.2	A945P/A378Q	-17.39%	
11/10/1997	SEAD-12	7	Regional	745301.1	1014159	6	7.8	9.2	9.2	A945P/A378Q	-15.22%	
11/10/1997	SEAD-12	7	Regional	745305.5	1014059	6	7.7	9	9.2	A945P/A378Q	-16.30%	
11/10/1997	SEAD-12	7	Regional	745309.9	1013959	6.5	8.2	10.5	9.2	A945P/A378Q	-10.87%	
11/10/1997	SEAD-12	7	Regional	745314.3	1013859	7	8.1	9.5	9.2	A945P/A378Q	-11.96%	
11/10/1997	SEAD-12	7	Regional	745318.6	1013759	6.5	7.9	9	9.2	A945P/A378Q	-14.13%	
11/10/1997	SEAD-12	7	Regional	745323	1013659	6.5	8.4	10	9.2	A945P/A378Q	-8.70%	
11/10/1997	SEAD-12	7	Regional	745327.4	1013559	6.5	8.4	9.5	9.2	A945P/A378Q	-8.70%	
11/10/1997	SEAD-12	8	Regional	744432.6	1013420	7.2	9.3	10.8	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744437	1013320	6.8	8.7	10.2	9.2	A945P/A378Q	-5.43%	
11/10/1997	SEAD-12	8	Regional	744440.9	1013230	4.8	9.6	11.5	9.2	A945P/A378Q	4.35%	
11/10/1997	SEAD-12	8	Regional	744482.6	1013422	8	9.7	11	9.2	A984P/A398Q	5.43%	
11/10/1997	SEAD-12	8	Regional	744486.9	1013322	7	8.8	10.2	9.2	A984P/A398Q	-4.35%	
11/10/1997	SEAD-12	8	Regional	744491.3	1013223	7.5	9.1	11	9.2	A984P/A398Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744495.7	1013123	7.5	8.8	10.5	9.2	A984P/A398Q	-4.35%	
11/10/1997	SEAD-12	8	Regional	744498.8	1013053	6	8.5	10.8	9.2	A984P/A398Q	-7.61%	Road @ 1360
11/10/1997	SEAD-12	8	Regional	744532.6	1013425	5.5	9.4	11.5	9.2	A945P/A378Q	2.17%	
11/10/1997	SEAD-12	8	Regional	744536.9	1013325	6.8	8.9	11.2	9.2	A945P/A378Q	-3.26%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
11/10/1997	SEAD-12	8	Regional	744541.3	1013225	6.5	9	10.8	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744545.7	1013125	6.8	9.1	10.5	9.2	A945P/A378Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744550.1	1013025	7.2	9	11.5	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744553.6	1012945	5.2	8.5	10.8	9.2	A945P/A378Q	-7.61%	
11/10/1997	SEAD-12	8	Regional	744582.5	1013427	7.8	9.5	12	9.2	A984P/A398Q	3.26%	
11/10/1997	SEAD-12	8	Regional	744586.9	1013327	8	9.2	11	9.2	A984P/A398Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744591.3	1013227	8	9.2	11	9.2	A984P/A398Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744595.6	1013127	8	9.3	11.2	9.2	A984P/A398Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744600	1013027	8	8.9	10.8	9.2	A984P/A398Q	-3.26%	
11/10/1997	SEAD-12	8	Regional	744604.4	1012927	7.8	9.1	10.8	9.2	A984P/A398Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744607.9	1012847	6.5	8.6	10.2	9.2	A984P/A398Q	-6.52%	Road @ 1140'
11/10/1997	SEAD-12	8	Regional	744632.4	1013429	7.5	9.5	11.8	9.2	A945P/A378Q	3.26%	
11/10/1997	SEAD-12	8	Regional	744636.8	1013329	6.8	9.1	11.2	9.2	A945P/A378Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744641.2	1013229	7.2	8.9	10.5	9.2	A945P/A378Q	-3.26%	
11/10/1997	SEAD-12	8	Regional	744645.6	1013129	6.8	9	10.8	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744649.9	1013029	6.5	9.1	11.5	9.2	A945P/A378Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744654.3	1012929	7.2	9.2	11	9.2	A945P/A378Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744658.7	1012830	6.8	9.2	11.2	9.2	A945P/A378Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744662.4	1013431	8	9.2	12	9.2	A984P/A398Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744666.8	1013331	7.8	9.4	11.5	9.2	A984P/A398Q	2.17%	
11/10/1997	SEAD-12	8	Regional	744691.1	1013231	7.8	9.4	12	9.2	A984P/A398Q	2.17%	
11/10/1997	SEAD-12	8	Regional	744695.5	1013131	7.5	9	10.5	9.2	A984P/A398Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744699.9	1013032	7.5	8.8	10.2	9.2	A984P/A398Q	-4.35%	
11/10/1997	SEAD-12	8	Regional	744704.3	1012932	8	9.1	11	9.2	A984P/A398Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744708.6	1012832	7.5	9	11.5	9.2	A984P/A398Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744713	1012732	7.5	8.9	11	9.2	A984P/A398Q	-3.26%	
11/10/1997	SEAD-12	8	Regional	744715.9	1012667	6	8.4	10.5	9.2	A984P/A398Q	-8.70%	
11/10/1997	SEAD-12	8	Regional	744732.4	1013433	8	9.7	12.2	9.2	A945P/A378Q	5.43%	
11/10/1997	SEAD-12	8	Regional	744736.8	1013333	7.5	9.3	11.5	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744741.1	1013234	7.8	9.5	12	9.2	A945P/A378Q	3.26%	
11/10/1997	SEAD-12	8	Regional	744745.5	1013134	7.2	9.9	12.2	9.2	A945P/A378Q	7.61%	
11/10/1997	SEAD-12	8	Regional	744749.9	1013034	7.5	9.3	11.5	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744754.3	1012934	7.8	9.1	11	9.2	A945P/A378Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744758.6	1012834	8	9	10.8	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744763	1012734	7.5	8.7	11.2	9.2	A945P/A378Q	-5.43%	
11/10/1997	SEAD-12	8	Regional	744767.4	1012634	6.8	8.8	10.8	9.2	A945P/A378Q	-4.35%	
11/10/1997	SEAD-12	8	Regional	744770.2	1012569	5.2	7.8	10.2	9.2	A945P/A378Q	-15.22%	
11/10/1997	SEAD-12	8	Regional	744782.3	1013436	8	9.7	12	9.2	A984P/A398Q	5.43%	
11/10/1997	SEAD-12	8	Regional	744786.7	1013336	8	9.4	11.5	9.2	A984P/A398Q	2.17%	
11/10/1997	SEAD-12	8	Regional	744791.1	1013236	8	9.3	11.2	9.2	A984P/A398Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744795.4	1013136	8	9.3	10.8	9.2	A984P/A398Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744799.8	1013036	7.5	9.1	10.5	9.2	A984P/A398Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744804.2	1012936	7	8.7	10	9.2	A984P/A398Q	-5.43%	
11/10/1997	SEAD-12	8	Regional	744808.6	1012836	7.2	8.7	10.5	9.2	A984P/A398Q	-5.43%	
11/10/1997	SEAD-12	8	Regional	744812.9	1012736	7.5	8.8	10.8	9.2	A984P/A398Q	-4.35%	
11/10/1997	SEAD-12	8	Regional	744817.3	1012636	7.8	9.1	10.5	9.2	A984P/A398Q	-1.09%	
11/10/1997	SEAD-12	8	Regional	744821.7	1012536	7.5	8.9	10.2	9.2	A984P/A398Q	-3.26%	
11/10/1997	SEAD-12	8	Regional	744824.1	1012481	6	7	9	9.2	A984P/A398Q	-23.91%	
11/10/1997	SEAD-12	8	Regional	744832.3	1013438	7.5	9.2	11.2	9.2	A945P/A378Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744836.6	1013338	7.2	9.8	12.2	9.2	A945P/A378Q	6.52%	
11/10/1997	SEAD-12	8	Regional	744841	1013238	6.8	9.8	12.5	9.2	A945P/A378Q	6.52%	
11/10/1997	SEAD-12	8	Regional	744845.4	1013138	7.5	9.8	12	9.2	A945P/A378Q	6.52%	
11/10/1997	SEAD-12	8	Regional	744849.8	1013038	7	9.7	13.2	9.2	A945P/A378Q	5.43%	
11/10/1997	SEAD-12	8	Regional	744854.1	1012938	7.2	9.3	12	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744858.5	1012838	7.8	9.3	11.5	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744862.9	1012738	7.2	9.2	11.8	9.2	A945P/A378Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744867.3	1012638	6.8	8.9	11.5	9.2	A945P/A378Q	-3.26%	
11/10/1997	SEAD-12	8	Regional	744871.6	1012539	6.5	8.7	10.5	9.2	A945P/A378Q	-5.43%	
11/10/1997	SEAD-12	8	Regional	744869.6	1012586	5.5	8.7	10.8	9.2	A945P/A378Q	-5.43%	
11/10/1997	SEAD-12	8	Regional	744882.2	1013440	8	9.2	11.2	9.2	A945P/A378Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744886.6	1013340	8	9.5	11.5	9.2	A945P/A378Q	3.26%	
11/10/1997	SEAD-12	8	Regional	744890.9	1013240	8	9.7	11.5	9.2	A945P/A378Q	5.43%	
11/10/1997	SEAD-12	8	Regional	744895.3	1013140	8.2	9.7	11.5	9.2	A945P/A378Q	5.43%	
11/10/1997	SEAD-12	8	Regional	744899.7	1013040	8	10	11.8	9.2	A945P/A378Q	8.70%	
11/10/1997	SEAD-12	8	Regional	744904.1	1012940	7.8	9.4	11	9.2	A945P/A378Q	2.17%	
11/10/1997	SEAD-12	8	Regional	744908.4	1012840	7.5	9.2	11	9.2	A945P/A378Q	0.00%	
11/10/1997	SEAD-12	8	Regional	744912.8	1012741	7	8.9	9.8	9.2	A945P/A378Q	-3.26%	
11/10/1997	SEAD-12	8	Regional	744917.2	1012641	7.5	9	11.5	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744921.6	1012541	7.5	9.3	11.5	9.2	A945P/A378Q	1.09%	
11/10/1997	SEAD-12	8	Regional	744925.9	1012441	8	9	11	9.2	A945P/A378Q	-2.17%	
11/10/1997	SEAD-12	8	Regional	744930.3	1012341	6	8.7	11	9.2	A945P/A378Q	-5.43%	
11/11/1997	SEAD-12	8	Regional	744932.2	1013442	6.8	9	10.8	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	744936.6	1013342	7.2	9.3	10.8	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	744940.9	1013242	7.5	9.8	11.5	9.1	A945P/A378Q	7.69%	
11/11/1997	SEAD-12	8	Regional	744945.3	1013142	8	9.7	12	9.1	A945P/A378Q	6.59%	
11/11/1997	SEAD-12	8	Regional	744949.7	1013042	7.8	9.8	12.2	9.1	A945P/A378Q	7.69%	
11/11/1997	SEAD-12	8	Regional	744954.1	1012943	7.2	9.2	11.8	9.1	A945P/A378Q	1.10%	
11/11/1997	SEAD-12	8	Regional	744958.4	1012843	6.8	9	11	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	744962.8	1012743	7	9	11.2	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	744967.2	1012643	7.5	9	10.8	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	744971.6	1012543	8	9.3	11.8	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	744975.9	1012443	7.8	9.3	11.2	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	744980.3	1012343	7.2	9	10.5	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	744984.3	1012253	5.2	9.1	11.2	9.1	A945P/A378Q	0.00%	
11/11/1997	SEAD-12	8	Regional	744982.1	1013444	7.8	9.3	10.5	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	744986.5	1013344	8	9.2	11.2	9.2	A984P/A398Q	0.00%	
11/11/1997	SEAD-12	8	Regional	744990.9	1013244	8.5	9.6	11.8	9.2	A984P/A398Q	4.35%	
11/11/1997	SEAD-12	8	Regional	744995.3	1013145	8.5	9.5	11.2	9.2	A984P/A398Q	3.26%	
11/11/1997	SEAD-12	8	Regional	744999.6	1013045	8	9	11.5	9.2	A984P/A398Q	-2.17%	
11/11/1997	SEAD-12	8	Regional	745004	1012945	8	9.4	11	9.2	A984P/A398Q	2.17%	

Appendix F  
Class III Areas Gamma Scanning Results  
SEAD-12 Remedial Investigation  
Seneca Army Depot

Collection Date	Site	Area	Grid	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
11/11/1997	SEAD-12	8	Regional	745008.4	1012845	7.2	8.9	10	9.2	A984P/A398Q	-3.26%	
11/11/1997	SEAD-12	8	Regional	745012.8	1012745	7.8	9.1	10.5	9.2	A984P/A398Q	-1.09%	
11/11/1997	SEAD-12	8	Regional	745017.1	1012645	8	9.1	10.8	9.2	A984P/A398Q	-1.09%	
11/11/1997	SEAD-12	8	Regional	745021.5	1012545	8	9.7	12	9.2	A984P/A398Q	5.43%	
11/11/1997	SEAD-12	8	Regional	745025.9	1012445	8	9.6	12	9.2	A984P/A398Q	4.35%	
11/11/1997	SEAD-12	8	Regional	745030.3	1012345	7.8	9.2	11	9.2	A984P/A398Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745034.6	1012245	7.5	9.3	11.5	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745038.3	1012160	6.5	8.4	10.5	9.2	A984P/A398Q	-8.70%	Road @ 430'
11/11/1997	SEAD-12	8	Regional	745032.1	1013446	7	9.2	11.8	9.1	A945P/A378Q	1.10%	
11/11/1997	SEAD-12	8	Regional	745036.4	1013347	7.5	9.1	10.8	9.1	A945P/A378Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745040.8	1013247	7.8	9.7	11.5	9.1	A945P/A378Q	6.59%	
11/11/1997	SEAD-12	8	Regional	745045.2	1013147	8	9.6	12.5	9.1	A945P/A378Q	5.49%	
11/11/1997	SEAD-12	8	Regional	745049.6	1013047	7.8	9.8	12.2	9.1	A945P/A378Q	7.69%	
11/11/1997	SEAD-12	8	Regional	745053.9	1012947	8.2	9.6	11.2	9.1	A945P/A378Q	5.49%	
11/11/1997	SEAD-12	8	Regional	745058.3	1012847	7.8	9.5	12	9.1	A945P/A378Q	4.40%	
11/11/1997	SEAD-12	8	Regional	745062.7	1012747	7.2	9.4	11.5	9.1	A945P/A378Q	3.30%	
11/11/1997	SEAD-12	8	Regional	745067.1	1012647	7.8	9	11.2	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	745071.4	1012547	8.2	8.9	11.8	9.1	A945P/A378Q	-2.20%	
11/11/1997	SEAD-12	8	Regional	745075.8	1012447	7.8	9.6	12.2	9.1	A945P/A378Q	5.49%	
11/11/1997	SEAD-12	8	Regional	745080.2	1012348	7.2	9.3	11.5	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	745084.6	1012248	7.5	9.1	10.8	9.1	A945P/A378Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745088.9	1012148	7.8	9	11.5	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	745092	1012078	5.2	8.4	10.8	9.1	A945P/A378Q	-7.69%	
11/11/1997	SEAD-12	8	Regional	745082	1013449	8	9.5	11.5	9.2	A984P/A398Q	3.26%	
11/11/1997	SEAD-12	8	Regional	745086.4	1013349	7.8	9.4	11	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745090.8	1013249	7.5	9.4	11.2	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745095.1	1013149	7.8	9.5	11.5	9.2	A984P/A398Q	3.26%	
11/11/1997	SEAD-12	8	Regional	745099.5	1013049	8	9.3	11.2	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745103.9	1012949	8	9.5	11.5	9.2	A984P/A398Q	3.26%	
11/11/1997	SEAD-12	8	Regional	745108.3	1012849	7.5	9.5	11.2	9.2	A984P/A398Q	3.26%	
11/11/1997	SEAD-12	8	Regional	745112.6	1012749	7.8	9.4	11.5	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745117	1012649	7.8	9.4	11.2	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745121.4	1012550	7.5	9	11	9.2	A984P/A398Q	-2.17%	
11/11/1997	SEAD-12	8	Regional	745125.8	1012450	7.5	9.3	11.2	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745130.1	1012350	7.5	9.7	11.5	9.2	A984P/A398Q	5.43%	
11/11/1997	SEAD-12	8	Regional	745134.5	1012250	7.5	9.1	11.2	9.2	A984P/A398Q	-1.09%	
11/11/1997	SEAD-12	8	Regional	745138.9	1012150	7	9	10.5	9.2	A984P/A398Q	-2.17%	
11/11/1997	SEAD-12	8	Regional	745143.3	1012050	7.5	9.3	10.8	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745146.1	1011985	6	8.1	10.5	9.2	A984P/A398Q	-11.96%	
11/11/1997	SEAD-12	8	Regional	745131.9	1013451	7.2	9.4	12.8	9.1	A945P/A378Q	3.30%	
11/11/1997	SEAD-12	8	Regional	745136.3	1013351	8	9.3	12.2	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	745140.7	1013251	6.8	9.3	11.2	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	745145.1	1013151	8.2	9.7	12	9.1	A945P/A378Q	6.59%	
11/11/1997	SEAD-12	8	Regional	745149.5	1013051	7.5	9.7	11.5	9.1	A945P/A378Q	6.59%	
11/11/1997	SEAD-12	8	Regional	745153.9	1012951	8.2	9.6	12.5	9.1	A945P/A378Q	5.49%	
11/11/1997	SEAD-12	8	Regional	745158.3	1012851	7.2	9.4	11.2	9.1	A945P/A378Q	3.30%	
11/11/1997	SEAD-12	8	Regional	745162.6	1012751	7.8	9.5	12.2	9.1	A945P/A378Q	4.40%	
11/11/1997	SEAD-12	8	Regional	745167	1012652	7.5	9.6	11.5	9.1	A945P/A378Q	5.49%	
11/11/1997	SEAD-12	8	Regional	745171.4	1012552	6.8	9.2	11	9.1	A945P/A378Q	1.10%	
11/11/1997	SEAD-12	8	Regional	745175.8	1012452	7.8	9.3	11.2	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	745180.1	1012352	7.2	9.3	12.5	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	745184.5	1012252	8.2	9.7	12	9.1	A945P/A378Q	6.59%	
11/11/1997	SEAD-12	8	Regional	745188.9	1012152	7.8	9.1	11.8	9.1	A945P/A378Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745193.3	1012052	7.2	9.3	10.2	9.1	A945P/A378Q	2.20%	
11/11/1997	SEAD-12	8	Regional	745197.6	1011952	7.8	9.5	10.5	9.1	A945P/A378Q	4.40%	
11/11/1997	SEAD-12	8	Regional	745200.5	1011886	5.2	8.5	11.8	9.1	A945P/A378Q	-6.59%	
11/11/1997	SEAD-12	8	Regional	745181.9	1013453	7	9.7	13	9.2	A984P/A398Q	5.43%	RR Tracks @ 1795'
11/11/1997	SEAD-12	8	Regional	745186.3	1013353	8	9.2	11	9.2	A984P/A398Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745190.7	1013253	8	9.4	11.8	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745195.1	1013153	8	9.6	12	9.2	A984P/A398Q	4.35%	
11/11/1997	SEAD-12	8	Regional	745199.4	1013053	8.5	10	12	9.2	A984P/A398Q	8.70%	
11/11/1997	SEAD-12	8	Regional	745203.8	1012953	8	9.6	11.5	9.2	A984P/A398Q	4.35%	
11/11/1997	SEAD-12	8	Regional	745208.2	1012854	8	9.3	11.5	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745212.6	1012754	8	9.6	11.5	9.2	A984P/A398Q	4.35%	
11/11/1997	SEAD-12	8	Regional	745216.9	1012654	7.8	9.2	11	9.2	A984P/A398Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745221.3	1012554	8	9.4	11	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745225.7	1012454	8	9.2	11	9.2	A984P/A398Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745230.1	1012354	8	9.4	12	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745234.4	1012254	7.8	9.3	11	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745238.8	1012154	7.5	9.3	12	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745243.2	1012054	8	9.4	11	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745247.6	1011954	8	9.5	11.5	9.2	A984P/A398Q	3.26%	
11/11/1997	SEAD-12	8	Regional	745251.9	1011855	8.5	9.7	12	9.2	A984P/A398Q	5.43%	
11/11/1997	SEAD-12	8	Regional	745254.4	1011797	7	9.3	11.8	9.2	A984P/A398Q	1.09%	Road @ 65'
11/11/1997	SEAD-12	8	Regional	745231.9	1013455	4.8	9.3	13.2	9.1	A945P/A378Q	2.20%	RR Tracks 1705-1725'
11/11/1997	SEAD-12	8	Regional	745236.3	1013355	7.5	9.5	12.8	9.1	A945P/A378Q	4.40%	
11/11/1997	SEAD-12	8	Regional	745240.6	1013255	8	9.1	11.2	9.1	A945P/A378Q	0.00%	
11/11/1997	SEAD-12	8	Regional	745245	1013155	6.5	9.4	10.5	9.1	A945P/A378Q	3.30%	1450'-1320' very wet, some standing water
11/11/1997	SEAD-12	8	Regional	745249.4	1013056	7.8	9.2	11.8	9.1	A945P/A378Q	1.10%	
11/11/1997	SEAD-12	8	Regional	745253.8	1012956	7.2	9.7	11.5	9.1	A945P/A378Q	6.59%	
11/11/1997	SEAD-12	8	Regional	745258.1	1012856	7.5	9.6	12.2	9.1	A945P/A378Q	5.49%	
11/11/1997	SEAD-12	8	Regional	745262.5	1012756	7.8	9.5	11	9.1	A945P/A378Q	4.40%	
11/11/1997	SEAD-12	8	Regional	745266.9	1012656	8.2	9.5	11.5	9.1	A945P/A378Q	4.40%	
11/11/1997	SEAD-12	8	Regional	745271.3	1012556	6.8	9.2	11.2	9.1	A945P/A378Q	1.10%	
11/11/1997	SEAD-12	8	Regional	745275.6	1012456	7.2	9.2	10.8	9.1	A945P/A378Q	1.10%	
11/11/1997	SEAD-12	8	Regional	745280	1012356	6.5	8.7	10.2	9.1	A945P/A378Q	-4.40%	
11/11/1997	SEAD-12	8	Regional	745284.4	1012256	6.8	9	11.5	9.1	A945P/A378Q	-1.10%	
11/11/1997	SEAD-12	8	Regional	745288.8	1012156	6.2	8.4	10.5	9.1	A945P/A378Q	-7.69%	
11/11/1997	SEAD-12	8	Regional	745293.1	1012057	6.5	9.7	12.8	9.1	A945P/A378Q	6.59%	
11/11/1997	SEAD-12	8	Regional	745297.5	1011957	7.2	9.5	11.5	9.1	A945P/A378Q	4.40%	

Appendix F  
 Class III Areas Gamma Scanning Results  
 SEAD-12 Remedial Investigation  
 Seneca Army Depot

Collection Date	Site	Area	Grnd	NAD-27		Min	Mean	Max	Background	Instrument	% +/- Background	Comments
				easting	northing							
11/11/1997	SEAD-12	8	Regional	745301.9	1011857	7.5	10	13.8	9.1	A945P/A378Q	9.89%	
11/11/1997	SEAD-12	8	Regional	745305.8	1011767	5.8	10.8	13.5	9.1	A945P/A378Q	18.68%	Shale bank
11/11/1997	SEAD-12	8	Regional	745281.9	1013455	7.8	9.3	11	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745286.2	1013357	7	8.9	10.5	9.2	A984P/A398Q	-3.26%	RR Tracks @ 1675'
11/11/1997	SEAD-12	8	Regional	745290.6	1013258	8.5	10	12	9.2	A984P/A398Q	8.70%	
11/11/1997	SEAD-12	8	Regional	745294.9	1013158	8.5	9.9	12	9.2	A984P/A398Q	7.61%	
11/11/1997	SEAD-12	8	Regional	745299.3	1013058	8	9.7	11.5	9.2	A984P/A398Q	5.43%	
11/11/1997	SEAD-12	8	Regional	745303.7	1012958	8	9.8	11.8	9.2	A984P/A398Q	6.52%	
11/11/1997	SEAD-12	8	Regional	745308.1	1012858	8	9.7	12	9.2	A984P/A398Q	5.43%	
11/11/1997	SEAD-12	8	Regional	745312.4	1012758	7.5	9.4	11.5	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745316.8	1012658	8	9.4	11.5	9.2	A984P/A398Q	2.17%	
11/11/1997	SEAD-12	8	Regional	745321.2	1012558	8	10.2	12	9.2	A984P/A398Q	10.87%	
11/11/1997	SEAD-12	8	Regional	745325.6	1012458	8	9.8	12.5	9.2	A984P/A398Q	6.52%	
11/11/1997	SEAD-12	8	Regional	745329.9	1012358	8	9.6	12	9.2	A984P/A398Q	4.35%	
11/11/1997	SEAD-12	8	Regional	745334.3	1012259	8.5	9.8	11.5	9.2	A984P/A398Q	6.52%	
11/11/1997	SEAD-12	8	Regional	745338.7	1012159	8.5	10.1	12.5	9.2	A984P/A398Q	9.78%	
11/11/1997	SEAD-12	8	Regional	745343.1	1012059	8.5	9.9	12.5	9.2	A984P/A398Q	7.61%	
11/11/1997	SEAD-12	8	Regional	745347.4	1011959	8	9.8	11.5	9.2	A984P/A398Q	6.52%	
11/11/1997	SEAD-12	8	Regional	745351.8	1011859	8	9.7	11.5	9.2	A984P/A398Q	5.43%	
11/11/1997	SEAD-12	8	Regional	745356.2	1011759	8	9.7	11.2	9.2	A984P/A398Q	5.43%	
11/11/1997	SEAD-12	8	Regional	745331.8	1013460	5.8	7.7	9.5	9.1	A945P/A378Q	-15.38%	
11/11/1997	SEAD-12	8	Regional	745336.1	1013360	5.2	7.7	10.2	9.1	A945P/A378Q	-15.38%	
11/11/1997	SEAD-12	8	Regional	745340.5	1013260	6.2	8.1	9.8	9.1	A945P/A378Q	-10.99%	
11/11/1997	SEAD-12	8	Regional	745344.9	1013160	5.5	7.4	10	9.1	A945P/A378Q	-18.68%	
11/11/1997	SEAD-12	8	Regional	745349.3	1013060	6.5	7.8	9.5	9.1	A945P/A378Q	-14.29%	
11/11/1997	SEAD-12	8	Regional	745353.6	1012960	6.8	8.3	10.2	9.1	A945P/A378Q	-8.79%	
11/11/1997	SEAD-12	8	Regional	745358	1012860	6.2	7.9	10.8	9.1	A945P/A378Q	-13.19%	
11/11/1997	SEAD-12	8	Regional	745362.4	1012760	5.8	6.6	10.5	9.1	A945P/A378Q	-27.47%	
11/11/1997	SEAD-12	8	Regional	745366.8	1012660	5.2	6.3	9.5	9.1	A945P/A378Q	-30.77%	
11/11/1997	SEAD-12	8	Regional	745371.2	1012560	5	6.2	8	9.2	A984P/A398Q	-32.61%	
11/11/1997	SEAD-12	8	Regional	745375.6	1012461	5.5	6.4	9	9.2	A984P/A398Q	-30.43%	
11/11/1997	SEAD-12	8	Regional	745379.9	1012361	5.5	6.4	8	9.2	A984P/A398Q	-30.43%	
11/11/1997	SEAD-12	8	Regional	745384.3	1012261	5.5	6.8	8.5	9.2	A984P/A398Q	-26.09%	
11/11/1997	SEAD-12	8	Regional	745388.7	1012161	5	6.8	8.5	9.2	A984P/A398Q	-26.09%	
11/11/1997	SEAD-12	8	Regional	745393.1	1012061	6	7	9.5	9.2	A984P/A398Q	-23.91%	
11/11/1997	SEAD-12	8	Regional	745397.4	1011961	7.5	9.3	11	9.2	A984P/A398Q	1.09%	
11/11/1997	SEAD-12	8	Regional	745401.8	1011861	9	10.4	13	9.2	A984P/A398Q	13.04%	
11/11/1997	SEAD-12	8	Regional	745406.2	1011761	5.5	8.8	12.5	9.2	A984P/A398Q	-4.35%	
											1.78%	
											30.85%	



C

## APPENDIX G

### BACKGROUND AND PHASE I RI DATA-SOIL

#### CHEMICAL INORGANICS DATA-SOIL

- **FIGURE G-1: LOCATION OF SOIL BACKGROUND SAMPLES**
- **TABLE G-1: BACKGROUND DATA-SOIL**
- **TABLE G-2: BLDG 819/EM-27-SURFACE SOIL**
- **TABLE G-3: BLDG 819/EM-27-SUBSURFACE SOIL**
- **TABLE G-4: BLDG 815/816/EM-28-SURFACE SOIL**
- **TABLE G-5: BLDG 815/816/EM-28-SUBSURFACE SOIL**
- **TABLE G-6: DISPOSAL PIT A/B-SURFACE SOIL**
- **TABLE G-7: DISPOSAL PIT A/B-SUBSURFACE SOIL**
- **TABLE G-8: DISPOSAL PIT C-SURFACE SOIL**
- **TABLE G-9: DISPOSAL PIT C-SUBSURFACE SOIL**
- **TABLE G-10: FORMER DRY WASTE DISPOSAL PIT-SURFACE SOIL**
- **TABLE G-11: FORMER DRY WASTE DISPOSAL PIT-SUBSURFACE SOIL**
- **TABLE G-12: EM-5-SURFACE SOIL**
- **TABLE G-13: EM-5-SUBSURFACE SOIL**
- **TABLE G-14: EM-6-SURFACE SOIL**
- **TABLE G-15: EM-6-SUBSURFACE SOIL**
- **TABLE G-16: CLASS III-SURFACE SOIL**
- **TABLE G-17: CLASS III-SUBSURFACE SOIL**
- **TABLE G-18: WASTE WATER TREATMENT PLANT OUTFALL-SURFACE SOIL**



1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is essential for the proper management of the organization's finances and for ensuring compliance with applicable laws and regulations.

2. The second part of the document outlines the specific procedures that should be followed when recording transactions. This includes the requirement that all transactions be supported by appropriate documentation, such as invoices, receipts, and contracts. It also discusses the importance of ensuring that the records are kept in a secure and accessible location.

3. The third part of the document discusses the role of the accounting department in maintaining the records. It notes that the accounting department is responsible for ensuring that all transactions are recorded accurately and in a timely manner. It also discusses the importance of the accounting department in providing accurate financial information to management and other stakeholders.

4. The fourth part of the document discusses the importance of regular audits of the records. It notes that audits are essential for identifying any errors or irregularities in the records and for ensuring that the records are accurate and complete. It also discusses the importance of the accounting department in conducting these audits and in providing the necessary support to the auditors.

5. The fifth part of the document discusses the importance of maintaining the records for a sufficient period of time. It notes that records should be kept for at least as long as is required by applicable laws and regulations. It also discusses the importance of the accounting department in ensuring that the records are properly maintained and that they are available for review when needed.

11/10/2023

Accounting Department

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TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID											B-9-91	B-9-91	BK-1	BK-2	GB35
QC CODE											SA	SA	SA	SA	SA
STUDY ID											RI PHASE1	RI PHASE1	RI PHASE1	RI PHASE1	RI PHASE
TOP															
BOTTOM															
MATRIX											SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE DATE											11/5/91	11/5/91	12/16/92	12/16/92	1/20/93
SAMP ID											S1105-29SOIL1	S1105-30RESOIL1	BK-1SOIL3	BK-2RESOIL3	GB35-1G
VOLATILE ORGANICS	UNIT	MAXIMUM	ARITHMETIC AVERAGE	FREQUENCY OF DETECTION	TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	OIL1 Q	VALUE	VALUE	VALUE	VALUE	VALUE	
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57		8880	7160	19400	14400	18000	
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	UJ	9.9 UJ	7 UJ	7.9 U	7.2 U	5.8	
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57	J	3.8 J	4.4 J	3	2.7	6.2	
Barium	MG/KG	159	78.43	100%	300	0	57	57	J	110 J	399 J	159	106	93.6	
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57		0.76	0.52 J	1.1	0.81	0.85	
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57		1.7	1.5	0.45 U	0.41 U	0.33	
Calcium	MG/KG	293000	45450	100%	125300	2	57	57		104000	101000	4590	22500	1590	
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57	J	13.8 J	11.2 J	30	22.3	23.5	
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57		10.7	8.1	14.4	12.3	9.4	
Copper	MG/KG	62.8	20.99	100%	33	3	57	57		21.6	19.3	26.9	18.8	17.5	
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	U	0.63 U	0.62 U	0.57 U	0.61 U	0.78	
Iron	MG/KG	38600	24705	100%	37410	2	57	57		19600	17300	<b>38600</b>	26600	25200	
Lead	MG/KG	266	17.39	95%	24.4	3	54	57		10.1	7.8	15.8	18.9	14.4	
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54		17000	12600	5980	7910	3850	
Manganese	MG/KG	2380	608	95%	1100	2	54	57		532	514	<b>2380</b>	800	701	
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	J	0.04 J	0.05 J	<b>0.13 J</b>	<b>0.11</b>	0.06	
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57		23.8	19	47.7	31	26.3	
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57		1080	1050	1720	1210	1110	
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	UJ	0.65 UJ	0.21 UJ	0.73 J	0.94	0.23	
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	U	1.5 U	1.1 U	0.47 U	0.43 U	0.34	
Sodium	MG/KG	269	87.04	82%	188	2	47	57	J	112 J	116 J	49.1 J	61.1 J	35.6	
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	U	0.36 U	0.6 U	0.42 U	0.38 U	0.55	
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57		19.5	12.9	28	22.4	27.1	
Zinc	MG/KG	126	71.57	95%	115	2	54	57	J	84.3 J	74.8 J	98.6	63.7	55	

Note:  
Arithmetic average was calculated by using the half detection limit for the non-detects



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID										GB35	GB35	GB36	GB36	MW-36
QC CODE										SA	DU	SA	SA	SA
STUDY ID										RI PHASE1	RI PHASE1	RI PHASE1	RI PHASE1	RI Phase 1 Step 1
TOP														-1
BOTTOM														-1
MATRIX										SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE DATE				FREQUENCY		NUMBER	NUMBER	NUMBER		1/20/93	1/20/93	1/20/93	1/20/93	11-Jan-93
SAMP ID		ARITHMETIC	OF		ABOVE	OF	OF	ID		GB35-2GRID	GB35-6DUGRID	GB36-1GRID	GB36-2GRID	MW36-3GRID
VOLATILE ORGANICS	UNIT	MAXIMUM	AVERAGE	DETECTION	TAGM	TAGM	DETECTS	ANALYSES	Q	VALUE	Q	VALUE	Q	VALUE
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57		17600	16200	18100	16200	12700
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	UJ	6.8 J	6.3 J	5.9 J	5.8 UJ	5.7
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57		7.7	5.3	4.6	9.7	2.9
Barium	MG/KG	159	78.43	100%	300	0	57	57		61.7	61.7	74.8	50.8	46.9
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57		0.74	0.77	0.77	0.65	0.59
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	U	0.31 U	0.35 U	0.3 U	0.33 U	0.33
Calcium	MG/KG	293000	45450	100%	125300	2	57	57		17700	1370	1660	22900	4170
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57		29.3	25.1	24.8	27.4	23.3
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57		16.3	10.3	20.4	13.2	18.6
Copper	MG/KG	62.8	20.99	100%	33	3	57	57		24.5	17.2	17.7	17.5	19.2
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	U	0.71 U	0.82 U	0.7 U	0.68 U	0.56
Iron	MG/KG	38600	24705	100%	37410	2	57	57		34200	30800	26100	30700	27500
Lead	MG/KG	266	17.39	95%	24.4	3	54	57		5.4	19.1	12.7	6.2	20.2
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54		7790	4490	4490	7150	5750
Manganese	MG/KG	2380	608	95%	1100	2	54	57		646	775	426	507	540
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	J	0.03 U	0.07 J	0.02 J	0.02 J	0.02
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57		48.7	28.3	28.3	42.8	43.3
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57		1110	975	1400	1100	754
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	UJ	0.23 UJ	0.21 UJ	0.2 UJ	0.18 UJ	0.19
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	U	0.32 U	0.36 U	0.31 U	0.34 U	0.34
Sodium	MG/KG	269	87.04	82%	188	2	47	57	J	77.5 J	34.6 J	46.6 J	97.6 J	31.6
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	U	0.54 U	0.5 U	0.46 U	0.43 U	0.45
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57		22.3	26.1	27.8	19.7	16.2
Zinc	MG/KG	126	71.57	95%	115	2	54	57		83.4	53.1	59.2	74.1	34.7

Note:  
Arithmetic average was calculated by using the half detection limit for the non-detects.



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID	QC CODE	STUDY ID	TOP	BOTTOM	MATRIX	SAMPLE DATE	SAMP ID	VOLATILE ORGANICS	UNIT	MAXIMUM	ARITHMETIC AVERAGE	FREQUENCY OF DETECTION	TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	Q	MW-34 SA RI PHASE1	SB24-5 SA ESI	SB24-5 SA ESI	SB24-5 SA ESI	MW25-1 SA ESI	
																		VALUE	VALUE Q	VALUE Q	VALUE Q	VALUE	
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57		16100	16200	10100	13700	10600									
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	UJ	5.7	12.5	5.8	11.3	4.2									4.2
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57	J	6.3	4.2	3.3	5	8.3									8.3
Barium	MG/KG	159	78.43	100%	300	0	57	57	J	67.5	117	58.3	67.2	59.1									59.1
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57		0.86	0.98	0.48	0.62	0.48									0.48
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	U	2.3	0.78	0.36	0.7	0.41									0.41
Calcium	MG/KG	293000	45450	100%	125300	2	57	57		28600	4540	74200	49000	82500									
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57	J	26.6	24.5	16.9	23.1	16.9									16.9
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57		17	16	8.2	12	11.2									11.2
Copper	MG/KG	62.8	20.99	100%	33	3	57	57	J	32.7	28.4	20.9	22.2	20.2									20.2
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	U	0.54	0.6	0.51	0.57	0.58									0.58
Iron	MG/KG	38600	24705	100%	37410	2	57	57		35000	33600	21300	26700	21400									
Lead	MG/KG	266	17.39	95%	24.4	3	54	57		11.9	45.5	8.7	7.9	9.5									9.5
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54		6850	5150	12100	11400	19600									
Manganese	MG/KG	2380	608	95%	1100	2	54	57		803	1080	400	450	722									
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	J	0.07	0.07	0.06	0.04	0.03									0.03
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57	J	49.3	37.3	26.4	35.2	26.8									26.8
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57		1290	1170	993	1660	1480									
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	UJ	0.18	0.15	0.23	0.22	0.97									0.97
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	U	0.87	1.6	0.73	1.4	0.82									0.82
Sodium	MG/KG	269	87.04	82%	188	2	47	57	U	55.2	50.9	153	139	269									269
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	U	0.51	0.16	0.25	0.24	0.24									0.24
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57	J	22.3	29.9	14.4	19.5	18.5									18.5
Zinc	MG/KG	126	71.57	95%	115	2	54	57	J	95.7	85.7	62.8	63.2	71.6									71.6

Note  
Arithmetic average was calculated by using the half detection limit for the non-detects





TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID	QC CODE	STUDY ID	TOP	BOTTOM	MATRIX	SAMPLE DATE	SAMP ID	UNIT	MAXIMUM	ARITHMETIC AVERAGE	FREQUENCY OF DETECTION	TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	Q	MW25-1 SA	MW25-6 SA	MW25-6 SA	MW25-6 SA	MW25-6 DU	MW64A-1 SA
																	2	0	4	6	0	0
																	4	0 17	6	8	0 17	0 2
																	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
																	12/3/93	9/25/95	9/25/95	9/25/95	9/25/95	4/2/94
																	SB25-6-02	SB25-7-00	SB25-7-03	SB25-7-04	SB25-7-10	MW64A-1
																	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57									7070	12500	8020	7550	12500	16100
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	U								3 U	0.4	0.42 UJ	0.44 U	0.4 UJ	0.23
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57									4.8	4.3	4.1	3.4	4.3	7.1
Barium	MG/KG	159	78.43	100%	300	0	57	57									35	71.3	58	52	71.3	83.7
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	J								0.35 J	0.56	0.43	0.39	0.56	0.68
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	U								0.29 U	0.05 U	0.06 U	0.06 U	0.05 U	0.11
Calcium	MG/KG	293000	45450	100%	125300	2	57	57									122000	47400 J	120000 J	133000 J	47400 J	7210
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57									11.3	16.9 J	13.7 J	12.4 J	16.9 J	23
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57									6.6 J	8	8.2	6.9	8	11.8
Copper	MG/KG	62.8	20.99	100%	33	3	57	57	J								12 J	15.7	17.7	16.4	15.7	25.5
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	U								0.64 U	0.44 U	0.57 U	0.51 U	0.444 U	0.66
Iron	MG/KG	38600	24705	100%	37410	2	57	57									15800	20500	18900	15400	20500	28500
Lead	MG/KG	266	17.39	95%	24.4	3	54	57									13.8	11.1	7	6.5	11.1	21.6
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54									22800	11700	17400	20700	11700	5480
Manganese	MG/KG	2380	608	95%	1100	2	54	57	J								610 J	452	735	402	452	558
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	J								0.04 U	0.03	0.02	0.01	0.03	0.05
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57									18	22.3	26.4	22.4	22.3	32.2
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57									1060	1110	1280	1430	1110	2590
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	J								0.63 J	0.63 U	0.7 U	0.74 U	0.66 U	0.96
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	U								0.59 U	0.89 U	0.98 U	1 U	0.92 U	0.12
Sodium	MG/KG	269	87.04	82%	188	2	47	57	J								186 J	59.9	89.1	110	57.5	27.5
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	UJ								0.21 UJ	1.2	1.1	0.6 U	1.2	0.42
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57									12	21	13.4	13.7	21	27.6
Zinc	MG/KG	126	71.57	95%	115	2	54	57	J								40.6 J	54.1	64.9	65.1	54.1	104

Note  
Arithmetic average was calculated by using the half detection limit for the non-detects.



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID	QC CODE	STUDY ID	TOP	BOTTOM	MATRIX	SAMPLE DATE	FREQUENCY	NUMBER	NUMBER	NUMBER	MW64A-1	MW64A-1	MW64B-1	MW64B-1	MW64B-1
SAMP ID	UNIT	MAXIMUM	ARITHMETIC	OF	TAGM	ABOVE	OF	OF	1	Q	SA	SA	SA	SA	SA
VOLATILE ORGANICS	UNIT	MAXIMUM	AVERAGE	DETECTION	TAGM	TAGM	DETECTS	ANALYSES	Q	Q	ESI	ESI	ESI	ESI	ESI
											SOIL	SOIL	SOIL	SOIL	SOIL
											4/2/94	4/2/94	5/13/94	5/13/94	5/13/94
											MW64A-1-2	MW64A-1-3	MW64B-1-1	MW64B-1-2	MW64B-1
											VALUE	VALUE	VALUE	VALUE	VALUE
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57			19800	12600	13400	8870	7620
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	J		0.2 UJ	0.2 UJ	0.3 J	0.15 UJ	0.15
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57			8.2	5	5.5	4.3	5.5
Barium	MG/KG	159	78.43	100%	300	0	57	57			91.2	62.3	75.5	70.8	76.7
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	J		0.74 J	0.53 J	0.56 J	0.43 J	0.37
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	J		0.02 U	0.12 J	0.63 J	0.64 J	0.54
Calcium	MG/KG	293000	45450	100%	125300	2	57	57			4300	72400	5530	70000	75900
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57			25	19	17.5	14.1	13.5
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57			11.3	9.1 J	7.2 J	10	7.4
Copper	MG/KG	62.8	20.99	100%	33	3	57	57			21	23.7	18.9	20.2	17.6
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	U		0.56 U	0.55 U	0.6 U	0.5 U	0.48
Iron	MG/KG	38600	24705	100%	37410	2	57	57			28000	22600	20900	18400	17100
Lead	MG/KG	266	17.39	95%	24.4	3	54	57			13.6	15.4	21.4	8.8	8.3
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54			5010	14800	3720	18900	21500
Manganese	MG/KG	2380	608	95%	1100	2	54	57			604	402	207	434	389
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	J		0.03 J	0.02 J	0.05 J	0.02 J	0.01
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57			28.6	26.7	19.8	28.2	22.6
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57	J		2260 J	2700 J	1700	1630	1650
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57			1.7	0.34 U	0.99 J	0.26 U	0.57
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	U		0.14 U	0.14 U	0.16 UJ	0.11 UJ	0.11
Sodium	MG/KG	269	87.04	82%	188	2	47	57	U		31.8 U	92.1 J	35.9 U	96.8 J	79.6
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	J		0.32 U	0.32 U	0.41 J	0.24 U	0.24
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57			32.2	22.8	23.3	14.8	14.2
Zinc	MG/KG	126	71.57	95%	115	2	54	57			87.1	64.9	72.2	59	45.6

Note:  
Arithmetic average was calculated by using the half detection limit for the non-detects.



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID										MW64B-1	MW67-2	MW67-2	MW67-2	MW70-1
QC CODE										SA	SA	SA	SA	SA
STUDY ID										ESI	ESI	ESI	ESI	ESI
TOP										6	0	2	4	0
BOTTOM										8	0.2	4	5	0.2
MATRIX										SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE DATE				FREQUENCY		NUMBER		NUMBER		13-May-94	3/30/94	3/30/94	3/30/94	5/11/94
SAMP ID		ARITHMETIC		OF		ABOVE		OF		MW64B-1-04	MW67-2-1	MW67-2-2	MW67-2-3	MW70-1-1
VOLATILE ORGANICS	UNIT	MAXIMUM	AVERAGE	DETECTION	TAGM	TAGM	DETECTS	ANALYSES	Q	VALUE Q	VALUE Q	VALUE Q	VALUE Q	VALUE
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57		7620	16700	14900	9460	12200
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	UJ	0.15 UJ	0.27 J	0.22 J	0.2 UJ	0.23
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57		5.5	4.4	4.5	4.2	5.4
Barium	MG/KG	159	78.43	100%	300	0	57	57		76.7	114	105	80.8	67.5
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	J	0.37 J	0.67 J	0.61 J	0.4 J	0.44
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	J	0.54 J	0.2 J	0.11 J	0.12 J	0.57
Calcium	MG/KG	293000	45450	100%	125300	2	57	57		75900	3580	79000	77800	3600
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57		13.5	19.5	22.5	14.8	13.7
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57	J	7.4 J	7.5 J	10.4 J	9.7 J	5.5
Copper	MG/KG	62.8	20.99	100%	33	3	57	57		17.6	16.5	20.3	20.5	12.4
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	U	0.48 U	0.64 U	0.5 U	0.54 U	
Iron	MG/KG	38600	24705	100%	37410	2	57	57		17100	20500	24400	18700	17700
Lead	MG/KG	266	17.39	95%	24.4	3	54	57		8.3	17.5	9.3	8.5	20.7
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54		21500				2830
Manganese	MG/KG	2380	608	95%	1100	2	54	57		389	438	528	411	233
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	U	0.01 U	0.04	0.01 J	0.02 J	0.1
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57		22.6	18.7	32.3	25.9	12.3
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57		1650	1780 J	3160 J	1970 J	982
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	J	0.57 J	0.81	0.36 U	0.34 U	1
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	UJ	0.11 UJ	0.11 U	0.15 U	0.14 U	
Sodium	MG/KG	269	87.04	82%	188	2	47	57	J	79.6 J	25.1 U	112 J	107 J	36.4
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	U	0.24 U	0.48 J	0.34 U	0.32 U	
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57		14.2	28.2	24.8	16.5	23.3
Zinc	MG/KG	126	71.57	95%	115	2	54	57		45.600	64.8	62	60.1	55.4

Note:  
Arithmetic average was calculated by using the half detection limit for the non-detects



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID	QC CODE	STUDY ID:	TOP	BOTTOM	MATRIX	SAMPLE DATE	SAMP ID	VOLATILE ORGANICS	UNIT	MAXIMUM	ARITHMETIC AVERAGE	FREQUENCY OF DETECTION	TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	Q	MW70-1 SA ESI	MW70-1 SA ESI	SB11-3 SA ESI	SB11-3 SA ESI	SB11-3 SA ESI
																		2	4	0	2	10
																		4	6	2	4	12
																		SOIL	SOIL	SOIL	SOIL	SOIL
																		5/11/94	5/11/94	11/2/93	11/2/93	11/3/93
																		MW70-1-2	MW70-1-3	SB11-3-1	SB11-3-2	SB11-3-6
																		VALUE	VALUE	VALUE	VALUE	VALUE
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57										9480	11000	17600	6330	10900
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	UJ									0.21	0.19	10.8	8	7.6
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57										4.1	5.7	5.6	3.4	6
Barium	MG/KG	159	78.43	100%	300	0	57	57										56.6	79.9	113	57.4	62.7
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	J									0.41	0.54	0.85	0.34	0.47
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	J									0.43	0.8	0.67	0.5	0.48
Calcium	MG/KG	293000	45450	100%	125300	2	57	57										51600	48600	4950	91300	48600
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57										14.7	17.8	24	11.1	18.6
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57	J									7.1	21	11.3	6.5	10.1
Copper	MG/KG	62.8	20.99	100%	33	3	57	57										19.7	33.5	20	12.2	21.7
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51												0.57	0.47	0.53
Iron	MG/KG	38600	24705	100%	37410	2	57	57										16000	26400	27200	13200	28300
Lead	MG/KG	266	17.39	95%	24.4	3	54	57										9.1	13.6	27.9	11.4	10.1
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54										13600	7980	4160	12900	10100
Manganese	MG/KG	2380	608	95%	1100	2	54	57										470	1040	674	356	434
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	J									0.03	0.02	0.05	0.04	0.03
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57										17.6	52.4	28.3	16.7	29.5
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57	J									1590	1350	2110	1110	1230
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	J									0.64	0.32	0.24	0.13	0.21
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54												1.4	1	0.97
Sodium	MG/KG	269	87.04	82%	188	2	47	57	U									126	165	66.3	136	146
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54												0.19	1.5	0.23
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57										17.2	17.6	31.8	13.3	17
Zinc	MG/KG	126	71.57	95%	115	2	54	57										42.4	116	83.2	65	77.3

Note  
Arithmetic average was calculated by using the half detection limit for the non-detects





TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID											SB13-1	SB13-1	SB13-1	MW13-6
QC CODE											SA	SA	SA	SA
STUDY ID											ESI	ESI	ESI	ESI
TOP											0		6	0
BOTTOM											2		8	2
MATRIX											SOIL	SOIL	SOIL	SOIL
SAMPLE DATE:											12/8/93		12/8/93	15-Dec-93
SAMP ID	UNIT	MAXIMUM	ARITHMETIC	FREQUENCY	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	SB13-1-1	SB13-1-2	SB13-1-3	SB13-6-1
VOLATILE ORGANICS			AVERAGE	OF	ABOVE	OF	OF	OF	OF	OF	VALUE	VALUE	VALUE	VALUE
				DETECTION	TAGM	TAGM	DETECTS	ANALYSES	O	O	O	O	O	O
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57			18300	8250	11700	16000
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	UJ		5.1 J	3.7 UJ	2.8 UJ	3.2 UJ
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57	R		7	6.2	5.7	4.6
Barium	MG/KG	159	78.43	100%	300	0	57	57			106	88.1	33.9	103
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	J		0.92 J	0.42 J	0.54 J	0.92
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	U		0.45 U	0.36 U	0.27 U	0.31 U
Calcium	MG/KG	293000	45450	100%	125300	2	57	57			3570	87700	50300	5140
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57			29.4	13.3	19.6	21.5
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57			12	7.2 J	11.1	10.6
Copper	MG/KG	62.8	20.99	100%	33	3	57	57			11.6	18.4	17.6	16
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	U		0.61 U	0.5 U	0.53 U	0.6 U
Iron	MG/KG	38600	24705	100%	37410	2	57	57			32500	17400	24700	25300
Lead	MG/KG	266	17.39	95%	24.4	3	54	57			15	9 R	11.7 R	13.8
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54			5890	20800	12600	3750
Manganese	MG/KG	2380	608	95%	1100	2	54	57			451	517	404	934
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	U		0.03 J	0.07 J	0.02 U	0.03 J
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57			34.9	24	33.1	22.7
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57			2190	1390	1270	1330
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	UJ		0.26 J	0.56 J	0.51 J	1.2
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	UJ		0.9 U	0.71 U	0.54 U	0.62 U
Sodium	MG/KG	269	87.04	82%	188	2	47	57	J		80.6 J	155 J	134 J	61.9 J
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	U		0.43 J	0.43 J	0.64 J	0.18 U
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57			32.7	13.3	16.3	29.9
Zinc	MG/KG	126	71.57	95%	115	2	54	57	R		81.9	56.2	45.8	62.5

Note:  
Arithmetic average was calculated by using the half detection limit for the non-detects



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID									MW13-6	MW13-6	SB17-1	SB17-1	SB17-1
QC CODE									SA	SA	SA	SA	SA
STUDY ID								ESI	ESI	ESI	ESI	ESI	ESI
TOP								4	6	0	2	4	4
BOTTOM								6	8	2	4	6	6
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE DATE				FREQUENCY		NUMBER	NUMBER	NUMBER	15-Dec-93	15-Dec-93	12/1/93	12/1/93	12/1/93
SAMP ID		ARITHMETIC	OF		ABOVE	OF	OF		SB13-6-3	SB13-6-4	SB17-1-1	SB17-1-2	SB17-1-3
VOLATILE ORGANICS	UNIT	MAXIMUM	AVERAGE	DETECTION	TAGM	TAGM	DETECTS	ANALYSES	VALUE Q	VALUE Q	VALUE Q	VALUE Q	VALUE Q
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57	13500	10200	13700	18100	8700
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	2.5 UJ	2.9 UJ	11.7 UJ	11.8 UJ	9 UJ
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57	2.7	2.3	4.3	5.2	3.4
Barium	MG/KG	159	78.43	100%	300	0	57	57	60.4	56.8	107	114	59.4
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	0.71	0.58 J	0.7 J	0.9 J	0.42 J
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	0.25 U	0.28 U	0.73 U	0.74 U	0.56 U
Calcium	MG/KG	293000	45450	100%	125300	2	57	57	31800	45200	2870	20900	72800
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57	23.5	17.8	17.6	25.1	13.9
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57	15	11.3	9.9 J	13.3	8.8
Copper	MG/KG	62.8	20.99	100%	33	3	57	57	27.4	14.5	46.4	26.9	20
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	0.53 U	0.51 U	0 NA	0 NA	0 NA
Iron	MG/KG	38600	24705	100%	37410	2	57	57	26900	20700	25100	29900	18800
Lead	MG/KG	266	17.39	95%	24.4	3	54	57	11.6	11.7	266	11.4 J	7.5 J
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54	6640	5220	3330	8490	18100
Manganese	MG/KG	2380	608	95%	1100	2	54	57	508	556	547	487	391
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	0.01 U	0.01 U	0.05 J	0.06 J	0.03 UJ
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57	41.9	33	19.1	42	25.2
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57	1120	1000	628 J	1560	1090
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	0.11 J	0.24 J	0.25 UJ	0.24 UJ	0.14 UJ
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	0.49 U	0.56 U	1.5 U	1.5 U	1.1 U
Sodium	MG/KG	269	87.04	82%	188	2	47	57	116 J	141 J	46.2 J	74.6 J	137 J
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	0.14 U	0.23 U	0.28 UJ	0.26 UJ	0.15 UJ
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57	18.5	13.8	23.1	27	13.9
Zinc	MG/KG	126	71.57	95%	115	2	54	57	64.7	39.3	93.4	80.2	57.1

Note:  
Arithmetic average was calculated by using the half detection limit for the non-detects



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID										SB26-1	SB26-1	SB4-1	SB4-1	SB4-1		
QC CODE										SA	SA	SA	DU	SA		
STUDY ID										ESI	ESI	ESI	ESI	ESI		
TOP										0	2	0	0	4		
BOTTOM										2	4	2	2	6		
MATRIX										SOIL	SOIL	SOIL	SOIL	SOIL		
SAMPLE DATE										11/17/93	11/17/93	12/6/93	12/6/93	12/6/93		
SAMP ID										SB26-1-1	SB26-1-2	SB4-1-1	SB4-1-10	SB4-1-2		
VOLATILE ORGANICS	UNIT	MAXIMUM	ARITHMETIC	FREQUENCY	TAGM	NUMBER	NUMBER	NUMBER	VALUE	Q	VALUE	Q	VALUE	Q	VALUE	Q
			AVERAGE	OF		ABOVE	OF	OF								
				DETECTION		TAGM	DETECTS	ANALYSES								
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57	5560		9040		14800	<b>21000</b>		15300
Antimony	MG/KG	6.8	2.74	18%	6	2	10	57	7.3 UJ		6.7 UJ		4.8 UJ	3.8 UJ		5 UJ
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57	3.2		5.3		6.2	4.2		3.9
Barium	MG/KG	159	78.43	100%	300	0	57	57	73.2		43.7		72	97.7		40.4 J
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	0.35 J		0.41 J		0.73 J	0.64 J		0.74 J
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	0.46 U		0.42 U		0.47 U	0.37 U		0.49 U
Calcium	MG/KG	293000	45450	100%	125300	2	57	57	<b>293000</b>		47300		4280	2460		30900
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57	10.3		15.7		23.2	27.9		27.6
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57	5.9 J		9.5		11.3	5.9 J		16.5
Copper	MG/KG	62.8	20.99	100%	33	3	57	57	9.7		14.3		14.1	15.1		<b>62.8</b>
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	0.48 U		0.57 U		0.52 U	0.53 U		0.53 U
Iron	MG/KG	38600	24705	100%	37410	2	57	57	8770		19100		27500	19500		34300
Lead	MG/KG	266	17.39	95%	24.4	3	54	57	6.33		8.5		17.7 J	9.8 J		7.5 J
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54	<b>29100</b>		9160		4270	4460		7130
Manganese	MG/KG	2380	608	95%	1100	2	54	57	309		551		615 J	119 JR		337 R
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	0.02 U		0.02 U		0.05 J	0.04 J		0.04 J
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57	31.6 R		23.9		27.8	25.1		47.6
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57	1710		901		1250	2490		1300
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	0.13 UJ		0.26 J		0.4 J	0.23 J		0.09 U
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	0.92 UJ		0.85 UJ		0.93 U	0.74 U		0.98 U
Sodium	MG/KG	269	87.04	82%	188	2	47	57	<b>192 J</b>		108 J		43.8 U	39.2 J		105 J
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	0.73 U		0.17 U		0.23 U	0.23 U		0.16 U
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57	12.7		14.4		28.6	31		22.2
Zinc	MG/KG	126	71.57	95%	115	2	54	57	283 R		90.6		79.6	72.1		102

Note  
Arithmetic average was calculated by using the half detection limit for the non-detects.



TABLE G-1  
BACKGROUND METALS DATA-SOIL  
SENECA ARMY DEPOT ACTIVITY

LOC_ID	QC CODE	STUDY ID	TOP	BOTTOM	MATRIX	SAMPLE DATE	SAMP ID	VOLATILE ORGANICS	UNIT	MAXIMUM	ARITHMETIC AVERAGE	FREQUENCY OF DETECTION	TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SB4-1 12/6/93	TP57-11 11/8/93
																	SB4-1 SA ESI	TP57-11 SA ESI
																	8	3
																	10	3
																	SOIL	SOIL
																	12/6/93	11/8/93
																	SB4-1-3	TP57-11
																	VALUE	VALUE
																	Q	Q
Aluminum	MG/KG	21000	13341	100%	19520	3	57	57	19200	14600								
Antimony	MG/KG	5.8	2.74	18%	6	2	10	57	2.8	UJ								11.3
Arsenic	MG/KG	21.5	5.23	95%	8.9	2	54	57	21.5									5.9
Barium	MG/KG	159	78.43	100%	300	0	57	57	81.2									120
Beryllium	MG/KG	1.4	0.67	100%	1.13	2	57	57	1									0.81
Cadmium	MG/KG	2.9	0.52	35%	2.46	2	20	57	0.27	U								0.71
Calcium	MG/KG	293000	45450	100%	125300	2	57	57	14400	22300								
Chromium	MG/KG	32.7	20.32	100%	30	2	57	57	32.7									20.1
Cobalt	MG/KG	29.1	11.39	100%	30	0	57	57	29.1									8.8
Copper	MG/KG	62.8	20.99	100%	33	3	57	57	21.6									21.7
Cyanide	MG/KG	0.41	0.29	0%	0.35	0	0	51	0.47	U								0.54
Iron	MG/KG	38500	24705	100%	37410	2	57	57	37900	24900								
Lead	MG/KG	265	17.39	95%	24.4	3	54	57	9.1	J								11.3
Magnesium	MG/KG	29100	10290	100%	21700	2	54	54	8040	5360								
Manganese	MG/KG	2380	608	95%	1100	2	54	57	0									329
Mercury	MG/KG	0.13	0.038	72%	0.1	2	41	57	0.04	J								0.04
Nickel	MG/KG	62.3	30.94	98%	50	2	56	57	62.3									25.7
Potassium	MG/KG	3160	1487.2	100%	2623	2	57	57	2030	1430								
Selenium	MG/KG	1.7	0.35	40%	2	0	23	57	0.14	U								0.46
Silver	MG/KG	0.87	0.38	4%	0.8	1	2	54	0.64	J								1.4
Sodium	MG/KG	269	87.04	82%	188	2	47	57	91.6	J								93
Thallium	MG/KG	1.2	0.27	17%	0.855	3	9	54	0.24	U								0.17
Vanadium	MG/KG	32.7	21.41	100%	150	0	57	57	29.3									27.8
Zinc	MG/KG	126	71.57	95%	115	2	54	57	115									57.9

Note:  
Arithmetic average was calculated by using the half detection limit for the non-detects







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TABLE G-2  
 BLDG 819/EM-27 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-19 SOIL	SEAD-12 MW12-20 SOIL	SEAD-12 MW12-21 SOIL	SEAD-12 SS12-88 SOIL	SEAD-12 SS12-89 SOIL
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Acetone	UG/KG	64	40%	200	0	2	5	11 J	12 UJ	12 UJ	12 UJ	64	12 U
Benzene	UG/KG	0	0%	60	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Chloroethane	UG/KG	0	0%	1900	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Chloroform	UG/KG	0	0%	300	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	5	12 U	12 UJ	12 UJ	12 UJ	12 U	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	5	12 U	12 UJ	12 UJ	12 UJ	12 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Methylene chloride	UG/KG	0	0%	100	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Styrene	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Toluene	UG/KG	4	40%	1500	0	2	5	12 U	4 J	12 U	12 U	2 J	12 U
Total Xylenes	UG/KG	0	0%	1200	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Trichloroethene	UG/KG	0	0%	700	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
Vinyl chloride	UG/KG	0	0%	200	0	0	5	12 U	12 U	12 U	12 U	12 U	12 U
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	5	1100 U	81 U	84 U	2100 U	260 U	

TABLE G-2  
 BLDG 819/EM-27 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-19 SOIL	SEAD-12 MW12-20 SOIL	SEAD-12 MW12-21 SOIL	SEAD-12 SS12-88 SOIL	SEAD-12 SS12-89 SOIL		
									123040	123046	123049	123280	123281		
									0	0	0	0	0		
									0.2	0.2	0.8	0.2	0.2		
									10/2/1998	10/3/1998	10/3/1998	17-Nov-98	17-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1		
									Step 1	Step 1	Step 1	Step 1	Step 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	5	1100	U	81	U	84	U	2100	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	5	1100	U	81	U	84	U	2100	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	5	1100	U	81	U	84	U	2100	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	5	2700	U	200	U	200	U	5100	U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	5	1100	U	81	U	84	U	2100	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	5	1100	U	81	U	84	U	2100	U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	5	1100	UJ	81	UJ	84	UJ	2100	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	5	2700	U	200	U	200	U	5100	UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	5	1100	U	81	U	84	U	2100	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	5	1100	U	81	U	84	U	2100	U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	5	1100	UJ	81	U	84	U	2100	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	5	1100	U	81	U	84	U	2100	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	5	1100	UJ	81	U	84	U	2100	U
2-Methylphenol	UG/KG	0	0%	100	0	0	5	1100	U	81	U	84	U	2100	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	5	2700	U	200	U	200	U	5100	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	5	1100	U	81	U	84	U	2100	UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	5	1100	U	81	U	84	U	2100	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	5	2700	U	200	U	200	UJ	5100	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	5	2700	U	200	U	200	U	5100	UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	5	1100	U	81	U	84	U	2100	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	5	1100	U	81	U	84	U	2100	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	5	1100	UJ	81	UJ	84	UJ	2100	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	5	1100	U	81	U	84	U	2100	U
4-Methylphenol	UG/KG	0	0%	900	0	0	5	1100	U	81	U	84	U	2100	U
4-Nitroaniline	UG/KG	0	0%	0	0	0	5	2700	UJ	200	U	200	U	5100	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	5	2700	U	200	U	200	UJ	5100	U
Acenaphthene	UG/KG	1600	100%	50000	0	5	5	82	J	11	J	4.3	J	1600	J
Acenaphthylene	UG/KG	240	40%	41000	0	2	5	240	J	14	J	84	U	2100	U
Anthracene	UG/KG	1800	80%	50000	0	4	5	480	J	23	J	84	U	1800	J
Benzo(a)anthracene	UG/KG	6200	100%	224	4	5	5	3800		260		24	J	6200	400
Benzo(a)pyrene	UG/KG	5400	100%	61	4	5	5	3800		270		25	J	5400	390
Benzo(b)fluoranthene	UG/KG	4800	100%	1100	2	5	5	2800		300		29	J	4800	470
Benzo(ghi)perylene	UG/KG	3100	100%	50000	0	5	5	2200		190		23	J	3100	220
Benzo(k)fluoranthene	UG/KG	6100	100%	1100	2	5	5	4100		310		30	J	6100	390
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	5	1100	U	81	U	84	U	2100	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	5	1100	U	81	U	84	U	2100	U

TABLE G-2  
 BLDG 819/EM-27 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-19 SOIL 123040	SEAD-12 MW12-20 SOIL 123046	SEAD-12 MW12-21 SOIL 123049	SEAD-12 SS12-88 SOIL 123280	SEAD-12 SS12-89 SOIL 123281	
PARAMETER	UNIT	MAXIMUM	OF	4046										RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Bis(2-Ethylhexyl)phthalate	UG/KG	17	40%	50000	0	2	5	1100 U						15 J		17 J	2100 UJ	260 UJ	
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	5	1100 U						81 U		84 UJ	2100 UJ	260 UJ	
Carbazole	UG/KG	2600	100%	0	0	5	5	230 J						29 J		7 J	2600 J	180 J	
Chrysene	UG/KG	6800	100%	400	3	5	5	3400						310		32 J			
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	5	1100 UJ						81 U		84 U	2100 U	260 U	
Di-n-octylphthalate	UG/KG	6.2	20%	50000	0	1	5	1100 U						81 U		6.2 J	2100 U	260 U	
Dibenz(a,h)anthracene	UG/KG	1500	80%	14	4	4	5	990 J								84 U	1500 J	190 J	
Dibenzofuran	UG/KG	650	60%	6200	0	3	5	1100 U						5 J		84 U	650 J	33 J	
Diethyl phthalate	UG/KG	0	0%	7100	0	0	5	1100 UJ						81 U		84 U	2100 U	260 U	
Dimethylphthalate	UG/KG	0	0%	2000	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Fluoranthene	UG/KG	14000	100%	50000	0	5	5	6400						440		50 J	14000	1100	
Fluorene	UG/KG	1200	80%	50000	0	4	5	180 J						10 J		84 U	1200 J	64 J	
Hexachlorobenzene	UG/KG	0	0%	410	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	5	1100 U						81 UJ		84 U	2100 U	260 U	
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	5	1100 U						81 U		84 U	2100 UJ	260 UJ	
Hexachloroethane	UG/KG	0	0%	0	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Indeno(1,2,3-cd)pyrene	UG/KG	3000	100%	3200	0	5	5	2400						170		17 J	3000	210 J	
Isophorone	UG/KG	0	0%	4400	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Naphthalene	UG/KG	0	0%	13000	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	5	2700 U						200 UJ		200 UJ	5100 R	630 R	
Phenanthrene	UG/KG	11000	100%	50000	0	5	5	2200						160		38 J	11000	700	
Phenol	UG/KG	0	0%	30	0	0	5	1100 U						81 U		84 U	2100 U	260 U	
Pyrene	UG/KG	13000	100%	50000	0	5	5	4400						440		56 J	13000 J	740 J	
<b>PESTICIDES/PCBS</b>																			
4,4'-DDD	UG/KG	37	60%	2900	0	3	5	6.4 J						4.1 U		4.2 U	3 J	37	
4,4'-DDE	UG/KG	490	40%	2100	0	2	5	3.9 U						4.1 U		4.2 U		490	
4,4'-DDT	UG/KG	110	60%	2100	0	3	5	4.8 J						4.1 U		4.2 U	110	84 J	
Aldrin	UG/KG	0	0%	41	0	0	5	2 U						2.1 U		2.2 U	1.9 U	4 U	
Alpha-BHC	UG/KG	0	0%	110	0	0	5	2 U						2.1 U		2.2 U	1.9 U	4 U	
Alpha-Chlordane	UG/KG	0	0%	0	0	0	5	2 U						2.1 U		2.2 U	1.9 U	4 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	5	39 U						41 U		42 U	37 U	78 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	5	80 U						82 U		85 U	74 U	160 U	

TABLE G-2  
 BLDG 819/EM-27 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-19 SOIL 123040		SEAD-12 MW12-20 SOIL 123046		SEAD-12 MW12-21 SOIL 123049		SEAD-12 SS12-88 SOIL 123280		SEAD-12 SS12-89 SOIL 123281	
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Aroclor-1232	UG/KG	0	0%	10000	0	0	5	39 U	41 U	42 U	37 U	78 U	78 U				
Aroclor-1242	UG/KG	0	0%	10000	0	0	5	39 U	41 U	42 U	37 U	78 U	78 U				
Aroclor-1248	UG/KG	0	0%	10000	0	0	5	39 U	41 U	42 U	37 U	78 U	78 U				
Aroclor-1254	UG/KG	0	0%	10000	0	0	5	39 U	41 U	42 U	37 U	78 U	78 U				
Aroclor-1260	UG/KG	0	0%	10000	0	0	5	39 U	41 U	42 U	37 U	78 U	78 U				
Beta-BHC	UG/KG	0	0%	200	0	0	5	2 U	2.1 U	2.2 U	1.9 U	4 U	4 U				
Delta-BHC	UG/KG	0	0%	300	0	0	5	2 U	2.1 U	2.2 U	1.9 U	4 U	4 U				
Dieldrin	UG/KG	0	0%	44	0	0	5	3.9 U	4.1 U	4.2 U	3.7 U	7.8 U	7.8 U				
Endosulfan I	UG/KG	0	0%	900	0	0	5	2 U	2.1 U	2.2 U	1.9 U	4 U	4 U				
Endosulfan II	UG/KG	18	20%	900	0	1	5	3.9 U	4.1 U	4.2 U	3.7 U	18	18				
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	5	3.9 U	4.1 U	4.2 U	3.7 U	7.8 U	7.8 U				
Endrin	UG/KG	2.7	40%	100	0	2	5	2.7 J	4.1 U	4.2 U	2.3 J	7.8 U	7.8 U				
Endrin aldehyde	UG/KG	8.9	40%		0	2	5	7.8	4.1 U	4.2 U	8.9 J	7.8 U	7.8 U				
Endrin ketone	UG/KG	18	40%		0	2	5	18	4.1 U	4.2 U	11	7.8 U	7.8 U				
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	5	2 U	2.1 U	2.2 U	1.9 U	4 U	4 U				
Gamma-Chlordane	UG/KG	3.1	40%	540	0	2	5	1.2 J	2.1 U	2.2 U	3.1 J	4 U	4 U				
Heptachlor	UG/KG	0	0%	100	0	0	5	2 U	2.1 U	2.2 U	1.9 U	4 U	4 U				
Heptachlor epoxide	UG/KG	0	0%	20	0	0	5	2 U	2.1 U	2.2 U	1.9 U	4 U	4 U				
Methoxychlor	UG/KG	26	20%		0	1	5	26 J	21 U	22 U	19 U	40 U	40 U				
Toxaphene	UG/KG	0	0%		0	0	5	200 U	210 U	220 U	190 U	400 U	400 U				
<b>METALS</b>																	
Aluminum	MG/KG	20800	100%	19520	1	5	5	16000	<del>20800</del>	15500	4990 J	3230 J	3230 J				
Antimony	MG/KG	0	0%	6	0	0	5	1.3 R	1.3 R	1.4 R	0.91 R	1.1 R	1.1 R				
Arsenic	MG/KG	5.4	100%	8.9	0	5	5	5.4	3.5	3.8	4.7	3	3				
Barium	MG/KG	116	100%	300	0	5	5	74.5	102	116	47.6	23.9 J	23.9 J				
Beryllium	MG/KG	0.78	100%	1.13	0	5	5	0.62 J	0.78 J	0.62 J	0.06 J	0.16 J	0.16 J				
Cadmium	MG/KG	1.6	20%	2.46	0	1	5	0.06 U	0.06 U	0.07 U	1.6	0.32 U	0.32 U				
Calcium	MG/KG	202000	100%	125300	1	5	5	13600 J	7950 J	4020 J	118000	<del>202000</del>	202000				
Chromium	MG/KG	25.1	100%	30	0	5	5	24.9	25.1 J	18.3 J	12.8	7.3	7.3				
Cobalt	MG/KG	13.6	100%	30	0	5	5	12.7	13.6	11.5 J	3.5 J	3.8 J	3.8 J				
Copper	MG/KG	23.1	100%	33	0	5	5	18.1	21.4	23.1	22.3	17.7	17.7				
Cyanide	MG/KG	0	0%	0.35	0	0	5	0.61 UJ	0.64 U	0.66 U	0.56 U	0.59 U	0.59 U				
Iron	MG/KG	34000	100%	37410	0	5	5	30000	34000	24900	12000 J	9070 J	9070 J				
Lead	MG/KG	33.1	100%	24.4	1	5	5	9 J	17.1 J	23 J	<del>33.1</del> J	18.1 J	18.1 J				
Magnesium	MG/KG	34800	100%	21700	1	5	5	5460	6020	4280	<del>34800</del>	14800	14800				
Manganese	MG/KG	629	100%	1100	0	5	5	534	629 J	554 J	614	322	322				

TABLE G-2  
 BLDG 819/EM-27 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-19 SOIL 123040 0 0.2 10/2/1998 SA		SEAD-12 MW12-20 SOIL 123046 0 0.2 10/3/1998 SA		SEAD-12 MW12-21 SOIL 123049 0 0.8 10/3/1998 SA		SEAD-12 SS12-88 SOIL 123280 0 0.2 17-Nov-98 SA		SEAD-12 SS12-89 SOIL 123281 0 0.2 17-Nov-98 SA	
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Mercury	MG/KG	0.09	20%	0.1	0	1	5	0.06	U	0.06	UJ	0.06	U	0.09	J	0.06	U
Nickel	MG/KG	35.3	100%	50	0	5	5	33.4	J	35.3	J	25.5	J	9.9		14.2	
Potassium	MG/KG	2660	100%	2623	1	5	5	1990		2660		2560		1160		838	J
Selenium	MG/KG	0	0%	2	0	0	5	0.96	UJ	0.48	U	0.54	U	0.34	UJ	0.41	UJ
Silver	MG/KG	0	0%	0.8	0	0	5	0.25	U	0.25	U	0.28	U	0.18	U	0.21	U
Sodium	MG/KG	128	80%	188	0	4	5	55.3	J	71.9	J	59.7	U	119	J	128	J
Thallium	MG/KG	3	20%	0.855	1	1	5	3		1.1	UJ	1.2	U	0.78	U	0.92	U
Vanadium	MG/KG	32.2	100%	150	0	5	5	25.1		32.2		25.1		12.7		12	
Zinc	MG/KG	109	100%	115	0	5	5	108		98.2	J	83.4	J	109	J	62.1	J
WET CHEMISTRY																	
Nitrate/Nitrite	%WW																
Nitrate/Nitrite	MG/KG																
pH	SU																
TOC-Soil 9060	MG/KG																
Percent Solids	%WW																
Percent Solids	MG/KG																
Cation exchange capacity	meq/100g																

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
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TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID	MATRIX							MW12-19	MW12-19	MW12-20	MW12-20	MW12-21
SAMP_ID	SAMP_ID							SOIL	SOIL	SOIL	SOIL	SOIL
DEPTH_TOP	DEPTH_TOP							123041	123042	123047	123048	123050
DEPTH_BOT	DEPTH_BOT							6	8	4	6	4
SAMP_DATE	SAMP_DATE							8	10	6	8	6
QC_CODE	QC_CODE							10/2/1998	10/2/1998	10/3/1998	10/3/1998	10/3/1998
STUDY_ID	STUDY_ID							SA	SA	SA	SA	SA
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
<b>VOLATILE ORGANICS</b>												
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	9	13 U	11 UJ	12 U	12 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	9	13 U	11 R	12 U	12 UJ	11 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	9	13 U	11 UJ	12 U	12 U	11 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	9	13 U	11 UJ	12 U	12 U	11 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	9	13 U	11 UJ	12 U	12 U	11 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
Acetone	UG/KG	8	22%	200	0	2	9	6 J	8 J	12 UJ	12 UJ	11 UJ
Benzene	UG/KG	0	0%	60	0	0	9	13 U	11 UJ	12 U	12 U	11 U
Bromodichloromethane	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
Bromoform	UG/KG	0	0%		0	0	9	13 U	11 R	12 U	12 UJ	11 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	9	13 U	11 UJ	12 U	12 U	11 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	9	13 U	11 UJ	12 U	12 U	11 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	9	13 U	11 R	12 U	12 UJ	11 U
Chlorodibromomethane	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
Chloroethane	UG/KG	0	0%	1900	0	0	9	13 U	11 UJ	12 U	12 U	11 U
Chloroform	UG/KG	0	0%	300	0	0	9	13 U	11 UJ	12 U	12 U	11 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	9	13 U	11 R	12 U	12 UJ	11 U
Methyl bromide	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
Methyl butyl ketone	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 UJ	12 UJ	11 U
Methyl chloride	UG/KG	0	0%		0	0	9	13 U	11 UJ	12 U	12 U	11 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	9	13 U	11 UJ	12 UJ	12 UJ	11 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	9	13 U	11 UJ	12 U	12 U	11 U
Methylene chloride	UG/KG	100	33%	100	0	3	9	13 U	11 UJ	12 U	12 U	11 U
Styrene	UG/KG	0	0%		0	0	9	13 U	11 R	12 U	12 UJ	11 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	9	13 U	11 UJ	12 U	12 U	11 U
Toluene	UG/KG	13	44%	1500	0	4	9	3 J	13 J	4 J	7 J	11 U
Total Xylenes	UG/KG	0	0%	1200	0	0	9	13 U	11 R	12 U	12 UJ	11 U

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOC_ID								MW12-19	MW12-19	MW12-20	MW12-20	MW12-21				
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL				
SAMP_ID								123041	123042	123047	123048	123050				
DEPTH_TOP								6	8	4	6	4				
DEPTH_BOT								8	10	6	8	6				
SAMP_DATE								10/2/1998	10/2/1998	10/3/1998	10/3/1998	10/3/1998				
QC_CODE								SA	SA	SA	SA	SA				
STUDY_ID								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1			
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	13 U		11 UJ		12 U		12 U		11 U
Trichloroethene	UG/KG	0	0%	700	0	0	9	13 U		11 UJ		12 U		12 U		11 U
Vinyl chloride	UG/KG	0	0%	200	0	0	9	13 U		11 UJ		12 U		12 U		11 U
<b>SEMI VOLATLE ORGANICS</b>																
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	9	78 U		75 U		80 U		75 U		72 U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	9	78 U		75 U		80 U		75 U		72 U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	9	78 U		75 U		80 U		75 U		72 U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	9	78 U		75 U		80 U		75 U		72 U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	9	190 U		180 U		190 U		180 U		170 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	9	78 UJ		75 U		80 U		75 U		72 U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	9	78 U		75 U		80 U		75 U		72 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	9	78 UJ		75 UJ		80 UJ		75 UJ		72 UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	9	190 R		180 R		190 U		180 U		170 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	9	78 U		75 U		80 U		75 U		72 U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	9	78 U		75 U		80 U		75 U		72 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	9	78 UJ		75 U		80 U		75 U		72 U
2-Chlorophenol	UG/KG	0	0%	800	0	0	9	78 U		75 U		80 U		75 U		72 U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	9	78 UJ		75 U		80 U		75 U		72 U
2-Methylphenol	UG/KG	0	0%	100	0	0	9	78 U		75 U		80 U		75 U		72 U
2-Nitroaniline	UG/KG	0	0%	430	0	0	9	190 U		180 U		190 U		180 U		170 U
2-Nitrophenol	UG/KG	0	0%	330	0	0	9	78 U		75 UJ		80 U		75 U		72 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	9	78 U		75 U		80 U		75 U		72 U
3-Nitroaniline	UG/KG	0	0%	500	0	0	9	190 UJ		180 UJ		190 UJ		180 UJ		170 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	9	190 UJ		180 UJ		190 U		180 U		170 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	9	78 U		75 U		80 U		75 U		72 U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	9	78 U		75 U		80 U		75 U		72 U
4-Chloroaniline	UG/KG	0	0%	220	0	0	9	78 UJ		75 UJ		80 UJ		75 UJ		72 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	9	78 U		75 U		80 U		75 U		72 U
4-Methylphenol	UG/KG	0	0%	900	0	0	9	78 UJ		75 U		80 U		75 U		72 U
4-Nitroaniline	UG/KG	0	0%		0	0	9	190 UJ		180 U		190 U		180 U		170 U
4-Nitrophenol	UG/KG	0	0%	100	0	0	9	190 UJ		180 UJ		190 UJ		180 UJ		170 U

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12			
LOC_ID								MW12-19		MW12-19		MW12-20		MW12-20		MW12-20		MW12-21	
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
SAMP_ID								123041		123042		123047		123048		123050			
DEPTH_TOP								6		8		4		6		4			
DEPTH_BOT								8		10		6		8		6			
SAMP_DATE								10/2/1998		10/2/1998		10/3/1998		10/3/1998		10/3/1998			
QC_CODE								SA		SA		SA		SA		SA			
STUDY_ID								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES												
Acenaphthene	UG/KG	10	11%	50000	0	1	9	78	U	75	U	80	U	75	U	72	U		
Acenaphthylene	UG/KG	0	0%	41000	0	0	9	78	UJ	75	U	80	U	75	U	72	U		
Anthracene	UG/KG	18	33%	50000	0	3	9	11	J	75	U	80	U	4.1	J	72	U		
Benzo(a)anthracene	UG/KG	41	67%	224	0	6	9	34	J	11	J	80	U	22	J	72	U		
Benzo(a)pyrene	UG/KG	34	67%	61	0	6	9	31	J	9.9	J	80	U	20	J	72	U		
Benzo(b)fluoranthene	UG/KG	36	67%	1100	0	6	9	27	J	11	J	80	U	18	J	72	U		
Benzo(ghi)perylene	UG/KG	27	78%	50000	0	7	9	23	J	11	J	80	U	17	J	72	U		
Benzo(k)fluoranthene	UG/KG	41	67%	1100	0	6	9	34	J	15	J	80	U	22	J	72	U		
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	9	78	U	75	U	80	U	75	U	72	U		
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	9	78	U	75	U	80	U	75	U	72	U		
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	9	78	U	75	U	80	U	75	U	72	U		
Bis(2-Ethylhexyl)phthalate	UG/KG	16	44%	50000	0	4	9	9	J	75	U	80	UJ	14	J	16	J		
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	9	78	UJ	75	UJ	80	UJ	75	UJ	72	U		
Carbazole	UG/KG	22	33%		0	3	9	4.4	J	4.7	J	80	UJ	75	UJ	72	UJ		
Chrysene	UG/KG	46	89%	400	0	8	9	36	J	18	J	80	U	24	J	4.4	J		
Di-n-butylphthalate	UG/KG	4.5	11%	8100	0	1	9	4.5	J	75	UJ	80	U	75	U	72	U		
Di-n-octylphthalate	UG/KG	21	44%	50000	0	4	9	6.5	J	75	U	80	UJ	11	J	9.5	J		
Dibenz(a,h)anthracene	UG/KG	12	33%	14	0	3	9	12	J	4.2	J	80	U	75	U	72	U		
Dibenzofuran	UG/KG	6.2	11%	6200	0	1	9	78	U	75	U	80	U	75	U	72	U		
Diethyl phthalate	UG/KG	0	0%	7100	0	0	9	78	UJ	75	U	80	U	75	U	72	U		
Dimethylphthalate	UG/KG	0	0%	2000	0	0	9	78	U	75	U	80	U	75	U	72	U		
Fluoranthene	UG/KG	97	78%	50000	0	7	9	70	J	28	J	80	U	52	J	72	U		
Fluorene	UG/KG	11	22%	50000	0	2	9	7.9	J	75	U	80	U	75	U	72	U		
Hexachlorobenzene	UG/KG	0	0%	410	0	0	9	78	U	75	U	80	U	75	U	72	U		
Hexachlorobutadiene	UG/KG	0	0%		0	0	9	78	U	75	U	80	U	75	U	72	UJ		
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	9	78	UJ	75	U	80	U	75	U	72	U		
Hexachloroethane	UG/KG	0	0%		0	0	9	78	U	75	U	80	U	75	U	72	U		
Indeno(1,2,3-cd)pyrene	UG/KG	23	67%	3200	0	6	9	21	J	7.3	J	80	U	13	J	72	U		
Isophorone	UG/KG	0	0%	4400	0	0	9	78	U	75	UJ	80	U	75	U	72	U		
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	9	78	U	75	U	80	U	75	U	72	U		
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	9	78	U	75	U	80	U	75	U	72	U		

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-19	MW12-19	MW12-20	MW12-20	MW12-21
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123041	123042	123047	123048	123050
DEPTH_TOP								6	8	4	6	4
DEPTH_BOT								8	10	6	8	6
SAMP_DATE								10/2/1998	10/2/1998	10/3/1998	10/3/1998	10/3/1998
QC_CODE								SA	SA	SA	SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
PARAMETER	UNIT	MAXIMUM	OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1	Step 1	Step 1
			DETECTION	4046	TAGM	DETECTS	ANALYSES					
Naphthalene	UG/KG	0	0%	13000	0	0	9	78 U	75 U	80 U	75 U	72 U
Nitrobenzene	UG/KG	0	0%	200	0	0	9	78 U	75 U	80 U	75 U	72 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	9	190 UJ	180 U	190 UJ	180 UJ	170 UJ
Phenanthrene	UG/KG	94	78%	50000	0	7	9	53 J	19 J	80 U	25 J	72 U
Phenol	UG/KG	0	0%	30	0	0	9	78 U	75 U	80 U	75 U	72 U
Pyrene	UG/KG	80	78%	50000	0	7	9	63 J	27 J	80 U	43 J	72 U
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	0	0%	2900	0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
4,4'-DDE	UG/KG	0	0%	2100	0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
4,4'-DDT	UG/KG	0	0%	2100	0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
Aldrin	UG/KG	0	0%	41	0	0	9	2 U	1.9 U	2 U	1.9 U	1.8 U
Alpha-BHC	UG/KG	0	0%	110	0	0	6	2 U	1.9 U	2 U	1.9 U	1.8 U
Alpha-Chlordane	UG/KG	0	0%		0	0	9	2 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	9	39 U	38 U	39 U	37 U	36 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	9	80 U	76 U	80 U	76 U	73 U
Aroclor-1232	UG/KG	0	0%	10000	0	0	9	39 U	38 U	39 U	37 U	36 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	9	39 U	38 U	39 U	37 U	36 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	9	39 U	38 U	39 U	37 U	36 U
Aroclor-1254	UG/KG	0	0%	10000	0	0	9	39 U	38 U	39 U	37 U	36 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	9	39 U	38 U	39 U	37 U	36 U
Beta-BHC	UG/KG	0	0%	200	0	0	9	2 U	1.9 U	2 U	1.9 U	1.8 U
Delta-BHC	UG/KG	0	0%	300	0	0	9	2 U	1.9 U	2 U	1.9 U	1.8 U
Dieldrin	UG/KG	0	0%	44	0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
Endosulfan I	UG/KG	0	0%	900	0	0	9	2 U	1.9 U	2 U	1.9 U	1.8 U
Endosulfan II	UG/KG	0	0%	900	0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
Endrin	UG/KG	0	0%	100	0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
Endrin aldehyde	UG/KG	0	0%		0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
Endrin ketone	UG/KG	0	0%		0	0	9	3.9 U	3.8 U	3.9 U	3.7 U	3.6 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	9	2 U	1.9 U	2 U	1.9 U	1.8 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	9	2 U	1.9 U	2 U	1.9 U	1.8 U

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-19 SOIL	SEAD-12 MW12-19 SOIL	SEAD-12 MW12-20 SOIL	SEAD-12 MW12-20 SOIL	SEAD-12 MW12-21 SOIL
									123041	123042	123047	123048	123050
									6	8	4	6	4
									8	10	6	8	6
									10/2/1998	10/2/1998	10/3/1998	10/3/1998	10/3/1998
									SA	SA	SA	SA	SA
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
									Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Heptachlor	UG/KG	0	0%	100	0	0	9	2	U	1.9	2	1.9	1.8
Heptachlor epoxide	UG/KG	0	0%	20	0	0	9	2	U	1.9	2	1.9	1.8
Methoxychlor	UG/KG	0	0%	0	0	0	9	20	U	19	20	19	18
Toxaphene	UG/KG	0	0%	0	0	0	9	200	U	190	200	190	180
<b>METALS</b>													
Aluminum	MG/KG	21200	100%	19520	1	9	9	10100		12200	21200	14500	8730
Antimony	MG/KG	0	0%	6	0	0	9	1	R	0.97	1.1	0.98	1.2
Arsenic	MG/KG	5.8	100%	8.9	0	9	9	2.9		2.5	5.8	3.6	2.7
Barium	MG/KG	127	100%	300	0	9	9	87.2		58.4	127	62	47.7
Beryllium	MG/KG	0.96	100%	1.13	0	9	9	0.43	J	0.55	0.96	0.61	0.34
Cadmium	MG/KG	0	0%	2.46	0	0	9	0.05	U	0.05	0.05	0.05	0.06
Calcium	MG/KG	151000	100%	125300	1	9	9	74200	J	24300	3700	2010	75500
Chromium	MG/KG	30	100%	30	0	9	9	16.3	J	16.5	30	23.3	12.1
Cobalt	MG/KG	16	100%	30	0	9	9	7.6	J	10.4	16	13.3	10.8
Copper	MG/KG	44.7	100%	33	1	9	9	17.5		27.5	44.7	28.8	25.2
Cyanide	MG/KG	0	0%	0.35	0	0	9	0.63	UJ	0.57	0.61	0.57	0.57
Iron	MG/KG	44500	100%	37410	1	9	9	17700		25200	44500	29600	19200
Lead	MG/KG	27.1	100%	24.4	1	9	9	6	J	16.1	27.1	19.1	9.7
Magnesium	MG/KG	21200	100%	21700	0	9	9	21200		6380	8040	6090	14300
Manganese	MG/KG	747	100%	1100	0	9	9	359		278	517	287	347
Mercury	MG/KG	0.2	22%	0.1	2	2	9	0.05	U	0.06	0.06	0.06	0.05
Nickel	MG/KG	64.5	100%	50	1	9	9	21		36.4	64.5	49.1	28.6
Potassium	MG/KG	2320	100%	2623	0	9	9	1500		1550	2320	1640	1580
Selenium	MG/KG	1.1	22%	2	0	2	9	0.75	UJ	0.37	0.42	0.37	0.44
Silver	MG/KG	0.32	11%	0.8	0	1	9	0.2	U	0.19	0.32	0.19	0.23
Sodium	MG/KG	125	56%	188	0	5	9	67.9	J	84.2	125	103	48.2
Thallium	MG/KG	0	0%	0.855	0	0	9	1.4	U	0.83	0.94	0.84	0.99
Vanadium	MG/KG	33.1	100%	150	0	9	9	18.8		18.1	33.1	19.2	14.9
Zinc	MG/KG	143	100%	115	3	9	9	48.3		56	143	120	69.1

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID																						
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-19 SOIL 123041 6 8 10/2/1998 SA	RI Phase 1	Step 1	SEAD-12 MW12-19 SOIL 123042 8 10 10/2/1998 SA	RI Phase 1	Step 1	SEAD-12 MW12-20 SOIL 123047 4 6 10/3/1998 SA	RI Phase 1	Step 1	SEAD-12 MW12-20 SOIL 123048 6 8 10/3/1998 SA	RI Phase 1	Step 1	SEAD-12 MW12-21 SOIL 123050 4 6 10/3/1998 SA	RI Phase 1	Step 1
WET CHEMISTRY																						
Nitrate/Nitrite	%W/W																					
Nitrate/Nitrite	MG/KG																					
pH	SU																					
TOC-Soil 9060	MG/KG																					
Percent Solids	%W/W																					
Percent Solids	MG/KG																					
Cation exchange capacity	meq/100g																					



TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12							SEAD-12		SEAD-12		SEAD-12	
LOC_ID	MATRIX	MW12-21							TP12-17A		TP12-17B		TP12-17C	
SAMP_ID	DEPTH_TOP	SOIL							SOIL		SOIL		SOIL	
DEPTH_BOT	SAMP_DATE	123051							123036		123034		123035	
QC_CODE	STUDY_ID	6							2		0.5		3	
		8							2		0.5		3	
		10/3/1998							10/6/1998		10/6/1998		10/6/1998	
		SA							SA		SA		SA	
		FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	OF	TAGM	ABOVE	OF	OF								
		DETECTION	4046	TAGM	DETECTS	ANALYSES								
VOLATILE ORGANICS														
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Acetone	UG/KG	8	22%	200	0	2	9	11 UJ	12 U	26 U	12 U	12 U	12 U	12 U
Benzene	UG/KG	0	0%	60	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Bromodichloromethane	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Bromoform	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Chloroethane	UG/KG	0	0%	1900	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Chloroform	UG/KG	0	0%	300	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Methyl bromide	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Methyl chloride	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Methylene chloride	UG/KG	100	33%	100	0	3	9	11 U	100	99	64	12 U	12 U	12 U
Styrene	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Toluene	UG/KG	13	44%	1500	0	4	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U
Total Xylenes	UG/KG	0	0%	1200	0	0	9	11 U	12 U	12 U	12 U	12 U	12 U	12 U

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-21	TP12-17A	TP12-17B	TP12-17C
MATRIX								SOIL	SOIL	SOIL	SOIL
SAMP_ID								123051	123036	123034	123035
DEPTH_TOP								6	2	0.5	3
DEPTH_BOT								8	2	0.5	3
SAMP_DATE								10/3/1998	10/6/1998	10/6/1998	10/6/1998
QC_CODE								SA	SA	SA	SA
STUDY_ID								RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMUM	OF	TAGM	ABOVE	OF	OF				
			DETECTION	4046	TAGM	DETECTS	ANALYSES				
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	11 U	12 U	12 U	12 U
Trichloroethene	UG/KG	0	0%	700	0	0	9	11 U	12 U	12 U	12 U
Vinyl chloride	UG/KG	0	0%	200	0	0	9	11 U	12 U	12 U	12 U
<b>SEMI VOLATLE ORGANICS</b>											
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	9	72 U	78 U	78 U	78 U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	9	72 U	78 U	78 U	78 U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	9	72 U	78 U	78 U	78 U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	9	72 U	78 U	78 U	78 U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	9	170 U	190 U	190 U	190 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	9	72 U	78 U	78 U	78 U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	9	72 U	78 U	78 U	78 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	9	72 UJ	78 U	78 U	78 U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	9	170 U	190 U	190 U	190 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	9	72 U	78 U	78 U	78 U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	9	72 U	78 U	78 U	78 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	9	72 U	78 U	78 U	78 U
2-Chlorophenol	UG/KG	0	0%	800	0	0	9	72 U	78 U	78 U	78 U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	9	72 U	78 U	78 U	78 U
2-Methylphenol	UG/KG	0	0%	100	0	0	9	72 U	78 U	78 U	78 U
2-Nitroaniline	UG/KG	0	0%	430	0	0	9	170 U	190 U	190 U	190 U
2-Nitrophenol	UG/KG	0	0%	330	0	0	9	72 U	78 U	78 U	78 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	9	72 U	78 U	78 U	78 U
3-Nitroaniline	UG/KG	0	0%	500	0	0	9	170 UJ	190 U	190 U	190 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	9	170 U	190 U	190 U	190 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	9	72 U	78 U	78 U	78 U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	9	72 U	78 U	78 U	78 U
4-Chloroaniline	UG/KG	0	0%	220	0	0	9	72 UJ	78 UJ	78 UJ	78 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	9	72 U	78 U	78 U	78 U
4-Methylphenol	UG/KG	0	0%	900	0	0	9	72 U	78 U	78 U	78 U
4-Nitroaniline	UG/KG	0	0%		0	0	9	170 U	190 U	190 U	190 U
4-Nitrophenol	UG/KG	0	0%	100	0	0	9	170 UJ	190 U	190 U	190 U

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOC_ID									MW12-21	TP12-17A	TP12-17B	TP12-17C	
MATRIX									SOIL	SOIL	SOIL	SOIL	
SAMP_ID									123051	123036	123034	123035	
DEPTH_TOP									6	2	0.5	3	
DEPTH_BOT									8	2	0.5	3	
SAMP_DATE									10/3/1998	10/6/1998	10/6/1998	10/6/1998	
QC_CODE									SA	SA	SA	SA	
STUDY_ID									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	
									Step 1	Step 1	Step 1	Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Acenaphthene	UG/KG	10	11%	50000	0	1	9	72	U	78	U	78	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	9	72	U	78	U	78	U
Anthracene	UG/KG	18	33%	50000	0	3	9	72	U	78	U	78	U
Benzo(a)anthracene	UG/KG	41	67%	224	0	6	9	72	U	4.8	J	41	J
Benzo(a)pyrene	UG/KG	34	67%	61	0	6	9	72	U	5.8	J	34	J
Benzo(b)fluoranthene	UG/KG	36	67%	1100	0	6	9	72	U	6.6	J	36	J
Benzo(ghi)perylene	UG/KG	27	78%	50000	0	7	9	72	U	27	J	25	J
Benzo(k)fluoranthene	UG/KG	41	67%	1100	0	6	9	72	U	9.4	J	41	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	9	72	U	78	U	78	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	9	72	U	78	U	78	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	9	72	U	78	U	78	U
Bis(2-Ethylhexyl)phthalate	UG/KG	16	44%	50000	0	4	9	12	J	78	U	78	U
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	9	72	U	78	U	78	U
Carbazole	UG/KG	22	33%		0	3	9	72	U	78	U	22	J
Chrysene	UG/KG	46	89%	400	0	8	9	4.3	J	8.1	J	46	J
Di-n-butylphthalate	UG/KG	4.5	11%	8100	0	1	9	72	U	78	U	78	U
Di-n-octylphthalate	UG/KG	21	44%	50000	0	4	9	21	J	78	U	78	U
Dibenz(a,h)anthracene	UG/KG	12	33%	14	0	3	9	72	U	78	U	11	J
Dibenzofuran	UG/KG	6.2	11%	6200	0	1	9	72	U	78	U	6.2	J
Diethyl phthalate	UG/KG	0	0%	7100	0	0	9	72	U	78	U	78	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	9	72	U	78	U	78	U
Fluoranthene	UG/KG	97	78%	50000	0	7	9	3.7	J	10	J	97	J
Fluorene	UG/KG	11	22%	50000	0	2	9	72	U	78	U	11	J
Hexachlorobenzene	UG/KG	0	0%	410	0	0	9	72	U	78	U	78	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	9	72	U	78	U	78	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	9	72	U	78	U	78	U
Hexachloroethane	UG/KG	0	0%		0	0	9	72	U	78	U	78	U
Indeno(1,2,3-cd)pyrene	UG/KG	23	67%	3200	0	6	9	72	U	5.4	J	23	J
Isophorone	UG/KG	0	0%	4400	0	0	9	72	U	78	U	78	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	9	72	U	78	U	78	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	9	72	U	78	U	78	U

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-21	TP12-17A	TP12-17B	TP12-17C
MATRIX								SOIL	SOIL	SOIL	SOIL
SAMP_ID								123051	123036	123034	123035
DEPTH_TOP								6	2	0.5	3
DEPTH_BOT								8	2	0.5	3
SAMP_DATE								10/3/1998	10/6/1998	10/6/1998	10/6/1998
QC_CODE								SA	SA	SA	SA
STUDY_ID								RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMUM	OF	TAGM	ABOVE	OF	OF				
			DETECTION	4046	TAGM	DETECTS	ANALYSES				
Naphthalene	UG/KG	0	0%	13000	0	0	9	72 U	78 U	78 U	78 U
Nitrobenzene	UG/KG	0	0%	200	0	0	9	72 U	78 U	78 U	78 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	9	170 UJ	190 UJ	190 UJ	190 UJ
Phenanthrene	UG/KG	94	78%	50000	0	7	9	5.4 J	6.8 J	94	7.9 J
Phenol	UG/KG	0	0%	30	0	0	9	72 U	78 U	78 U	78 U
Pyrene	UG/KG	80	78%	50000	0	7	9	6.8 J	10 J	80	11 J
<b>PESTICIDES/PCBS</b>											
4,4'-DDD	UG/KG	0	0%	2900	0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
4,4'-DDE	UG/KG	0	0%	2100	0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
4,4'-DDT	UG/KG	0	0%	2100	0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
Aldrin	UG/KG	0	0%	41	0	0	9	1.8 U	2 U	2 U	2 U
Alpha-BHC	UG/KG	0	0%	110	0	0	6	1.8 U			
Alpha-Chlordane	UG/KG	0	0%		0	0	9	1.8 U	2 U	2 U	2 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	9	36 U	39 U	39 U	39 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	9	73 U	80 U	79 U	79 U
Aroclor-1232	UG/KG	0	0%	10000	0	0	9	36 U	39 U	39 U	39 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	9	36 U	39 U	39 U	39 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	9	36 U	39 U	39 U	39 U
Aroclor-1254	UG/KG	0	0%	10000	0	0	9	36 U	39 U	39 U	39 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	9	36 U	39 U	39 U	39 U
Beta-BHC	UG/KG	0	0%	200	0	0	9	1.8 U	2 U	2 U	2 U
Delta-BHC	UG/KG	0	0%	300	0	0	9	1.8 U	2 U	2 U	2 U
Dieldrin	UG/KG	0	0%	44	0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
Endosulfan I	UG/KG	0	0%	900	0	0	9	1.8 U	2 U	2 U	2 U
Endosulfan II	UG/KG	0	0%	900	0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
Endrin	UG/KG	0	0%	100	0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
Endrin aldehyde	UG/KG	0	0%		0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
Endrin ketone	UG/KG	0	0%		0	0	9	3.6 U	3.9 U	3.9 U	3.9 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	9	1.8 U	2 U	2 U	2 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	9	1.8 U	2 U	2 U	2 U

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-21	TP12-17A	TP12-17B	TP12-17C
MATRIX								SOIL	SOIL	SOIL	SOIL
SAMP_ID								123051	123036	123034	123035
DEPTH_TOP								6	2	0.5	3
DEPTH_BOT								8	2	0.5	3
SAMP_DATE								10/3/1998	10/6/1998	10/6/1998	10/6/1998
QC_CODE								SA	SA	SA	SA
STUDY_ID								RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
								Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES				
Heptachlor	UG/KG	0	0%	100	0	0	9	1.8 U	2 U	2 U	2 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	9	1.8 U	2 U	2 U	2 U
Methoxychlor	UG/KG	0	0%	0	0	0	9	18 U	20 U	20 U	20 U
Toxaphene	UG/KG	0	0%	0	0	0	9	180 U	200 U	200 U	200 U
<b>METALS</b>											
Aluminum	MG/KG	21200	100%	19520	1	9	9	3760	11900	14400	11600
Antimony	MG/KG	0	0%	6	0	0	9	0.99 R	1.1 R	1.3 R	1 R
Arsenic	MG/KG	5.8	100%	8.9	0	9	9	4.5	3.8	5	5
Barium	MG/KG	127	100%	300	0	9	9	92.1	117	115	107
Beryllium	MG/KG	0.96	100%	1.13	0	9	9	0.29 J	0.51 J	0.53 J	0.48 J
Cadmium	MG/KG	0	0%	2.46	0	0	9	0.05 U	0.05 U	0.06 U	0.05 U
Calcium	MG/KG	151000	100%	125300	1	9	9	151000 J	3840	3930	2920
Chromium	MG/KG	30	100%	30	0	9	9	4.2 J	17.7	21.1	17.4
Cobalt	MG/KG	16	100%	30	0	9	9	7.3 J	9.5	11	10
Copper	MG/KG	44.7	100%	33	1	9	9	22	19.3	22.2	18.9
Cyanide	MG/KG	0	0%	0.35	0	0	9	0.54 U	0.6 U	0.61 U	0.6 U
Iron	MG/KG	44500	100%	37410	1	9	9	17000	20100	28500	20900
Lead	MG/KG	27.1	100%	24.4	1	9	9	17.6 J	16.3	18.3	16.9
Magnesium	MG/KG	21200	100%	21700	0	9	9	6630	3150 J	3700 J	3180 J
Manganese	MG/KG	747	100%	1100	0	9	9	395 J	664	747	651
Mercury	MG/KG	0.2	22%	0.1	2	2	9	0.05 UJ	0.2	0.06 U	0.06 U
Nickel	MG/KG	64.5	100%	50	1	9	9	21.5 J	23.4	27.7	23.1
Potassium	MG/KG	2320	100%	2623	0	9	9	1050	1240	1560	956
Selenium	MG/KG	1.1	22%	2	0	2	9	0.39 J	1.1 J	0.99 U	0.76 U
Silver	MG/KG	0.32	11%	0.8	0	1	9	0.2 U	0.21 U	0.26 U	0.2 U
Sodium	MG/KG	125	56%	188	0	5	9	84.6 J	44.3 U	54.2 U	41.6 U
Thallium	MG/KG	0	0%	0.855	0	0	9	0.85 U	0.91 U	1.1 U	0.86 U
Vanadium	MG/KG	33.1	100%	150	0	9	9	10.2	19.4	23.3	19.1
Zinc	MG/KG	143	100%	115	3	9	9	53.1 J	67.6	143	63.2

TABLE G-3  
 BLDG 819/EM-27 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY															
LOC_ID															
MATRIX															
SAMP_ID															
DEPTH_TOP															
DEPTH_BOT															
SAMP_DATE															
QC_CODE															
STUDY_ID															
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-21 SOIL 123051 6 8 10/3/1998 SA	SEAD-12 TP12-17A SOIL 123036 2 2 10/6/1998 SA	SEAD-12 TP12-17B SOIL 123034 0.5 0.5 10/6/1998 SA	SEAD-12 TP12-17C SOIL 123035 3 3 10/6/1998 SA	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
WET CHEMISTRY															
Nitrate/Nitrite	%W/W														
Nitrate/Nitrite	MG/KG														
pH	SU														
TOC-Soil 9060	MG/KG														
Percent Solids	%W/W														
Percent Solids	MG/KG														
Cation exchange capacity	meq/100g														







TABLE G-4  
 BLDG 815/816/EM-28 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-29	MW12-30	MW12-30
MATRIX								SOIL	SOIL	SOIL
SAMP_ID								123133	123148	123136
DEPTH_TOP								0	0	0
DEPTH_BOT								0.2	0.2	0.2
SAMP_DATE								15-Oct-98	16-Oct-98	16-Oct-98
QC_CODE								SA	DU	SA
STUDY_ID								RI Phase 1	RI Phase 1	RI Phase 1
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMUM	OF	TAGM	ABOVE	OF	OF			
			DETECTION	4046	TAGM	DETECTS	ANALYSES			
<b>VOLATILE ORGANICS</b>										
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	3	15 U	13 U	14 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	3	15 UJ	13 U	14 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	3	15 U	13 U	14 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	3	15 U	13 U	14 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	3	15 U	13 U	14 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
Acetone	UG/KG	0	0%	200	0	0	3	15 UJ	13 UJ	14 UJ
Benzene	UG/KG	0	0%	60	0	0	3	15 U	13 U	14 U
Bromodichloromethane	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
Bromoform	UG/KG	0	0%		0	0	3	15 UJ	13 U	14 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	3	15 U	13 U	14 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	3	15 U	13 U	14 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	3	15 UJ	13 U	14 U
Chlorodibromomethane	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
Chloroethane	UG/KG	0	0%	1900	0	0	3	15 UJ	13 U	14 UJ
Chloroform	UG/KG	0	0%	300	0	0	3	15 U	13 U	14 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	3	15 UJ	13 U	14 U
Methyl bromide	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
Methyl butyl ketone	UG/KG	0	0%		0	0	3	15 U	13 UJ	14 U
Methyl chloride	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	3	15 UJ	13 UJ	14 UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	3	15 U	13 U	14 U
Methylene chloride	UG/KG	0	0%	100	0	0	3	15 U	13 U	14 U
Styrene	UG/KG	0	0%		0	0	3	15 UJ	13 U	14 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	3	15 U	13 U	14 U
Toluene	UG/KG	2	33%	1500	0	1	3	15 U	2 J	14 U
Total Xylenes	UG/KG	0	0%	1200	0	0	3	15 UJ	13 U	14 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	3	15 U	13 U	14 U
Trichloroethene	UG/KG	0	0%	700	0	0	3	15 U	13 U	14 U
Vinyl chloride	UG/KG	0	0%	200	0	0	3	15 U	13 U	14 U
<b>SEMI VOLATILE ORGANICS</b>										
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	3	100 U	94 U	96 U

TABLE G-4  
 BLDG 815/816/EM-28 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-29 SOIL 123133 0 0.2 15-Oct-98 SA		SEAD-12 MW12-30 SOIL 123148 0 0.2 16-Oct-98 DU		SEAD-12 MW12-30 SOIL 123136 0 0.2 16-Oct-98 SA	
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	3	100 U		94 U		96 U	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	3	100 U		94 U		96 U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	3	100 U		94 U		96 U	
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	3	250 U		230 U		230 U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	3	100 U		94 U		96 U	
2,4-Dimethylphenol	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	3	250 U	U	230 U	U	230 U	U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	3	100 U		94 U		96 U	
2-Chloronaphthalene	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	3	100 U		94 U		96 U	
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	3	100 U		94 U		96 U	
2-Methylphenol	UG/KG	0	0%	100	0	0	3	100 U		94 U		96 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	3	250 U		230 U		230 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	3	100 U		94 U		96 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
3-Nitroaniline	UG/KG	0	0%	500	0	0	3	250 U		230 U		230 U	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	3	250 U		230 U		230 U	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	3	100 U		94 U		96 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	3	100 U	U	94 U	U	96 U	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
4-Methylphenol	UG/KG	0	0%	900	0	0	3	100 U		94 U		96 U	
4-Nitroaniline	UG/KG	0	0%		0	0	3	250 U	U	230 U	U	230 U	U
4-Nitrophenol	UG/KG	0	0%	100	0	0	3	250 U		230 U		230 U	
Acenaphthene	UG/KG	0	0%	50000	0	0	3	100 U		94 U		96 U	
Acenaphthylene	UG/KG	0	0%	41000	0	0	3	100 U		94 U		96 U	
Anthracene	UG/KG	0	0%	50000	0	0	3	100 U		94 U		96 U	
Benzo(a)anthracene	UG/KG	16	100%	224	0	3	3	16 J		11 J		8.6 J	
Benzo(a)pyrene	UG/KG	17	67%	61	0	2	3	17 J		12 J		96 U	
Benzo(b)fluoranthene	UG/KG	22	67%	1100	0	2	3	22 J		18 J		96 U	
Benzo(ghi)perylene	UG/KG	10	33%	50000	0	1	3	100 U	U	10 J		96 U	
Benzo(k)fluoranthene	UG/KG	20	33%	1100	0	1	3	20 J		94 U		96 U	
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	3	100 U		94 U		96 U	

TABLE G-4  
 BLDG 815/816/EM-28 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-29 SOIL	SEAD-12 MW12-30 SOIL	SEAD-12 MW12-30 SOIL
									123133	123148	123136
									0	0	0
									0.2	0.2	0.2
									15-Oct-98	16-Oct-98	16-Oct-98
									SA	DU	SA
									RI Phase 1	Step 1	RI Phase 1
									Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES				
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	3	100	U	94	U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%	50000	0	0	3	100	U	94	U
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	3	100	U	94	U
Carbazole	UG/KG	0	0%		0	0	3	100	UJ	94	UJ
Chrysene	UG/KG	22	100%	400	0	3	3	22	J	17	J
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	3	100	U	94	U
Di-n-octylphthalate	UG/KG	0	0%	50000	0	0	3	100	UJ	94	UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	14	0	0	3	100	UJ	94	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	3	100	U	94	UJ
Diethyl phthalate	UG/KG	0	0%	7100	0	0	3	100	U	94	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	3	100	U	94	U
Fluoranthene	UG/KG	36	100%	50000	0	3	3	36	J	23	J
Fluorene	UG/KG	0	0%	50000	0	0	3	100	U	94	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	3	100	U	94	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	3	100	UJ	94	UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	3	100	U	94	U
Hexachloroethane	UG/KG	0	0%		0	0	3	100	U	94	U
Indeno(1,2,3-cd)pyrene	UG/KG	8.2	33%	3200	0	1	3	100	UJ	8.2	J
Isophorone	UG/KG	0	0%	4400	0	0	3	100	U	94	UJ
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	3	100	U	94	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	3	100	U	94	U
Naphthalene	UG/KG	0	0%	13000	0	0	3	100	U	94	UJ
Nitrobenzene	UG/KG	0	0%	200	0	0	3	100	U	94	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	3	250	U	230	R
Phenanthrene	UG/KG	25	100%	50000	0	3	3	25	J	18	J
Phenol	UG/KG	0	0%	30	0	0	3	100	U	94	U
Pyrene	UG/KG	34	100%	50000	0	3	3	34	J	20	J
<b>PESTICIDES/PCBS</b>											
4,4'-DDD	UG/KG	0	0%	2900	0	0	3	5.1	U	4.7	U
4,4'-DDE	UG/KG	0	0%	2100	0	0	3	5.1	U	4.7	U
4,4'-DDT	UG/KG	0	0%	2100	0	0	3	5.1	U	4.7	U
Aldrin	UG/KG	0	0%	41	0	0	3	2.6	U	2.4	U
Alpha-BHC	UG/KG	0	0%	110	0	0	3	2.6	U	2.4	U
Alpha-Chlordane	UG/KG	0	0%		0	0	3	2.6	U	2.4	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	3	51	U	47	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	3	100	U	96	U

TABLE G-4  
 BLDG 815/816/EM-28 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-29	MW12-30	MW12-30
MATRIX								SOIL	SOIL	SOIL
SAMP_ID								123133	123148	123136
DEPTH_TOP								0	0	0
DEPTH_BOT								0.2	0.2	0.2
SAMP_DATE								15-Oct-98	16-Oct-98	16-Oct-98
QC_CODE								SA	DU	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMUM	DETECTION	4046	TAGM	DETECTS	ANALYSES			
Aroclor-1232	UG/KG	0	0%	10000	0	0	3	51 U	47 U	48 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	3	51 U	47 U	48 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	3	51 U	47 U	48 U
Aroclor-1254	UG/KG	0	0%	10000	0	0	3	51 U	47 U	48 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	3	51 U	47 U	48 U
Beta-BHC	UG/KG	0	0%	200	0	0	3	2.6 U	2.4 U	2.5 U
Delta-BHC	UG/KG	0	0%	300	0	0	3	2.6 U	2.4 U	2.5 U
Dieldrin	UG/KG	0	0%	44	0	0	3	5.1 U	4.7 U	4.8 U
Endosulfan I	UG/KG	0	0%	900	0	0	3	2.6 U	2.4 U	2.5 U
Endosulfan II	UG/KG	0	0%	900	0	0	3	5.1 U	4.7 U	4.8 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	3	5.1 U	4.7 U	4.8 U
Endrin	UG/KG	0	0%	100	0	0	3	5.1 U	4.7 U	4.8 U
Endrin aldehyde	UG/KG	0	0%		0	0	3	5.1 U	4.7 U	4.8 U
Endrin ketone	UG/KG	0	0%		0	0	3	5.1 U	4.7 U	4.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	3	2.6 U	2.4 U	2.5 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	3	2.6 U	2.4 U	2.5 U
Heptachlor	UG/KG	0	0%	100	0	0	3	2.6 U	2.4 U	2.5 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	3	2.6 U	2.4 U	2.5 U
Methoxychlor	UG/KG	0	0%		0	0	3	26 U	24 U	25 U
Toxaphene	UG/KG	0	0%		0	0	3	260 U	240 U	250 U
<b>METALS</b>										
Aluminum	MG/KG	14900	100%	19520	0	3	3	14900 J	13500 J	12300 J
Antimony	MG/KG	0	0%	6	0	0	3	1.9 R	1.6 R	1.9 R
Arsenic	MG/KG	5	100%	8.9	0	3	3	5	4.1	4.6
Barium	MG/KG	113	100%	300	0	3	3	106 J	113 J	106 J
Beryllium	MG/KG	0.76	100%	1.13	0	3	3	0.7 J	0.76 J	0.74 J
Cadmium	MG/KG	17.7	33%	2.46	1	1	3	17.7	0.08 U	0.06 U
Calcium	MG/KG	13500	100%	125300	0	3	3	13500	6010	5850
Chromium	MG/KG	22.6	100%	30	0	3	3	22.6	18.6	17.7
Cobalt	MG/KG	10.6	100%	30	0	3	3	10.6 J	8.8 J	8.4 J
Copper	MG/KG	23.1	100%	33	0	3	3	21.1	22.1	23.1
Cyanide	MG/KG	0	0%	0.35	0	0	3	0.87 U	0.7 U	0.76 U
Iron	MG/KG	28600	100%	37410	0	3	3	28600 J	22300 J	23500 J
Lead	MG/KG	25	100%	24.4	1	3	3	25 J	22.6 J	22.4 J
Magnesium	MG/KG	10300	100%	21700	0	3	3	10300 J	3580 J	3430 J
Manganese	MG/KG	772	100%	1100	0	3	3	733	650	772

TABLE G-4  
 BLDG 815/816/EM-28 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID								SEAD-12 MW12-29 SOIL	SEAD-12 MW12-30 SOIL	SEAD-12 MW12-30 SOIL		
SAMP_ID	DEPTH_TOP								123133	123148	123136		
DEPTH_BOT	SAMP_DATE								0	0	0		
QC_CODE	STUDY_ID								0.2	0.2	0.2		
									15-Oct-98	16-Oct-98	16-Oct-98		
									SA	DU	SA		
									RI Phase 1	Step 1	RI Phase 1		
									Step 1	Step 1	RI Phase 1		
									Step 1	Step 1	Step 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Mercury	MG/KG	0.1	100%	0.1	0	3	3	0.08	J	0.1	J	0.09	J
Nickel	MG/KG	30.6	100%	50	0	3	3	30.6	J	26.3	J	25.1	J
Potassium	MG/KG	1790	100%	2623	0	3	3	1790		1620		1380	
Selenium	MG/KG	1.4	100%	2	0	3	3	1.4	J	1.2	J	1.1	J
Silver	MG/KG	0	0%	0.8	0	0	3	0.36	U	0.32	U	0.26	U
Sodium	MG/KG	0	0%	188	0	0	3	76.5	U	66.3	U	54.2	U
Thallium	MG/KG	0	0%	0.855	0	0	3	1.6	U	1.4	U	1.1	U
Vanadium	MG/KG	24.6	100%	150	0	3	3	24.6		22		20.4	
Zinc	MG/KG	93.3	100%	115	0	3	3	93.3	J	79.1	J	73.9	J
<b>WET CHEMISTRY</b>													
Nitrate/Nitrite	%WW												
Nitrate/Nitrite	MG/KG												
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%WW												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												









TABLE G-5  
 BLDG 815/816/EM-28 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-30 SOIL	SEAD-12 TP12-18A SOIL	SEAD-12 TP12-18B SOIL	SEAD-12 TP12-18C SOIL	SEAD-12 TP12-19A SOIL	SEAD-12 TP12-19B SOIL	SEAD-12 TP12-19C SOIL		
														123138	123022	123023	123024	123025	123026	123027		
														2	0.5	4	4.5	0.5	2	5.5		
														3.5	0.5	4	4.5	0.5	2	5.5		
														16-Oct-98	10/1/1998	10/1/1998	10/1/1998	10/1/1998	10/1/1998	10/1/1998		
														SA	SA	SA	SA	SA	SA	SA		
														RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	DETECTION	TAGM	ABOVE TAGM	DETECTS	ANALYSES															
<b>VOLATILE ORGANICS</b>																						
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	7	12	U					12	U						12	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	7	12	U					12	U						12	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	7	12	U					12	U						12	U
1,1-Dichloroethane	UG/KG	0	0%	400	0	0	7	12	U					12	U						12	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	7	12	U					12	U						12	U
1,2-Dichloroethane (total)	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Acetone	UG/KG	4	14%	200	0	1	7	4	J					12	UJ						12	UJ
Benzene	UG/KG	0	0%	60	0	0	7	12	U					12	U						12	U
Bromodichloromethane	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Bromoform	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	7	12	U					12	U						12	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	7	12	U					12	U						12	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	7	12	U					12	U						12	U
Chlorodibromomethane	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Chloroethane	UG/KG	0	0%	1900	0	0	7	12	UJ					12	U						12	U
Chloroform	UG/KG	0	0%	300	0	0	7	12	U					12	U						12	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	7	12	U					12	U						12	U
Methyl bromide	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Methyl butyl ketone	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Methyl chloride	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	7	12	UJ					12	U						12	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	7	12	U					12	U						12	U
Methylene chloride	UG/KG	0	0%	100	0	0	7	12	U					12	U						12	U
Styrene	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	7	12	U					12	U						12	U
Toluene	UG/KG	4	14%	1500	0	1	7	4	J					12	U						12	U
Total Xylenes	UG/KG	0	0%	1200	0	0	7	12	U					12	U						12	U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	7	12	U					12	U						12	U
Trichloroethene	UG/KG	0	0%	700	0	0	7	12	U					12	U						12	U
Vinyl chloride	UG/KG	0	0%	200	0	0	7	12	U					12	U						12	U
<b>SEMI VOLATILE ORGANICS</b>																						
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	7	77	U					77	U						76	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	7	77	U					77	U						76	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	7	77	U					77	U						76	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	7	77	U					77	U						76	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	7	190	U					190	U						180	U

TABLE G-5  
 BLDG 815/816/EM-28 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-30 SOIL 123138 2 3.5 16-Oct-98 SA		SEAD-12 TP12-18A SOIL 123022 0.5 0.5 10/1/1998 SA		SEAD-12 TP12-18B SOIL 123023 4 4 10/1/1998 SA		SEAD-12 TP12-18C SOIL 123024 4.5 4.5 10/1/1998 SA		SEAD-12 TP12-19A SOIL 123025 0.5 0.5 10/1/1998 SA		SEAD-12 TP12-19B SOIL 123026 2 2 10/1/1998 SA		SEAD-12 TP12-19C SOIL 123027 5.5 5.5 10/1/1998 SA	
								RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	76	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	7	77	UJ	77	UJ	150	U	76	UJ	76	UJ	77	UJ	77	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	7	190	U	190	R	360	U	180	R	180	R	190	R	180	R
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	7	77	UJ	77	UJ	150	U	76	UJ	76	UJ	77	UJ	77	UJ
2-Chlorophenol	UG/KG	0	0%	800	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
2-Methylnaphthalene	UG/KG	4.4	14%	36400	0	1	7	77	UJ	4.4	J	150	U	76	UJ	76	UJ	77	UJ	77	UJ
2-Methylphenol	UG/KG	0	0%	100	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	7	190	U	190	U	360	U	180	U	180	U	190	U	180	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	7	190	UJ	190	UJ	360	U	180	UJ	180	UJ	190	UJ	180	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	7	190	U	190	UJ	360	U	180	UJ	180	UJ	190	UJ	180	UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	7	77	UJ	77	U	150	U	76	U	76	U	77	U	77	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	7	77	UJ	77	UJ	150	UJ	76	UJ	76	UJ	77	UJ	77	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
4-Methylphenol	UG/KG	0	0%	900	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
4-Nitroaniline	UG/KG	0	0%	0	0	0	7	190	UJ	190	U	360	UJ	180	U	180	U	190	U	180	U
4-Nitrophenol	UG/KG	0	0%	100	0	0	7	190	UJ	190	UJ	360	U	180	UJ	180	UJ	190	UJ	180	UJ
Acenaphthene	UG/KG	0	0%	50000	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	7	77	U	77	UJ	150	U	76	UJ	76	UJ	77	UJ	77	UJ
Anthracene	UG/KG	0	0%	50000	0	0	7	77	UJ	77	U	150	U	76	U	76	U	77	U	77	U
Benzo(a)anthracene	UG/KG	0	0%	224	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
Benzo(a)pyrene	UG/KG	0	0%	61	0	0	7	77	UJ	77	U	150	U	76	U	76	U	77	U	77	U
Benzo(b)fluoranthene	UG/KG	4.7	29%	1100	0	2	7	77	U	4.7	J	150	U	76	U	4.4	J	77	U	77	U
Benzo(ghi)perylene	UG/KG	0	0%	50000	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
Benzo(k)fluoranthene	UG/KG	5.2	29%	1100	0	2	7	77	U	5.2	J	150	U	76	U	4	J	77	U	77	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U
Bis(2-Ethylhexyl)phthalate	UG/KG	11	43%	50000	0	3	7	77	U	11	J	150	U	76	U	5.8	J	5.6	J	77	U
Butylbenzylphthalate	UG/KG	93	14%	50000	0	1	7	77	U	77	U	93	J	76	U	76	U	77	U	77	U
Carbazole	UG/KG	0	0%	0	0	0	7	77	UJ	77	UJ	150	UJ	76	UJ	76	UJ	77	UJ	77	UJ
Chrysene	UG/KG	6.1	29%	400	0	2	7	77	U	6.1	J	150	U	76	U	5.1	J	77	U	77	U
Di-n-butylphthalate	UG/KG	880	88%	8100	0	6	7	77	U	4	J	880		5.9	J	3.9	J	4.6	J	4.6	J
Di-n-octylphthalate	UG/KG	5.5	14%	50000	0	1	7	5.5	J	77	U	150	U	76	U	76	U	77	U	77	U
Dibenz(a,h)anthracene	UG/KG	0	0%	14	0	0	7	77	U	77	U	150	U	76	U	76	U	77	U	77	U



TABLE G-5  
 BLDG 815/816/EM-28 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-30 SOIL 123138		SEAD-12 TP12-18A SOIL 123022		SEAD-12 TP12-18B SOIL 123023		SEAD-12 TP12-18C SOIL 123024		SEAD-12 TP12-19A SOIL 123025		SEAD-12 TP12-19B SOIL 123026		SEAD-12 TP12-19C SOIL 123027		
								RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase
Endrin aldehyde	UG/KG	0	0%		0	0	7	3.8 U		3.8 U		3.7 U		3.8 U		3.8 U		3.8 U		3.8 U		3.8 U
Endrin ketone	UG/KG	0	0%		0	0	7	3.8 U		3.8 U		3.7 U		3.8 U		3.8 U		3.8 U		3.8 U		3.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	7	2 U		2 U		1.9 U		2 U		2 U		2 U		2 U		2 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	7	2 U		2 U		1.9 U		2 U		2 U		2 U		2 U		2 U
Heptachlor	UG/KG	0	0%	100	0	0	7	2 U		2 U		1.9 U		2 U		2 U		2 U		2 U		2 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	7	2 U		2 U		1.9 U		2 U		2 U		2 U		2 U		2 U
Methoxychlor	UG/KG	0	0%		0	0	7	20 U		20 U		19 U		20 U		20 U		20 U		20 U		20 U
Toxaphene	UG/KG	0	0%		0	0	7	200 U		200 U		190 U		200 U		200 U		200 U		200 U		200 U
<b>METALS</b>																						
Aluminum	MG/KG	15300	100%	19520	0	7	7	12700 J		12800		13500		14800		12200		12300		15300		
Antimony	MG/KG	1.8	29%	6	0	2	7	1.1 R		1.8 J		1.2 R		1.1 R		1.2 R		1.3 R		1.1 J		
Arsenic	MG/KG	4.7	100%	8.9	0	7	7	4.7		3.4		4.4		4.1		3.1		3.5		4		
Barium	MG/KG	104	100%	300	0	7	7	104 J		95.8		84.8		79.3		80.6		88.8		99.6		
Beryllium	MG/KG	0.71	100%	1.13	0	7	7	0.47 J		0.55 J		0.55 J		0.54 J		0.52 J		0.53 J		0.71 J		
Cadmium	MG/KG	0	0%	2.46	0	0	7	0.05 U		0.06 U		0.06 U		0.06 U		0.06 U		0.06 U		0.05 U		
Calcium	MG/KG	13800	100%	125300	0	7	7	2710		13800 J		2550 J		3280 J		13100 J		2480 J		4810 J		
Chromium	MG/KG	26	100%	30	0	7	7	19		19.3		23.7		26		18.8		17.4		25.9		
Cobalt	MG/KG	18	100%	30	0	7	7	12.2		10.7		13.8		16.2		10.5		9 J		18		
Copper	MG/KG	30.2	100%	33	0	7	7	28.3		19.8		30.2		27.2		20.7		12.9		28.8		
Cyanide	MG/KG	0	0%	0.35	0	0	7	0.59 U		0.59 UJ		0.56 UJ		0.6 UJ		0.58 UJ		0.58 UJ		0.57 UJ		
Iron	MG/KG	33800	100%	37410	0	7	7	21900 J		23200		29200		33800		22600		21400		31600		
Lead	MG/KG	14.7	100%	24.4	0	7	7	11.8 J		12.6 J		12.2 J		14.7 J		11.8 J		11 J		10.8 J		
Magnesium	MG/KG	5960	100%	21700	0	7	7	4940 J		5910		5300		5960		5230		3070		5720		
Manganese	MG/KG	667	100%	1100	0	7	7	569		667		632		657		549		519		513		
Mercury	MG/KG	0.07	43%	0.1	0	3	7	0.06 J		0.07 J		0.05 U		0.05 U		0.05 U		0.06 U		0.07 J		
Nickel	MG/KG	50.5	100%	50	1	7	7	36 J		29.1		48.7		90.5		30.1		21.4		47.7		
Potassium	MG/KG	1330	100%	2623	0	7	7	1090		1330		1140		1020		821 J		821 J		1110		
Selenium	MG/KG	0	0%	2	0	0	7	0.84 UJ		0.9 UJ		0.91 UJ		0.85 UJ		0.93 UJ		0.96 U		0.8 UJ		
Silver	MG/KG	0	0%	0.8	0	0	7	0.22 U		0.24 U		0.24 U		0.22 U		0.24 U		0.25 U		0.21 U		
Sodium	MG/KG	66.7	43%	188	0	3	7	46 U		63.9 J		66.7 J		46.6 U		50.9 U		52.6 U		54.5 J		
Thallium	MG/KG	1.1	14%	0.855	1	1	7	1.1 J		1.4 U		1.4 U		1.5 U		1.4 U		1.3 U		1.3 U		
Vanadium	MG/KG	21.2	100%	150	0	7	7	20.2		20.7		19.9		20.9		18.3		19.4		21.2		
Zinc	MG/KG	113	100%	115	0	7	7	68.1 J		79.5		99.2		113		81.8		62.1		109		
<b>WET CHEMISTRY</b>																						
Nitrate/Nitrite	%WW																					
Nitrate/Nitrite	MG/KG																					
pH	SU																					
TOC-Soil 9060	MG/KG																					
Percent Solids	%WW																					
Percent Solids	MG/KG																					











TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	SEAD-12	SEAD-12	SEAD-12	SEAD-12							
LOCATION ID	MW12-10	MW12-11	MW12-12	MW12-13							
MATRIX	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	123007	123010	123013	123016							
SAMPLE DEPTH TO TOP OF SAMPLE	0	0	0	0							
SAMPLE DEPTH TO BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2							
SAMPLE DATE	29-Sep-98	29-Sep-98	30-Sep-98	01-Oct-98							
QC CODE	SA	SA	SA	SA							
STUDY ID	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1							
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N	N	N
<b>VOLATILE ORGANICS</b>											
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	15	11	U	11	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	15	11	U	11	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	15	11	U	11	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	15	11	U	11	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	15	11	U	11	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	15	11	U	11	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	15	11	U	11	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	15	11	U	11	U
Acetone	UG/KG	52	47%	200	0	7	15	11	U	11	U
Benzene	UG/KG	0	0%	60	0	0	15	11	U	11	U
Bromodichloromethane	UG/KG	0	0%		0	0	15	11	U	11	U
Bromoform	UG/KG	0	0%		0	0	15	11	U	11	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	15	11	U	11	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	15	11	U	11	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	15	11	U	11	U
Chlorodibromomethane	UG/KG	0	0%		0	0	15	11	U	11	U
Chloroethane	UG/KG	0	0%	1900	0	0	15	11	U	11	U
Chloroform	UG/KG	0	0%	300	0	0	15	11	U	11	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	15	11	U	11	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	15	11	U	11	U
Methyl bromide	UG/KG	0	0%		0	0	15	11	U	11	U
Methyl butyl ketone	UG/KG	1	7%		0	1	15	11	U	11	U
Methyl chloride	UG/KG	0	0%		0	0	15	11	U	11	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	15	11	U	11	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	15	11	U	11	U
Methylene chloride	UG/KG	1	7%	100	0	1	15	11	U	1	J
Styrene	UG/KG	0	0%		0	0	15	11	U	11	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	15	11	U	11	U
Toluene	UG/KG	4	27%	1500	0	4	15	11	U	11	U
Total Xylenes	UG/KG	0	0%	1200	0	0	15	11	U	11	U

TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-10 SOIL	SEAD-12 MW12-11 SOIL	SEAD-12 MW12-12 SOIL	SEAD-12 MW12-13 SOIL				
									123007	123010	123013	123016				
									0	0	0	0				
									0.2	0.2	0.2	0.2				
									29-Sep-98	29-Sep-98	30-Sep-98	01-Oct-98				
									SA	SA	SA	SA				
									RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1				
									STEP	STEP 1	STEP 1	STEP 1				
									N	N	N	N				
									N	N	N	N				
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI PHASE 1	STEP	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	15		11	U	11	U	12	U	12	U
Trichloroethene	UG/KG	0	0%	700	0	0	15		11	U	11	U	12	U	12	U
Vinyl chloride	UG/KG	0	0%	200	0	0	15		11	U	11	U	12	U	12	U
<b>SEMI VOLATILE ORGANICS</b>																
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	15		77	UJ	72	UJ	80	UJ	78	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	15		77	UJ	72	UJ	80	UJ	78	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	15		77	UJ	72	UJ	80	UJ	78	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	15		77	U	72	U	80	U	78	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	15		190	U	180	U	190	U	190	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	15		77	U	72	U	80	U	78	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	15		77	U	72	U	80	U	78	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	15		77	UJ	72	UJ	80	UJ	78	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	15		190	U	180	U	190	U	190	UR
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	15		77	U	72	U	80	U	78	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	15		77	U	72	U	80	U	78	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	15		77	UJ	72	UJ	80	UJ	78	UJ
2-Chlorophenol	UG/KG	0	0%	800	0	0	15		77	U	72	U	80	U	78	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	15		77	UJ	72	UJ	80	UJ	78	UJ
2-Methylphenol	UG/KG	0	0%	100	0	0	15		77	U	72	U	80	U	78	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	15		190	U	180	U	190	U	190	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	15		77	U	72	U	80	U	78	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	15		77	U	72	U	80	U	78	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	15		190	U	180	U	190	UJ	190	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	15		190	U	180	U	190	U	190	UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	15		77	U	72	U	80	U	78	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	15		77	U	72	U	80	U	78	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	15		77	UJ	72	UJ	80	UJ	78	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	15		77	U	72	U	80	U	78	U
4-Methylphenol	UG/KG	0	0%	900	0	0	15		77	U	72	U	80	U	78	U
4-Nitroaniline	UG/KG	0	0%		0	0	15		190	UJ	180	UJ	190	U	190	U
4-Nitrophenol	UG/KG	0	0%	100	0	0	15		190	U	180	U	190	U	190	UJ

TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-10 SOIL 123007 0 0.2 29-Sep-98 SA	SEAD-12 MW12-11 SOIL 123010 0 0.2 29-Sep-98 SA	SEAD-12 MW12-12 SOIL 123013 0 0.2 30-Sep-98 SA	SEAD-12 MW12-13 SOIL 123016 0 0.2 01-Oct-98 SA			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI PHASE 1 STEP	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1			
Acenaphthene	UG/KG	0	0%	50000	0	0	15	77	UJ	72	UJ	80	UJ	78	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	15	77	UJ	72	UJ	80	UJ	78	UJ
Anthracene	UG/KG	0	0%	50000	0	0	15	77	UJ	72	UJ	80	UJ	78	U
Benzo(a)anthracene	UG/KG	27	33%	224	0	5	15	77	U	72	U	80	U	4.5	J
Benzo(a)pyrene	UG/KG	18	33%	61	0	5	15	77	UJ	72	UJ	80	UJ	5	J
Benzo(b)fluoranthene	UG/KG	36	40%	1100	0	6	15	77	U	72	U	80	U	5.9	J
Benzo(ghi)perylene	UG/KG	23	33%	50000	0	5	15	77	U	72	U	80	U	4	J
Benzo(k)fluoranthene	UG/KG	26	27%	1100	0	4	15	77	U	72	U	80	U	7.6	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	15	77	U	72	U	80	U	78	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	15	77	U	72	U	80	U	78	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	15	77	U	72	U	80	U	78	U
Bis(2-Ethylhexyl)phthalate	UG/KG	210	20%	50000	0	3	15	77	U	72	U	210		11	J
Butylbenzylphthalate	UG/KG	6.7	7%	50000	0	1	15	77	U	72	U	80	U	78	U
Carbazole	UG/KG	16	7%		0	1	15	77	UJ	72	UJ	80	UJ	78	UJ
Chrysene	UG/KG	51	47%	400	0	7	15	4.3	J	72	UJ	80	UJ	6.8	J
Di-n-butylphthalate	UG/KG	68	20%	8100	0	3	15	77	UJ	72	UJ	80	UJ	78	UJ
Di-n-octylphthalate	UG/KG	7.8	13%	50000	0	2	15	77	U	72	U	80	U	78	U
Dibenz(a,h)anthracene	UG/KG	16	13%	14	1	2	15	77	U	72	U	80	U	78	U
Dibenzofuran	UG/KG	5.6	7%	6200	0	1	15	77	UJ	72	UJ	80	UJ	78	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	15	77	UJ	72	UJ	80	UJ	78	UJ
Dimethylphthalate	UG/KG	0	0%	2000	0	0	15	77	UJ	72	UJ	80	UJ	78	U
Fluoranthene	UG/KG	24	53%	50000	0	8	15	5.5	J	72	UJ	80	UJ	9.1	J
Fluorene	UG/KG	5.4	7%	50000	0	1	15	77	U	72	U	80	U	78	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	15	77	U	72	U	80	U	78	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	15	77	UJ	72	UJ	80	UJ	78	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	15	77	U	72	U	80	U	78	U
Hexachloroethane	UG/KG	0	0%		0	0	15	77	UJ	72	UJ	80	UJ	78	U
Indeno(1,2,3-cd)pyrene	UG/KG	18	27%	3200	0	4	15	77	U	72	U	80	U	78	U
Isophorone	UG/KG	0	0%	4400	0	0	15	77	UJ	72	UJ	80	UJ	78	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	15	77	U	72	U	80	U	78	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	15	77	U	72	U	80	U	78	U

TABLE G-6  
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SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-10 SOIL	SEAD-12 MW12-11 SOIL	SEAD-12 MW12-12 SOIL	SEAD-12 MW12-13 SOIL				
									123007	123010	123013	123016				
									0	0	0	0				
									0.2	0.2	0.2	0.2				
									29-Sep-98	29-Sep-98	30-Sep-98	01-Oct-98				
									SA	SA	SA	SA				
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
Naphthalene	UG/KG	0	0%	13000	0	0	15		77	UJ	72	UJ	80	UJ	78	U
Nitrobenzene	UG/KG	0	0%	200	0	0	15		77	UJ	72	UJ	80	UJ	78	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	15		190	U	180	U	190	UR	190	U
Phenanthrene	UG/KG	8.5	33%	50000	0	5	15		77	U	72	U	80	U	6.5	J
Phenol	UG/KG	0	0%	30	0	0	15		77	U	72	U	80	U	78	U
Pyrene	UG/KG	22	53%	50000	0	8	15		4.2	J	72	U	80	U	9.1	J
<b>PESTICIDES/PCBS</b>																
4,4'-DDD	UG/KG	0	0%	2900	0	0	15		3.8	U	3.6	U	4	U	4	U
4,4'-DDE	UG/KG	15	13%	2100	0	2	15		3.8	U	3.6	U	4	U	4	U
4,4'-DDT	UG/KG	42	13%	2100	0	2	15		3.8	U	3.6	U	4	U	4	U
Aldrin	UG/KG	0	0%	41	0	0	15		2	U	1.9	U	2	U	2	U
Alpha-BHC	UG/KG	0	0%	110	0	0	15		2	U	1.9	U	2	U	2	U
Alpha-Chlordane	UG/KG	0	0%		0	0	15		2	U	1.9	U	2	U	2	U
Aroclor-1016	UG/KG	0	0%		0	0	15		38	U	36	U	40	U	40	U
Aroclor-1221	UG/KG	0	0%		0	0	15		78	U	74	U	81	U	81	U
Aroclor-1232	UG/KG	0	0%		0	0	15		38	U	36	U	40	U	40	U
Aroclor-1242	UG/KG	0	0%		0	0	15		38	U	36	U	40	U	40	U
Aroclor-1248	UG/KG	0	0%		0	0	15		38	U	36	U	40	U	40	U
Aroclor-1254	UG/KG	670	20%	10000	0	3	15		38	U	36	U	40	U	40	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	15		38	U	36	U	40	U	40	U
Beta-BHC	UG/KG	0	0%	200	0	0	15		2	U	1.9	U	2	U	2	U
Delta-BHC	UG/KG	0	0%	300	0	0	15		2	U	1.9	U	2	U	2	U
Dieldrin	UG/KG	14	13%	44	0	2	15		3.8	U	3.6	U	4	U	4	U
Endosulfan I	UG/KG	1.8	7%	900	0	1	15		2	U	1.9	U	2	U	2	U
Endosulfan II	UG/KG	2.7	7%	900	0	1	15		3.8	U	3.6	U	4	U	4	U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	15		3.8	U	3.6	U	4	U	4	U
Endrin	UG/KG	4.2	13%	100	0	2	15		3.8	U	3.6	U	4	U	4	U
Endrin aldehyde	UG/KG	5.6	13%		0	2	15		3.8	U	3.6	U	4	U	4	U
Endrin ketone	UG/KG	0	0%		0	0	15		3.8	U	3.6	U	4	U	4	U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	15		2	U	1.9	U	2	U	2	U
Gamma-Chlordane	UG/KG	11	20%	540	0	3	15		2	U	1.9	U	2	U	2	U





TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-8 SOIL	SEAD-12 SB12-1 SOIL	SEAD-12 SB12-1 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2B SOIL
									123183	12209	12534	123112	123064
				0	0	0			0	0	0	0	0
				0.2	0.2	0.2			0.2	0.2	0.2	0.2	0.2
				28-Oct-98	28-Oct-98	28-Oct-98			#####	11-Nov-97	11-Nov-97	14-Oct-98	04-Oct-98
				SA	SA	SA			DU	SA	SA	SA	SA
				FREQUENCY OF DETECTION	NYSDEC TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	MAXIMUM			4046			N	N	N	N	N	N
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	0	15	13 U	12 U	12 U	11 U	12
Trichloroethene	UG/KG	0	0%	700	0	0	0	15	13 U	12 U	12 U	11 U	12
Vinyl chloride	UG/KG	0	0%	200	0	0	0	15	13 U	12 U	12 U	11 U	12
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	0	15	83 U	78 U	78 U	75 U	73
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	0	15	83 U	78 U	78 U	75 U	73
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	0	15	83 U	78 U	78 U	75 U	73
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	0	15	83 U	78 U	78 U	75 U	73
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	0	15	200 U	190 U	190 U	180 U	180
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	0	15	83 U	78 U	78 U	75 U	73
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	0	15	83 U	78 U	78 U	75 U	73
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	0	15	83 U	78 U	78 U	75 U	73
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	0	15	200 U	190 U	190 U	180 U	180
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	0	15	83 U	78 U	78 U	75 U	73
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	0	15	83 U	78 U	78 U	75 U	73
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	0	15	83 U	78 U	78 U	75 U	73
2-Chlorophenol	UG/KG	0	0%	800	0	0	0	15	83 U	78 U	78 U	75 U	73
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	0	15	83 U	78 U	78 U	75 U	73
2-Methylphenol	UG/KG	0	0%	100	0	0	0	15	83 U	78 U	78 U	75 U	73
2-Nitroaniline	UG/KG	0	0%	430	0	0	0	15	200 U	190 U	190 U	180 U	180
2-Nitrophenol	UG/KG	0	0%	330	0	0	0	15	83 U	78 U	78 U	75 U	73
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	0	15	83 U	78 U	78 U	75 U	73
3-Nitroaniline	UG/KG	0	0%	500	0	0	0	15	200 U	190 U	190 U	180 U	180
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	0	15	200 U	190 U	190 U	180 U	180
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	0	15	83 U	78 U	78 U	75 U	73
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	0	15	83 U	78 U	78 U	75 U	73
4-Chloroaniline	UG/KG	0	0%	220	0	0	0	15	83 U	78 U	78 U	75 U	73
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	0	15	83 U	78 U	78 U	75 U	73
4-Methylphenol	UG/KG	0	0%	900	0	0	0	15	83 U	78 U	78 U	75 U	73
4-Nitroaniline	UG/KG	0	0%	0	0	0	0	15	200 U	190 U	190 U	180 U	180
4-Nitrophenol	UG/KG	0	0%	100	0	0	0	15	200 U	190 U	190 U	180 U	180

TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-8 SOIL	SEAD-12 SB12-1 SOIL	SEAD-12 SB12-1 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2B SOIL			
									123183	12209	12534	123112	123064			
									0	0	0	0	0			
									0.2	0.2	0.2	0.2	0.2			
									28-Oct-98	#####	11-Nov-97	14-Oct-98	04-Oct-98			
									SA	DU	SA	SA	SA			
									RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
									N	N	N	N	N			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
Acenaphthene	UG/KG	0	0%	50000	0	0	15	83	U	78	U	78	U	75	U	73
Acenaphthylene	UG/KG	0	0%	41000	0	0	15	83	U	78	U	78	U	75	U	73
Anthracene	UG/KG	0	0%	50000	0	0	15	83	U	78	U	78	U	75	U	73
Benzo(a)anthracene	UG/KG	27	33%	224	0	5	15	6.4	J	11	J	78	U	75	U	4
Benzo(a)pyrene	UG/KG	18	33%	61	0	5	15	8	J	15	J	78	U	75	U	5.7
Benzo(b)fluoranthene	UG/KG	36	40%	1100	0	6	15	9.7	J	30	J	78	U	75	U	6.2
Benzo(ghi)perylene	UG/KG	23	33%	50000	0	5	15	6.6	J	23	J	78	U	75	UJ	4.6
Benzo(k)fluoranthene	UG/KG	26	27%	1100	0	4	15	7.4	J	78	U	78	U	75	U	7
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	U	73
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	U	73
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	U	73
Bis(2-Ethylhexyl)phthalate	UG/KG	210	20%	50000	0	3	15	83	U	78	U	78	U	75	U	73
Butylbenzylphthalate	UG/KG	6.7	7%	50000	0	1	15	83	U	6.7	J	78	U	75	U	73
Carbazole	UG/KG	16	7%		0	1	15	83	U	78	U	78	U	75	UJ	73
Chrysene	UG/KG	51	47%	400	0	7	15	9.1	J	17	J	78	U	75	U	7
Di-n-butylphthalate	UG/KG	68	20%	8100	0	3	15	83	U	68	J	78	U	75	U	73
Di-n-octylphthalate	UG/KG	7.8	13%	50000	0	2	15	83	U	7.8	J	78	U	6	J	73
Dibenz(a,h)anthracene	UG/KG	16	13%	14	1	2	15	83	U	16	J	78	U	75	UJ	73
Dibenzofuran	UG/KG	5.6	7%	6200	0	1	15	83	U	5.6	J	78	U	75	U	73
Diethyl phthalate	UG/KG	0	0%	7100	0	0	15	83	U	78	U	78	U	75	U	73
Dimethylphthalate	UG/KG	0	0%	2000	0	0	15	83	U	78	U	78	U	75	U	73
Fluoranthene	UG/KG	24	53%	50000	0	8	15	14	J	9.7	J	78	U	75	U	8.2
Fluorene	UG/KG	5.4	7%	50000	0	1	15	83	U	5.4	J	78	U	75	U	73
Hexachlorobenzene	UG/KG	0	0%	410	0	0	15	83	U	78	U	78	U	75	U	73
Hexachlorobutadiene	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	UJ	73
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	U	73
Hexachloroethane	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	U	73
Indeno(1,2,3-cd)pyrene	UG/KG	18	27%	3200	0	4	15	6.1	J	18	J	78	U	75	UJ	4.3
Isophorone	UG/KG	0	0%	4400	0	0	15	83	U	78	U	78	U	75	U	73
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	U	73
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	15	83	U	78	U	78	U	75	U	73



TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY										SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOCATION ID										MW12-8	SB12-1	SB12-1	SB12-2	SB12-2B	
MATRIX										SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID										123183	12209	12534	123112	123064	
SAMPLE DEPTH TO TOP OF SAMPLE										0	0	0	0	0	
SAMPLE DEPTH TO BOTTOM OF SAMPLE										0.2	0.2	0.2	0.2	0.2	
SAMPLE DATE										28-Oct-98	#####	11-Nov-97	14-Oct-98	04-Oct-98	
QC CODE										SA	DU	SA	SA	SA	
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER			RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	
			OF	TAGM	ABOVE	OF	OF			STEP 1	STEP 1	STEP 1	STEP 1	STEP 1	
PARAMETER	UNIT	MAXIMUM	DETECTION	4046	TAGM	DETECTS	ANALYSES	N	N	N	N	N	N	N	
Naphthalene	UG/KG	0	0%	13000	0	0	15	83 U	N	78 U	78 U	78 U	75 U	73	
Nitrobenzene	UG/KG	0	0%	200	0	0	15	83 U	N	78 U	78 U	78 U	75 U	73	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	15	200 U	N	190 U	190 U	190 U	180 U	180	
Phenanthrene	UG/KG	8.5	33%	50000	0	5	15	7.8 J	N	8.5 J	78 U	78 U	75 U	5.8	
Phenol	UG/KG	0	0%	30	0	0	15	83 U	N	78 U	78 U	78 U	75 U	73	
Pyrene	UG/KG	22	53%	50000	0	8	15	22 J	N	10 J	4.5 J	75 U	75 U	10	
<b>PESTICIDES/PCBS</b>															
4,4'-DDD	UG/KG	0	0%	2900	0	0	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
4,4'-DDE	UG/KG	15	13%	2100	0	2	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
4,4'-DDT	UG/KG	42	13%	2100	0	2	15	4.2 U	N	3.9 U	3.9 U	1.8 J	3.8 U	4.1	
Aldrin	UG/KG	0	0%	41	0	0	15	2.2 U	N	2 U	2 U	2 U	1.9 U	2.1	
Alpha-BHC	UG/KG	0	0%	110	0	0	15	2.2 U	N	2 U	2 U	2 U	1.9 U	2.1	
Alpha-Chlordane	UG/KG	0	0%		0	0	15	2.2 U	N	2 U	2 U	2 U	1.9 U	2.1	
Aroclor-1016	UG/KG	0	0%		0	0	15	42 U	N	39 U	39 U	39 U	38 U	41	
Aroclor-1221	UG/KG	0	0%		0	0	15	85 U	N	80 U	79 U	79 U	76 U	84	
Aroclor-1232	UG/KG	0	0%		0	0	15	42 U	N	39 U	39 U	39 U	38 U	41	
Aroclor-1242	UG/KG	0	0%		0	0	15	42 U	N	39 U	39 U	39 U	38 U	41	
Aroclor-1248	UG/KG	0	0%		0	0	15	42 U	N	39 U	39 U	39 U	38 U	41	
Aroclor-1254	UG/KG	670	20%	10000	0	3	15	42 U	N	39 U	39 U	39 U	38 U	41	
Aroclor-1260	UG/KG	0	0%	10000	0	0	15	42 U	N	39 U	39 U	39 U	38 U	41	
Beta-BHC	UG/KG	0	0%	200	0	0	15	2.2 U	N	2 U	2 U	2 U	1.9 U	2.1	
Delta-BHC	UG/KG	0	0%	300	0	0	15	2.2 U	N	2 U	2 U	2 U	1.9 U	2.1	
Dieldrin	UG/KG	14	13%	44	0	2	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
Endosulfan I	UG/KG	1.8	7%	900	0	1	15	2.2 U	N	2 U	2 U	2 U	1.9 U	2.1	
Endosulfan II	UG/KG	2.7	7%	900	0	1	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
Endrin	UG/KG	4.2	13%	100	0	2	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
Endrin aldehyde	UG/KG	5.6	13%		0	2	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
Endrin ketone	UG/KG	0	0%		0	0	15	4.2 U	N	3.9 U	3.9 U	3.9 U	3.8 U	4.1	
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	15	2.2 U	N	2 U	2 U	2 U	1.9 U	2.1	
Gamma-Chlordane	UG/KG	11	20%	540	0	3	15	2.2 U	N	3.2	2 U	2 U	1.9 U	2.1	

TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-8 SOIL	SEAD-12 SB12-1 SOIL	SEAD-12 SB12-1 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2B SOIL		
									123183	12209	12534	123112	123064		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									28-Oct-98	#####	11-Nov-97	14-Oct-98	04-Oct-98		
									SA	DU	SA	SA	SA		
									RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1		
									STEP 1	STEP 1	STEP 1	STEP 1	STEP 1		
									N	N	N	N	N		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
Heptachlor	UG/KG	0	0%	100	0	0	15	2.2	U	N	2	U	N	1.9	U
Heptachlor epoxide	UG/KG	4.6	13%	20	0	2	15	2.2	U	N	2	U	N	1.9	U
Methoxychlor	UG/KG	0	0%	0	0	0	15	22	U	N	20	U	N	19	U
Toxaphene	UG/KG	0	0%	0	0	0	15	220	U	N	200	U	N	190	U
<b>METALS</b>															
Aluminum	MG/KG	15800	100%	19520	0	15	15	11700		N	10200		N	8590	
Antimony	MG/KG	0.87	13%	6	0	2	15	1.5	UR	N	0.81	J	N	0.87	J
Arsenic	MG/KG	4.9	100%	8.9	0	15	15	3.1		N	4.9		N	3.9	
Barium	MG/KG	89.2	100%	300	0	15	15	76.1		N	89.2		N	74.2	
Beryllium	MG/KG	0.59	100%	1.13	0	15	15	0.58	J	N	0.38		N	0.38	
Cadmium	MG/KG	3.2	20%	2.46	1	3	15	0.43	U	N	1.1		N	0.86	
Calcium	MG/KG	77600	100%	125300	0	15	15	4240		N	30600		N	52700	
Chromium	MG/KG	23.3	100%	30	0	15	15	15.1	J	N	22.8		N	16.7	
Cobalt	MG/KG	17.5	100%	30	0	15	15	8.6	J	N	9.5		N	8.3	
Copper	MG/KG	32.5	100%	33	0	15	15	15.1		N	27.5		N	21.3	
Cyanide	MG/KG	1.6	13%	0.35	2	2	15	0.66	UJ	N	0.66	UJ	N	0.67	UJ
Iron	MG/KG	27100	100%	37410	0	15	15	19500		N	22700		N	17900	
Lead	MG/KG	22.2	100%	24.4	0	15	15	15.7	J	N	16.3	J	N	13.4	J
Magnesium	MG/KG	21500	100%	21700	0	15	15	3120		N	7050		N	7270	
Manganese	MG/KG	1420	100%	1100	1	15	15	701		N	536		N	499	
Mercury	MG/KG	0.11	20%	0.1	1	3	15	0.06	U	N	0.05	U	N	0.05	U
Nickel	MG/KG	39.9	93%	50	0	14	15	16.3	UJ	N	30.4		N	22.7	
Potassium	MG/KG	1740	100%	2623	0	15	15	1170	J	N	1320		N	993	
Selenium	MG/KG	2.5	13%	2	2	2	15	0.55	U	N	2.1		N	2.5	
Silver	MG/KG	0.2	7%	0.8	0	1	15	0.29	U	N	0.48	U	N	0.49	U
Sodium	MG/KG	207	27%	188	1	4	15	60	U	N	115		N	107	
Thallium	MG/KG	1.8	33%	0.855	5	5	15	1.8	J	N	1.5		N	1.5	U
Vanadium	MG/KG	24	100%	150	0	15	15	20.8		N	17.6		N	14.7	
Zinc	MG/KG	83.7	100%	115	0	15	15	53.6	J	N	64.2		N	60.7	

TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOCATION ID									SB12-3	SB12-4	SS12-15	SS12-16	
MATRIX									SOIL	SOIL	SOIL	SOIL	
SAMPLE ID									12524	12530	123211	123102	
SAMPLE DEPTH TO TOP OF SAMPLE									0	0	0	0	
SAMPLE DEPTH TO BOTTOM OF SAMPLE									0.2	0.2	0.2	0.2	
SAMPLE DATE									09-Nov-97	10-Nov-97	03-Nov-98	13-Oct-98	
QC CODE									SA	SA	SA	SA	
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE
PARAMETER	UNIT	MAXIMUM	OF	TAGM	ABOVE	OF	OF		N		N		N
			DETECTION	4046	TAGM	DETECTS	ANALYSES						
<b>VOLATILE ORGANICS</b>													
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	15 U		12 U		12 U		12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	15 U		12 U		12 U		12 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	15 U		12 U		12 U		12 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	15 U		12 U		12 U		12 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	15 UJ		12 U		12 U		12 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
Acetone	UG/KG	52	47%	200	0	7	15 UJ	4 J		5 J		12 U	
Benzene	UG/KG	0	0%	60	0	0	15 U		12 U		12 U		12 U
Bromodichloromethane	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
Bromoform	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	15 U		12 U		12 U		12 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	15 U		12 U		12 U		12 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	15 U		12 U		12 U		12 U
Chlorodibromomethane	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
Chloroethane	UG/KG	0	0%	1900	0	0	15 UJ		12 U		12 U		12 U
Chloroform	UG/KG	0	0%	300	0	0	15 U		12 U		12 U		12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	15 U		12 U		12 U		12 U
Methyl bromide	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
Methyl butyl ketone	UG/KG	1	7%		0	1	15 U		12 U		1 J		12 U
Methyl chloride	UG/KG	0	0%		0	0	15 UJ		12 U		12 U		12 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	15 U		12 U		12 U		12 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	15 U		12 U		12 U		12 U
Methylene chloride	UG/KG	1	7%	100	0	1	15 U		12 U		12 U		12 U
Styrene	UG/KG	0	0%		0	0	15 U		12 U		12 U		12 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	15 U		12 U		12 U		12 U
Toluene	UG/KG	4	27%	1500	0	4	15 U	3 J		4 J		12 U	1
Total Xylenes	UG/KG	0	0%	1200	0	0	15 U		12 U		12 U		12 U



TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	SEAD-12	SEAD-12	SEAD-12	SEAD-12										
LOCATION ID	SB12-3	SB12-4	SS12-15	SS12-16										
MATRIX	SOIL	SOIL	SOIL	SOIL										
SAMPLE ID	12524	12530	123211	123102										
SAMPLE DEPTH TO TOP OF SAMPLE	0	0	0	0										
SAMPLE DEPTH TO BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2										
SAMPLE DATE	09-Nov-97	10-Nov-97	03-Nov-98	13-Oct-98										
QC CODE	SA	SA	SA	SA										
STUDY ID	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1										
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1		
UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1		
Acenaphthene	UG/KG	0	0%	50000	0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Acenaphthylene	UG/KG	0	0%	41000	0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Anthracene	UG/KG	0	0%	50000	0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Benzo(a)anthracene	UG/KG	27	33%	224	0	5	15 J	N	82 U	N	84 U	N	80 UJ	80
Benzo(a)pyrene	UG/KG	18	33%	61	0	5	15 J	N	82 U	N	84 U	N	80 UJ	80
Benzo(b)fluoranthene	UG/KG	36	40%	1100	0	6	15 J	N	82 U	N	84 U	N	4.2 J	80
Benzo(ghi)perylene	UG/KG	23	33%	50000	0	5	15 J	N	82 U	N	84 U	N	80 U	80
Benzo(k)fluoranthene	UG/KG	26	27%	1100	0	4	15 J	N	82 U	N	84 U	N	80 U	80
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	15 U	N	82 U	N	84 U	N	80 U	80
Bis(2-Ethylhexyl)phthalate	UG/KG	210	20%	50000	0	3	15 UJ	N	82 U	N	84 U	N	80 UJ	80
Butylbenzylphthalate	UG/KG	6.7	7%	50000	0	1	15 UJ	N	82 U	N	84 U	N	80 UJ	80
Carbazole	UG/KG	16	7%		0	1	15 UJ	N	82 U	N	84 U	N	80 UJ	80
Chrysene	UG/KG	51	47%	400	0	7	15 J	N	82 U	N	5.1 J	N	80 UJ	80
Di-n-butylphthalate	UG/KG	68	20%	8100	0	3	15 U	N	82 U	N	84 U	N	7.2 J	80
Di-n-octylphthalate	UG/KG	7.8	13%	50000	0	2	15 UJ	N	82 U	N	84 U	N	80 U	80
Dibenz(a,h)anthracene	UG/KG	16	13%	14	1	2	15 U	N	82 U	N	84 U	N	80 U	80
Dibenzofuran	UG/KG	5.6	7%	6200	0	1	15 U	N	82 U	N	84 U	N	80 UJ	80
Diethyl phthalate	UG/KG	0	0%	7100	0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Dimethylphthalate	UG/KG	0	0%	2000	0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Fluoranthene	UG/KG	24	53%	50000	0	8	15 J	N	82 U	N	7 J	N	80 UJ	80
Fluorene	UG/KG	5.4	7%	50000	0	1	15 U	N	82 U	N	84 U	N	80 U	80
Hexachlorobenzene	UG/KG	0	0%	410	0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Hexachlorobutadiene	UG/KG	0	0%		0	0	15 UJ	N	82 U	N	84 U	N	80 UJ	80
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
Hexachloroethane	UG/KG	0	0%		0	0	15 UJ	N	82 U	N	84 U	N	80 U	80
Indeno(1,2,3-cd)pyrene	UG/KG	18	27%	3200	0	4	15 J	N	82 U	N	84 U	N	80 U	80
Isophorone	UG/KG	0	0%	4400	0	0	15 U	N	82 U	N	84 U	N	80 UJ	80
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	15 U	N	82 U	N	84 U	N	80 U	80
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	15 U	N	82 U	N	84 U	N	80 U	80

TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 SB12-3 SOIL	SEAD-12 SB12-4 SOIL	SEAD-12 SS12-15 SOIL	SEAD-12 SS12-16 SOIL
									12524	12530	123211	123102
									0	0	0	0
									0.2	0.2	0.2	0.2
									09-Nov-97	10-Nov-97	03-Nov-98	13-Oct-98
									SA	SA	SA	SA
									RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1
									STEP 1	STEP 1	STEP 1	STEP 1
									N	N	N	N
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	1 STEP 1				
Naphthalene	UG/KG	0	0%	13000	0	0	15	U	82	84	80	80
Nitrobenzene	UG/KG	0	0%	200	0	0	15	U	82	84	80	80
Pentachlorophenol	UG/KG	0	0%	1000	0	0	15	U	200	200	200	190
Phenanthrene	UG/KG	8.5	33%	50000	0	5	15	J	82	84	80	80
Phenol	UG/KG	0	0%	30	0	0	15	U	82	84	80	80
Pyrene	UG/KG	22	53%	50000	0	8	15	J	82	6.1	80	80
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	0	0%	2900	0	0	15	U	4.1	4.2	4	4
4,4'-DDE	UG/KG	15	13%	2100	0	2	15	U	4.8	4.2	4	4
4,4'-DDT	UG/KG	42	13%	2100	0	2	15	U	4.1	4.2	4	4
Aldrin	UG/KG	0	0%	41	0	0	15	U	2.1	2.2	2.1	2
Alpha-BHC	UG/KG	0	0%	110	0	0	15	U	2.1	2.2	2.1	2
Alpha-Chlordane	UG/KG	0	0%		0	0	15	U	2.1	2.2	2.1	2
Aroclor-1016	UG/KG	0	0%		0	0	15	U	41	42	40	40
Aroclor-1221	UG/KG	0	0%		0	0	15	U	84	85	82	81
Aroclor-1232	UG/KG	0	0%		0	0	15	U	41	42	40	40
Aroclor-1242	UG/KG	0	0%		0	0	15	U	41	42	40	40
Aroclor-1248	UG/KG	0	0%		0	0	15	U	41	42	40	40
Aroclor-1254	UG/KG	670	20%	10000	0	3	15	U	440	24	40	40
Aroclor-1260	UG/KG	0	0%	10000	0	0	15	U	41	42	40	40
Beta-BHC	UG/KG	0	0%	200	0	0	15	U	2.1	2.2	2.1	2
Delta-BHC	UG/KG	0	0%	300	0	0	15	U	2.1	2.2	2.1	2
Dieldrin	UG/KG	14	13%	44	0	2	15	U	5.8	4.2	4	4
Endosulfan I	UG/KG	1.8	7%	900	0	1	15	U	2.1	2.2	2.1	2
Endosulfan II	UG/KG	2.7	7%	900	0	1	15	U	2.7	4.2	4	4
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	15	U	4.1	4.2	4	4
Endrin	UG/KG	4.2	13%	100	0	2	15	U	2.6	4.2	4	4
Endrin aldehyde	UG/KG	5.6	13%		0	2	15	U	3.5	4.2	4	4
Endrin ketone	UG/KG	0	0%		0	0	15	U	4.1	4.2	4	4
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	15	U	2.1	2.2	2.1	2
Gamma-Chlordane	UG/KG	11	20%	540	0	3	15	U	9	2.2	2.1	2







TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1	SEAD-12 SS12-17 SOIL 123212	SEAD-12 SS12-183 SOIL 123377	
PARAMETER	UNIT	MAXIMUM	OF	4046	0	0	0	0	0%					RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	0	0	0%			15 U		N	12 U	N	12 U
Trichloroethene	UG/KG	0	0%	700	0	0	0	0	0%	700	0	0	15 U		12 U		12 U
Vinyl chloride	UG/KG	0	0%	200	0	0	0	0	0%	200	0	0	15 U		12 U		12 U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	0	0	0%	3400	0	0	15 U		80 UJ		82 U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	0	0	0%	7900	0	0	15 U		80 UJ		82 U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	0	0	0%	1600	0	0	15 U		80 UJ		82 U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	0	0	0%	8500	0	0	15 U		80 UJ		82 U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	0	0	0%	100	0	0	15 U		200 U		200 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 U		80 U		82 U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	0	0	0%	400	0	0	15 U		80 U		82 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 U		80 UJ		82 UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	0	0	0%	200	0	0	15 UJ		200 UR		200 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 U		80 UJ		82 U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	0	0	0%	1000	0	0	15 U		80 UJ		82 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 U		80 UJ		82 U
2-Chlorophenol	UG/KG	0	0%	800	0	0	0	0	0%	800	0	0	15 U		80 U		82 U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	0	0	0%	36400	0	0	15 U		80 UJ		82 U
2-Methylphenol	UG/KG	0	0%	100	0	0	0	0	0%	100	0	0	15 U		80 U		82 U
2-Nitroaniline	UG/KG	0	0%	430	0	0	0	0	0%	430	0	0	15 U		200 UJ		200 U
2-Nitrophenol	UG/KG	0	0%	330	0	0	0	0	0%	330	0	0	15 U		80 U		82 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 UJ		80 UJ		82 U
3-Nitroaniline	UG/KG	0	0%	500	0	0	0	0	0%	500	0	0	15 U		200 UJ		200 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 U		200 UJ		200 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 U		80 UJ		82 U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	0	0	0%	240	0	0	15 U		80 U		82 U
4-Chloroaniline	UG/KG	0	0%	220	0	0	0	0	0%	220	0	0	15 U		80 U		82 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 U		80 UJ		82 U
4-Methylphenol	UG/KG	0	0%	900	0	0	0	0	0%	900	0	0	15 U		80 U		82 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	0	0	0%	0	0	0	15 UJ		200 UJ		200 UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	0	0	0%	100	0	0	15 UJ		200 U		200 U



TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		
LOCATION ID								SS12-17		SS12-183		
MATRIX								SOIL		SOIL		
SAMPLE ID								123212		123377		
SAMPLE DEPTH TO TOP OF SAMPLE								0		0		
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2		0.2		
SAMPLE DATE								03-Nov-98		17-Nov-98		
QC CODE								SA		SA		
STUDY ID								RI PHASE 1		RI PHASE 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
Naphthalene	UG/KG	0	0%	13000	0	0	15 U		80 UJ		82 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	15 U		80 UJ		82 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	15 UJ		200 U		200 UR	
Phenanthrene	UG/KG	8.5	33%	50000	0	5	15 U		80 U		5.1 J	
Phenol	UG/KG	0	0%	30	0	0	15 U		80 U		82 U	
Pyrene	UG/KG	22	53%	50000	0	8	15 U		80 U		21 J	
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	0	0%	2900	0	0	15 U		4 U		4.1 U	
4,4'-DDE	UG/KG	15	13%	2100	0	2	15 U		15		4.1 U	
4,4'-DDT	UG/KG	42	13%	2100	0	2	15 U		42		4.1 U	
Aldrin	UG/KG	0	0%	41	0	0	15 U		2.1 U		2.1 U	
Alpha-BHC	UG/KG	0	0%	110	0	0	15 U		2.1 U		2.1 U	
Alpha-Chlordane	UG/KG	0	0%		0	0	15 U		2.1 U		2.1 U	
Aroclor-1016	UG/KG	0	0%		0	0	15 U		40 U		41 U	
Aroclor-1221	UG/KG	0	0%		0	0	15 U		82 U		84 U	
Aroclor-1232	UG/KG	0	0%		0	0	15 U		40 U		41 U	
Aroclor-1242	UG/KG	0	0%		0	0	15 U		40 U		41 U	
Aroclor-1248	UG/KG	0	0%		0	0	15 U		40 U		41 U	
Aroclor-1254	UG/KG	670	20%	10000	0	3	15 U		670 J		41 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	15 U		40 U		41 U	
Beta-BHC	UG/KG	0	0%	200	0	0	15 U		2.1 U		2.1 U	
Delta-BHC	UG/KG	0	0%	300	0	0	15 U		2.1 U		2.1 U	
Dieldrin	UG/KG	14	13%	44	0	2	15 U		14 J		4.1 U	
Endosulfan I	UG/KG	1.8	7%	900	0	1	15 U		1.8 J		2.1 U	
Endosulfan II	UG/KG	2.7	7%	900	0	1	15 U		4 U		4.1 U	
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	15 U		4 U		4.1 U	
Endrin	UG/KG	4.2	13%	100	0	2	15 U		4.2 J		4.1 U	
Endrin aldehyde	UG/KG	5.6	13%		0	2	15 U		5.6 J		4.1 U	
Endrin ketone	UG/KG	0	0%		0	0	15 U		4 U		4.1 U	
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	15 U		2.1 U		2.1 U	
Gamma-Chlordane	UG/KG	11	20%	540	0	3	15 U		11 J		2.1 U	

TABLE G-6  
DISPOSAL PIT A/B METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY										SEAD-12 SS12-17 SOIL	SEAD-12 SS12-183 SOIL		
LOCATION ID										123212	123377		
MATRIX										0	0		
SAMPLE ID										0.2	0.2		
SAMPLE DEPTH TO TOP OF SAMPLE										03-Nov-98	17-Nov-98		
SAMPLE DEPTH TO BOTTOM OF SAMPLE										SA	SA		
SAMPLE DATE										STEP 1	STEP 1		
QC CODE										RI PHASE 1	RI PHASE 1		
STUDY ID										STEP 1	STEP 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1		STEP 1	STEP 1		
									N		N		
Heptachlor	UG/KG	0	0%	100	0	0	15	U		2.1	U	2.1	U
Heptachlor epoxide	UG/KG	4.6	13%	20	0	2	15	U		4.6	J	2.1	U
Methoxychlor	UG/KG	0	0%		0	0	15	U		21	U	21	U
Toxaphene	UG/KG	0	0%		0	0	15	U		210	U	210	U
<b>METALS</b>													
Aluminum	MG/KG	15800	100%	19520	0	15	15			10500		13900	J
Antimony	MG/KG	0.87	13%	6	0	2	15	UR		1.1	UJ	1.4	UR
Arsenic	MG/KG	4.9	100%	8.9	0	15	15			2.8		3.9	J
Barium	MG/KG	89.2	100%	300	0	15	15			70.8		86.2	J
Beryllium	MG/KG	0.59	100%	1.13	0	15	15	J		0.4	J	0.59	J
Cadmium	MG/KG	3.2	20%	2.46	1	3	15	U		0.05	U	0.4	U
Calcium	MG/KG	77600	100%	125300	0	15	15	J		23600		16200	
Chromium	MG/KG	23.3	100%	30	0	15	15			15.6		19.4	
Cobalt	MG/KG	17.5	100%	30	0	15	15	J		10.7		15	
Copper	MG/KG	32.5	100%	33	0	15	15			21.4		23.7	
Cyanide	MG/KG	1.6	13%	0.35	2	2	15	U		0.6	U	0.66	U
Iron	MG/KG	27100	100%	37410	0	15	15	J		19900	J	26000	J
Lead	MG/KG	22.2	100%	24.4	0	15	15			13.6		13.6	
Magnesium	MG/KG	21500	100%	21700	0	15	15			7070		5780	
Manganese	MG/KG	1420	100%	1100	1	15	15			607	J	663	
Mercury	MG/KG	0.11	20%	0.1	1	3	15	J		0.06	U	0.06	U
Nickel	MG/KG	39.9	93%	50	0	14	15			26.3		29.2	J
Potassium	MG/KG	1740	100%	2623	0	15	15			1260		1310	
Selenium	MG/KG	2.5	13%	2	2	2	15	U		0.82	U	0.52	UJ
Silver	MG/KG	0.2	7%	0.8	0	1	15	U		0.21	U	0.27	U
Sodium	MG/KG	207	27%	188	1	4	15	J		44.8	U	56.6	U
Thallium	MG/KG	1.8	33%	0.855	5	5	15	U		1.4	J	1.2	U
Vanadium	MG/KG	24	100%	150	0	15	15			18.1		21.2	
Zinc	MG/KG	83.7	100%	115	0	15	15	J		58	J	63.8	J



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TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY										SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOCATION ID										MW12-10	MW12-10	MW12-11	MW12-11	MW12-12	
MATRIX										SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID										123008	123009	123011	123012	123014	
SAMPLE DEPTH TO TOP OF SAMPLE										4	8	4	8	4	
SAMPLE DEPTH TO BOTTOM OF SAMPLE										5.7	9.8	5.6	10	6	
SAMPLE DATE										9/29/1998	9/29/1998	9/29/1998	9/29/1998	9/30/1998	
QC CODE										SA	SA	SA	SA	SA	
STUDY ID										RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	
				FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER							
PARAMETER		UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	N	N	N	N	N	N	
				DETECTION	4046	TAGM	DETECTS	ANALYSES	STEP 1	STEP 1	STEP 1	STEP 1	STEP 1	STEP 1	
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	0	29	11 U	12 U	11 U	11 U	11 U	12 U	
Trichloroethene	UG/KG	26	14%	700	0	0	4	29	11 U	12 U	11 U	11 U	11 U	12 U	
Vinyl chloride	UG/KG	0	0%	200	0	0	0	29	11 U	12 U	11 U	11 U	11 U	12 U	
<b>SEMI VOLATILE ORGANICS</b>															
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	0	28	73 UJ	74 UJ	72 UJ	70 UJ	70 UJ	81 UJ	
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	0	28	73 UJ	74 UJ	72 UJ	70 UJ	70 UJ	81 UJ	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	0	28	73 UJ	74 UJ	72 UJ	70 UJ	70 UJ	81 UJ	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	0	4							
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	0	28	180 U	180 U	180 U	170 U	170 U	200 U	
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
2,4-Dimethylphenol	UG/KG	25	4%	0	0	1	1	28	73 UJ	74 UJ	72 UJ	70 UJ	70 UJ	81 UJ	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	0	28	180 U	180 U	180 U	170 U	170 U	200 U	
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	0	28	73 UJ	74 UJ	72 UJ	70 UJ	70 UJ	81 UJ	
2-Chlorophenol	UG/KG	0	0%	800	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
2-Methylnaphthalene	UG/KG	56	11%	36400	0	3	3	28	73 UJ	74 UJ	72 UJ	70 UJ	70 UJ	81 UJ	
2-Methylphenol	UG/KG	0	0%	100	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	0	28	180 U	180 U	180 U	170 U	170 U	200 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
3-Nitroaniline	UG/KG	0	0%	500	0	0	0	28	180 U	180 U	180 UJ	170 UJ	170 UJ	200 UJ	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	0	28	180 U	180 U	180 U	170 U	170 U	200 U	
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	0	28	73 UJ	74 UJ	72 UJ	70 UJ	70 UJ	81 UJ	
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	0	28	73 U	74 U	72 U	70 U	70 U	81 U	
4-Methylphenol	UG/KG	140	4%	900	0	1	1	28	73 U	74 U	72 U	70 U	70 U	81 U	
4-Nitroaniline	UG/KG	0	0%	0	0	0	0	28	180 UJ	180 UJ	180 U	170 U	170 U	200 U	



TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12																			
LOCATION ID		MW12-10			MW12-10			MW12-11			MW12-11			MW12-12							
MATRIX		SOIL			SOIL			SOIL			SOIL			SOIL							
SAMPLE ID		123008			123009			123011			123012			123014							
SAMPLE DEPTH TO TOP OF SAMPLE		4			8			4			8			4							
SAMPLE DEPTH TO BOTTOM OF SAMPLE		5.7			9.8			5.6			10			6							
SAMPLE DATE		9/29/1998			9/29/1998			9/29/1998			9/29/1998			9/30/1998							
QC CODE		SA			SA			SA			SA			SA							
STUDY ID		FREQUENCY			NYSDEC			NUMBER			NUMBER			NUMBER							
		OF			TAGM			ABOVE			OF			OF							
		DETECTION			4046			TAGM			DETECTS			ANALYSES							
PARAMETER		MAXIMU	OF	TAGM	ABOVE	OF	OF	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1				
UNIT		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N				
4-Nitrophenol	UG/KG	0	0%	100	0	0	28	180	U	N	180	U	N	180	U	N	170	U	N	200	U
Acenaphthene	UG/KG	23	4%	50000	0	1	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Acenaphthylene	UG/KG	33	4%	41000	0	1	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Anthracene	UG/KG	96	11%	50000	0	3	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Benzo(a)anthracene	UG/KG	180	14%	224	0	4	28	73	UJ	N	74	U	N	72	U	N	70	U	N	81	U
Benzo(a)pyrene	UG/KG	200	14%	61	1	4	28	73	U	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Benzo(b)fluoranthene	UG/KG	190	14%	1100	0	4	28	73	UJ	N	74	U	N	72	U	N	70	U	N	81	U
Benzo(ghi)perylene	UG/KG	120	7%	50000	0	2	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Benzo(k)fluoranthene	UG/KG	160	11%	1100	0	3	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	24	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Bis(2-Ethylhexyl)phthalate	UG/KG	930	25%	50000	0	7	28	73	U	N	74	U	N	72	U	N	180	U	N	81	U
Butylbenzylphthalate	UG/KG	5.1	4%	50000	0	1	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Carbazole	UG/KG	0	0%	0	0	0	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Chrysene	UG/KG	240	14%	400	0	4	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Di-n-butylphthalate	UG/KG	1700	11%	8100	0	3	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Di-n-octylphthalate	UG/KG	54	43%	50000	0	12	28	73	U	N	74	U	N	72	U	N	13	J	N	81	U
Dibenz(a,h)anthracene	UG/KG	57	7%	14	1	2	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Diethyl phthalate	UG/KG	0	0%	7100	0	0	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Dimethylphthalate	UG/KG	0	0%	2000	0	0	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Fluoranthene	UG/KG	420	21%	50000	0	6	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Fluorene	UG/KG	52	7%	50000	0	2	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Hexachloroethane	UG/KG	0	0%	0	0	0	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
Indeno(1,2,3-cd)pyrene	UG/KG	120	7%	3200	0	2	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U
Isophorone	UG/KG	0	0%	4400	0	0	28	73	UJ	N	74	UJ	N	72	UJ	N	70	UJ	N	81	UJ
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	28	73	U	N	74	U	N	72	U	N	70	U	N	81	U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-10 SOIL 123008		SEAD-12 MW12-10 SOIL 123009		SEAD-12 MW12-11 SOIL 123011		SEAD-12 MW12-11 SOIL 123012		SEAD-12 MW12-12 SOIL 123014	
								RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	28	73 U		74 U		72 U		70 U		81 U	
Naphthalene	UG/KG	600	7%	13000	0	2	28	73 UJ		74 UJ		72 UJ		70 UJ		81 UJ	
Nitrobenzene	UG/KG	0	0%	200	0	0	28	73 UJ		74 UJ		72 UJ		70 UJ		81 UJ	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	28	180 U		180 U		180 UR		170 UR		200 UR	
Phenanthrene	UG/KG	340	18%	50000	0	5	28	73 U		74 U		72 U		4.6 J		81 U	
Phenol	UG/KG	300	7%	30	2	2	28	73 U		74 U		72 U		70 U		81 U	
Pyrene	UG/KG	380	18%	50000	0	5	28	73 U		74 U		72 U		70 U		81 U	
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	0	0%	2900	0	0	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
4,4'-DDE	UG/KG	42	11%	2100	0	3	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
4,4'-DDT	UG/KG	2.1	4%	2100	0	1	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
Aldrin	UG/KG	0.79	4%	41	0	1	28	1.9 U		1.9 U		1.9 U		1.8 U		2.1 U	
Alpha-BHC	UG/KG	24	7%	110	0	2	28	1.9 U		1.9 U		1.9 U		1.8 U		2.1 U	
Alpha-Chlordane	UG/KG	4.6	7%		0	2	28	1.9 U		1.9 U		1.9 U		1.8 U		2.1 U	
Aroclor-1016	UG/KG	0	0%		0	0	28	37 U		37 U		36 U		35 U		41 U	
Aroclor-1221	UG/KG	0	0%		0	0	28	74 U		75 U		73 U		71 U		83 U	
Aroclor-1232	UG/KG	0	0%		0	0	28	37 U		37 U		36 U		35 U		41 U	
Aroclor-1242	UG/KG	0	0%		0	0	28	37 U		37 U		36 U		35 U		41 U	
Aroclor-1248	UG/KG	0	0%		0	0	28	37 U		37 U		36 U		35 U		41 U	
Aroclor-1254	UG/KG	3000	21%	10000	0	6	28	37 U		37 U		36 U		35 U		41 U	
Aroclor-1260	UG/KG	150	7%	10000	0	2	28	37 U		37 U		36 U		35 U		41 U	
Beta-BHC	UG/KG	2.2	4%	200	0	1	28	1.9 U		1.9 U		1.9 U		1.8 U		2.1 U	
Delta-BHC	UG/KG	0	0%	300	0	0	28	1.9 U		1.9 U		1.9 U		1.8 U		2.1 U	
Dieldrin	UG/KG	40	7%	44	0	2	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
Endosulfan I	UG/KG	0	0%	900	0	0	28	1.9 U		1.9 U		1.9 U		1.8 U		2.1 U	
Endosulfan II	UG/KG	19	7%	900	0	2	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
Endrin	UG/KG	20	14%	100	0	4	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
Endrin aldehyde	UG/KG	0	0%		0	0	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
Endrin ketone	UG/KG	0	0%		0	0	28	3.7 U		3.7 U		3.6 U		3.5 U		4.1 U	
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	28	1.9 U		1.9 U		1.9 U		1.8 U		2.1 U	

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID						SEAD-12 MW12-10 SOIL	SEAD-12 MW12-10 SOIL	SEAD-12 MW12-11 SOIL	SEAD-12 MW12-11 SOIL	SEAD-12 MW12-12 SOIL	
MATRIX	SAMPLE ID						123008	123009	123011	123012	123014	
SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE						4	8	4	8	4	
SAMPLE DATE	QC CODE						5.7	9.8	5.6	10	6	
STUDY ID							9/29/1998	9/29/1998	9/29/1998	9/29/1998	9/30/1998	
							SA	SA	SA	SA	SA	
							RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	
							STEP 1	STEP 1	STEP 1	STEP 1	STEP 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N	N	N	N
Gamma-Chlordane	UG/KG	58	11%	540	0	3	28	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U
Heptachlor	UG/KG	13	7%	100	0	2	28	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U
Heptachlor epoxide	UG/KG	22	7%	20	1	2	28	1.9 U	1.9 U	1.9 U	1.8 U	2.1 U
Methoxychlor	UG/KG	0	0%		0	0	28	19 U	19 U	19 U	18 U	21 U
Toxaphene	UG/KG	0	0%		0	0	28	190 U	190 U	190 U	180 U	210 U
<b>METALS</b>												
Aluminum	MG/KG	17100	100%	19520	0	28	28	8370	7210	10900	4460	14200
Antimony	MG/KG	7.2	25%	6	1	7	28	1.3 UR	1.2 UR	1 UR	0.9 UR	1.5 UR
Arsenic	MG/KG	5.9	100%	8.9	0	28	28	3.5	3.4	2.9	0.88 J	5.9
Barium	MG/KG	125	100%	300	0	28	28	63.9	68.7	55	17 J	112
Beryllium	MG/KG	0.74	100%	1.13	0	28	28	0.31 J	0.27 J	0.44 J	0.17 J	0.51 J
Cadmium	MG/KG	94.3	36%	2.46	7	10	28	0.06 U	0.06 U	0.05 U	0.04 U	0.07 U
Calcium	MG/KG	142000	100%	125300	1	28	28	83200	73900	46100	6980	54600
Chromium	MG/KG	83.3	100%	30	4	28	28	13.9	12.4	20.4	8.5	21.1
Cobalt	MG/KG	26.5	100%	30	0	28	28	7.7 J	7 J	12.9	9.1	14.3
Copper	MG/KG	215	100%	33	5	28	28	20.3	20.5	33.7	11.5	28.4
Cyanide	MG/KG	1.5	7%	0.35	2	2	28	0.55 U	0.6 U	0.53 U	0.53 U	0.63 U
Iron	MG/KG	35700	100%	37410	0	28	28	19100 J	18100 J	27000 J	11000 J	27800 J
Lead	MG/KG	366	100%	24.4	3	28	28	7.3	6.6	16	9	11.9
Magnesium	MG/KG	34300	100%	21700	1	28	28	13200	17200	9010	2090	13200
Manganese	MG/KG	631	100%	1100	0	28	28	408	364	383	169	631
Mercury	MG/KG	0.06	18%	0.1	0	5	28	0.05 UJ	0.06 UJ	0.05 UJ	0.06 J	0.06 UJ
Nickel	MG/KG	201	93%	50	2	26	28	23.2	20.3	44	20	34.1 J
Potassium	MG/KG	2090	100%	2623	0	28	28	1270	1250	1240	397 J	1980
Selenium	MG/KG	1.2	18%	2	0	5	28	0.95 U	0.92 U	0.76 U	0.68 U	1.1 U
Silver	MG/KG	11.9	14%	0.8	2	4	28	0.25 U	0.24 U	0.2 U	0.18 U	0.29 U
Sodium	MG/KG	134	57%	188	0	16	28	96.5 J	84.9 J	81.8 J	37.1 U	61.3 U
Thallium	MG/KG	1.7	25%	0.855	5	7	28	1.1 U	1 U	0.86 U	0.77 U	1.3 U
Vanadium	MG/KG	25.6	100%	150	0	28	28	14.7	13.1	16.5	5.8 J	25.6
Zinc	MG/KG	424	100%	115	3	28	28	50.3	51.6	94.9	41.5	66.8

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-12 SOIL	SEAD-12 MW12-13 SOIL	SEAD-12 MW12-13 SOIL	SEAD-12 MW12-8 SOIL	SEAD-12 MW12-8 SOIL		
									123015	123017	123018	123184	123185		
									9	4	8	4	8		
									11	6	9.6	6	10		
									9/30/1998	10/1/1998	10/1/1998	10/28/1998	10/28/1998		
									SA	SA	SA	SA	SA		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1
VOLATILE ORGANICS															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	29	12	U	11	U	12	U	11	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	29	12	U	11	U	12	U	11	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	29	12	U	11	U	12	U	11	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	29	12	U	11	U	12	U	11	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	29	12	U	11	U	12	U	11	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Acetone	UG/KG	34	41%	200	0	12	29	12	U	11	UJ	12	UJ	11	U
Benzene	UG/KG	6	3%	60	0	1	29	12	U	11	U	12	U	11	U
Bromodichloromethane	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Bromoform	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	29	12	U	11	U	12	U	11	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	29	12	U	11	U	12	U	11	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	29	12	U	11	U	12	U	11	U
Chlorodibromomethane	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Chloroethane	UG/KG	0	0%	1900	0	0	29	12	U	11	U	12	U	11	U
Chloroform	UG/KG	0	0%	300	0	0	29	12	U	11	U	12	U	11	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Ethyl benzene	UG/KG	66	10%	5500	0	3	29	12	U	11	U	12	U	11	U
Methyl bromide	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Methyl butyl ketone	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Methyl chloride	UG/KG	0	0%		0	0	29	12	U	11	U	12	U	11	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	29	12	U	11	U	12	U	11	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	29	12	U	11	U	12	U	11	U
Methylene chloride	UG/KG	3	7%	100	0	2	29	12	U	11	U	12	U	11	U
Styrene	UG/KG	33	3%		0	1	29	12	U	11	U	12	U	11	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	29	12	U	11	U	12	U	11	U
Toluene	UG/KG	15	34%	1500	0	10	29	12	U	8	J	14		11	U
Total Xylenes	UG/KG	520	10%	1200	0	3	29	12	U	11	U	12	U	11	U



TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-12 SOIL	SEAD-12 MW12-13 SOIL	SEAD-12 MW12-13 SOIL	SEAD-12 MW12-8 SOIL	SEAD-12 MW12-8 SOIL		
														123015	123017	123018	123184	123185		
														9	4	8	4	8		
														11	6	9.6	6	10		
						9/30/1998								10/1/1998	10/1/1998	10/1/1998	10/28/1998	10/28/1998		
						SA								SA	SA	SA	SA	SA		
														RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1		
														STEP 1	STEP 1	STEP 1	STEP 1	STEP 1		
														N	N	N	N	N		
PARAMETER	UNIT	MAXIMU																		
4-Nitrophenol	UG/KG	0	0%	100	0	0	28	200	U				180	UJ		180	UJ		180	U
Acenaphthene	UG/KG	23	4%	50000	0	1	28	81	UJ				73	U		76	U		73	U
Acenaphthylene	UG/KG	33	4%	41000	0	1	28	81	UJ				73	UJ		76	UJ		73	U
Anthracene	UG/KG	96	11%	50000	0	3	28	81	UJ				73	U		76	U		73	U
Benzo(a)anthracene	UG/KG	180	14%	224	0	4	28	81	U				73	U		76	U		73	U
Benzo(a)pyrene	UG/KG	200	14%	61	1	4	28	81	UJ				73	U		76	U		73	U
Benzo(b)fluoranthene	UG/KG	190	14%	1100	0	4	28	81	U				73	U		76	U		73	U
Benzo(ghi)perylene	UG/KG	120	7%	50000	0	2	28	81	U				73	U		76	U		73	U
Benzo(k)fluoranthene	UG/KG	160	11%	1100	0	3	28	81	U				73	U		76	U		73	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	28	81	U				73	U		76	U		73	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	28	81	U				73	U		76	U		73	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	24	81	U				73	U		76	U		73	U
Bis(2-Ethylhexyl)phthalate	UG/KG	930	25%	50000	0	7	28	81	U				83			11	J		73	U
Butylbenzylphthalate	UG/KG	5.1	4%	50000	0	1	28	81	U				73	U		76	U		73	U
Carbazole	UG/KG	0	0%		0	0	28	81	UJ				73	UJ		76	UJ		73	U
Chrysene	UG/KG	240	14%	400	0	4	28	81	UJ				73	U		76	U		73	U
Di-n-butylphthalate	UG/KG	1700	11%	8100	0	3	28	81	UJ				73	UJ		4	J		73	U
Di-n-octylphthalate	UG/KG	54	43%	50000	0	12	28	4.9	J				12	J		6.9	J		19	J
Dibenz(a,h)anthracene	UG/KG	57	7%	14	1	2	28	81	U				73	U		76	U		73	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	28	81	UJ				73	U		76	U		73	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	28	81	UJ				73	UJ		76	UJ		73	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	28	81	UJ				73	U		76	U		73	U
Fluoranthene	UG/KG	420	21%	50000	0	6	28	81	UJ				73	U		76	U		73	U
Fluorene	UG/KG	52	7%	50000	0	2	28	81	U				73	U		76	U		73	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	28	81	U				73	U		76	U		73	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	28	81	UJ				73	U		76	U		73	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	28	81	U				73	U		76	U		73	U
Hexachloroethane	UG/KG	0	0%		0	0	28	81	UJ				73	U		76	U		73	U
Indeno(1,2,3-cd)pyrene	UG/KG	120	7%	3200	0	2	28	81	U				73	U		76	U		73	U
Isophorone	UG/KG	0	0%	4400	0	0	28	81	UJ				73	U		76	U		73	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	28	81	U				73	U		76	U		73	U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-12 SOIL	SEAD-12 MW12-13 SOIL	SEAD-12 MW12-13 SOIL	SEAD-12 MW12-8 SOIL	SEAD-12 MW12-8 SOIL		
									123015	123017	123018	123184	123185		
									9	4	8	4	8		
									11	6	9.6	6	10		
									9/30/1998	10/1/1998	10/1/1998	10/28/1998	10/28/1998		
									SA	SA	SA	SA	SA		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	28	81	U	73	U	76	U	73	U
Naphthalene	UG/KG	600	7%	13000	0	2	28	81	UJ	73	U	76	U	73	U
Nitrobenzene	UG/KG	0	0%	200	0	0	28	81	UJ	73	U	76	U	73	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	28	200	UR	180	U	180	U	180	U
Phenanthrene	UG/KG	340	18%	50000	0	5	28	81	U	73	U	76	U	73	U
Phenol	UG/KG	300	7%	30	2	2	28	81	U	73	U	76	U	73	U
Pyrene	UG/KG	380	18%	50000	0	5	28	81	U	73	U	76	U	73	U
<b>PESTICIDES/PCBS</b>															
4,4'-DDD	UG/KG	0	0%	2900	0	0	28	4.1	U	3.7	U	3.8	U	3.7	U
4,4'-DDE	UG/KG	42	11%	2100	0	3	28	4.1	U	3.7	U	3.8	U	3.7	U
4,4'-DDT	UG/KG	2.1	4%	2100	0	1	28	4.1	U	3.7	U	3.8	U	3.7	U
Aldrin	UG/KG	0.79	4%	41	0	1	28	2.1	U	1.9	U	2	U	1.9	U
Alpha-BHC	UG/KG	24	7%	110	0	2	28	2.1	U	1.9	U	2	U	1.9	U
Alpha-Chlordane	UG/KG	4.6	7%		0	2	28	2.1	U	1.9	U	2	U	1.9	U
Aroclor-1016	UG/KG	0	0%		0	0	28	41	U	37	U	38	U	37	U
Aroclor-1221	UG/KG	0	0%		0	0	28	83	U	74	U	77	U	74	U
Aroclor-1232	UG/KG	0	0%		0	0	28	41	U	37	U	38	U	37	U
Aroclor-1242	UG/KG	0	0%		0	0	28	41	U	37	U	38	U	37	U
Aroclor-1248	UG/KG	0	0%		0	0	28	41	U	37	U	38	U	37	U
Aroclor-1254	UG/KG	3000	21%	10000	0	6	28	41	U	37	U	38	U	37	U
Aroclor-1260	UG/KG	150	7%	10000	0	2	28	41	U	37	U	38	U	37	U
Beta-BHC	UG/KG	2.2	4%	200	0	1	28	2.1	U	1.9	U	2	U	1.9	U
Delta-BHC	UG/KG	0	0%	300	0	0	28	2.1	U	1.9	U	2	U	1.9	U
Dieldrin	UG/KG	40	7%	44	0	2	28	4.1	U	3.7	U	3.8	U	3.7	U
Endosulfan I	UG/KG	0	0%	900	0	0	28	2.1	U	1.9	U	2	U	1.9	U
Endosulfan II	UG/KG	19	7%	900	0	2	28	4.1	U	3.7	U	3.8	U	3.7	U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	28	4.1	U	3.7	U	3.8	U	3.7	U
Endrin	UG/KG	20	14%	100	0	4	28	4.1	U	3.7	U	3.8	U	3.7	U
Endrin aldehyde	UG/KG	0	0%		0	0	28	4.1	U	3.7	U	3.8	U	3.7	U
Endrin ketone	UG/KG	0	0%		0	0	28	4.1	U	3.7	U	3.8	U	3.7	U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	28	2.1	U	1.9	U	2	U	1.9	U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID								SEAD-12 MW12-12 SOIL 123015 9 11 9/30/1998 SA	SEAD-12 MW12-13 SOIL 123017 4 6 10/1/1998 SA	SEAD-12 MW12-13 SOIL 123018 8 9.6 10/1/1998 SA	SEAD-12 MW12-8 SOIL 123184 4 6 10/28/1998 SA	SEAD-12 MW12-8 SOIL 123185 8 10 10/28/1998 SA
			FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	MAXIMUM					N	N	N	N	N	N
Gamma-Chlordane	UG/KG	58	11%	540	0	3	28	2.1 U	1.9 U	2 U	1.9 U	1.9 U
Heptachlor	UG/KG	13	7%	100	0	2	28	2.1 U	1.9 U	2 U	1.9 U	1.9 U
Heptachlor epoxide	UG/KG	22	7%	20	1	2	28	2.1 U	1.9 U	2 U	1.9 U	1.9 U
Methoxychlor	UG/KG	0	0%		0	0	28	21 U	19 U	20 U	19 U	19 U
Toxaphene	UG/KG	0	0%		0	0	28	210 U	190 U	200 U	190 U	190 U
<b>METALS</b>												
Aluminum	MG/KG	17100	100%	19520	0	28	28	11200	4820	11200	7440	7550
Antimony	MG/KG	7.2	25%	6	1	7	28	1.3 UR	1.2 UR	1.2 UR	1.2 UR	1.2 UR
Arsenic	MG/KG	5.9	100%	8.9	0	28	28	5.8	2.5	3.9	3.1	3.3
Barium	MG/KG	125	100%	300	0	28	28	100	51.3	63.4	73.2	65.8
Beryllium	MG/KG	0.74	100%	1.13	0	28	28	0.38 J	0.14 J	0.46 J	0.45 J	0.43 J
Cadmium	MG/KG	94.3	36%	2.46	7	10	28	0.06 U	0.06 U	0.06 U	0.36 U	0.35 U
Calcium	MG/KG	142000	100%	125300	1	28	28	42900	75600 J	43100 J	87500	64400
Chromium	MG/KG	83.3	100%	30	4	28	28	16.2	8.2	20.5	12 J	13.3 J
Cobalt	MG/KG	26.5	100%	30	0	28	28	12.9	5.1 J	15.2	8.1 J	12.1
Copper	MG/KG	215	100%	33	5	28	28	23.9	13.3	31.5	20	21.9
Cyanide	MG/KG	1.5	7%	0.35	2	2	28	0.64 U	0.57 UJ	0.64 UJ		0.72
Iron	MG/KG	35700	100%	37410	0	28	28	22800 J	10100	25500	16500	17300
Lead	MG/KG	366	100%	24.4	3	28	28	9.1	3.4 J	11.5 J	5.9 J	7.6 J
Magnesium	MG/KG	34300	100%	21700	1	28	28	13700	34300	8350	16500	13400
Manganese	MG/KG	631	100%	1100	0	28	28	540	339	393	406	416
Mercury	MG/KG	0.06	18%	0.1	0	5	28	0.06 UJ	0.05 U	0.06 U	0.05 U	0.05 U
Nickel	MG/KG	201	93%	50	2	26	28	25.8 J	12.1	44.2	22.9 UJ	27.6 UJ
Potassium	MG/KG	2090	100%	2623	0	28	28	1770	760 J	1340	1300	1260
Selenium	MG/KG	1.2	18%	2	0	5	28	0.97 U	0.94 UJ	0.92 UJ	0.46 U	0.57 J
Silver	MG/KG	11.9	14%	0.8	2	4	28	0.25 U	0.24 U	0.24 U	0.24 U	0.23 U
Sodium	MG/KG	134	57%	188	0	16	28	53 U	51.4 U	84 J	99 J	49.2 U
Thallium	MG/KG	1.7	25%	0.855	5	7	28	1.1 U	1.4 U	1.2 U		1.5 J
Vanadium	MG/KG	25.6	100%	150	0	28	28	21.3	10.5	17	13.9	13.5
Zinc	MG/KG	424	100%	115	3	28	28	52.4	31.6	105	45.4 J	57.2 J



TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE 1 STEP 1 N	SEAD-12 SB12-2 SOIL 12532	SEAD-12 SB12-2 SOIL 123113	SEAD-12 SB12-2 SOIL 12533	SEAD-12 SB12-2 SOIL 123114
PARAMETER	UNIT	MAXIMU																
<b>VOLATILE ORGANICS</b>																		
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	29	12 U							11 U		11 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	29	12 U							11 U		11 U	11 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	29	12 U							11 U		11 U	11 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	29	12 U							11 U		11 U	11 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	29	12 U							11 U		11 U	11 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Acetone	UG/KG	34	41%	200	0	12	29	5 J							11 U		17 J	11 U
Benzene	UG/KG	6	3%	60	0	1	29	12 U							11 U		11 U	11 U
Bromodichloromethane	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Bromoform	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	29	12 U							11 U		11 U	11 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	29	12 U							11 U		11 U	11 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	29	12 U							11 U		11 U	11 U
Chlorodibromomethane	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Chloroethane	UG/KG	0	0%	1900	0	0	29	12 U							11 U		11 U	11 U
Chloroform	UG/KG	0	0%	300	0	0	29	12 U							11 U		11 U	11 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Ethyl benzene	UG/KG	66	10%	5500	0	3	29	12 U							11 U		11 U	11 U
Methyl bromide	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Methyl butyl ketone	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Methyl chloride	UG/KG	0	0%		0	0	29	12 U							11 U		11 U	11 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	29	12 U							11 U		11 U	11 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	29	12 U							11 U		11 U	11 U
Methylene chloride	UG/KG	3	7%	100	0	2	29	12 U							11 U		1 J	11 U
Styrene	UG/KG	33	3%		0	1	29	12 U							11 U		11 U	11 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	29	12 U							11 U		11 U	11 U
Toluene	UG/KG	15	34%	1500	0	10	29	15							11 U		10 J	11 U
Total Xylenes	UG/KG	520	10%	1200	0	3	29	12 U							11 U		11 U	11 U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID									SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL
SAMPLE DEPTH TO TOP OF SAMPLE									12532	123113	12533	123114
SAMPLE DEPTH TO BOTTOM OF SAMPLE									0.2	6	8	10
SAMPLE DATE									2	8	10	12
QC CODE									11/10/1997 10:55	10/14/1998	11/10/1997 12:15	10/14/1998
STUDY ID									SA	SA	SA	SA
			FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES		RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	MAXIMU						N		N	N	N
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	29		12 U	11 U	11 U	11 U
Trichloroethene	UG/KG	26	14%	700	0	4	29		12 U	11 U	11 U	11 U
Vinyl chloride	UG/KG	0	0%	200	0	0	29		12 U	11 U	11 U	11 U
<b>SEMI VOLATILE ORGANICS</b>												
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	28		77 U	72 U	74 U	73 U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	28		77 U	72 U	74 U	73 U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	28		77 U	72 U	74 U	73 U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	28		77 U	72 U	74 U	73 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%		0	0	4					
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	28		190 U	180 UJ	180 U	180 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	28		77 U	72 UJ	74 U	73 U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	28		77 U	72 UJ	74 U	73 U
2,4-Dimethylphenol	UG/KG	25	4%		0	1	28		77 U	72 UJ	74 U	73 UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	28		190 UJ	180 UJ	180 UJ	180 UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	28		77 U	72 U	74 U	73 U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	28		77 U	72 U	74 U	73 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	28		77 U	72 U	74 U	73 U
2-Chlorophenol	UG/KG	0	0%	800	0	0	28		77 U	72 UJ	74 U	73 U
2-Methylnaphthalene	UG/KG	56	11%	36400	0	3	28		77 U	72 U	74 U	73 U
2-Methylphenol	UG/KG	0	0%	100	0	0	28		77 U	72 UJ	74 U	73 U
2-Nitroaniline	UG/KG	0	0%	430	0	0	28		190 U	180 U	180 U	180 U
2-Nitrophenol	UG/KG	0	0%	330	0	0	28		77 U	72 UJ	74 U	73 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	28		77 UJ	72 U	74 UJ	73 U
3-Nitroaniline	UG/KG	0	0%	500	0	0	28		190 UJ	180 U	180 UJ	180 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	28		190 U	180 UJ	180 U	180 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	28		77 U	72 U	74 U	73 U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	28		77 U	72 UJ	74 U	73 U
4-Chloroaniline	UG/KG	0	0%	220	0	0	28		77 UJ	72 UJ	74 UJ	73 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	28		77 U	72 U	74 U	73 U
4-Methylphenol	UG/KG	140	4%	900	0	1	28		77 U	72 UJ	74 U	73 U
4-Nitroaniline	UG/KG	0	0%		0	0	28		190 UJ	180 U	180 UJ	180 UJ

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12											
LOCATION ID		SB12-2											
MATRIX		SOIL											
SAMPLE ID		12532		123113		12533		123114					
SAMPLE DEPTH TO TOP OF SAMPLE		0.2		6		8		10		12			
SAMPLE DEPTH TO BOTTOM OF SAMPLE		2		8		10		12		12			
SAMPLE DATE		11/10/1997 10:55		10/14/1998		11/10/1997 12:15		10/14/1998					
QC CODE		SA		SA		SA		SA					
STUDY ID		FREQUENCY OF DETECTION		NYSDEC TAGM 4046		NUMBER ABOVE TAGM		NUMBER OF DETECTS		NUMBER OF ANALYSES			
PARAMETER		MAXIMU		TAGM		TAGM		N		N			
UNIT		DETECTION		4046		TAGM		N		N			
4-Nitrophenol	UG/KG	0	0%	100	0	0	0	28	190	U	180	UJ	
Acenaphthene	UG/KG	23	4%	50000	0	1	28	77	U	72	U	74	U
Acenaphthylene	UG/KG	33	4%	41000	0	1	28	77	U	72	U	74	U
Anthracene	UG/KG	96	11%	50000	0	3	28	77	U	72	U	74	U
Benzo(a)anthracene	UG/KG	180	14%	224	0	4	28	77	U	72	U	74	U
Benzo(a)pyrene	UG/KG	200	14%	61	1	4	28	77	U	72	U	74	U
Benzo(b)fluoranthene	UG/KG	190	14%	1100	0	4	28	77	U	72	U	74	U
Benzo(ghi)perylene	UG/KG	120	7%	50000	0	2	28	77	U	72	UJ	74	U
Benzo(k)fluoranthene	UG/KG	160	11%	1100	0	3	28	77	U	72	U	74	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	28	77	U	72	U	74	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	28	77	U	72	U	74	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	24	77	U	72	U	74	U
Bis(2-Ethylhexyl)phthalate	UG/KG	930	25%	50000	0	7	28	77	U	72	UJ	74	U
Butylbenzylphthalate	UG/KG	5.1	4%	50000	0	1	28	77	U	72	UJ	74	U
Carbazole	UG/KG	0	0%		0	0	28	77	U	72	UJ	74	U
Chrysene	UG/KG	240	14%	400	0	4	28	77	U	72	U	74	U
Di-n-butylphthalate	UG/KG	1700	11%	8100	0	3	28	77	U	72	UJ	74	U
Di-n-octylphthalate	UG/KG	54	43%	50000	0	12	28	77	U	6.2	J	74	U
Dibenz(a,h)anthracene	UG/KG	57	7%	14	1	2	28	77	U	72	UJ	74	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	28	77	U	72	U	74	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	28	77	U	72	U	74	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	28	77	U	72	U	74	U
Fluoranthene	UG/KG	420	21%	50000	0	6	28	4	J	72	U	74	U
Fluorene	UG/KG	52	7%	50000	0	2	28	77	U	72	U	74	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	28	77	U	72	U	74	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	28	77	U	72	UJ	74	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	28	77	U	72	U	74	U
Hexachloroethane	UG/KG	0	0%		0	0	28	77	U	72	U	74	U
Indeno(1,2,3-cd)pyrene	UG/KG	120	7%	3200	0	2	28	77	U	72	UJ	74	U
Isophorone	UG/KG	0	0%	4400	0	0	28	77	U	72	U	74	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	28	77	U	72	U	74	U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL
														12532	123113	12533	123114
														0.2	6	8	10
														2	8	10	12
														11/10/1997 10:55	10/14/1998	11/10/1997 12:15	10/14/1998
														SA	SA	SA	SA
														RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
														N	N	N	N
PARAMETER	UNIT	MAXIMU															
N-Nitrosodipropylamine	UG/KG	0	0%			0	0	28						77 U	72 U	74 U	73 U
Naphthalene	UG/KG	600	7%	13000		0	2	28						77 U	72 U	74 U	73 U
Nitrobenzene	UG/KG	0	0%	200		0	0	28						77 U	72 U	74 U	73 U
Pentachlorophenol	UG/KG	0	0%	1000		0	0	28						190 U	180 UJ	180 U	180 UJ
Phenanthrene	UG/KG	340	18%	50000		0	5	28						77 U	72 U	74 U	73 U
Phenol	UG/KG	300	7%	30		2	2	28						77 U	72 UJ	74 U	73 U
Pyrene	UG/KG	380	18%	50000		0	5	28						77 U	72 U	74 U	73 U
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	0	0%	2900		0	0	28						3.8 U	3.6 U	3.7 U	3.7 U
4,4'-DDE	UG/KG	42	11%	2100		0	3	28						3.8 U	3.6 U	3.7 U	3.7 U
4,4'-DDT	UG/KG	2.1	4%	2100		0	1	28						3.8 U	3.6 U	3.7 U	3.7 U
Aldrin	UG/KG	0.79	4%	41		0	1	28						2 U	1.9 U	1.9 U	1.9 U
Alpha-BHC	UG/KG	24	7%	110		0	2	28						2 U	1.9 U	1.9 U	1.9 U
Alpha-Chlordane	UG/KG	4.6	7%			0	2	28						2 U	1.9 U	1.9 U	1.9 U
Aroclor-1016	UG/KG	0	0%			0	0	28						38 U	36 U	37 U	37 U
Aroclor-1221	UG/KG	0	0%			0	0	28						78 U	74 U	75 U	74 U
Aroclor-1232	UG/KG	0	0%			0	0	28						38 U	36 U	37 U	37 U
Aroclor-1242	UG/KG	0	0%			0	0	28						38 U	36 U	37 U	37 U
Aroclor-1248	UG/KG	0	0%			0	0	28						38 U	36 U	37 U	37 U
Aroclor-1254	UG/KG	3000	21%	10000		0	6	28						38 U	36 U	37 U	37 U
Aroclor-1260	UG/KG	150	7%	10000		0	2	28						38 U	36 U	37 U	37 U
Beta-BHC	UG/KG	2.2	4%	200		0	1	28						2 U	1.9 U	1.9 U	1.9 U
Delta-BHC	UG/KG	0	0%	300		0	0	28						2 U	1.9 U	1.9 U	1.9 U
Dieldrin	UG/KG	40	7%	44		0	2	28						3.8 U	3.6 U	3.7 U	3.7 U
Endosulfan I	UG/KG	0	0%	900		0	0	28						2 U	1.9 U	1.9 U	1.9 U
Endosulfan II	UG/KG	19	7%	900		0	2	28						3.8 U	3.6 U	3.7 U	3.7 U
Endosulfan sulfate	UG/KG	0	0%	1000		0	0	28						3.8 U	3.6 U	3.7 U	3.7 U
Endrin	UG/KG	20	14%	100		0	4	28						3.8 U	3.6 U	3.7 U	3.7 U
Endrin aldehyde	UG/KG	0	0%			0	0	28						3.8 U	3.6 U	3.7 U	3.7 U
Endrin ketone	UG/KG	0	0%			0	0	28						3.8 U	3.6 U	3.7 U	3.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	60		0	0	28						2 U	1.9 U	1.9 U	1.9 U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL		
									12532	123113	12533	123114		
									0.2	6	8	10		
									2	8	10	12		
									11/10/1997 10:55	10/14/1998	11/10/1997 12:15	10/14/1998		
									SA	SA	SA	SA		
									RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N	N	N	N		
Gamma-Chlordane	UG/KG	58	11%	540	0	3	28	2	U	1.9	U	1.9	U	
Heptachlor	UG/KG	13	7%	100	0	2	28	2	U	1.9	U	1.9	U	
Heptachlor epoxide	UG/KG	22	7%	20	1	2	28	2	U	1.9	U	1.9	U	
Methoxychlor	UG/KG	0	0%		0	0	28	20	U	19	U	19	U	
Toxaphene	UG/KG	0	0%		0	0	28	200	U	190	U	190	U	
<b>METALS</b>														
Aluminum	MG/KG	17100	100%	19520	0	28	28	13200		7890	J	9570	7010	J
Antimony	MG/KG	7.2	25%	6	1	7	28	0.73	J	1.1	UR	0.74	1.2	UR
Arsenic	MG/KG	5.9	100%	8.9	0	28	28	4.3		3.8	J	4	3.7	J
Barium	MG/KG	125	100%	300	0	28	28	125		63.3		90.5	76.4	
Beryllium	MG/KG	0.74	100%	1.13	0	28	28	0.39		0.3	J	0.36	0.24	J
Cadmium	MG/KG	94.3	36%	2.46	7	10	28	3.9		0.05	U	0.06	0.06	U
Calcium	MG/KG	142000	100%	125300	1	28	28	46100		97000	J	90900	82100	J
Chromium	MG/KG	83.3	100%	30	4	28	28	53.5		14.2		14.9	11.8	
Cobalt	MG/KG	26.5	100%	30	0	28	28	9.9		7.6	J	7.5	7.9	J
Copper	MG/KG	215	100%	33	5	28	28	24.9		22.5		19.6	24.6	
Cyanide	MG/KG	1.5	7%	0.35	2	2	28	0.68	U	0.58	U	0.64	0.59	U
Iron	MG/KG	35700	100%	37410	0	28	28	22300		16300		18400	16500	
Lead	MG/KG	366	100%	24.4	3	28	28	27.2		9.4	J	7.4	7.2	J
Magnesium	MG/KG	34300	100%	21700	1	28	28	12500		16400	J	18200	17100	J
Manganese	MG/KG	631	100%	1100	0	28	28	507		448		375	451	
Mercury	MG/KG	0.06	18%	0.1	0	5	28	0.06	U	0.05	U	0.05	0.05	U
Nickel	MG/KG	201	93%	50	2	26	28	42.5		22.7	J	21	24.4	J
Potassium	MG/KG	2090	100%	2623	0	28	28	1840	J	1120		2090	1220	
Selenium	MG/KG	1.2	18%	2	0	5	28	0.94	U	0.84	U	1	0.89	U
Silver	MG/KG	11.9	14%	0.8	2	4	28	0.42	U	0.22	U	0.45	0.23	U
Sodium	MG/KG	134	57%	188	0	16	28	121	U	134	J	129	78.9	J
Thallium	MG/KG	1.7	25%	0.855	5	7	28	1.3	U	0.95	U	1.3	1.1	J
Vanadium	MG/KG	25.6	100%	150	0	28	28	22.4		13.5		18.2	12.7	
Zinc	MG/KG	424	100%	115	3	28	28	104	J	45.3	J	45.3	51.3	J

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 SB12-3 SOIL	SEAD-12 SB12-3 SOIL	SEAD-12 SB12-3 SOIL	SEAD-12 SB12-4 SOIL
									12525	12527	12526	12528
									1	8	10	2
									4	10	11.9	4
						11/9/1997 11:10			11/9/1997 12:15	11/9/1997 12:55	11/9/1997 14:40	
						SA			SA	SA	SA	
						RI PHASE 1 STEP 1			RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N	N	N	N
<b>VOLATILE ORGANICS</b>												
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	29	12 U	16 U	12 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	29	12 U	16 U	12 U	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	29	12 U	16 U	12 U	12 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	29	12 U	16 U	12 U	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	29	12 U	16 U	12 U	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Acetone	UG/KG	34	41%	200	0	12	29	9 J	30 J	20 J	17 J	17 J
Benzene	UG/KG	6	3%	60	0	1	29	12 U	6 J	12 U	12 U	12 U
Bromodichloromethane	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Bromoform	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	29	12 U	16 U	12 U	12 U	12 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	29	12 U	16 U	12 U	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	29	12 U	16 U	12 U	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Chloroethane	UG/KG	0	0%	1900	0	0	29	12 U	16 U	12 U	12 U	12 U
Chloroform	UG/KG	0	0%	300	0	0	29	12 U	16 U	12 U	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Ethyl benzene	UG/KG	66	10%	5500	0	3	29	12 U	66	12 U	12 U	12 U
Methyl bromide	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Methyl chloride	UG/KG	0	0%		0	0	29	12 U	16 U	12 U	12 U	12 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	29	12 U	16 U	12 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	29	12 U	16 U	12 U	12 U	12 U
Methylene chloride	UG/KG	3	7%	100	0	2	29	12 U	3 J	12 U	12 U	12 U
Styrene	UG/KG	33	3%		0	1	29	12 U	33	12 U	12 U	12 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	29	12 U	16 U	12 U	12 U	12 U
Toluene	UG/KG	15	34%	1500	0	10	29	12 U	2 J	6 J	6 J	6 J
Total Xylenes	UG/KG	520	10%	1200	0	3	29	12 U	10 J	12 U	12 U	12 U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12							SEAD-12		SEAD-12		SEAD-12			
LOCATION ID		SB12-3							SB12-3		SB12-3		SB12-4			
MATRIX		SOIL							SOIL		SOIL		SOIL			
SAMPLE ID		12525							12527		12526		12528			
SAMPLE DEPTH TO TOP OF SAMPLE		1							8		10		2			
SAMPLE DEPTH TO BOTTOM OF SAMPLE		4							10		11.9		4			
SAMPLE DATE		11/9/1997 11:10							11/9/1997 12:15		11/9/1997 12:55		11/9/1997 14:40			
QC CODE		SA							SA		SA		SA			
STUDY ID		RI PHASE 1 STEP 1							RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	29		12 U		16 U		12 U		12 U	
Trichloroethene	UG/KG	26	14%	700	0	4	29		12 U		16 U		12 U		12 U	
Vinyl chloride	UG/KG	0	0%	200	0	0	29		12 U		16 U		12 U		12 U	
<b>SEMI VOLATILE ORGANICS</b>																
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	28		85 U				77 U		80 U	
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	28		85 U				77 U		80 U	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	28		85 U				77 U		80 U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	28		85 U				77 U		80 U	
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%		0	4										
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	28		200 U				190 U		190 U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	28		85 U				77 U		80 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	28		85 U				77 U		80 U	
2,4-Dimethylphenol	UG/KG	25	4%		0	1	28		85 U				77 U		80 U	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	28		200 U				190 U		190 U	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	28		85 U				77 U		80 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	28		85 U				77 U		80 U	
2-Chloronaphthalene	UG/KG	0	0%		0	0	28		85 U				77 U		80 U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	28		85 U				77 U		80 U	
2-Methylnaphthalene	UG/KG	56	11%	36400	0	3	28		85 U				77 U		80 U	
2-Methylphenol	UG/KG	0	0%	100	0	0	28		85 U				77 U		80 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	28		200 U				190 U		190 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	28		85 U				77 U		80 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	28		85 U				77 U		80 U	
3-Nitroaniline	UG/KG	0	0%	500	0	0	28		200 U				190 U		190 U	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	28		200 U				190 U		190 U	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	28		85 U				77 U		80 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	28		85 U				77 U		80 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	28		85 U				77 U		80 U	
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	28		85 U				77 U		80 U	
4-Methylphenol	UG/KG	140	4%	900	0	1	28		85 U				77 U		80 U	
4-Nitroaniline	UG/KG	0	0%		0	0	28		200 U				190 U		190 U	

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 SB12-3 SOIL	SEAD-12 SB12-3 SOIL	SEAD-12 SB12-3 SOIL	SEAD-12 SB12-4 SOIL	
									12525	12527	12526	12528	
									1	8	10	2	
									4	10	11.9	4	
									11/9/1997 11:10	11/9/1997 12:15	11/9/1997 12:55	11/9/1997 14:40	
									SA	SA	SA	SA	
									RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI PHASE 1 STEP 1	N	RI PHASE 1 STEP 1	N	RI PHASE 1 STEP 1
4-Nitrophenol	UG/KG	0	0%	100	0	0	28		200 U			190 U	190 U
Acenaphthene	UG/KG	23	4%	50000	0	1	28		85 U		77 U	80 U	80 U
Acenaphthylene	UG/KG	33	4%	41000	0	1	28		85 U		77 U	80 U	80 U
Anthracene	UG/KG	96	11%	50000	0	3	28		85 U		77 U	80 U	80 U
Benzo(a)anthracene	UG/KG	180	14%	224	0	4	28		85 U		77 U	80 U	80 U
Benzo(a)pyrene	UG/KG	200	14%	61	1	4	28		85 U		77 U	80 U	80 U
Benzo(b)fluoranthene	UG/KG	190	14%	1100	0	4	28		85 U		77 U	80 U	80 U
Benzo(ghi)perylene	UG/KG	120	7%	50000	0	2	28		85 U		77 U	80 U	80 U
Benzo(k)fluoranthene	UG/KG	160	11%	1100	0	3	28		85 U		77 U	80 U	80 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	28		85 U		77 U	80 U	80 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	28		85 U		77 U	80 U	80 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	24		85 U		77 U	80 U	80 U
Bis(2-Ethylhexyl)phthalate	UG/KG	930	25%	50000	0	7	28		85 U		390	80 U	80 U
Butylbenzylphthalate	UG/KG	5.1	4%	50000	0	1	28		85 U		77 U	80 U	80 U
Carbazole	UG/KG	0	0%		0	0	28		85 U		77 U	80 U	80 U
Chrysene	UG/KG	240	14%	400	0	4	28		85 U		77 U	80 U	80 U
Di-n-butylphthalate	UG/KG	1700	11%	8100	0	3	28		85 U		77 U	80 U	80 U
Di-n-octylphthalate	UG/KG	54	43%	50000	0	12	28		7.9 J		54 J	5.2 J	5.2 J
Dibenz(a,h)anthracene	UG/KG	57	7%	14	1	2	28		85 U		77 U	80 U	80 U
Dibenzofuran	UG/KG	0	0%	6200	0	0	28		85 U		77 U	80 U	80 U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	28		85 U		77 U	80 U	80 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	28		85 U		77 U	80 U	80 U
Fluoranthene	UG/KG	420	21%	50000	0	6	28		4.5 J		77 U	80 U	80 U
Fluorene	UG/KG	52	7%	50000	0	2	28		85 U		77 U	80 U	80 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	28		85 U		77 U	80 U	80 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	28		85 U		77 U	80 U	80 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	28		85 U		77 U	80 U	80 U
Hexachloroethane	UG/KG	0	0%		0	0	28		85 U		77 U	80 U	80 U
Indeno(1,2,3-cd)pyrene	UG/KG	120	7%	3200	0	2	28		85 U		77 U	80 U	80 U
Isophorone	UG/KG	0	0%	4400	0	0	28		85 U		77 U	80 U	80 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	28		85 U		77 U	80 U	80 U



TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						SB12-3		SB12-3		SB12-3		SB12-4	
MATRIX						SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						12525		12527		12526		12528	
SAMPLE DEPTH TO TOP OF SAMPLE						1		8		10		2	
SAMPLE DEPTH TO BOTTOM OF SAMPLE						4		10		11.9		4	
SAMPLE DATE						11/9/1997 11:10		11/9/1997 12:15		11/9/1997 12:55		11/9/1997 14:40	
QC CODE						SA		SA		SA		SA	
STUDY ID						RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N	N	N	N	N
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	28	85 U			77 U		80 U
Naphthalene	UG/KG	600	7%	13000	0	2	28	85 U		77 U			80 U
Nitrobenzene	UG/KG	0	0%	200	0	0	28	85 U		77 U			80 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	28	200 U		77 U			190 U
Phenanthrene	UG/KG	340	18%	50000	0	5	28	85 U		77 U			80 U
Phenol	UG/KG	300	7%	30	2	2	28	85 U		77 U			80 U
Pyrene	UG/KG	380	18%	50000	0	5	28	4.6 J		77 U			80 U
<b>PESTICIDES/PCBS</b>													
4,4'-DDD	UG/KG	0	0%	2900	0	0	28	13 U			3.8 U		4 U
4,4'-DDE	UG/KG	42	11%	2100	0	3	28	42 J			26 J		4 U
4,4'-DDT	UG/KG	2.1	4%	2100	0	1	28	13 U			3.8 U		4 U
Aldrin	UG/KG	0.79	4%	41	0	1	28	6.5 U			2 U		2 U
Alpha-BHC	UG/KG	24	7%	110	0	2	28	6.5 U			2 U		2 U
Alpha-Chlordane	UG/KG	4.6	7%		0	2	28	6.5 U			4.6 J		2 U
Aroclor-1016	UG/KG	0	0%		0	0	28	130 U			38 U		40 U
Aroclor-1221	UG/KG	0	0%		0	0	28	260 U			78 U		81 U
Aroclor-1232	UG/KG	0	0%		0	0	28	130 U			38 U		40 U
Aroclor-1242	UG/KG	0	0%		0	0	28	130 U			38 U		40 U
Aroclor-1248	UG/KG	0	0%		0	0	28	130 U			38 U		40 U
Aroclor-1254	UG/KG	3000	21%	10000	0	6	28	3000 U			1900 U		40 U
Aroclor-1260	UG/KG	150	7%	10000	0	2	28	130 U			38 U		40 U
Beta-BHC	UG/KG	2.2	4%	200	0	1	28	6.5 U			2 U		2 U
Delta-BHC	UG/KG	0	0%	300	0	0	28	6.5 U			2 U		2 U
Dieldrin	UG/KG	40	7%	44	0	2	28	40 J			25 J		4 U
Endosulfan I	UG/KG	0	0%	900	0	0	28	6.5 U			2 U		2 U
Endosulfan II	UG/KG	19	7%	900	0	2	28	19 J			9.5 J		4 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	28	13 U			3.8 U		4 U
Endrin	UG/KG	20	14%	100	0	4	28	16 J			8.6 J		4 U
Endrin aldehyde	UG/KG	0	0%		0	0	28	13 U			3.8 U		4 U
Endrin ketone	UG/KG	0	0%		0	0	28	13 U			3.8 U		4 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	28	6.5 U			2 U		2 U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID									SEAD-12 SB12-3 SOIL 12525	SEAD-12 SB12-3 SOIL 12527	SEAD-12 SB12-3 SOIL 12526	SEAD-12 SB12-4 SOIL 12528
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
Gamma-Chlordane	UG/KG	58	11%	540	0	3	28		58 J		44 J	2 U
Heptachlor	UG/KG	13	7%	100	0	2	28		6.5 U		2 U	2 U
Heptachlor epoxide	UG/KG	22	7%	20	1	2	28		22 J		2 U	2 U
Methoxychlor	UG/KG	0	0%		0	0	28		65 U		20 U	20 U
Toxaphene	UG/KG	0	0%		0	0	28		650 U		200 U	200 U
<b>METALS</b>												
Aluminum	MG/KG	17100	100%	19520	0	28	28	12900			15700	11900
Antimony	MG/KG	7.2	25%	6	1	7	28	1.3 J			0.76 UJ	0.75 UJ
Arsenic	MG/KG	5.9	100%	8.9	0	28	28	4.3			3.6	5.5
Barium	MG/KG	125	100%	300	0	28	28	86.1			74.5	67.4
Beryllium	MG/KG	0.74	100%	1.13	0	28	28	0.43 J			0.72 J	0.36
Cadmium	MG/KG	94.3	36%	2.46	7	10	28	1.1				0.06 U
Calcium	MG/KG	142000	100%	125300	1	28	28	37200			5510	35900
Chromium	MG/KG	83.3	100%	30	4	28	28	19.5			30.2	16.6
Cobalt	MG/KG	26.5	100%	30	0	28	28	11			15.4	11.9
Copper	MG/KG	215	100%	33	5	28	28	27.8			63.1	18.6
Cyanide	MG/KG	1.5	7%	0.35	2	2	28	0.76 U			0.7 U	0.73 U
Iron	MG/KG	35700	100%	37410	0	28	28	21900			35700	20500
Lead	MG/KG	366	100%	24.4	3	28	28	15			63.9	11.8
Magnesium	MG/KG	34300	100%	21700	1	28	28	8000			7120	8050
Manganese	MG/KG	631	100%	1100	0	28	28	619			395	561
Mercury	MG/KG	0.06	18%	0.1	0	5	28	0.06 U			0.05 U	0.06 U
Nickel	MG/KG	201	93%	50	2	26	28	29			76.4	23.6
Potassium	MG/KG	2090	100%	2623	0	28	28	1650 J			1740 J	1380 J
Selenium	MG/KG	1.2	18%	2	0	5	28	1.1 U			1 U	1 U
Silver	MG/KG	11.9	14%	0.8	2	4	28	0.5 U			1.6	0.45 U
Sodium	MG/KG	134	57%	188	0	16	28	145 U			131 U	129 U
Thallium	MG/KG	1.7	25%	0.855	5	7	28	1.5 U			1.4 U	1.3 U
Vanadium	MG/KG	25.6	100%	150	0	28	28	21.2			21	20.3
Zinc	MG/KG	424	100%	115	3	28	28	79.4 J			160 J	61.7 J

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12										
LOCATION ID		SB12-4		TP12-1A		TP12-1B		TP12-1C		TP12-2A		
MATRIX		SOIL										
SAMPLE ID		12529		123142		123143		123144		123145		
SAMPLE DEPTH TO TOP OF SAMPLE		4		0.5		3		6		3		
SAMPLE DEPTH TO BOTTOM OF SAMPLE		6		0.5		3		6		3		
SAMPLE DATE		11/9/1997 15:50		10/16/1998		10/16/1998		10/16/1998		10/16/1998		
QC CODE		SA		SA		SA		SA		SA		
STUDY ID		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N	N	N	N
<b>VOLATILE ORGANICS</b>												
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	29	12	U	11	U	11
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	29	12	U	11	U	11
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	29	12	U	11	U	11
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	29	12	U	11	U	11
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	29	12	U	11	U	11
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	29	12	U	11	U	11
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	29	12	U	11	U	11
1,2-Dichloropropane	UG/KG	0	0%		0	0	29	12	U	11	U	11
Acetone	UG/KG	34	41%	200	0	12	29	34	J	11	UJ	11
Benzene	UG/KG	6	3%	60	0	1	29	12	U	11	U	11
Bromodichloromethane	UG/KG	0	0%		0	0	29	12	U	11	U	11
Bromoform	UG/KG	0	0%		0	0	29	12	U	11	U	11
Carbon disulfide	UG/KG	0	0%	2700	0	0	29	12	U	11	U	11
Carbon tetrachloride	UG/KG	0	0%	600	0	0	29	12	U	11	U	11
Chlorobenzene	UG/KG	0	0%	1700	0	0	29	12	U	11	U	11
Chlorodibromomethane	UG/KG	0	0%		0	0	29	12	U	11	U	11
Chloroethane	UG/KG	0	0%	1900	0	0	29	12	U	11	U	11
Chloroform	UG/KG	0	0%	300	0	0	29	12	U	11	U	11
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	29	12	U	11	U	11
Ethyl benzene	UG/KG	66	10%	5500	0	3	29	12	U	11	U	11
Methyl bromide	UG/KG	0	0%		0	0	29	12	U	11	U	11
Methyl butyl ketone	UG/KG	0	0%		0	0	29	12	U	11	UJ	11
Methyl chloride	UG/KG	0	0%		0	0	29	12	U	11	U	11
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	29	12	U	11	UJ	11
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	29	12	U	11	U	11
Methylene chloride	UG/KG	3	7%	100	0	2	29	12	U	11	U	11
Styrene	UG/KG	33	3%		0	1	29	12	U	11	U	11
Tetrachloroethene	UG/KG	0	0%	1400	0	0	29	12	U	11	U	11
Toluene	UG/KG	15	34%	1500	0	10	29	2	J	11	U	11
Total Xylenes	UG/KG	520	10%	1200	0	3	29	12	U	11	U	11

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID								SB12-4		TP12-1A		TP12-1B		TP12-1C		TP12-2A	
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID								12529		123142		123143		123144		123145	
SAMPLE DEPTH TO TOP OF SAMPLE								4		0.5		3		6		3	
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6		0.5		3		6		3	
SAMPLE DATE								11/9/1997 15:50		10/16/1998		10/16/1998		10/16/1998		10/16/1998	
QC CODE								SA		SA		SA		SA		SA	
STUDY ID								RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	29		12 U		11 U		11 U		12 U		11
Trichloroethene	UG/KG	26	14%	700	0	4	29		1 J		11 U		11 U		12 U		11
Vinyl chloride	UG/KG	0	0%	200	0	0	29		12 U		11 U		11 U		12 U		11
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	28		75 U		77 U		73 U		75 U		74
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	28		75 U		77 U		73 U		75 U		74
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	28		75 U		77 U		73 U		75 U		74
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	28		75 U		77 U		73 U		75 U		74
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%		0	0	4										
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	28		180 U		190 U		180 U		180 U		180
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	28		75 U		77 U		73 U		75 U		74
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	28		75 U		77 U		73 U		75 U		74
2,4-Dimethylphenol	UG/KG	25	4%		0	1	28		75 U		77 UJ		73 UJ		75 UJ		74
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	28		180 UJ		190 U		180 U		180 U		180
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	28		75 U		77 U		73 U		75 U		74
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	28		75 U		77 U		73 U		75 U		74
2-Chloronaphthalene	UG/KG	0	0%		0	0	28		75 U		77 UJ		73 UJ		75 UJ		74
2-Chlorophenol	UG/KG	0	0%	800	0	0	28		75 U		77 U		73 U		75 U		74
2-Methylnaphthalene	UG/KG	56	11%	36400	0	3	28		75 U		77 UJ		73 UJ		75 UJ		74
2-Methylphenol	UG/KG	0	0%	100	0	0	28		75 U		77 U		73 U		75 U		74
2-Nitroaniline	UG/KG	0	0%	430	0	0	28		180 U		190 U		180 U		180 U		180
2-Nitrophenol	UG/KG	0	0%	330	0	0	28		75 U		77 U		73 U		75 U		74
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	28		75 UJ		77 U		73 U		75 U		74
3-Nitroaniline	UG/KG	0	0%	500	0	0	28		180 UJ		190 UJ		180 UJ		180 UJ		180
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	28		180 U		190 U		180 U		180 U		180
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	28		75 U		77 U		73 U		75 U		74
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	28		75 U		77 UJ		73 UJ		75 UJ		74
4-Chloroaniline	UG/KG	0	0%	220	0	0	28		75 UJ		77 UJ		73 UJ		75 UJ		74
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	28		75 U		77 U		73 U		75 U		74
4-Methylphenol	UG/KG	140	4%	900	0	1	28		75 U		77 U		73 U		75 U		74
4-Nitroaniline	UG/KG	0	0%		0	0	28		180 UJ		190 UJ		180 UJ		180 UJ		180

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12										
LOCATION ID		SB12-4		TP12-1A		TP12-1B		TP12-1C		TP12-2A		
MATRIX		SOIL										
SAMPLE ID		12529		123142		123143		123144		123145		
SAMPLE DEPTH TO TOP OF SAMPLE		4		0.5		3		6		3		
SAMPLE DEPTH TO BOTTOM OF SAMPLE		6		0.5		3		6		3		
SAMPLE DATE		11/9/1997 15:50		10/16/1998		10/16/1998		10/16/1998		10/16/1998		
QC CODE		SA		SA		SA		SA		SA		
STUDY ID		RI PHASE 1		STEP 1		RI PHASE 1		STEP 1		RI PHASE 1		
PARAMETER		UNIT	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES N	N	N	N	N	
4-Nitrophenol	UG/KG	0	0%	100	0	0	28	180 U	190 UJ	180 UJ	180 UJ	180
Acenaphthene	UG/KG	23	4%	50000	0	1	28	75 U	77 U	73 U	75 U	74
Acenaphthylene	UG/KG	33	4%	41000	0	1	28	75 U	77 U	73 U	75 U	74
Anthracene	UG/KG	96	11%	50000	0	3	28	4.4 J	77 UJ	73 UJ	75 UJ	74
Benzo(a)anthracene	UG/KG	180	14%	224	0	4	28	5.8 J	77 U	73 U	75 U	74
Benzo(a)pyrene	UG/KG	200	14%	61	1	4	28	7.1 J	77 UJ	73 UJ	75 UJ	74
Benzo(b)fluoranthene	UG/KG	190	14%	1100	0	4	28	6 J	77 U	73 U	75 U	74
Benzo(ghi)perylene	UG/KG	120	7%	50000	0	2	28	6.7 J	77 U	73 U	75 U	74
Benzo(k)fluoranthene	UG/KG	160	11%	1100	0	3	28	6.4 J	77 U	73 U	75 U	74
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	28	75 U	77 U	73 U	75 U	74
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	28	75 U	77 U	73 U	75 U	74
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	24	75 U	77 U	73 U	75 U	74
Bis(2-Ethylhexyl)phthalate	UG/KG	930	25%	50000	0	7	28	75 U	77 U	73 U	75 U	74
Butylbenzylphthalate	UG/KG	5.1	4%	50000	0	1	28	5.1 J	77 U	73 U	75 U	74
Carbazole	UG/KG	0	0%		0	0	28	75 U	77 UJ	73 UJ	75 UJ	74
Chrysene	UG/KG	240	14%	400	0	4	28	5.7 J	77 U	73 U	75 U	74
Di-n-butylphthalate	UG/KG	1700	11%	8100	0	3	28	75 U	77 U	73 U	75 U	74
Di-n-octylphthalate	UG/KG	54	43%	50000	0	12	28	7 J	77 UJ	73 UJ	75 UJ	74
Dibenz(a,h)anthracene	UG/KG	57	7%	14	1	2	28	6 J	77 U	73 U	75 U	74
Dibenzofuran	UG/KG	0	0%	6200	0	0	28	75 U	77 UJ	73 UJ	75 UJ	74
Diethyl phthalate	UG/KG	0	0%	7100	0	0	28	75 U	77 U	73 U	75 U	74
Dimethylphthalate	UG/KG	0	0%	2000	0	0	28	75 U	77 U	73 U	75 U	74
Fluoranthene	UG/KG	420	21%	50000	0	6	28	5.1 J	77 U	73 U	75 U	74
Fluorene	UG/KG	52	7%	50000	0	2	28	75 U	77 U	73 U	75 U	74
Hexachlorobenzene	UG/KG	0	0%	410	0	0	28	75 U	77 U	73 U	75 U	74
Hexachlorobutadiene	UG/KG	0	0%		0	0	28	75 U	77 UJ	73 UJ	75 UJ	74
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	28	75 U	77 U	73 U	75 U	74
Hexachloroethane	UG/KG	0	0%		0	0	28	75 U	77 U	73 U	75 U	74
Indeno(1,2,3-cd)pyrene	UG/KG	120	7%	3200	0	2	28	5.7 J	77 U	73 U	75 U	74
Isophorone	UG/KG	0	0%	4400	0	0	28	75 U	77 UJ	73 UJ	75 UJ	74
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	28	75 U	77 UJ	73 UJ	75 UJ	74

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12										
LOCATION ID		SB12-4		TP12-1A		TP12-1B		TP12-1C		TP12-2A		
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE ID		12529		123142		123143		123144		123145		
SAMPLE DEPTH TO TOP OF SAMPLE		4		0.5		3		6		3		
SAMPLE DEPTH TO BOTTOM OF SAMPLE		6		0.5		3		6		3		
SAMPLE DATE		11/9/1997 15:50		10/16/1998		10/16/1998		10/16/1998		10/16/1998		
QC CODE		SA		SA		SA		SA		SA		
STUDY ID		FREQUENCY OF DETECTION		NYSDEC TAGM 4046		NUMBER ABOVE TAGM		NUMBER OF DETECTS		NUMBER OF ANALYSES		
PARAMETER		MAXIMU						RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		
UNIT								N		N		
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	28	75 U	77 U	73 U	75 U	74
Naphthalene	UG/KG	600	7%	13000	0	2	28	75 U	77 UJ	73 UJ	75 UJ	74
Nitrobenzene	UG/KG	0	0%	200	0	0	28	75 U	77 UJ	73 UJ	75 UJ	74
Pentachlorophenol	UG/KG	0	0%	1000	0	0	28	180 U	190 UR	180 UR	180 UR	180
Phenanthrene	UG/KG	340	18%	50000	0	5	28	4.7 J	77 U	73 U	75 U	74
Phenol	UG/KG	300	7%	30	2	2	28	75 U	77 U	73 U	75 U	74
Pyrene	UG/KG	380	18%	50000	0	5	28	4.4 J	77 UJ	73 UJ	75 UJ	74
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	0	0%	2900	0	0	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
4,4'-DDE	UG/KG	42	11%	2100	0	3	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
4,4'-DDT	UG/KG	2.1	4%	2100	0	1	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
Aldrin	UG/KG	0.79	4%	41	0	1	28	1.9 U	2 U	1.9 U	1.9 U	1.9
Alpha-BHC	UG/KG	24	7%	110	0	2	28	1.9 U	2 U	1.9 U	1.9 U	1.9
Alpha-Chlordane	UG/KG	4.6	7%		0	2	28	1.9 U	2 U	1.9 U	1.9 U	1.9
Aroclor-1016	UG/KG	0	0%		0	0	28	38 U	38 U	36 U	37 U	37
Aroclor-1221	UG/KG	0	0%		0	0	28	76 U	78 U	74 U	75 U	75
Aroclor-1232	UG/KG	0	0%		0	0	28	38 U	38 U	36 U	37 U	37
Aroclor-1242	UG/KG	0	0%		0	0	28	38 U	38 U	36 U	37 U	37
Aroclor-1248	UG/KG	0	0%		0	0	28	38 U	38 U	36 U	37 U	37
Aroclor-1254	UG/KG	3000	21%	10000	0	6	28	38 U	38 U	36 U	37 U	37
Aroclor-1260	UG/KG	150	7%	10000	0	2	28	38 U	38 U	36 U	37 U	37
Beta-BHC	UG/KG	2.2	4%	200	0	1	28	1.9 U	2 U	1.9 U	1.9 U	1.9
Delta-BHC	UG/KG	0	0%	300	0	0	28	1.9 U	2 U	1.9 U	1.9 U	1.9
Dieldrin	UG/KG	40	7%	44	0	2	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
Endosulfan I	UG/KG	0	0%	900	0	0	28	1.9 U	2 U	1.9 U	1.9 U	1.9
Endosulfan II	UG/KG	19	7%	900	0	2	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
Endrin	UG/KG	20	14%	100	0	4	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
Endrin aldehyde	UG/KG	0	0%		0	0	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
Endrin ketone	UG/KG	0	0%		0	0	28	3.8 U	3.8 U	3.6 U	3.7 U	3.7
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	28	1.9 U	2 U	1.9 U	1.9 U	1.9

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12					SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID				SB12-4					TP12-1A		TP12-1B		TP12-1C		TP12-2A		
MATRIX				SOIL					SOIL		SOIL		SOIL		SOIL		
SAMPLE ID				12529					123142		123143		123144		123145		
SAMPLE DEPTH TO TOP OF SAMPLE				4					0.5		3		6		3		
SAMPLE DEPTH TO BOTTOM OF SAMPLE				6					0.5		3		6		3		
SAMPLE DATE				11/9/1997 15:50					10/16/1998		10/16/1998		10/16/1998		10/16/1998		
QC CODE				SA					SA		SA		SA		SA		
STUDY ID				RI PHASE 1 STEP 1					RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI PHASE 1 STEP 1	N	RI PHASE 1 STEP 1	N	RI PHASE 1 STEP 1	N	RI PHASE 1 STEP 1	N	RI PHASE 1 STEP 1
Gamma-Chlordane	UG/KG	58	11%	540	0	3	28	28	1.9 U	N	2 U	N	1.9 U	N	1.9 U	N	1.9
Heptachlor	UG/KG	13	7%	100	0	2	28	28	1.9 U	N	2 U	N	1.9 U	N	1.9 U	N	1.9
Heptachlor epoxide	UG/KG	22	7%	20	1	2	28	28	1.9 U	N	2 U	N	1.9 U	N	1.9 U	N	1.9
Methoxychlor	UG/KG	0	0%		0	0	28	28	19 U	N	20 U	N	19 U	N	19 U	N	19
Toxaphene	UG/KG	0	0%		0	0	28	28	190 U	N	200 U	N	190 U	N	190 U	N	190
<b>METALS</b>																	
Aluminum	MG/KG	17100	100%	19520	0	28	28	28	13100	N	8910 J	N	6100 J	N	6650 J	N	9100
Antimony	MG/KG	7.2	25%	6	1	7	28	28	0.81 J	N	1.2 UR	N	1.2 UR	N	84 UR	N	1.2
Arsenic	MG/KG	5.9	100%	8.9	0	28	28	28	3.8	N	3.7	N	3.4	N	3.2	N	3.4
Barium	MG/KG	125	100%	300	0	28	28	28	82.1	N	65 J	N	79.2 J	N	58.2 J	N	70.7
Beryllium	MG/KG	0.74	100%	1.13	0	28	28	28	0.52	N	0.33 J	N	0.24 J	N	0.29 J	N	0.37
Cadmium	MG/KG	94.3	36%	2.46	7	10	28	28	0.07 U	N	0.06 U	N	0.06 U	N	3	N	0.06
Calcium	MG/KG	142000	100%	125300	1	28	28	28	52000	N	43000	N	102000	N	88400	N	59900
Chromium	MG/KG	83.3	100%	30	4	28	28	28	23.4	N	13	N	9.5	N	10.9	N	13.8
Cobalt	MG/KG	26.5	100%	30	0	28	28	28	15	N	9.4 J	N	7.5 J	N	8.6	N	7.8
Copper	MG/KG	215	100%	33	5	28	28	28	32.2	N	20.2	N	21.4	N	31.5	N	18.1
Cyanide	MG/KG	1.5	7%	0.35	2	2	28	28	0.66 U	N	0.59 U	N	0.57 U	N	0.57 U	N	0.56
Iron	MG/KG	35700	100%	37410	0	28	28	28	27800	N	19600 J	N	15800	N	17300 J	N	18000
Lead	MG/KG	366	100%	24.4	3	28	28	28	17.9	N	11 J	N	6.9 J	N	12.8 J	N	9
Magnesium	MG/KG	34300	100%	21700	1	28	28	28	9610	N	8410 J	N	14400 J	N	11700 J	N	11900
Manganese	MG/KG	631	100%	1100	0	28	28	28	430	N	569	N	358	N	427	N	402
Mercury	MG/KG	0.06	18%	0.1	0	5	28	28	0.04 U	N	0.06 U	N	0.06 U	N	0.05 U	N	0.06
Nickel	MG/KG	201	93%	50	2	26	28	28	48.9	N	24.9 J	N	21.1 J	N	34.1 J	N	23.3
Potassium	MG/KG	2090	100%	2623	0	28	28	28	1740 J	N	897 J	N	945 J	N	801	N	1010
Selenium	MG/KG	1.2	18%	2	0	5	28	28	1.1 U	N	0.88 UJ	N	0.94 UJ	N	0.63 UJ	N	0.93
Silver	MG/KG	11.9	14%	0.8	2	4	28	28	0.48 U	N	0.23 U	N	0.25 U	N	0.17 U	N	0.24
Sodium	MG/KG	134	57%	188	0	16	28	28	138 U	N	48.4 U	N	70.1 J	N	70.2 J	N	69.9
Thallium	MG/KG	1.7	25%	0.855	5	7	28	28	1.4 U	N	1 U	N	1.1 U	N	0.94 J	N	1.1
Vanadium	MG/KG	25.6	100%	150	0	28	28	28	19.5	N	14.7	N	11.3	N	11.8	N	14.7
Zinc	MG/KG	424	100%	115	3	28	28	28	110 J	N	50.9 J	N	42.4 J	N	54.5 J	N	51.9





TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1	SEAD-12 TP12-2B SOIL 123146	SEAD-12 TP12-2C SOIL 123147	SEAD-12 TP12A-1 SOIL TP12A-1-1	SEAD-12 TP12A-1 SOIL TP12A-1-2	SEAD-12 TP12A-2 SOIL TP12A-2-2				
PARAMETER	UNIT	MAXIMU												RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1				
														STEP 1	STEP 1	STEP 1	STEP 1	STEP 1	STEP 1				
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	0	0	0	0	0	0	29 U	N	28 U	N	30 U	N	12 U	N	11 U	N	12
Trichloroethene	UG/KG	26	14%	700	0	0	4	29 U	0	4	29 U	29 U	29 U	J	11 J	J	30 U	J	3 J	J	26 J	J	12
Vinyl chloride	UG/KG	0	0%	200	0	0	0	29 U	0	0	0	29 U	29 U	U	28 U	U	30 U	U	12 U	U	11 U	U	12
<b>SEMI VOLATILE ORGANICS</b>																							
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	0	28 U	0	0	0	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	0	28 U	0	0	0	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	0	28 U	0	0	0	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	0	28 U	0	0	0	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	4	4	0	0	0	4	4	U	0	0	0	0	400 U	U	380 U	U	390
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	0	28 U	0	0	0	28 U	28 U	U	180 U	U	190 U	U	980 U	U	920 U	U	940
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	0	28 U	0	0	0	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	0	28 U	0	0	0	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
2,4-Dimethylphenol	UG/KG	25	4%	0	0	1	28 UJ	28 UJ	0	1	28 UJ	28 UJ	28 UJ	J	75 UJ	J	79 UJ	J	25 J	J	380 U	U	390
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	28 U	28 U	0	0	28 U	28 U	28 U	UJ	180 UJ	UJ	190 UJ	UJ	980 U	U	920 U	U	940
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	28 UJ	28 UJ	0	0	28 UJ	28 UJ	28 UJ	UJ	75 UJ	UJ	79 UJ	UJ	400 U	U	380 U	U	390
2-Chlorophenol	UG/KG	0	0%	800	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
2-Methylnaphthalene	UG/KG	56	11%	36400	0	3	28 UJ	28 UJ	0	3	28 UJ	28 UJ	28 UJ	J	56 J	J	10 J	J	400 U	U	21 J	J	390
2-Methylphenol	UG/KG	0	0%	100	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
2-Nitroaniline	UG/KG	0	0%	430	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	180 U	U	190 UJ	UJ	980 U	U	920 U	U	940
2-Nitrophenol	UG/KG	0	0%	330	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 UJ	UJ	79 U	U	400 U	U	380 U	U	390
3-Nitroaniline	UG/KG	0	0%	500	0	0	28 UJ	28 UJ	0	0	28 UJ	28 UJ	28 UJ	UJ	180 UJ	UJ	190 UJ	UJ	980 U	U	920 U	U	940
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	180 U	U	190 U	U	980 U	U	920 U	U	940
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	28 UJ	28 UJ	0	0	28 UJ	28 UJ	28 UJ	UJ	75 U	U	79 U	U	400 U	U	380 U	U	390
4-Chloroaniline	UG/KG	0	0%	220	0	0	28 UJ	28 UJ	0	0	28 UJ	28 UJ	28 UJ	UJ	75 U	U	79 U	U	400 U	U	380 U	U	390
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	28 U	28 U	0	0	28 U	28 U	28 U	U	75 U	U	79 U	U	400 U	U	380 U	U	390
4-Methylphenol	UG/KG	140	4%	900	0	1	28 U	28 U	0	1	28 U	28 U	28 U	U	75 U	U	79 U	U	140 J	J	380 U	U	390
4-Nitroaniline	UG/KG	0	0%	0	0	0	28 UJ	28 UJ	0	0	28 UJ	28 UJ	28 UJ	UJ	180 UJ	UJ	190 UJ	UJ	980 U	U	920 U	U	940

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1	SEAD-12 TP12-2B SOIL	SEAD-12 TP12-2C SOIL	SEAD-12 TP12A-1 SOIL	SEAD-12 TP12A-1 SOIL	SEAD-12 TP12A-1-2 SOIL	SEAD-12 TP12A-2 SOIL
															123146	123147	TP12A-1-1	TP12A-1-2	TP12A-2-2	
															3.5	6	2.5	3	5	
															3.5	6	2.5	3	5	
															10/16/1998	10/16/1998	6/24/1994	6/24/1994	6/22/1994	
															SA	SA	SA	SA	SA	
															RI PHASE 1	RI PHASE 1	ESI	ESI	ESI	
															N	N	N	N	N	
PARAMETER	UNIT	MAXIMU																		
4-Nitrophenol	UG/KG	0	0%	100	0	0	28	UJ	N	180	U	190	U	980	U	920	U	940		
Acenaphthene	UG/KG	23	4%	50000	0	1	28	U		75	U	23	J	400	U	380	U	390		
Acenaphthylene	UG/KG	33	4%	41000	0	1	28	U		75	U	79	U	400	U	33	J	390		
Anthracene	UG/KG	96	11%	50000	0	3	28	UJ		75	UJ	40	J	400	U	96	J	390		
Benzo(a)anthracene	UG/KG	180	14%	224	0	4	28	U		75	UJ	74	J	21	J	180	J	390		
Benzo(a)pyrene	UG/KG	200	14%	61	1	4	28	UJ		75	UJ	41	J	30	J	200	J	390		
Benzo(b)fluoranthene	UG/KG	190	14%	1100	0	4	28	U		75	UJ	23	J	28	J	190	J	390		
Benzo(ghi)perylene	UG/KG	120	7%	50000	0	2	28	U		75	UJ	79	U	400	U	120	J	390		
Benzo(k)fluoranthene	UG/KG	160	11%	1100	0	3	28	U		75	UJ	79	U	32	J	160	J	390		
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	28	U		75	U	79	U	400	U	380	U	390		
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	28	U		75	U	79	U	400	U	380	U	390		
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	24	U		75	U	79	U							
Bis(2-Ethylhexyl)phthalate	UG/KG	930	25%	50000	0	7	28	U		930	J	79	U	230	J	860		390		
Butylbenzylphthalate	UG/KG	5.1	4%	50000	0	1	28	U		75	UJ	79	U	400	U	380	U	390		
Carbazole	UG/KG	0	0%	0	0	0	28	UJ		75	U	79	U	400	U	380	U	390		
Chrysene	UG/KG	240	14%	400	0	4	28	U		75	UJ	98		28	J	240	J	390		
Di-n-butylphthalate	UG/KG	1700	11%	8100	0	3	28	U		75	U	79	U	79	J	1700		390		
Di-n-octylphthalate	UG/KG	54	43%	50000	0	12	28	UJ		75	UJ	79	U	400	U	380	U	390		
Dibenz(a,h)anthracene	UG/KG	57	7%	14	1	2	28	U		75	UJ	79	U	400	U	380	U	390		
Dibenzofuran	UG/KG	0	0%	6200	0	0	28	UJ		75	UJ	79	UJ	400	U	380	U	390		
Diethyl phthalate	UG/KG	0	0%	7100	0	0	28	U		75	U	79	U	400	U	380	U	390		
Dimethylphthalate	UG/KG	0	0%	2000	0	0	28	U		75	U	79	U	400	U	380	U	390		
Fluoranthene	UG/KG	420	21%	50000	0	6	28	U		75	U	69	J	40	J	420		390		
Fluorene	UG/KG	52	7%	50000	0	2	28	U		75	U	10	J	400	U	52	J	390		
Hexachlorobenzene	UG/KG	0	0%	410	0	0	28	U		75	U	79	U	400	U	380	U	390		
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	28	UJ		75	UJ	79	UJ	400	U	380	U	390		
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	28	U		75	U	79	U	400	U	380	U	390		
Hexachloroethane	UG/KG	0	0%	0	0	0	28	U		75	U	79	U	400	U	380	U	390		
Indeno(1,2,3-cd)pyrene	UG/KG	120	7%	3200	0	2	28	U		75	UJ	79	U	400	U	120	J	390		
Isophorone	UG/KG	0	0%	4400	0	0	28	UJ		75	UJ	79	UJ	400	U	380	U	390		
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	28	UJ		75	U	79	U	400	U	380	U	390		

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 TP12-2B SOIL	SEAD-12 TP12-2C SOIL	SEAD-12 TP12A-1 SOIL	SEAD-12 TP12A-1 SOIL	SEAD-12 TP12A-2 SOIL				
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	ESI	RI PHASE 1	STEP 1	ESI	
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	28	U	N	75	U	79	U	N	400	U	390
Naphthalene	UG/KG	600	7%	13000	0	2	28	UJ	600	J	72	J	400	U	380	U	390
Nitrobenzene	UG/KG	0	0%	200	0	0	28	UJ	75	U	79	U	400	U	380	U	390
Pentachlorophenol	UG/KG	0	0%	1000	0	0	28	UR	180	UR	190	UR	980	U	920	U	940
Phenanthrene	UG/KG	340	18%	50000	0	5	28	U	75	U	130	J	27	J	340	J	390
Phenol	UG/KG	300	7%	30	2	2	28	U	75	U	79	U	300	J	48	J	390
Pyrene	UG/KG	380	18%	50000	0	5	28	UJ	75	UJ	260	J	37	J	380	J	390
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	0	0%	2900	0	0	28	U	3.8	U	4	U	4	U	3.8	U	3.9
4,4'-DDE	UG/KG	42	11%	2100	0	3	28	U	3.8	U	4	U	4	U	2.2	J	3.9
4,4'-DDT	UG/KG	2.1	4%	2100	0	1	28	U	3.8	U	4	U	4	U	3.8	U	2.1
Aldrin	UG/KG	0.79	4%	41	0	1	28	U	1.9	U	2	U	0.79	J	2	U	2
Alpha-BHC	UG/KG	24	7%	110	0	2	28	U	2.8	U	24	U	2.1	U	2	U	2
Alpha-Chlordane	UG/KG	4.6	7%		0	2	28	U	1.9	U	2	U	2.1	U	1.5	J	2
Aroclor-1016	UG/KG	0	0%		0	0	28	U	38	U	40	U	40	U	38	U	39
Aroclor-1221	UG/KG	0	0%		0	0	28	U	76	U	81	U	82	U	77	U	79
Aroclor-1232	UG/KG	0	0%		0	0	28	U	38	U	40	U	40	U	38	U	39
Aroclor-1242	UG/KG	0	0%		0	0	28	U	38	U	40	U	40	U	38	U	39
Aroclor-1248	UG/KG	0	0%		0	0	28	U	38	U	40	U	40	U	38	U	39
Aroclor-1254	UG/KG	3000	21%	10000	0	6	28	U	38	U	40	U	49	U	73	U	500
Aroclor-1260	UG/KG	150	7%	10000	0	2	28	U	38	U	40	U	40	U	38	U	31
Beta-BHC	UG/KG	2.2	4%	200	0	1	28	U	1.9	U	2.2	J	2.1	U	2	U	2
Delta-BHC	UG/KG	0	0%	300	0	0	28	U	1.9	U	2	U	2.1	U	2	U	2
Dieldrin	UG/KG	40	7%	44	0	2	28	U	3.8	U	4	U	4	U	3.8	U	3.9
Endosulfan I	UG/KG	0	0%	900	0	0	28	U	1.9	U	2	U	2.1	U	2	U	2
Endosulfan II	UG/KG	19	7%	900	0	2	28	U	3.8	U	4	U	4	U	3.8	U	3.9
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	28	U	3.8	U	4	U	4	U	3.8	U	3.9
Endrin	UG/KG	20	14%	100	0	4	28	U	3.8	U	4	U	4	U	3.8	U	3.8
Endrin aldehyde	UG/KG	0	0%		0	0	28	U	3.8	U	4	U	4	U	3.8	U	3.9
Endrin ketone	UG/KG	0	0%		0	0	28	U	3.8	U	4	U	4	U	3.8	U	3.9
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	28	U	1.9	U	2	U	2.1	U	2	U	2



TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12
LOCATION ID									TP12A-2
MATRIX									SOIL
SAMPLE ID									TP12A-2-1
SAMPLE DEPTH TO TOP OF SAMPLE									6
SAMPLE DEPTH TO BOTTOM OF SAMPLE									6
SAMPLE DATE									6/22/1994
QC CODE									SA
STUDY ID									ESI
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	
<b>VOLATILE ORGANICS</b>									
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	29 U	14 U	
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	29 U	14 U	
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	29 U	14 U	
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	29 U	14 U	
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	29 U	14 U	
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	29 U	14 U	
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	29 U	14 U	
1,2-Dichloropropane	UG/KG	0	0%		0	0	29 U	14 U	
Acetone	UG/KG	34	41%	200	0	12	29 U	14 U	
Benzene	UG/KG	6	3%	60	0	1	29 U	14 U	
Bromodichloromethane	UG/KG	0	0%		0	0	29 U	14 U	
Bromoform	UG/KG	0	0%		0	0	29 U	14 U	
Carbon disulfide	UG/KG	0	0%	2700	0	0	29 U	14 U	
Carbon tetrachloride	UG/KG	0	0%	600	0	0	29 U	14 U	
Chlorobenzene	UG/KG	0	0%	1700	0	0	29 U	14 U	
Chlorodibromomethane	UG/KG	0	0%		0	0	29 U	14 U	
Chloroethane	UG/KG	0	0%	1900	0	0	29 U	14 U	
Chloroform	UG/KG	0	0%	300	0	0	29 U	14 U	
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	29 U	14 U	
Ethyl benzene	UG/KG	66	10%	5500	0	3	29 U	14 U	
Methyl bromide	UG/KG	0	0%		0	0	29 U	14 U	
Methyl butyl ketone	UG/KG	0	0%		0	0	29 U	14 U	
Methyl chloride	UG/KG	0	0%		0	0	29 U	14 U	
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	29 U	14 U	
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	29 U	14 U	
Methylene chloride	UG/KG	3	7%	100	0	2	29 U	14 U	
Styrene	UG/KG	33	3%		0	1	29 U	14 U	
Tetrachloroethene	UG/KG	0	0%	1400	0	0	29 U	14 U	
Toluene	UG/KG	15	34%	1500	0	10	29 U	14 U	
Total Xylenes	UG/KG	520	10%	1200	0	3	29 U	14 U	

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12A-2 SOIL TP12A-2-1	6	6	6/22/1994	SA ESI	N
PARAMETER	UNIT	MAXIMU																	
Trans-1,3-Dichloropropene	UG/KG	0	0%							0	0	0	29 U						14 U
Trichloroethene	UG/KG	26	14%	700						0	4	29 U							14 U
Vinyl chloride	UG/KG	0	0%	200						0	0	29 U							14 U
<b>SEMI VOLATILE ORGANICS</b>																			
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400						0	0	0	28 U						4500 U
1,2-Dichlorobenzene	UG/KG	0	0%	7900						0	0	0	28 U						4500 U
1,3-Dichlorobenzene	UG/KG	0	0%	1600						0	0	0	28 U						4500 U
1,4-Dichlorobenzene	UG/KG	0	0%	8500						0	0	0	28 U						4500 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%							0	0	0	4 U						4500 U
2,4,5-Trichlorophenol	UG/KG	0	0%	100						0	0	0	28 U						11000 U
2,4,6-Trichlorophenol	UG/KG	0	0%							0	0	0	28 U						4500 U
2,4-Dichlorophenol	UG/KG	0	0%	400						0	0	0	28 U						4500 U
2,4-Dimethylphenol	UG/KG	25	4%							0	1	0	28 U						4500 U
2,4-Dinitrophenol	UG/KG	0	0%	200						0	0	0	28 U						11000 U
2,4-Dinitrotoluene	UG/KG	0	0%							0	0	0	28 U						4500 U
2,6-Dinitrotoluene	UG/KG	0	0%	1000						0	0	0	28 U						4500 U
2-Chloronaphthalene	UG/KG	0	0%							0	0	0	28 U						4500 U
2-Chlorophenol	UG/KG	0	0%	800						0	0	0	28 U						4500 U
2-Methylnaphthalene	UG/KG	56	11%	36400						0	3	0	28 U						4500 U
2-Methylphenol	UG/KG	0	0%	100						0	0	0	28 U						4500 U
2-Nitroaniline	UG/KG	0	0%	430						0	0	0	28 U						11000 U
2-Nitrophenol	UG/KG	0	0%	330						0	0	0	28 U						4500 U
3,3'-Dichlorobenzidine	UG/KG	0	0%							0	0	0	28 U						4500 U
3-Nitroaniline	UG/KG	0	0%	500						0	0	0	28 U						11000 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%							0	0	0	28 U						11000 U
4-Bromophenyl phenyl ether	UG/KG	0	0%							0	0	0	28 U						4500 U
4-Chloro-3-methylphenol	UG/KG	0	0%	240						0	0	0	28 U						4500 U
4-Chloroaniline	UG/KG	0	0%	220						0	0	0	28 U						4500 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%							0	0	0	28 U						4500 U
4-Methylphenol	UG/KG	140	4%	900						0	1	0	28 U						4500 U
4-Nitroaniline	UG/KG	0	0%							0	0	0	28 U						11000 U

TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12
LOCATION ID								TP12A-2
MATRIX								SOIL
SAMPLE ID								TP12A-2-1
SAMPLE DEPTH TO TOP OF SAMPLE								6
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6
SAMPLE DATE								6/22/1994
QC CODE								SA
STUDY ID								ESI
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N
4-Nitrophenol	UG/KG	0	0%	100	0	0	28 U	11000 U
Acenaphthene	UG/KG	23	4%	50000	0	1	28 U	4500 U
Acenaphthylene	UG/KG	33	4%	41000	0	1	28 U	4500 U
Anthracene	UG/KG	96	11%	50000	0	3	28 U	4500 U
Benzo(a)anthracene	UG/KG	180	14%	224	0	4	28 U	4500 U
Benzo(a)pyrene	UG/KG	200	14%	61	1	4	28 U	4500 U
Benzo(b)fluoranthene	UG/KG	190	14%	1100	0	4	28 U	4500 U
Benzo(ghi)perylene	UG/KG	120	7%	50000	0	2	28 U	4500 U
Benzo(k)fluoranthene	UG/KG	160	11%	1100	0	3	28 U	4500 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	28 U	4500 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	28 U	4500 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	24	
Bis(2-Ethylhexyl)phthalate	UG/KG	930	25%	50000	0	7	28 U	4500 U
Butylbenzylphthalate	UG/KG	5.1	4%	50000	0	1	28 U	4500 U
Carbazole	UG/KG	0	0%		0	0	28 U	4500 U
Chrysene	UG/KG	240	14%	400	0	4	28 U	4500 U
Di-n-butylphthalate	UG/KG	1700	11%	8100	0	3	28 U	4500 U
Di-n-octylphthalate	UG/KG	54	43%	50000	0	12	28 U	4500 U
Dibenz(a,h)anthracene	UG/KG	57	7%	14	1	2	28 U	4500 U
Dibenzofuran	UG/KG	0	0%	6200	0	0	28 U	4500 U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	28 U	4500 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	28 U	4500 U
Fluoranthene	UG/KG	420	21%	50000	0	6	28 U	4500 U
Fluorene	UG/KG	52	7%	50000	0	2	28 U	4500 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	28 U	4500 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	28 U	4500 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	28 U	4500 U
Hexachloroethane	UG/KG	0	0%		0	0	28 U	4500 U
Indeno(1,2,3-cd)pyrene	UG/KG	120	7%	3200	0	2	28 U	4500 U
Isophorone	UG/KG	0	0%	4400	0	0	28 U	4500 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	28 U	4500 U





TABLE G-7  
DISPOSAL PIT A/B METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SA	ESI
FACILITY								SEAD-12	
LOCATION ID								TP12A-2	
MATRIX								SOIL	
SAMPLE ID								TP12A-2-1	
SAMPLE DEPTH TO TOP OF SAMPLE								6	
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	
SAMPLE DATE								6/22/1994	
QC CODE								SA	
STUDY ID								ESI	
								N	
Gamma-Chlordane	UG/KG	58	11%	540	0	3	28	J	4.7 U
Heptachlor	UG/KG	13	7%	100	0	2	28	U	4.7 U
Heptachlor epoxide	UG/KG	22	7%	20	1	2	28	U	4.7 U
Methoxychlor	UG/KG	0	0%	0	0	0	28	U	47 U
Toxaphene	UG/KG	0	0%	0	0	0	28	U	470 U
<b>METALS</b>									
Aluminum	MG/KG	17100	100%	19520	0	28	28		10900
Antimony	MG/KG	7.2	25%	6	1	7	28	J	7.2 J
Arsenic	MG/KG	5.9	100%	8.9	0	28	28		4.7
Barium	MG/KG	125	100%	300	0	28	28		81
Beryllium	MG/KG	0.74	100%	1.13	0	28	28	J	0.74 J
Cadmium	MG/KG	94.3	36%	2.46	7	10	28		27.3
Calcium	MG/KG	142000	100%	125300	1	28	28		77700
Chromium	MG/KG	83.3	100%	30	4	28	28		16.5
Cobalt	MG/KG	26.5	100%	30	0	28	28		13.1
Copper	MG/KG	215	100%	33	5	28	28		43.6
Cyanide	MG/KG	1.5	7%	0.35	2	2	28	U	0.63 U
Iron	MG/KG	35700	100%	37410	0	28	28		19000
Lead	MG/KG	366	100%	24.4	3	28	28		20
Magnesium	MG/KG	34300	100%	21700	1	28	28		5360
Manganese	MG/KG	631	100%	1100	0	28	28		502
Mercury	MG/KG	0.06	18%	0.1	0	5	28	J	0.04 J
Nickel	MG/KG	201	93%	50	2	26	28		39
Potassium	MG/KG	2090	100%	2623	0	28	28	J	1530 J
Selenium	MG/KG	1.2	18%	2	0	5	28		1.2
Silver	MG/KG	11.9	14%	0.8	2	4	28	J	0.49 J
Sodium	MG/KG	134	57%	188	0	16	28	J	46.2 J
Thallium	MG/KG	1.7	25%	0.855	5	7	28	J	0.98 J
Vanadium	MG/KG	25.6	100%	150	0	28	28		17.9
Zinc	MG/KG	424	100%	115	3	28	28		93.3

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TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID								MW12-14	MW12-15	MW12-33	MW12-34	MW12-7	SS12-150
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								123099	123028	123195	123198	123180	123345
SAMPLE DEPTH TO TOP OF SAMPLE								0	0	0	0	0	0
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								14-Oct-98	01-Oct-98	31-Oct-98	31-Oct-98	28-Oct-98	17-Nov-98
QC CODE								SA	SA	SA	SA	SA	SA
STUDY ID								RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	MAXIMU	DETECTION	FREQUENCY OF TAGM 4046	NYSDEC ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE (Q)	VALUE (Q)	VALUE (Q)	VALUE (Q)	VALUE (Q)	VALUE (Q)
<b>VOLATILE ORGANICS</b>													
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	3	9	14 U	11 U	12 U	13 U	13 U	13 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Acetone	UG/KG	15	56%	200	0	5	9	14 U	11 U	15	8 J	7 J	7 J
Benzene	UG/KG	0	0%	60	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Bromodichloromethane	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Bromoform	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Chlorodibromomethane	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Chloroethane	UG/KG	0	0%	1900	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Chloroform	UG/KG	0	0%	300	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Methyl bromide	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Methyl butyl ketone	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Methyl chloride	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Methylene chloride	UG/KG	0	0%	100	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Styrene	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Toluene	UG/KG	0	0%	1500	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Total Xylenes	UG/KG	0	0%	1200	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Trichloroethene	UG/KG	0	0%	700	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
Vinyl chloride	UG/KG	0	0%	200	0	0	9	14 U	11 U	12 U	13 U	13 U	13 U
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	9	85 U	73 U	86 U	81 U	85 U	84 U

TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOCATION ID								MW12-14	MW12-15	MW12-33	MW12-34	MW12-7	SS12-150		
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID								123099	123028	123195	123198	123180	123345		
SAMPLE DEPTH TO TOP OF SAMPLE								0	0	0	0	0	0		
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2	0.2		
SAMPLE DATE								14-Oct-98	01-Oct-98	31-Oct-98	31-Oct-98	28-Oct-98	17-Nov-98		
QC CODE								SA	SA	SA	SA	SA	SA		
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
PARAMETER	UNIT	MAXIMU	DETECTION	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	9	85	U	73	U	86	U	81	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	9	85	U	73	U	86	U	81	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	9	85	U	73	U	86	U	81	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	9	200	U	180	U	210	U	200	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	9	85	U	73	U	86	U	81	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	9	85	UJ	73	UJ	86	U	81	U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	9	200	UJ	180	UJ	210	UJ	200	U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	9	85	U	73	U	86	U	81	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	9	85	U	73	UJ	86	U	81	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	9	85	U	73	U	86	U	81	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	9	85	U	73	UJ	86	U	81	U
2-Methylphenol	UG/KG	0	0%	100	0	0	9	85	U	73	U	86	U	81	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	9	200	U	180	U	210	U	200	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	9	85	U	73	U	86	U	81	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	9	85	U	73	U	86	UJ	81	UJ
3-Nitroaniline	UG/KG	0	0%	500	0	0	9	200	U	180	UJ	210	U	200	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	9	200	U	180	UJ	210	UJ	200	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	9	85	U	73	U	86	U	81	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	9	85	UJ	73	UJ	86	U	81	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U
4-Methylphenol	UG/KG	0	0%	900	0	0	9	85	U	73	U	86	U	81	U
4-Nitroaniline	UG/KG	0	0%		0	0	9	200	UJ	180	U	210	U	200	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	9	200	UJ	180	UJ	210	U	200	U
Acenaphthene	UG/KG	0	0%	50000	0	0	9	85	U	73	U	86	U	81	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	9	85	U	73	UJ	86	U	81	U
Anthracene	UG/KG	4.6	11%	50000	0	1	9	85	U	73	U	86	U	81	U
Benzo(a)anthracene	UG/KG	20	56%	224	0	5	9	85	U	73	U	20	J	9.8	J
Benzo(a)pyrene	UG/KG	20	67%	61	0	6	9	85	U	73	U	20	J	6.7	J
Benzo(b)fluoranthene	UG/KG	28	67%	1100	0	6	9	85	U	73	U	28	J	12	J
Benzo(ghi)perylene	UG/KG	18	44%	50000	0	4	9	85	U	73	U	18	J	9	J
Benzo(k)fluoranthene	UG/KG	19	56%	1100	0	5	9	85	U	73	U	19	J	11	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U
Bis(2-Ethylhexyl)phthalate	UG/KG	5.8	11%	50000	0	1	9	85	UJ	5.8	J	86	U	100	U
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	9	85	UJ	73	U	86	U	81	U
Carbazole	UG/KG	6.4	11%		0	1	9	85	UJ	73	UJ	86	UJ	81	UJ
Chrysene	UG/KG	27	89%	400	0	8	9	5.9	J	4.5	J	27	J	13	J
Di-n-butylphthalate	UG/KG	4.5	22%	8100	0	2	9	85	U	4.5	J	86	U	81	U
Di-n-octylphthalate	UG/KG	7.3	11%	50000	0	1	9	85	UJ	73	U	86	U	7.3	J
Dibenz(a,h)anthracene	UG/KG	5.8	22%	14	0	2	9	85	U	73	U	5.8	J	81	U

TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID								MW12-14		MW12-15		MW12-33		MW12-34		MW12-7		SS12-150	
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID								123099		123028		123195		123198		123180		123345	
SAMPLE DEPTH TO TOP OF SAMPLE								0		0		0		0		0		0	
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2		0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE								14-Oct-98		01-Oct-98		31-Oct-98		31-Oct-98		28-Oct-98		17-Nov-98	
QC CODE								SA		SA		SA		SA		SA		SA	
STUDY ID																			
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1
			OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Dibenzofuran	UG/KG	0	0%	6200	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	9	85	U	73	UJ	86	U	81	U	85	U	84	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Fluoranthene	UG/KG	40	67%	50000	0	6	9	85	U	73	U	40	J	19	J	11	J	22	J
Fluorene	UG/KG	0	0%	50000	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	9	85	UJ	73	U	86	U	81	U	85	U	84	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	9	85	U	73	U	86	UJ	81	U	85	U	84	UJ
Hexachloroethane	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Indeno(1,2,3-cd)pyrene	UG/KG	15	44%	3200	0	4	9	85	U	73	U	15	J	8.9	J	6	J	84	U
Isophorone	UG/KG	0	0%	4400	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Naphthalene	UG/KG	0	0%	13000	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Nitrobenzene	UG/KG	0	0%	200	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	9	200	UJ	180	U	210	UJ	200	U	210	U	200	UR
Phenanthrene	UG/KG	21	78%	50000	0	7	9	6	J	73	U	21	J	9.4	J	6.6	J	19	J
Phenol	UG/KG	0	0%	30	0	0	9	85	U	73	U	86	U	81	U	85	U	84	U
Pyrene	UG/KG	40	67%	50000	0	6	9	85	U	73	U	40	J	20	J	13	J	20	J
PESTICIDES/PCBS																			
4,4'-DDD	UG/KG	8.6	11%	2900	0	1	9	8.6		3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
4,4'-DDE	UG/KG	0	0%	2100	0	0	9	4.2	U	3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
4,4'-DDT	UG/KG	2.2	11%	2100	0	1	9	4.2	U	3.7	U	2.2	J	4.1	U	4.3	U	4.2	U
Aldrin	UG/KG	0	0%	41	0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U
Alpha-BHC	UG/KG	0	0%	110	0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U
Alpha-Chlordane	UG/KG	0	0%		0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U
Aroclor-1016	UG/KG	0	0%		0	0	9	42	U	37	U	43	U	41	U	43	U	42	U
Aroclor-1221	UG/KG	0	0%		0	0	9	86	U	74	U	87	U	83	U	87	U	85	U
Aroclor-1232	UG/KG	0	0%		0	0	9	42	U	37	U	43	U	41	U	43	U	42	U
Aroclor-1242	UG/KG	0	0%		0	0	9	42	U	37	U	43	U	41	U	43	U	42	U
Aroclor-1248	UG/KG	0	0%		0	0	9	42	U	37	U	43	U	41	U	43	U	42	U
Aroclor-1254	UG/KG	0	0%	10000	0	0	9	42	U	37	U	43	U	41	U	43	U	42	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	9	42	U	37	U	43	U	41	U	43	U	42	U
Beta-BHC	UG/KG	0	0%	200	0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U
Delta-BHC	UG/KG	0	0%	300	0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U
Dieldrin	UG/KG	0	0%	44	0	0	9	4.2	U	3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
Endosulfan I	UG/KG	0	0%	900	0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U
Endosulfan II	UG/KG	0	0%	900	0	0	9	4.2	U	3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	9	4.2	U	3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
Endrin	UG/KG	0	0%	100	0	0	9	4.2	U	3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
Endrin aldehyde	UG/KG	0	0%		0	0	9	4.2	U	3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
Endrin ketone	UG/KG	0	0%		0	0	9	4.2	U	3.7	U	4.3	U	4.1	U	4.3	U	4.2	U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	9	2.2	U	1.9	U	2.2	U	2.1	U	2.2	U	2.2	U

TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12									
LOCATION ID								MW12-14		MW12-15		MW12-33		MW12-34		MW12-7		SS12-150									
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL		SOIL									
SAMPLE ID								123099		123028		123195		123198		123180		123345									
SAMPLE DEPTH TO TOP OF SAMPLE								0		0		0		0		0		0									
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2		0.2		0.2		0.2		0.2		0.2									
SAMPLE DATE								14-Oct-98		01-Oct-98		31-Oct-98		31-Oct-98		28-Oct-98		17-Nov-98									
QC CODE								SA		SA		SA		SA		SA		SA									
STUDY ID				FREQUENCY		NYSDEC		NUMBER		NUMBER		NUMBER		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1									
PARAMETER		UNIT		MAXIMU		DETECTION		OF TAGM		ABOVE TAGM		NUMBER OF DETECTS		NUMBER OF ANALYSES		VALUE (Q)		VALUE (Q)		VALUE (Q)		VALUE (Q)		VALUE (Q)		VALUE (Q)	
Heptachlor		UG/KG		0		0%		100		0		0		9		2.2 U		1.9 U		2.2 U		2.1 U		2.2 U		2.2 U	
Heptachlor epoxide		UG/KG		0		0%		20		0		0		9		2.2 U		1.9 U		2.2 U		2.1 U		2.2 U		2.2 U	
Methoxychlor		UG/KG		0		0%		0		0		0		9		22 U		19 U		22 U		21 U		22 U		22 U	
Toxaphene		UG/KG		0		0%		0		0		0		9		220 U		190 U		220 U		210 U		220 U		220 U	
<b>METALS</b>																											
Aluminum		MG/KG		14100		100%		19520		0		9		9		12000 J		6480		14100		10200		12400		12800 J	
Antimony		MG/KG		0		0%		6		0		0		9		1.4 UR		1.2 UR		1.3 UR		1.4 UJ		1.6 UR		1 UR	
Arsenic		MG/KG		4.3		100%		8.9		0		9		9		4.3 J		3.1		3.9		2.9		4.1		3.9 J	
Barium		MG/KG		108		100%		300		0		9		9		90.7		58		94.6		93.8		81.6		102	
Beryllium		MG/KG		0.69		100%		1.13		0		9		9		0.51 J		0.26 J		0.69 J		0.47 J		0.63 J		0.52 J	
Cadmium		MG/KG		0		0%		2.46		0		0		9		0.07 U		0.06 U		0.38 U		0.07 U		0.46 U		0.3 U	
Calcium		MG/KG		75900		100%		125300		0		9		9		2620 J		75900 J		7570		11000		3720		16200	
Chromium		MG/KG		21.6		100%		30		0		9		9		16.5		11.2		21.6 J		15.1		16.5 J		16.4	
Cobalt		MG/KG		11		100%		30		0		9		9		11		7.7 J		10.7 J		9.5 J		9 J		7.7 J	
Copper		MG/KG		22.1		100%		33		0		9		9		14.6		17.2		20.8		15.8		15.7		16.1	
Cyanide		MG/KG		0		0%		0.35		0		0		9		0.68 U		0.56 UJ		0.72 U		0.65 U		0.66 U		0.66 U	
Iron		MG/KG		23200		100%		37410		0		9		9		23200		15400		22700 J		20800 J		20300		20300 J	
Lead		MG/KG		24.9		100%		24.4		1		9		9		18.6 J		6.7 J		12.2 J		16.3 J		16 J		15	
Magnesium		MG/KG		18600		100%		21700		0		9		9		3070 J		18600		4570		4930		3200		5130	
Manganese		MG/KG		700		100%		1100		0		9		9		693		389		700		632 J		640		502	
Mercury		MG/KG		0.06		11%		0.1		0		1		9		0.06 U		0.05 U		0.06 U		0.06 J		0.06 U		0.05 U	
Nickel		MG/KG		27.6		78%		50		0		7		9		19.5 J		21.9		22.1 UJ		21.4		17.2 UJ		18.7	
Potassium		MG/KG		1980		100%		2623		0		9		9		1110 J		891 J		1980		1010 J		1280		1500	
Selenium		MG/KG		0.95		56%		2		0		5		9		1 U		0.9 UJ		0.95 J		1.1 UJ		0.84 J		0.43 J	
Silver		MG/KG		0		0%		0.8		0		0		9		0.27 U		0.23 U		0.26 U		0.28 U		0.31 U		0.2 U	
Sodium		MG/KG		92.4		33%		188		0		3		9		57.5 U		92.4 J		53.8 U		58.5 U		64.2 U		72.3 J	
Thallium		MG/KG		1.7		33%		0.855		3		3		9		1 J		1.3 U		1.3 J		1.3 J		1.3 U		0.88 U	
Vanadium		MG/KG		24.6		100%		150		0		9		9		21.8		12.2		24.6		18.9		21.8		21.8	
Zinc		MG/KG		97.3		100%		115		0		9		9		57.6 J		43.5		97.3 J		55.6 J		54.2 J		52.5 J	



TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12					
LOCATION ID								SS12-155	SS12-155	SS12-18					
MATRIX								SOIL	SOIL	SOIL					
SAMPLE ID								123350	123479	123103					
SAMPLE DEPTH TO TOP OF SAMPLE								0	0	0					
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2	0.2	0.2					
SAMPLE DATE								17-Nov-98	17-Nov-98	13-Oct-98					
QC CODE								SA	SA	SA					
STUDY ID								FREQUENCY OF DETECTION	NYSDEC TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE 1 STEP 1 VALUE (Q)	RI PHASE 1 STEP 1 VALUE (Q)	RI PHASE 1 STEP 1 VALUE (Q)
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)		
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	9	13	U	14	U	12	U		
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	9	13	UJ	14	U	12	U		
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	9	13	U	14	U	12	U		
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	9	13	U	14	U	12	U		
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	9	13	U	14	U	12	U		
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
1,2-Dichloropropane	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Acetone	UG/KG	15	56%	200	0	5	9	13	U	8	J	12	U		
Benzene	UG/KG	0	0%	60	0	0	9	13	U	14	U	12	U		
Bromodichloromethane	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Bromoform	UG/KG	0	0%		0	0	9	13	UJ	14	U	12	U		
Carbon disulfide	UG/KG	0	0%	2700	0	0	9	13	U	14	U	12	U		
Carbon tetrachloride	UG/KG	0	0%	600	0	0	9	13	U	14	U	12	U		
Chlorobenzene	UG/KG	0	0%	1700	0	0	9	13	UJ	14	U	12	U		
Chlorodibromomethane	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Chloroethane	UG/KG	0	0%	1900	0	0	9	13	U	14	U	12	U		
Chloroform	UG/KG	0	0%	300	0	0	9	13	U	14	U	12	U		
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Ethyl benzene	UG/KG	0	0%	5500	0	0	9	13	UJ	14	U	12	U		
Methyl bromide	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Methyl butyl ketone	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Methyl chloride	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	9	13	U	14	U	12	U		
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	9	13	U	14	U	12	U		
Methylene chloride	UG/KG	0	0%	100	0	0	9	13	U	14	U	12	U		
Styrene	UG/KG	0	0%		0	0	9	13	UJ	14	U	12	U		
Tetrachloroethene	UG/KG	0	0%	1400	0	0	9	13	U	14	U	12	U		
Toluene	UG/KG	0	0%	1500	0	0	9	13	U	14	U	12	U		
Total Xylenes	UG/KG	0	0%	1200	0	0	9	13	UJ	14	U	12	U		
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	9	13	U	14	U	12	U		
Trichloroethene	UG/KG	0	0%	700	0	0	9	13	U	14	U	12	U		
Vinyl chloride	UG/KG	0	0%	200	0	0	9	13	U	14	U	12	U		
<b>SEMI VOLATILE ORGANICS</b>															
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	9	82	U	81	U	75	U		

TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY									SEAD-12	SEAD-12	SEAD-12
LOCATION ID									SS12-155	SS12-155	SS12-18
MATRIX									SOIL	SOIL	SOIL
SAMPLE ID									123350	123479	123103
SAMPLE DEPTH TO TOP OF SAMPLE									0	0	0
SAMPLE DEPTH TO BOTTOM OF SAMPLE									0.2	0.2	0.2
SAMPLE DATE									17-Nov-98	17-Nov-98	13-Oct-98
QC CODE									SA	SA	SA
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)
			DETECTION	4046	TAGM	DETECTS	ANALYSES				
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	9	82 U		81 U	75 U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	9	82 U		81 U	75 U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	9	82 U		81 U	75 U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	9	200 U		200 U	180 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	9	82 U		81 U	75 U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	9	82 U		81 U	75 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	9	82 UJ		81 UJ	75 U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	9	200 UR		200 UJ	180 UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	9	82 U		81 U	75 U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	9	82 U		81 U	75 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	9	82 U		81 U	75 U
2-Chlorophenol	UG/KG	0	0%	800	0	0	9	82 U		81 U	75 U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	9	82 U		81 U	75 U
2-Methylphenol	UG/KG	0	0%	100	0	0	9	82 U		81 U	75 U
2-Nitroaniline	UG/KG	0	0%	430	0	0	9	200 U		200 U	180 U
2-Nitrophenol	UG/KG	0	0%	330	0	0	9	82 U		81 UJ	75 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	9	82 UJ		81 U	75 UJ
3-Nitroaniline	UG/KG	0	0%	500	0	0	9	200 U		200 UJ	180 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	9	200 UJ		200 UJ	180 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	9	82 U		81 U	75 U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	9	82 U		81 U	75 U
4-Chloroaniline	UG/KG	0	0%	220	0	0	9	82 UJ		81 UJ	75 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	9	82 U		81 U	75 U
4-Methylphenol	UG/KG	0	0%	900	0	0	9	82 U		81 U	75 U
4-Nitroaniline	UG/KG	0	0%		0	0	9	200 U		200 UJ	180 UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	9	200 U		200 U	180 UJ
Acenaphthene	UG/KG	0	0%	50000	0	0	9	82 U		81 U	75 U
Acenaphthylene	UG/KG	0	0%	41000	0	0	9	82 U		81 U	75 U
Anthracene	UG/KG	4.6	11%	50000	0	1	9	82 U		81 U	75 U
Benzo(a)anthracene	UG/KG	20	56%	224	0	5	9	82 U		11 J	75 U
Benzo(a)pyrene	UG/KG	20	67%	61	0	6	9	4.2 J		13 J	75 UJ
Benzo(b)fluoranthene	UG/KG	28	67%	1100	0	6	9	9 J		12 J	75 U
Benzo(ghi)perylene	UG/KG	18	44%	50000	0	4	9	82 U		12 J	75 U
Benzo(k)fluoranthene	UG/KG	19	56%	1100	0	5	9	82 U		14 J	75 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	9	82 U		81 U	75 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	9	82 UJ		81 U	75 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	9	82 U		81 U	75 U
Bis(2-Ethylhexyl)phthalate	UG/KG	5.8	11%	50000	0	1	9	82 UJ		81 UJ	75 U
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	9	82 UJ		81 UJ	75 U
Carbazole	UG/KG	6.4	11%		0	1	9	82 UJ		6.4 J	75 U
Chrysene	UG/KG	27	89%	400	0	8	9	5.1 J		13 J	75 U
Di-n-butylphthalate	UG/KG	4.5	22%	8100	0	2	9	82 U		81 U	75 U
Di-n-octylphthalate	UG/KG	7.3	11%	50000	0	1	9	82 UJ		81 U	75 U
Dibenz(a,h)anthracene	UG/KG	5.8	22%	14	0	2	9	82 U		5.6 J	75 U

TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12		SEAD-12		SEAD-12		
LOCATION ID								SS12-155		SS12-155		SS12-18		
MATRIX								SOIL		SOIL		SOIL		
SAMPLE ID								123350		123479		123103		
SAMPLE DEPTH TO TOP OF SAMPLE								0		0		0		
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2		0.2		0.2		
SAMPLE DATE								17-Nov-98		17-Nov-98		13-Oct-98		
QC CODE								SA		SA		SA		
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	ABOVE	DETECTS	ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Dibenzofuran	UG/KG	0	0%	6200	0	0	0	9	82	U	81	U	75	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	0	9	82	U	81	U	75	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	0	9	82	U	81	U	75	U
Fluoranthene	UG/KG	40	67%	50000	0	6	9	7.2	J		20	J	75	U
Fluorene	UG/KG	0	0%	50000	0	0	0	9	82	U	81	U	75	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	0	9	82	U	81	U	75	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	0	9	82	U	81	U	75	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	0	9	82	UJ	81	UJ	75	U
Hexachloroethane	UG/KG	0	0%		0	0	0	9	82	U	81	U	75	U
Indeno(1,2,3-cd)pyrene	UG/KG	15	44%	3200	0	4	9	82	U		12	J	75	U
Isophorone	UG/KG	0	0%	4400	0	0	0	9	82	U	81	U	75	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	0	9	82	U	81	U	75	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	0	9	82	U	81	U	75	U
Naphthalene	UG/KG	0	0%	13000	0	0	0	9	82	U	81	U	75	U
Nitrobenzene	UG/KG	0	0%	200	0	0	0	9	82	U	81	U	75	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	0	9	200	UR	200	UR	180	UJ
Phenanthrene	UG/KG	21	78%	50000	0	7	9	4.6	J		11	J	75	U
Phenol	UG/KG	0	0%	30	0	0	0	9	82	U	81	U	75	U
Pyrene	UG/KG	40	67%	50000	0	6	9	7.5	J		15	J	75	U
PESTICIDES/PCBS														
4,4'-DDD	UG/KG	8.6	11%	2900	0	1	9	4.1	U		4.1	U	3.8	U
4,4'-DDE	UG/KG	0	0%	2100	0	0	0	9	4.1	U	4.1	U	3.8	U
4,4'-DDT	UG/KG	2.2	11%	2100	0	1	9	4.1	U		4.1	U	3.8	U
Aldrin	UG/KG	0	0%	41	0	0	0	9	2.1	U	2.1	U	1.9	U
Alpha-BHC	UG/KG	0	0%	110	0	0	0	9	2.1	U	2.1	U	1.9	U
Alpha-Chlordane	UG/KG	0	0%		0	0	0	9	2.1	U	2.1	U	1.9	U
Aroclor-1016	UG/KG	0	0%		0	0	0	9	41	U	41	U	38	U
Aroclor-1221	UG/KG	0	0%		0	0	0	9	84	U	83	U	76	U
Aroclor-1232	UG/KG	0	0%		0	0	0	9	41	U	41	U	38	U
Aroclor-1242	UG/KG	0	0%		0	0	0	9	41	U	41	U	38	U
Aroclor-1248	UG/KG	0	0%		0	0	0	9	41	U	41	U	38	U
Aroclor-1254	UG/KG	0	0%	10000	0	0	0	9	41	U	41	U	38	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	0	9	41	U	41	U	38	U
Beta-BHC	UG/KG	0	0%	200	0	0	0	9	2.1	U	2.1	U	1.9	U
Delta-BHC	UG/KG	0	0%	300	0	0	0	9	2.1	U	2.1	U	1.9	U
Dieldrin	UG/KG	0	0%	44	0	0	0	9	4.1	U	4.1	U	3.8	U
Endosulfan I	UG/KG	0	0%	900	0	0	0	9	2.1	U	2.1	U	1.9	U
Endosulfan II	UG/KG	0	0%	900	0	0	0	9	4.1	U	4.1	U	3.8	U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	0	9	4.1	U	4.1	U	3.8	U
Endrin	UG/KG	0	0%	100	0	0	0	9	4.1	U	4.1	U	3.8	U
Endrin aldehyde	UG/KG	0	0%		0	0	0	9	4.1	U	4.1	U	3.8	U
Endrin ketone	UG/KG	0	0%		0	0	0	9	4.1	U	4.1	U	3.8	U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	0	9	2.1	U	2.1	U	1.9	U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	0	9	2.1	U	2.1	U	1.9	U

TABLE G-8  
DISPOSAL PIT C METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12			
LOCATION ID								SS12-155	SS12-155	SS12-18			
MATRIX								SOIL	SOIL	SOIL			
SAMPLE ID								123350	123479	123103			
SAMPLE DEPTH TO TOP OF SAMPLE								0	0	0			
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.2	0.2	0.2			
SAMPLE DATE								17-Nov-98	17-Nov-98	13-Oct-98			
QC CODE								SA	SA	SA			
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1			
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Heptachlor	UG/KG	0	0%	100	0	0	9	2.1	U	2.1	U	1.9	U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	9	2.1	U	2.1	U	1.9	U
Methoxychlor	UG/KG	0	0%		0	0	9	21	U	21	U	19	U
Toxaphene	UG/KG	0	0%		0	0	9	210	U	210	U	190	U
<b>METALS</b>													
Aluminum	MG/KG	14100	100%	19520	0	9	9	13900	J	11600	J	9760	
Antimony	MG/KG	0	0%	6	0	0	9	1.2	UR	1.1	UR	1.2	UR
Arsenic	MG/KG	4.3	100%	8.9	0	9	9	3.8	J	3.5	J	3.8	
Barium	MG/KG	108	100%	300	0	9	9	108		96.8		90.2	
Beryllium	MG/KG	0.69	100%	1.13	0	9	9	0.47	J	0.45	J	0.46	J
Cadmium	MG/KG	0	0%	2.46	0	0	9	0.36	U	0.31	U	0.06	U
Calcium	MG/KG	75900	100%	125300	0	9	9	4400		3960		35700	J
Chromium	MG/KG	21.6	100%	30	0	9	9	17.7		15.4		15.6	
Cobalt	MG/KG	4.1	100%	30	0	9	9	8.6	J	8.2	J	8.9	J
Copper	MG/KG	22.1	100%	33	0	9	9	15.8		15.2		22.1	
Cyanide	MG/KG	0	0%	0.35	0	0	9	0.64	U	0.61	U	0.56	U
Iron	MG/KG	23200	100%	37410	0	9	9	21700	J	20400	J	20200	J
Lead	MG/KG	24.9	100%	24.4	1	9	9	14		14		9.8	
Magnesium	MG/KG	18600	100%	21700	0	9	9	3640		3190		8070	
Manganese	MG/KG	700	100%	1100	0	9	9	690		607		408	
Mercury	MG/KG	0.06	11%	0.1	0	1	9	0.06	U	0.06	U	0.05	U
Nickel	MG/KG	27.8	78%	50	0	7	9	19.6		18.3	J	27.6	
Potassium	MG/KG	1980	100%	2623	0	9	9	1510		1030		989	J
Selenium	MG/KG	0.95	56%	2	0	5	9	0.9	J	0.65	J	0.92	U
Silver	MG/KG	0	0%	0.8	0	0	9	0.24	U	0.21	U	0.24	U
Sodium	MG/KG	92.4	33%	188	0	3	9	50.6	U	43.8	U	91.6	J
Thallium	MG/KG	1.7	33%	0.855	3	3	9	1	U	0.9	U	1	U
Vanadium	MG/KG	24.6	100%	150	0	9	9	22.5		19.1		16.9	
Zinc	MG/KG	97.3	100%	115	0	9	9	58.2	J	51.4	J	54.1	J



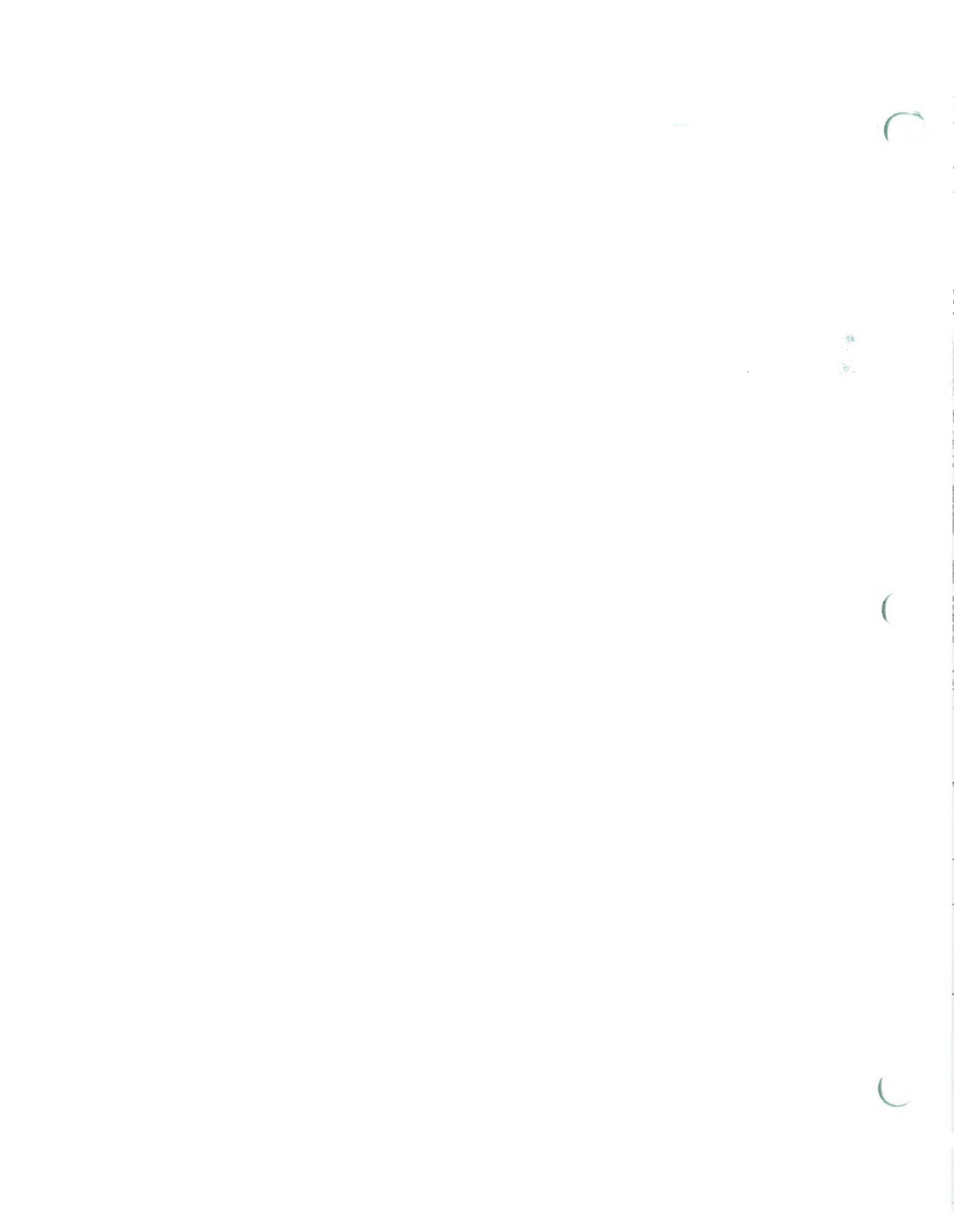


TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-14 SOIL 123100		SEAD-12 MW12-14 SOIL 123101		SEAD-12 MW12-15 SOIL 123029		SEAD-12 MW12-15 SOIL 123030		SEAD-12 MW12-33 SOIL 123196		SEAD-12 MW12-33 SOIL 123197		SEAD-12 MW12-34 SOIL 123199		
								RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE
<b>Volatile Organics</b>								VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	42	11 UJ		11 UJ		11 UR		11 UJ		11 U		11 UJ		11 UJ		12 U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
1,1-Dichloroethane	UG/K	0	0%	400	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
1,2-Dichloroethane (total)	UG/K	0	0%		0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
1,2-Dichloropropane	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Acetone	UG/K	61	21%	200	0	9	42	14 UJ		14 UJ		9 J		11 UJ		15		10 J		13		
Benzene	UG/K	0	0%	60	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Bromodichloromethane	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Bromoform	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UR		11 UJ		11 U		11 UJ		11 UJ		12 U
Carbon disulfide	UG/K	0	0%	2700	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Carbon tetrachloride	UG/K	0	0%	800	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Chlorobenzene	UG/K	5	5%	1700	0	2	42	11 UJ		11 UJ		11 UR		11 UJ		11 U		11 UJ		11 UJ		12 U
Chlorodibromomethane	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Chloroethane	UG/K	0	0%	1900	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Chloroform	UG/K	0	0%	300	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Ethyl benzene	UG/K	0	0%	5500	0	0	42	11 UJ		11 UJ		11 UR		11 UJ		11 U		11 UJ		11 UJ		12 U
Methyl bromide	UG/K	0	0%		0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Methyl butyl ketone	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Methyl chloride	UG/K	0	0%		0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Methyl ethyl ketone	UG/K	0	0%	300	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Methylene chloride	UG/K	180	12%	100	1	5	42	11 U		11 UJ		11 U		11 U		11 U		11 UJ		11 UJ		12 U
Styrene	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UR		11 UJ		11 U		11 UJ		11 UJ		12 U
Tetrachloroethene	UG/K	2	2%	1400	0	1	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Toluene	UG/K	62	14%	1500	0	6	42	11 UJ		7 J		10 J		62		11 U		11 UJ		11 UJ		12 U
Total Xylenes	UG/K	14	2%	1200	0	1	42	11 UJ		11 UJ		11 UR		11 UJ		11 U		11 UJ		11 UJ		12 U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Trichloroethene	UG/K	2	2%	700	0	1	42	11 UJ		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
Vinyl chloride	UG/K	0	0%	200	0	0	42	11 U		11 UJ		11 UJ		11 U		11 U		11 UJ		11 UJ		12 U
<b>Semi-Volatile Organics</b>																						
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	42	72 U		73 U		72 U		72 U		74 U		72 U		74 U		74 U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	42	72 U		73 U		72 U		72 U		74 U		72 U		74 U		74 U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	42	72 U		73 U		72 U		72 U		74 U		72 U		74 U		74 U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	42	72 U		73 U		72 U		72 U		74 U		72 U		74 U		74 U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	9															
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	42	170 U		180 U		180 U		170 U		180 U		180 U		180 U		180 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	42	72 U		73 U		72 U		72 U		74 U		72 U		74 U		74 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	42	72 U		73 U		72 U		72 U		74 U		72 U		74 U		74 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	42	72 UJ		73 UJ		72 UJ		72 UJ		74 U		72 U		74 U		74 U





TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY				SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12						
LOCATION ID				MW12-14	MW12-14	MW12-15	MW12-15	MW12-33	MW12-33	MW12-33	MW12-33	MW12-34						
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
SAMPLE ID				123100	123101	123029	123030	123196	123197	123199								
SAMPLE DEPTH TO TOP OF SAMPLE				8	10	6	8	6	10	4								
SAMPLE DEPTH TO BOTTOM OF SAMPLE				10	12	8	10	8	0	6								
SAMPLE DATE				14-Oct-98	14-Oct-98	01-Oct-98	01-Oct-98	31-Oct-98	31-Oct-98	31-Oct-98								
QC CODE				SA	SA	SA	SA	SA	SA	SA								
STUDY ID				FREQUENC	NYSDEC	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER						
				OF	TAGM	ABOVE	OF	OF	OF	OF	OF	OF						
				DETECTION	4046	TAGM	DETECTS	ANALYSES	VALUE	(Q)	VALUE	(Q)						
PARAMETER				AXIMU														
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	0	42	72 U		73 U	72 U	72 U	74 UJ	72 U	74 U		
Hexachloroethane	UG/K	0	0%		0	0	0	42	72 U		73 U	72 U	72 U	74 U	72 U	74 U		
Indeno(1,2,3-cd)pyrene	UG/K	140	31%	3200	0	13	0	42	72 UJ		73 UJ	72 U	72 U	74 U	6.3 J	74 U		
Isophorone	UG/K	0	0%	4400	0	0	0	42	72 U		73 U	72 U	72 U	74 U	72 U	74 U		
N-Nitrosodiphenylamine	UG/K	9500	2%		0	1	0	42	72 U		73 U	72 U	72 U	74 U	72 U	74 U		
N-Nitrosodipropylamine	UG/K	0	0%		0	0	0	42	72 U		73 U	72 U	72 U	74 U	72 U	74 U		
Naphthalene	UG/K	13	2%	13000	0	1	0	42	72 U		73 U	72 U	72 U	74 U	72 U	74 U		
Nitrobenzene	UG/K	0	0%	200	0	0	0	42	72 U		73 U	72 U	72 U	74 U	72 U	74 U		
Pentachlorophenol	UG/K	0	0%	1000	0	0	0	42	170 UJ		180 UJ	180 U	170 U	180 UJ	180 U	180 U		
Phenanthrene	UG/K	280	43%	50000	0	18	0	42	72 U		73 U	72 U	72 U	74 U	6.8 J	74 U		
Phenol	UG/K	0	0%	30	0	0	0	42	72 U		73 U	72 U	72 U	74 U	72 U	74 U		
Pyrene	UG/K	310	48%	50000	0	20	0	42	72 U		73 U	72 U	72 U	74 U	17 J	6.2 J		
<b>Pesticides/ PCBs</b>																		
4,4'-DDD	UG/K	25	10%	2900	0	4	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
4,4'-DDE	UG/K	6.4	17%	2100	0	7	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
4,4'-DDT	UG/K	4.9	19%	2100	0	8	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
Aldrin	UG/K	0	0%	41	0	0	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Alpha-BHC	UG/K	5.8	2%	110	0	1	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Alpha-Chlordane	UG/K	2.6	2%		0	1	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Aroclor-1016	UG/K	0	0%		0	0	0	42	36 U		37 U	36 U	36 U	37 U	36 U	37 U		
Aroclor-1221	UG/K	0	0%		0	0	0	42	73 U		74 U	73 U	73 U	75 U	74 U	75 U		
Aroclor-1232	UG/K	0	0%		0	0	0	42	36 U		37 U	36 U	36 U	37 U	36 U	37 U		
Aroclor-1242	UG/K	0	0%		0	0	0	42	36 U		37 U	36 U	36 U	37 U	36 U	37 U		
Aroclor-1248	UG/K	0	0%		0	0	0	42	36 U		37 U	36 U	36 U	37 U	36 U	37 U		
Aroclor-1254	UG/K	28	2%	10000	0	1	0	42	36 U		37 U	36 U	36 U	37 U	36 U	37 U		
Aroclor-1260	UG/K	25	2%	10000	0	1	0	42	36 U		37 U	25 J	36 U	37 U	36 U	37 U		
Beta-BHC	UG/K	1.7	2%	200	0	1	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Delta-BHC	UG/K	0	0%	300	0	0	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Dieldrin	UG/K	0	0%	44	0	0	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
Endosulfan I	UG/K	0	0%	900	0	0	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Endosulfan II	UG/K	0	0%	900	0	0	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
Endosulfan sulfate	UG/K	0	0%	1000	0	0	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
Endrin	UG/K	0	0%	100	0	0	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
Endrin aldehyde	UG/K	0	0%		0	0	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
Endrin ketone	UG/K	0	0%		0	0	0	42	3.6 U		3.7 U	3.6 U	3.6 U	3.7 U	3.6 U	3.7 U		
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Gamma-Chlordane	UG/K	2.3	5%	540	0	2	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Heptachlor	UG/K	8.4	7%	100	0	3	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Heptachlor epoxide	UG/K	2	2%	20	0	1	0	42	1.8 U		1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U		
Methoxychlor	UG/K	0	0%		0	0	0	42	18 U		19 U	18 U	18 U	19 U	19 U	19 U		
Toxaphene	UG/K	0	0%		0	0	0	42	180 U		190 U	180 U	180 U	190 U	190 U	190 U		
<b>Metals</b>																		
Aluminum	MG/K	18600	100%	19520	0	42	42	6380	J		5990	J	7220	5330	8690	6170	6380	
Antimony	MG/K	0.39	7%	6	0	3	42	1	UR		0.83	UR	1.2	UR	1.1	UR	1	UR



TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-34 SOIL 123200		SEAD-12 MW12-7 SOIL 123181		SEAD-12 MW12-7 SOIL 123182		SEAD-12 TP12-23A SOIL 123139		SEAD-12 TP12-23B SOIL 123140		SEAD-12 TP12-23C SOIL 123141		SEAD-12 TP12-3A SOIL 123085		
								RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE
<b>Volatile Organics</b>								VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
1,1-Dichloroethene	UG/K	0	0%	400	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
1,2-Dichloroethene (total)	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
1,2-Dichloropropane	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Acetone	UG/K	61	21%	200	0	9	42	9 J		6 J		5 J				18				12 U		11 U
Benzene	UG/K	0	0%	60	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Bromodichloromethane	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Bromoform	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Carbon disulfide	UG/K	0	0%	2700	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Carbon tetrachloride	UG/K	0	0%	600	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Chlorobenzene	UG/K	5	5%	1700	0	2	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Chlorodibromomethane	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Chloroethane	UG/K	0	0%	1900	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Chloroform	UG/K	0	0%	300	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Ethyl benzene	UG/K	0	0%	5500	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Methyl bromide	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Methyl butyl ketone	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Methyl chloride	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Methyl ethyl ketone	UG/K	0	0%	300	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Methylene chloride	UG/K	180	12%	100	1	5	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		2 J
Styrene	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Tetrachloroethane	UG/K	2	2%	1400	0	1	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Toluene	UG/K	62	14%	1500	0	6	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		6 J
Total Xylenes	UG/K	14	2%	1200	0	1	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Trichloroethane	UG/K	2	2%	700	0	1	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
Vinyl chloride	UG/K	0	0%	200	0	0	42	11 U		12 U		11 U		11 U		11 U		11 U		12 U		11 U
<b>Semi-Volatile Organics</b>																						
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	42	72 U		76 U		72 U		77 UJ		76 U		770 UR		72 U		72 U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	42	72 U		76 U		72 U		77 U		76 U		770 UR		72 U		72 U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	42	72 U		76 U		72 U		77 U		76 U		770 UR		72 U		72 U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	42	72 U		76 U		72 U		77 U		76 U		770 UR		72 U		72 U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	9															
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	42	180 U		180 U		170 U		190 U		180 U		1900 UR		170 U		170 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	42	72 U		76 U		72 U		77 U		76 U		770 UR		72 U		72 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	42	72 U		76 U		72 U		77 U		76 U		770 UR		72 U		72 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	42	72 U		76 U		72 U		77 UJ		76 UJ		770 UR		72 U		72 U



TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-34 SOIL 123200 10 12 31-Oct-98 SA		SEAD-12 MW12-7 SOIL 123181 4 6 28-Oct-98 SA		SEAD-12 MW12-7 SOIL 123182 8 10 28-Oct-98 SA		SEAD-12 TP12-23A SOIL 123139 1 1 17-Oct-98 SA		SEAD-12 TP12-23B SOIL 123140 2 2 17-Oct-98 SA		SEAD-12 TP12-23C SOIL 123141 3 3 17-Oct-98 SA		SEAD-12 TP12-3A SOIL 123085 0.8 0.8 07-Oct-98 DU	
								RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST
PARAMETER	UNIT	AXIMU	DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	42	72	U	76	U	72	U	77	UJ	76	U	770	UR	72	U
Hexachloroethane	UG/K	0	0%		0	0	42	72	UJ	76	U	72	U	77	U	76	U	770	UR	72	U
Indeno(1,2,3-cd)pyrene	UG/K	140	31%	3200	0	13	42	72	U	76	U	72	U	77	U	8.7	J	770	UR	72	U
Isophorone	UG/K	0	0%	4400	0	0	42	72	U	76	U	72	U	77	U	76	U	770	UR	72	U
N-Nitrosodiphenylamine	UG/K	9500	2%		0	1	42	72	U	76	U	72	U	77	U	76	U	770	UR	72	U
N-Nitrosodipropylamine	UG/K	0	0%		0	0	42	72	U	76	U	72	U	77	U	76	U	770	UR	72	U
Naphthalene	UG/K	13	2%	13000	0	1	42	72	U	76	U	72	U	77	U	76	U	770	UR	72	U
Nitrobenzene	UG/K	0	0%	200	0	0	42	72	U	76	U	72	U	77	UJ	76	U	770	UR	72	U
Pentachlorophenol	UG/K	0	0%	1000	0	0	42	180	U	180	U	170	U	190	UJ	180	U	1900	UR	170	UJ
Phenanthrene	UG/K	280	43%	50000	0	18	42	4.6	J	76	U	72	U	77	U	30	J	770	UR	72	U
Phenol	UG/K	0	0%	30	0	0	42	72	U	76	U	72	U	77	U	76	U	770	UR	72	U
Pyrene	UG/K	310	48%	50000	0	20	42	7	J	76	U	72	U	77	U	32	J	52	J	72	U
<b>Pesticides/ PCBs</b>																					
4,4'-DDD	UG/K	25	10%	2900	0	4	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.8	U
4,4'-DDE	UG/K	6.4	17%	2100	0	7	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.8	U
4,4'-DDT	UG/K	4.9	19%	2100	0	8	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.8	U
Aldrin	UG/K	0	0%	41	0	0	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Alpha-BHC	UG/K	5.8	2%	110	0	1	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Alpha-Chlordane	UG/K	2.6	2%		0	1	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Aroclor-1016	UG/K	0	0%		0	0	42	36	U	38	U	36	U	38	U	38	U	38	U	36	U
Aroclor-1221	UG/K	0	0%		0	0	42	74	U	77	U	72	U	77	U	78	U	78	U	73	U
Aroclor-1232	UG/K	0	0%		0	0	42	36	U	38	U	36	U	38	U	38	U	38	U	36	U
Aroclor-1242	UG/K	0	0%		0	0	42	36	U	38	U	36	U	38	U	38	U	38	U	36	U
Aroclor-1248	UG/K	0	0%		0	0	42	36	U	38	U	36	U	38	U	38	U	38	U	36	U
Aroclor-1254	UG/K	28	2%	10000	0	1	42	38	U	38	U	36	U	38	U	38	U	38	U	38	U
Aroclor-1280	UG/K	25	2%	10000	0	1	42	36	U	38	U	36	U	38	U	38	U	38	U	38	U
Beta-BHC	UG/K	1.7	2%	200	0	1	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Delta-BHC	UG/K	0	0%	300	0	0	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Dieldrin	UG/K	0	0%	44	0	0	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.6	U
Endosulfan I	UG/K	0	0%	900	0	0	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Endosulfan II	UG/K	0	0%	900	0	0	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.6	U
Endosulfan sulfate	UG/K	0	0%	1000	0	0	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.6	U
Endrin	UG/K	0	0%	100	0	0	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.6	U
Endrin aldehyde	UG/K	0	0%		0	0	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.6	U
Endrin ketone	UG/K	0	0%		0	0	42	3.6	U	3.8	U	3.6	U	3.8	U	3.8	U	3.8	U	3.6	U
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Gamma-Chlordane	UG/K	2.3	5%	540	0	2	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Heptachlor	UG/K	8.4	7%	100	0	3	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.1	J
Heptachlor epoxide	UG/K	2	2%	20	0	1	42	1.9	U	2	U	1.8	U	2	U	2	U	2	U	1.8	U
Methoxychlor	UG/K	0	0%		0	0	42	19	U	20	U	18	U	20	U	20	U	20	U	18	U
Toxaphene	UG/K	0	0%		0	0	42	190	U	200	U	180	U	200	U	200	U	200	U	180	U
<b>Metals</b>																					
Aluminum	MG/K	18600	100%	19520	0	42	42	6930		7400		7700		12500		11000		11000		9100	
Antimony	MG/K	0.39	7%	6	0	3	42	0.95	UJ	1.2	UR	0.89	UR	1.3	UR	1	UR	1.3	UR	1.3	UR

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY				SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12							
LOCATION ID				MW12-34	MW12-7	MW12-7	TP12-23A	TP12-23B	TP12-23C	TP12-3A	TP12-3A	TP12-3A							
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID				123200	123181	123182	123139	123140	123141	123085	123085	123085							
SAMPLE DEPTH TO TOP OF SAMPLE				10	4	8	1	2	3	0.8	0.8	0.8							
SAMPLE DEPTH TO BOTTOM OF SAMPLE				12	6	10	1	2	3	0.8	0.8	0.8							
SAMPLE DATE				31-Oct-98	28-Oct-98	28-Oct-98	17-Oct-98	17-Oct-98	17-Oct-98	07-Oct-98	07-Oct-98	07-Oct-98							
QC CODE				SA	SA	SA	SA	SA	SA	SA	SA	SA							
STUDY ID				RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST							
PARAMETER	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Arsenic	MG/K	11.1	100%	8.9	1	42	42	2.5		3		3.3		4.5		6.7		3.9	
Barium	MG/K	135	100%	300	0	42	42	76.8		62.7		68.2		88.2		77.3		73	
Beryllium	MG/K	0.83	100%	1.13	0	42	42	0.29 J		0.39 J		0.38 J		0.43 J		0.33 J		0.43 J	
Cadmium	MG/K	6	24%	2.46	2	10	42	0.05 U		0.35 U		0.28 U		0.06 U		0.05 U		0.06 U	
Calcium	MG/K	224000	100%	125300	3	42	42	72700		72400		62500		34700		90700		32100	
Chromium	MG/K	29.7	100%	30	0	42	42	13.4		12.4 J		13.3 J		17.5		16.4		29.7	
Cobalt	MG/K	16.3	100%	30	0	42	42	9.8		8.2 J		8.4		10.6		7.9 J		11.5	
Copper	MG/K	74.5	100%	33	3	42	42	24.3		19.4		18.5		20.9		16.2		17.5	
Cyanide	MG/K	2.2	2%	0.35	1	42	42	0.57 U		0.58 U		0.54 U		0.61 U		0.59 U		0.57 U	
Iron	MG/K	51000	100%	37410	1	42	42	18100 J		16500		17200		23800		18000		17400 J	
Lead	MG/K	431	100%	24.4	8	42	42	12.1 J		5 J		4.7 J		14.8		9.3		10.4	
Magnesium	MG/K	36100	100%	21700	2	42	42	14200		15300		13800		8710		2110		9450	
Manganese	MG/K	857	100%	1100	0	42	42	377 J		378		387		629		497		331	
Mercury	MG/K	0.15	45%	0.1	3	19	42	0.05 U		0.05 U		0.05 U		0.06 U		0.05 U		0.05 U	
Nickel	MG/K	45.5	93%	50	0	39	42	29.3		21.7 UJ		21.3 UJ		25.2		20.7		36.9	
Potassium	MG/K	3670	100%	2623	2	42	42	893		1160		1290		1560		1330		1940	
Selenium	MG/K	1.9	26%	2	0	11	42	1.5 J		0.45 U		0.34 U		0.95 UJ		0.78 UJ		0.99 UJ	
Silver	MG/K	1.8	14%	0.8	1	6	42	0.19 U		0.23 U		0.18 U		0.25 U		0.2 U		0.27 J	
Sodium	MG/K	1420	81%	188	4	34	42	64.9 J		75.1 J		103 J		52.1 U		42.5 U		17.3	
Thallium	MG/K	1.7	40%	0.855	12	17	42	1.1 J		1.1 J		1.1 J		1.1 U		1.1 U		1.1 U	
Vanadium	MG/K	36.4	100%	150	0	42	42	12.8		13.6		13.6		21.3		17.7		17.6	
Zinc	MG/K	6080	100%	115	7	42	42	85.4 J		49.6 J		50.5 J		63		69.6		34.8	



TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA -SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENC OF DETECTION	NYSDEC TAGM 4048	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-3A SOIL	SEAD-12 TP12-3B SOIL	SEAD-12 TP12-3C SOIL	SEAD-12 TP12-4A SOIL	SEAD-12 TP12-4B SOIL	SEAD-12 TP12-4C SOIL	SEAD-12 TP12-5A SOIL				
														123082	123083	123084	123086	123087	123088	123092				
														0.8	5.5	4	0.5	6	8	8	0.5			
														0.8	5.5	4	0.5	8	8	8	0.5			
														07-Oct-98	07-Oct-98	07-Oct-98	12-Oct-98	12-Oct-98	12-Oct-98	13-Oct-98				
														SA	SA	SA	SA	SA	SA	DU				
														RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST				
PARAMETER	UNIT	AXIMU	DETECTION										VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
<b>Volatile Organics</b>																								
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethene	UG/K	0	0%	400	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloroethene (total)	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
1,2-Dichloropropane	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Acetone	UG/K	61	21%	200	0	9	42	61	35 U	17 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Benzene	UG/K	0	0%	60	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Bromodichloromethane	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Bromoform	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Carbon disulfide	UG/K	0	0%	2700	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Carbon tetrachloride	UG/K	0	0%	600	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chlorobenzene	UG/K	5	5%	1700	0	2	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chlorodibromomethane	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chloroethane	UG/K	0	0%	1900	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Chloroform	UG/K	0	0%	300	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Ethyl benzene	UG/K	0	0%	5500	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Methyl bromide	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Methyl butyl ketone	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Methyl chloride	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Methyl ethyl ketone	UG/K	0	0%	300	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Methylene chloride	UG/K	180	12%	100	1	5	42		2 J	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Styrene	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Tetrachloroethene	UG/K	2	2%	1400	0	1	42	11 U	2 J	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Toluene	UG/K	62	14%	1500	0	6	42	11 U	3 J	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Total Xylenes	UG/K	14	2%	1200	0	1	42	11 U	14	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Trichloroethene	UG/K	2	2%	700	0	1	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Vinyl chloride	UG/K	0	0%	200	0	0	0	42	11 U	13 U	12 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
<b>Semi-Volatile Organics</b>																								
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	42	72 U	170 U	74 U	74 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	42	72 U	170 U	74 U	74 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	42	72 U	170 U	74 U	74 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	42	72 U	170 U	74 U	74 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	9																	
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	42	170 U	400 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	42	72 U	170 U	74 U	74 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	42	72 U	170 U	74 U	74 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	42	72 U	170 U	74 U	74 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U	75 U

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA -SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENC OF	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-3A SOIL 123082 0.8 0.8 07-Oct-98 SA	SEAD-12 TP12-3B SOIL 123083 5.5 5.5 07-Oct-98 SA	SEAD-12 TP12-3C SOIL 123084 4 4 07-Oct-98 SA	SEAD-12 TP12-4A SOIL 123086 0.5 0.5 12-Oct-98 SA	SEAD-12 TP12-4B SOIL 123087 6 6 12-Oct-98 SA	SEAD-12 TP12-4C SOIL 123088 8 8 12-Oct-98 SA	SEAD-12 TP12-5A SOIL 123092 0.5 0.5 13-Oct-98 DU	RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST
PARAMETER	UNIT	AXIMU	DETECTION										VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)		
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	42	170	U	400	U	180	U	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	190	UJ	
2,4-Dinitrotoluene	UG/K	0	0%		0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
2-Chloronaphthalene	UG/K	0	0%		0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
2-Chlorophenol	UG/K	0	0%	800	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
2-Methylnaphthalene	UG/K	22	10%	36400	0	4	42	72	U	22	J	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	77	U	77	U	77	U	
2-Methylphenol	UG/K	0	0%	100	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
2-Nitroaniline	UG/K	0	0%	430	0	0	42	170	U	400	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	190	UJ	190	UJ	
2-Nitrophenol	UG/K	0	0%	330	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	42	72	U	170	UJ	74	U	74	UJ	74	UJ	74	UJ	75	UJ	75	UJ	75	UJ	75	UJ	75	UJ	77	U	77	U	
3-Nitroaniline	UG/K	0	0%	500	0	0	42	170	U	400	UJ	180	U	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	190	UJ	190	UJ	
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	42	170	U	400	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	190	U	190	U	
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
4-Chloroaniline	UG/K	0	0%	220	0	0	42	72	UJ	170	U	74	UJ	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
4-Methylphenol	UG/K	0	0%	900	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
4-Nitroaniline	UG/K	0	0%		0	0	42	170	U	400	UJ	180	U	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	190	UJ	190	UJ	
4-Nitrophenol	UG/K	0	0%	100	0	0	42	170	U	400	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	180	U	190	U	190	U	
Acenaphthene	UG/K	44	12%	50000	0	5	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Acenaphthylene	UG/K	0	0%	41000	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
Anthracene	UG/K	63	21%	50000	0	9	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
Benzo(a)anthracene	UG/K	200	45%	224	0	19	42	5.3	J	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Benzo(a)pyrene	UG/K	180	48%	61	4	20	42	4.8	J	170	U	74	U	74	U	74	U	74	U	75	UJ	75	UJ	75	UJ	75	UJ	75	UJ	77	U	77	U	
Benzo(b)fluoranthene	UG/K	320	48%	1100	0	20	42	5	J	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Benzo(ghi)perylene	UG/K	98	43%	50000	0	18	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Benzo(k)fluoranthene	UG/K	170	38%	1100	0	16	42	5.1	J	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	33	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
Bis(2-Ethylhexyl)phthalate	UG/K	16	14%	50000	0	6	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
Butylbenzylphthalate	UG/K	30	12%	50000	0	5	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	77	U	77	U	
Carbazole	UG/K	40	14%		0	6	42	72	UJ	170	UJ	74	UJ	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Chrysene	UG/K	310	50%	400	0	21	42	6.6	J	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Di-n-butylphthalate	UG/K	52	19%	8100	0	8	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Di-n-octylphthalate	UG/K	20	24%	50000	0	10	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Dibenz(a,h)anthracene	UG/K	99	19%	14	4	8	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Dibenzofuran	UG/K	4.1	2%	6200	0	1	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Diethyl phthalate	UG/K	0	0%	7100	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Dimethylphthalate	UG/K	0	0%	2000	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Fluoranthene	UG/K	320	45%	50000	0	19	42	5.1	J	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Fluorene	UG/K	35	5%	50000	0	2	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Hexachlorobenzene	UG/K	0	0%	410	0	0	42	72	U	170	U	74	U	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	
Hexachlorobutadiene	UG/K	0	0%		0	0	42	72	UJ	170	U	74	UJ	74	U	74	U	74	U	75	U	75	U	75	U	75	U	75	U	76	J	76	J	



TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-3A SOIL	SEAD-12 TP12-3B SOIL	SEAD-12 TP12-3C SOIL	SEAD-12 TP12-4A SOIL	SEAD-12 TP12-4B SOIL	SEAD-12 TP12-4C SOIL	SEAD-12 TP12-5A SOIL				
														123082	123083	123084	123086	123087	123088	123092				
														0.8	5.5	4	0.5	6	8	0.5				
														0.8	5.5	4	0.5	6	8	0.5				
														07-Oct-98	07-Oct-98	07-Oct-98	12-Oct-98	12-Oct-98	12-Oct-98	13-Oct-98				
														SA	SA	SA	SA	SA	SA	DU				
														RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1	RI PHASE 1				
														ST	ST	ST	ST	ST	ST	ST				
PARAMETER	UNIT	AXIMU	DETECTION										VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%					42	72	U	170	U	74	U	74	U	75	U	75	U	77	U	77	U
Hexachloroethane	UG/K	0	0%					42	72	U	170	U	74	U	74	U	75	U	75	U	75	U	77	U
Indeno(1,2,3-cd)pyrene	UG/K	140	31%	3200		13		42	72	U	170	U	74	U	74	U	75	U	75	U	25	J	25	J
Isophorone	UG/K	0	0%	4400		0		42	72	U	170	U	74	U	74	U	75	U	75	U	75	U	77	U
N-Nitrosodiphenylamine	UG/K	9500	2%			1		42	72	U	9500		74	U	74	U	75	U	75	U	75	U	77	U
N-Nitrosodipropylamine	UG/K	0	0%			0		42	72	U	170	U	74	U	74	U	75	U	75	U	75	U	77	U
Naphthalene	UG/K	13	2%	13000		1		42	72	U	13	J	74	U	74	U	75	U	75	U	75	U	77	U
Nitrobenzene	UG/K	0	0%	200		0		42	72	U	170	U	74	U	74	U	75	U	75	U	75	U	77	U
Pentachlorophenol	UG/K	0	0%	1000		0		42	170	UJ	400	UJ	180	UJ	180	UJ	180	UJ	180	UJ	180	UJ	190	UJ
Phenanthrene	UG/K	280	43%	50000		18		42	6.6	J	170	U	74	U	74	U	75	U	75	U	51	J	51	J
Phenol	UG/K	0	0%	30		0		42	72	U	170	U	74	U	74	U	75	U	75	U	75	U	77	U
Pyrene	UG/K	310	48%	50000		20		42	10	J	170	U	74	U	74	U	75	U	75	U	75	U	77	U
<b>Pesticides/ PCBs</b>																								
4,4'-DDD	UG/K	25	10%	2900		4		42	3.6	U	42	U	3.7	U	3.7	U	3.8	U	3.8	U	2.9	J	2.9	J
4,4'-DDE	UG/K	6.4	17%	2100		7		42	3.6	U	42	U	3.7	U	3.7	U	2.7	J	3.8	U	3.8	UJ	3.8	UJ
4,4'-DDT	UG/K	4.9	19%	2100		8		42	3.6	U	42	U	3.7	U	3.7	U	4.9		3.8	U	3.3	J	3.3	J
Aldrin	UG/K	0	0%	41		0		42	1.8	U	2.2	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	2	U
Alpha-BHC	UG/K	5.8	2%	110		1		42	1.8	U	2.2	U	1.9	U	1.9	U	5.8		1.9	U	2	U	2	U
Alpha-Chlordane	UG/K	2.6	2%			1		42	1.8	U	2.2	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	2	U
Aroclor-1018	UG/K	0	0%			0		42	36	U	42	U	37	U	37	U	38	U	38	U	38	U	38	U
Aroclor-1221	UG/K	0	0%			0		42	73	U	85	U	75	U	75	U	76	U	76	U	78	U	78	U
Aroclor-1232	UG/K	0	0%			0		42	36	U	42	U	37	U	37	U	38	U	38	U	38	U	38	U
Aroclor-1242	UG/K	0	0%			0		42	36	U	42	U	37	U	37	U	38	U	38	U	38	U	38	U
Aroclor-1248	UG/K	0	0%			0		42	36	U	42	U	37	U	37	U	38	U	38	U	38	U	38	U
Aroclor-1254	UG/K	28	2%	10000		1		42	36	U	28	J	37	U	37	U	38	U	38	U	38	U	38	U
Aroclor-1260	UG/K	25	2%	10000		1		42	36	U	42	U	37	U	37	U	38	U	38	U	38	U	38	U
Beta-BHC	UG/K	1.7	2%	200		1		42	1.8	U	2.2	U	1.9	U	1.9	U	1.7	J	1.9	U	2	U	2	U
Delta-BHC	UG/K	0	0%	300		0		42	1.8	U	2.2	U	1.9	U	1.9	U	1.9	U	1.9	U	2	U	2	U
Dieldrin	UG/K	0	0%	44		0		42	3.6	U	4.2	U	3.7	U	3.7	U	3.8	U	3.8	U	3.8	U	3.8	U
Endosulfan I	UG/K	0	0%	900		0		42	1.8	U	2.2	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	2	U
Endosulfan II	UG/K	0	0%	900		0		42	3.6	U	4.2	U	3.7	U	3.7	U	3.8	U	3.8	U	3.8	U	3.8	U
Endosulfan sulfate	UG/K	0	0%	1000		0		42	3.6	U	4.2	U	3.7	U	3.7	U	3.8	U	3.8	U	3.8	U	3.8	U
Endrin	UG/K	0	0%	100		0		42	3.6	U	4.2	U	3.7	U	3.7	U	3.8	U	3.8	U	3.8	U	3.8	U
Endrin aldehyde	UG/K	0	0%			0		42	3.6	U	4.2	U	3.7	U	3.7	U	3.8	U	3.8	U	3.8	U	3.8	U
Endrin ketone	UG/K	0	0%			0		42	3.6	U	4.2	U	3.7	U	3.7	U	3.8	U	3.8	U	3.8	U	3.8	U
Gamma-BHC/Lindane	UG/K	0	0%	60		0		42	1.8	U	2.2	U	1.9	U	1.9	U	1.9	U	1.9	U	2	U	2	U
Gamma-Chlordane	UG/K	2.3	5%	540		2		42	1.8	U	2.2	U	1.9	U	1.9	U	1	J	1.9	U	2	U	2	U
Heptachlor	UG/K	8.4	7%	100		3		42	1	J	2.2	U	1.9	U	1.9	U	8.4		1.9	U	2	U	2	U
Heptachlor epoxide	UG/K	2	2%	20		1		42	1.8	U	2.2	U	1.9	U	1.9	U	2	J	1.9	U	2	U	2	U
Methoxychlor	UG/K	0	0%			0		42	18	U	22	U	19	U	19	U	19	U	19	U	20	U	20	U
Toxaphene	UG/K	0	0%			0		42	180	U	220	U	190	U	190	U	190	U	190	U	200	U	200	U
<b>Metals</b>																								
Aluminum	MG/K	18600	100%	19520		42		42	8520		9140		6550		9170		7650		7360		11100		11100	
Antimony	MG/K	0.39	7%	6		3		42	1.1	UR	1.3	UR	1.3	UR	1	UR	1.2	UR	1.1	UR	1.4	UR	1.4	UR

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 TP12-3A SOIL	SEAD-12 TP12-3B SOIL	SEAD-12 TP12-3C SOIL	SEAD-12 TP12-4A SOIL	SEAD-12 TP12-4B SOIL	SEAD-12 TP12-4C SOIL	SEAD-12 TP12-5A SOIL		
									123082	123083	123084	123086	123087	123088	123092		
									0.8	5.5	4	0.5	6	8	0.5		
									0.8	5.5	4	0.5	6	8	0.5		
									07-Oct-98	07-Oct-98	07-Oct-98	12-Oct-98	12-Oct-98	12-Oct-98	13-Oct-98		
									SA	SA	SA	SA	SA	SA	DU		
									RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST		
PARAMETER	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Arsenic	MG/K	11.1	100%	8.9	1	42	42	4		4.3		3.4		2.7		3.7	
Barium	MG/K	135	100%	300	0	42	42	71.9		71.7		53.3		69.3		66.7	
Beryllium	MG/K	0.83	100%	1.13	0	42	42	0.35 J		0.4 J		0.23 J		0.34 J		0.28 J	
Cadmium	MG/K	6	24%	2.46	2	10	42	0.06 U		0.07 U		0.05 U		0.06 U		0.05 U	
Calcium	MG/K	224000	100%	125300	3	42	42	44300 J		51900 J		78500 J		67200 J		14200 J	
Chromium	MG/K	29.7	100%	30	0	42	42	12		29.4		13.5		15.4		10.8	
Cobalt	MG/K	16.3	100%	30	0	42	42	7.4 J		8.3 J		8 J		9.5		6.4 J	
Copper	MG/K	74.5	100%	33	3	42	42	18		26.4		18.8		21		11.3	
Cyanide	MG/K	2.2	2%	0.35	1	1	42	0.56 U		0.7 U		0.57 U		0.58 U		0.6 U	
Iron	MG/K	51000	100%	37410	1	42	42	15500 J		18800 J		18500 J		20200 J		15300 J	
Lead	MG/K	431	100%	24.4	8	42	42	9.3		15.8		8.3		9		9.3	
Magnesium	MG/K	36100	100%	21700	2	42	42	8790		12200		8290		8840		3960	
Manganese	MG/K	857	100%	1100	0	42	42	422		379		354		398		158	
Mercury	MG/K	0.15	45%	0.1	3	19	42	0.06 J		0.08 J		0.05 U		0.05 U		0.05 U	
Nickel	MG/K	45.5	93%	50	0	39	42	20.7		27.5		24		29		15.6	
Potassium	MG/K	3670	100%	2623	2	42	42	770 J		875 J		898 J		787 J		755 J	
Selenium	MG/K	1.9	26%	2	0	11	42	0.86 U		0.97 U		1 U		0.76 U		0.93 U	
Silver	MG/K	1.8	14%	0.8	1	6	42	0.26 J		1 J		0.39 J		0.2 U		0.24 U	
Sodium	MG/K	1420	81%	188	4	34	42	61.5 J		109 J		105 J		70.4 J		127 J	
Thallium	MG/K	1.7	40%	0.855	12	17	42	0.97 U		1.4 U		1.1 U		0.86 U		1 U	
Vanadium	MG/K	36.4	100%	150	0	42	42	15.2		17.3		12.1		15.8		14	
Zinc	MG/K	6080	100%	115	7	42	42	44.2 J		44.8 J		44.8 J		49.7 J		36.7 J	

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	FREQUNC OF DETECTION		NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-5A SOIL 123089 0.5 0.5 13-Oct-98 SA		SEAD-12 TP12-5B SOIL 123090 2 2 13-Oct-98 SA		SEAD-12 TP12-5C SOIL 123091 8 8 13-Oct-98 SA		SEAD-12 TP12-5A SOIL 123158 2.5 2.5 17-Oct-98 SA		SEAD-12 TP12-6B SOIL 123159 3 3 17-Oct-98 SA		SEAD-12 TP12-6C SOIL 123160 3.5 3.5 17-Oct-98 SA		SEAD-12 TP12-7AA SOIL 123128 1 1 15-Oct-98 SA			
		AXIMU						RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST	RI PHASE	ST
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
<b>Volatile Organics</b>																							
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
1,1-Dichloroethane	UG/K	0	0%	400	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
1,2-Dichloroethane (total)	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
1,2-Dichloropropane	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Acetone	UG/K	61	21%	200	0	9	42	12	U	12	U	11	U	13	U	16	UJ	13	UJ	11	UJ	11	UJ
Benzene	UG/K	0	0%	60	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Bromodichloromethane	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Bromoform	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Carbon disulfide	UG/K	0	0%	2700	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Carbon tetrachloride	UG/K	0	0%	600	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Chlorobenzene	UG/K	5	5%	1700	0	2	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Chlorodibromomethane	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Chloroethane	UG/K	0	0%	1900	0	0	42	12	U	12	U	11	U	13	U	16	UJ	13	UJ	11	UJ	11	UJ
Chloroform	UG/K	0	0%	300	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Ethyl benzene	UG/K	0	0%	5500	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Methyl bromide	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Methyl butyl ketone	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	UJ	13	UJ	11	UJ	11	UJ
Methyl chloride	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Methyl ethyl ketone	UG/K	0	0%	300	0	0	42	12	U	12	U	11	U	13	U	16	UJ	13	UJ	11	UJ	11	UJ
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Methylene chloride	UG/K	180	12%	100	1	5	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Styrene	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Tetrachloroethane	UG/K	2	2%	1400	0	1	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Toluene	UG/K	62	14%	1500	0	6	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Total Xylenes	UG/K	14	2%	1200	0	1	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Trichloroethane	UG/K	2	2%	700	0	1	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
Vinyl chloride	UG/K	0	0%	200	0	0	42	12	U	12	U	11	U	13	U	16	U	13	U	11	U	11	U
<b>Semi-Volatile Organics</b>																							
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	42	75	UJ	78	U	74	U	85	U	84	U	78	U	76	U	76	U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	42	75	U	78	U	74	U	85	U	84	U	78	U	76	U	76	U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	42	75	U	78	U	74	U	85	U	84	U	78	U	76	U	76	U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	42	75	U	78	U	74	U	85	U	84	U	78	U	76	U	76	U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	9																
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	42	180	U	190	U	180	U	200	U	200	U	190	U	180	U	180	U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	U	84	U	78	U	76	U	76	U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	42	75	U	78	U	74	U	85	U	84	U	78	U	76	U	76	U
2,4-Dimethylphenol	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	UJ	84	UJ	78	UJ	76	UJ	76	UJ

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-5A SOIL	SEAD-12 TP12-5B SOIL	SEAD-12 TP12-5C SOIL	SEAD-12 TP12-6A SOIL	SEAD-12 TP12-6B SOIL	SEAD-12 TP12-6C SOIL	SEAD-12 TP12-7AA SOIL			
														123089	123090	123091	123158	123159	123160	123128			
														0.5	2	8	2.5	3	3.5	1			
														0.5	2	8	2.5	3	3.5	1			
														13-Oct-98 SA	13-Oct-98 SA	13-Oct-98 SA	17-Oct-98 SA	17-Oct-98 SA	17-Oct-98 SA	15-Oct-98 SA			
														RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST			
PARAMETER	UNIT	AXIMU	DETECTION	TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)		
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	42	180	UJ	190	UJ	180	UJ	200	UJ	200	UJ	200	UJ	190	UJ	180	UJ
2,4-Dinitrotoluene	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
2-Chloronaphthalene	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
2-Chlorophenol	UG/K	0	0%	800	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
2-Methylnaphthalene	UG/K	22	10%	36400	0	4	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
2-Methylphenol	UG/K	0	0%	100	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
2-Nitroaniline	UG/K	0	0%	430	0	0	42	180	U	190	U	180	U	200	U	200	U	200	U	190	U	180	U
2-Nitrophenol	UG/K	0	0%	330	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	42	75	U	78	UJ	74	UJ	85	U	84	U	84	U	78	U	76	U
3-Nitroaniline	UG/K	0	0%	500	0	0	42	180	U	190	U	180	U	200	U	200	U	200	U	190	U	180	U
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	42	180	U	190	U	180	U	200	U	200	U	200	U	190	U	180	U
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
4-Chloroaniline	UG/K	0	0%	220	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
4-Methylphenol	UG/K	0	0%	900	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
4-Nitroaniline	UG/K	0	0%		0	0	42	180	U	190	UJ	180	UJ	200	UJ	200	UJ	200	UJ	190	UJ	180	UJ
4-Nitrophenol	UG/K	0	0%	100	0	0	42	180	UJ	190	UJ	180	UJ	200	UJ	200	UJ	200	UJ	190	UJ	180	UJ
Acenaphthene	UG/K	44	12%	50000	0	5	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Acenaphthylene	UG/K	0	0%	41000	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Anthracene	UG/K	63	21%	50000	0	9	42	75	U	78	UJ	74	U	85	U	84	U	84	U	78	U	76	U
Benzo(a)anthracene	UG/K	200	45%	224	0	19	42	20	J	7.7	J	74	U	85	U	15	J	7.4	J	8.3	J	38	J
Benzo(a)pyrene	UG/K	180	48%	61	4	20	42	26	J	8	J	74	UJ	85	U	15	J	7.8	J	4.9	J	49	J
Benzo(b)fluoranthene	UG/K	320	48%	1100	0	20	42	23	J	11	J	74	U	5.1	J	16	J	11	J	28	J	28	J
Benzo(ghi)perylene	UG/K	98	43%	50000	0	18	42	16	J	13	J	74	U	4.9	J	13	J	9.7	J	28	J	28	J
Benzo(k)fluoranthene	UG/K	170	38%	1100	0	16	42	26	J	10	J	74	U	85	U	16	J	8.6	J	4.2	J	42	J
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	33	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Bis(2-Ethylhexyl)phthalate	UG/K	16	14%	50000	0	6	42	75	U	78	U	74	U	12	J	13	J	16	J	7.6	UJ	7.6	UJ
Butylbenzylphthalate	UG/K	30	12%	50000	0	5	42	75	U	78	UJ	74	U	15	J	27	J	30	J	12	J	12	J
Carbazole	UG/K	40	14%		0	6	42	75	UJ	78	UJ	74	U	85	U	84	U	84	U	78	U	76	U
Chrysene	UG/K	310	50%	400	0	21	42	28	J	11	J	74	U	5.2	J	19	J	11	J	5.5	J	5.5	J
Di-n-butylphthalate	UG/K	52	19%	8100	0	8	42	75	U	5.8	J	74	U	640	UJ	850	UJ	680	UJ	76	UJ	76	UJ
Di-n-octylphthalate	UG/K	20	24%	50000	0	10	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Dibenz(a,h)anthracene	UG/K	99	19%	14	4	8	42	6.8	J	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Dibenzofuran	UG/K	4.1	2%	6200	0	1	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Diethyl phthalate	UG/K	0	0%	7100	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Dimethylphthalate	UG/K	0	0%	2000	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Fluoranthene	UG/K	320	45%	50000	0	19	42	40	J	17	J	74	U	7.7	J	31	J	17	J	8.5	J	8.5	J
Fluorene	UG/K	35	5%	50000	0	2	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Hexachlorobenzene	UG/K	0	0%	410	0	0	42	75	U	78	U	74	U	85	U	84	U	84	U	78	U	76	U
Hexachlorobutadiene	UG/K	0	0%		0	0	42	75	UJ	78	U	74	U	85	U	84	U	84	U	78	U	76	U

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-5A SOIL		SEAD-12 TP12-5B SOIL		SEAD-12 TP12-5C SOIL		SEAD-12 TP12-6A SOIL		SEAD-12 TP12-6B SOIL		SEAD-12 TP12-6C SOIL		SEAD-12 TP12-7AA SOIL		
								13-Oct-98 SA	ST	13-Oct-98 SA	ST	13-Oct-98 SA	ST	17-Oct-98 SA	ST	17-Oct-98 SA	ST	17-Oct-98 SA	ST	15-Oct-98 SA	ST	
PARAMETER							VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	42	75 UJ		78 U		74 U		85 U		84 U		78 U		76 U		76 U
Hexachloroethane	UG/K	0	0%		0	0	42	75 U		78 U		74 U		85 U		84 U		78 U		76 U		76 U
Indeno(1,2,3-cd)pyrene	UG/K	140	31%	3200	0	13	42	18 J		8.1 J		74 U		85 U		9.4 J		7.6 J		26 J		26 J
Isophorone	UG/K	0	0%	4400	0	0	42	75 U		78 U		74 U		85 U		84 U		78 U		76 U		76 U
N-Nitrosodiphenylamine	UG/K	9500	2%		0	1	42	75 U		78 U		74 U		85 U		84 U		78 U		76 U		76 U
N-Nitrosodipropylamine	UG/K	0	0%		0	0	42	75 U		78 U		74 U		85 U		84 U		78 U		76 U		76 U
Naphthalene	UG/K	13	2%	13000	0	1	42	75 U		78 U		74 U		85 U		84 U		78 U		76 U		76 U
Nitrobenzene	UG/K	0	0%	200	0	0	42	75 UJ		78 U		74 U		85 U		84 U		78 U		76 U		76 U
Pentachlorophenol	UG/K	0	0%	1000	0	0	42	180 UJ		190 UJ		180 UJ		200 U		200 U		190 U		180 UJ		180 UJ
Phenanthrene	UG/K	280	43%	50000	0	18	42	36 J		12 J		74 U		5 J		13 J		8.3 J		67 J		67 J
Phenol	UG/K	0	0%	30	0	0	42	75 U		78 U		74 U		85 U		84 U		78 U		76 U		76 U
Pyrene	UG/K	310	48%	50000	0	20	42	35 J		11 J		74 U		8.2 J		30 J		16 J		85		85
<b>Pesticides/ PCBs</b>																						
4,4'-DDD	UG/K	25	10%	2900	0	4	42	25 J		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		2.2 J		2.2 J
4,4'-DDE	UG/K	6.4	17%	2100	0	7	42	5.7 J		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		2.5 J		2.5 J
4,4'-DDT	UG/K	4.9	19%	2100	0	8	42	2.4 J		3.9 U		3.7 UJ		4.2 U		3.4 J		3.9 U		2.6 J		2.6 J
Aldrin	UG/K	0	0%	41	0	0	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Alpha-BHC	UG/K	5.8	2%	110	0	1	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Alpha-Chlordane	UG/K	2.8	2%		0	1	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Aroclor-1016	UG/K	0	0%		0	0	42	38 U		39 U		37 UJ		42 U		42 U		39 U		38 U		38 U
Aroclor-1221	UG/K	0	0%		0	0	42	76 U		79 U		75 UJ		86 U		85 U		80 U		77 U		77 U
Aroclor-1232	UG/K	0	0%		0	0	42	38 U		39 U		37 UJ		42 U		42 U		39 U		38 U		38 U
Aroclor-1242	UG/K	0	0%		0	0	42	38 U		39 U		37 UJ		42 U		42 U		39 U		38 U		38 U
Aroclor-1248	UG/K	0	0%		0	0	42	38 U		39 U		37 UJ		42 U		42 U		39 U		38 U		38 U
Aroclor-1254	UG/K	28	2%	10000	0	1	42	38 U		39 U		37 UJ		42 U		42 U		39 U		38 U		38 U
Aroclor-1260	UG/K	25	2%	10000	0	1	42	38 U		39 U		37 UJ		42 U		42 U		39 U		38 U		38 U
Beta-BHC	UG/K	1.7	2%	200	0	1	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Delta-BHC	UG/K	0	0%	300	0	0	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Dieldrin	UG/K	0	0%	44	0	0	42	3.8 U		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		3.8 U		3.8 U
Endosulfan I	UG/K	0	0%	900	0	0	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Endosulfan II	UG/K	0	0%	900	0	0	42	3.8 U		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		3.8 U		3.8 U
Endosulfan sulfate	UG/K	0	0%	1000	0	0	42	3.8 U		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		3.8 U		3.8 U
Endrin	UG/K	0	0%	100	0	0	42	3.8 U		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		3.8 U		3.8 U
Endrin aldehyde	UG/K	0	0%		0	0	42	3.8 U		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		3.8 U		3.8 U
Endrin ketone	UG/K	0	0%		0	0	42	3.8 U		3.9 U		3.7 UJ		4.2 U		4.2 U		3.9 U		3.8 U		3.8 U
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Gamma-Chlordane	UG/K	2.3	5%	540	0	2	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Heptachlor	UG/K	8.4	7%	100	0	3	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Heptachlor epoxide	UG/K	2	2%	20	0	1	42	1.9 U		2 U		1.9 UJ		2.2 U		2.2 U		2 U		2 U		2 U
Methoxychlor	UG/K	0	0%		0	0	42	19 U		20 U		19 UJ		22 U		22 U		20 U		20 U		20 U
Toxaphene	UG/K	0	0%		0	0	42	190 U		200 U		190 UJ		220 U		220 U		200 U		200 U		200 U
<b>Metals</b>																						
Aluminum	MG/K	18600	100%	19520	0	42	42	11300		10300		7130		11300		7180		7690		9980 J		9980 J
Antimony	MG/K	0.39	7%	6	0	3	42	0.9 UR		1.3 UR		1.2 UR		1.3 UR		1 UR		1.4 UR		1.1 UR		1.1 UR





TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID								TP12-7BA	TP12-7BB	TP12-8A	TP12-8B	TP12-8C	TP12A-3	TP12A-3	TP12A-3	TP12A-3	TP12A-3
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								123127	123129	123130	123132	123131	TP12A-3-1	TP12A-3-1	TP12A-3-1	TP12A-3-1	TP12A-3-1
SAMPLE DEPTH TO TOP OF SAMPLE								1	2	1	3	2	2.5	2.5	2.5	2.5	2.5
SAMPLE DEPTH TO BOTTOM OF SAMPLE								1	2	1	3	2	2.5	2.5	2.5	2.5	2.5
SAMPLE DATE								15-Oct-98	15-Oct-98	15-Oct-98	15-Oct-98	15-Oct-98	22-Jun-94	22-Jun-94	22-Jun-94	22-Jun-94	22-Jun-94
QC CODE								SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
STUDY ID								RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST	RI PHASE 1	ST
PARAMETER	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
<b>Volatile Organics</b>																	
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	42	11 U		12 U		12 U		11 U		12 U	
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	42	11 U		12 U		12 U		11 U		12 U	
1,1,2-Trichloroethane	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
1,1-Dichloroethane	UG/K	0	0%	200	0	0	42	11 U		12 U		12 U		11 U		12 U	
1,1-Dichloroethane	UG/K	0	0%	400	0	0	42	11 U		12 U		12 U		11 U		12 U	
1,2-Dichloroethane	UG/K	0	0%	100	0	0	42	11 U		12 U		12 U		11 U		12 U	
1,2-Dichloroethane (total)	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
1,2-Dichloropropane	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Acetone	UG/K	61	21%	200	0	9	42	13 UJ		12 UJ		12 UJ		11 UJ		12 UJ	
Benzene	UG/K	0	0%	60	0	0	42	11 U		12 U		12 U		11 U		12 U	
Bromodichloromethane	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Bromoform	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Carbon disulfide	UG/K	0	0%	2700	0	0	42	11 U		12 U		12 U		11 U		12 U	
Carbon tetrachloride	UG/K	0	0%	600	0	0	42	11 U		12 U		12 U		11 U		12 U	
Chlorobenzene	UG/K	5	5%	1700	0	2	42	11 U		12 U		12 U		11 U		12 U	
Chlorodibromomethane	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Chloroethane	UG/K	0	0%	1900	0	0	42	11 UJ		12 UJ		12 UJ		11 UJ		12 UJ	
Chloroform	UG/K	0	0%	300	0	0	42	11 U		12 U		12 U		11 U		12 U	
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Ethyl benzene	UG/K	0	0%	5500	0	0	42	11 U		12 U		12 U		11 U		12 U	
Methyl bromide	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Methyl butyl ketone	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Methyl chloride	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Methyl ethyl ketone	UG/K	0	0%	300	0	0	42	11 UJ		12 UJ		12 UJ		11 UJ		12 UJ	
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	42	11 U		12 U		12 U		11 U		12 U	
Methylene chloride	UG/K	180	12%	100	1	5	42	11 U		12 U		12 U		11 U		12 U	
Styrene	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Tetrachloroethane	UG/K	2	2%	1400	0	1	42	11 U		12 U		12 U		11 U		12 U	
Toluene	UG/K	62	14%	1500	0	6	42	11 U		12 U		12 U		11 U		12 U	
Total Xylenes	UG/K	14	2%	1200	0	1	42	11 U		12 U		12 U		11 U		12 U	
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	42	11 U		12 U		12 U		11 U		12 U	
Trichloroethane	UG/K	2	2%	700	0	1	42	11 U		12 U		12 U		11 U		12 U	
Vinyl chloride	UG/K	0	0%	200	0	0	42	11 U		12 U		12 U		11 U		12 U	
<b>Semi-Volatile Organics</b>																	
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	42	73 U		76 U		78 U		120 U		74 U	
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	42	73 U		76 U		78 U		120 U		74 U	
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	42	73 U		76 U		78 U		120 U		74 U	
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	42	73 U		76 U		78 U		120 U		74 U	
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	9									430 U	
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	42	180 U		180 U		190 U		300 U		180 U	
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	42	73 U		76 U		78 U		120 U		74 U	
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	42	73 U		76 U		78 U		120 U		74 U	
2,4-Dimethylphenol	UG/K	0	0%		0	0	42	73 UJ		76 U		78 U		120 U		74 U	





TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID				SEAD-12 TP12-7BA SOIL				SEAD-12 TP12-7BB SOIL				SEAD-12 TP12-8A SOIL				SEAD-12 TP12-8B SOIL				SEAD-12 TP12-8C SOIL				SEAD-12 TP12A-3 SOIL				SEAD-12 TP12A-3-1 SOIL				SEAD-12 TP12A-3-2 SOIL																															
MATRIX				123127				123129				123130				123132				123131				TP12A-3-1				TP12A-3-2																																			
SAMPLE ID				1				2				1				3				2				2.5				6																																			
SAMPLE DEPTH TO TOP OF SAMPLE				1				2				1				3				2				2.5				6																																			
SAMPLE DEPTH TO BOTTOM OF SAMPLE				1				2				1				3				2				2.5				6																																			
SAMPLE DATE				15-Oct-98				15-Oct-98				15-Oct-98				15-Oct-98				15-Oct-98				22-Jun-94				22-Jun-94																																			
QC CODE				SA				SA				SA				SA				SA				SA				SA																																			
STUDY ID				FREQUENC OF				NYSDEC TAGM				NUMBER ABOVE TAGM				NUMBER OF DETECTS				NUMBER OF ANALYSES				RI PHASE 1 ST				RI PHASE 1 ST				RI PHASE 1 ST				RI PHASE 1 ST				RI PHASE 1 ST				RI PHASE 1 ST				ESI				ESI											
PARAMETER				UNIT				AXIMU				DETECTION				4046				NUMBER ABOVE TAGM				NUMBER OF DETECTS				NUMBER OF ANALYSES				VALUE (Q)				VALUE (Q)				VALUE (Q)				VALUE (Q)				VALUE (Q)				VALUE (Q)											
Hexachlorocyclopentadiene				UG/K				0				0%								0				0				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
Hexachloroethane				UG/K				0				0%								0				0				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
Indeno(1,2,3-cd)pyrene				UG/K				140				31%				3200				0				13				42				13 J				76 UJ				44 J				120 UJ				42 J				430 U				370 U							
Isophorone				UG/K				0				0%				4400				0				0				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
N-Nitrosodiphenylamine				UG/K				9500				2%								0				1				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
N-Nitrosodipropylamine				UG/K				0				0%								0				0				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
Naphthalene				UG/K				13				2%				13000				0				1				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
Nitrobenzene				UG/K				0				0%				200				0				0				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
Pentachlorophenol				UG/K				0				0%				1000				0				0				42				180 UJ				180 U				190 U				300 U				180 U				1100 U				900 U							
Phenanthrene				UG/K				280				43%				50000				0				18				42				39 J				16 J				20 J				16 J				100				430 U				370 U							
Phenol				UG/K				0				0%				30				0				0				42				73 U				76 U				78 U				120 U				74 U				430 U				370 U							
Pyrene				UG/K				310				48%				50000				0				20				42				40 J				15 J				310				53 J				140				430 U				370 U							
Pesticides/ PCBs																																																															
4,4'-DDD				UG/K				25				10%				2900				0				4				42				3.7 U				3.8 U				3.9 U				6.1 U				3.7 U				4.3 U				3.7 U							
4,4'-DDE				UG/K				6.4				17%				2100				0				7				42				3.7 U				3.3 J				3.9 U				6.1 U				2.1 J				4.3 U				3.7 U							
4,4'-DDT				UG/K				4.9				19%				2100				0				8				42				3.7 U				2.9 J				3.9 U				6.1 U				4.4				4.3 U				3.7 U							
Aldrin				UG/K				0				0%				41				0				0				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Alpha-BHC				UG/K				5.8				2%				110				0				1				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Alpha-Chlordane				UG/K				2.6				2%								0				1				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Aroclor-1016				UG/K				0				0%								0				0				42				37 U				38 U				39 U				61 U				37 U				43 U				37 U							
Aroclor-1221				UG/K				0				0%								0				0				42				74 U				77 U				80 U				120 U				75 U				88 U				75 U							
Aroclor-1232				UG/K				0				0%								0				0				42				37 U				38 U				39 U				61 U				37 U				43 U				37 U							
Aroclor-1242				UG/K				0				0%								0				0				42				37 U				38 U				39 U				61 U				37 U				43 U				37 U							
Aroclor-1248				UG/K				0				0%								0				0				42				37 U				38 U				39 U				61 U				37 U				43 U				37 U							
Aroclor-1254				UG/K				28				2%				10000				0				1				42				37 U				38 U				39 U				61 U				37 U				43 U				37 U							
Aroclor-1260				UG/K				25				2%				10000				0				1				42				37 U				38 U				39 U				61 U				37 U				43 U				37 U							
Beta-BHC				UG/K				1.7				2%				200				0				1				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Delta-BHC				UG/K				0				0%				300				0				0				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Dieldrin				UG/K				0				0%				44				0				0				42				3.7 U				3.8 U				3.9 U				6.1 U				3.7 U				4.3 U				3.7 U							
Endosulfan I				UG/K				0				0%				900				0				0				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Endosulfan II				UG/K				0				0%				900				0				0				42				3.7 U				3.8 U				3.9 U				6.1 U				3.7 U				4.3 U				3.7 U							
Endosulfan sulfate				UG/K				0				0%				1000				0				0				42				3.7 U				3.8 U				3.9 U				6.1 U				3.7 U				4.3 U				3.7 U							
Endrin				UG/K				0				0%				100				0				0				42				3.7 U				3.8 U				3.9 U				6.1 U				3.7 U				4.3 U				3.7 U							
Endrin aldehyde				UG/K				0				0%								0				0				42				3.7 U				3.8 U				3.9 U				6.1 U				3.7 U				4.3 U				3.7 U							
Endrin ketone				UG/K				0				0%								0				0				42				3.7 U				3.8 U				3.9 U				6.1 U				3.7 U				4.3 U				3.7 U							
Gamma-BHC/Lindane				UG/K				0				0%				60				0				0				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Gamma-Chlordane				UG/K				2.3				5%				540				0				2				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Heptachlor				UG/K				8.4				7%				100				0				3				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Heptachlor epoxide				UG/K				2				2%				20				0				1				42				1.9 U				2 U				2 U				3.1 U				1.9 U				2.2 U				1.9 U							
Methoxychlor				UG/K				0				0%								0				0				42				19 U				20 U				20 U				31 U				19 U				22 U				19 U							
Toxaphene				UG/K				0				0%								0				0				42				190 U				200 U				200 U				310 U				190 U				220 U				190 U							
Metals																																																															
Aluminum				MG/K				18600				100%				19520				0				42				42				8110 J				11000 J				10300 J				14000 J				4140 J				13200				9720							
Antimony				MG/K				0.39				7%				6				0				3				42				1.3 UR				1.2 UR				1.3 UR				2 UR				1.2 UR				0.25 UJ				0.27 UJ							

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA -SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENC OF	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-7BA SOIL 123127 1 15-Oct-98 SA	SEAD-12 TP12-7BB SOIL 123129 2 15-Oct-98 SA	SEAD-12 TP12-8A SOIL 123130 1 15-Oct-98 SA	SEAD-12 TP12-8B SOIL 123132 3 15-Oct-98 SA	SEAD-12 TP12-8C SOIL 123131 2 15-Oct-98 SA	SEAD-12 TP12A-3 SOIL TP12A-3-1 2.5 22-Jun-94 SA	SEAD-12 TP12A-3 SOIL TP12A-3-2 6 22-Jun-94 SA	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	RI PHASE 1 ST	ESI	ESI			
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)		
Arsenic	MG/K	11.1	100%	8.9	1	42	42	3.6	J	4.3		3.2		5.8		2.6		5		3.7											
Barium	MG/K	135	100%	300	0	42	42	51.8		49.9	J	106	J	113	J	38.9	J	89		73.6											
Beryllium	MG/K	0.83	100%	1.13	0	42	42	0.31	J	0.46	J	0.44	J	0.6	J	0.21	J	0.71	J	0.49	J										
Cadmium	MG/K	6	24%	2.46	2	10	42	0.06	U	0.06	U	0.06	U	0.1	U	0.06	U			0.68	J										
Calcium	MG/K	224000	100%	125300	3	42	42	39000	J	27400		6830						5600		85400											
Chromium	MG/K	29.7	100%	30	0	42	42	13.8		20.9		14		24.1		6.7		18.1		14.8											
Cobalt	MG/K	16.3	100%	30	0	42	42	11.6		11.7		9	J	16.3	J	4.9	J	10.2		8.3	J										
Copper	MG/K	74.5	100%	33	3	42	42	20.9				14.7		32.5		14		18.6		18											
Cyanide	MG/K	2.2	2%	0.35	1	1	42	0.56	U	0.65	U	0.87	U	1	U	0.57	U	0.58	U	0.45	U										
Iron	MG/K	51000	100%	37410	1	42	42	23100	J	11300	J	20800	J	33500	J	13000	J	24100		19400											
Lead	MG/K	431	100%	24.4	8	42	42	17.2	J		J	12.8	J	21.8	J	18.1	J			10											
Magnesium	MG/K	36100	100%	21700	2	42	42	7820	J	9900	J	4390	J	14300	J	11900	J	4530		12700											
Manganese	MG/K	857	100%	1100	0	42	42	378		167		597		786		515		490		429											
Mercury	MG/K	0.15	45%	0.1	3	19	42	0.05	U	0.05	U	0.06	J	0.09	U	0.06	U	0.06	J	0.02	J										
Nickel	MG/K	45.5	93%	50	0	39	42	34.9	J	39	J	18.7	J	45.5	J	12.3	J	27.2		25											
Potassium	MG/K	3670	100%	2623	2	42	42	985	J	1210		881	J	1340	J	731	J	1290	J	1700	J										
Selenium	MG/K	1.9	26%	2	0	11	42	0.95	U	0.93	J	0.98	J	1.5	J	0.9	J	1.9		0.65	J										
Silver	MG/K	1.8	14%	0.8	1	6	42	0.25	U	0.24	U	0.26	U	0.39	U	0.24	U	0.1	U	0.1	U										
Sodium	MG/K	1420	81%	188	4	34	42		J	140	J	53.6	U		J	114	J	30.3	J	129	J										
Thallium	MG/K	1.7	40%	0.855	12	17	42		J		J	1.1	U		U	1	U	0.56	J	0.7	J										
Vanadium	MG/K	36.4	100%	150	0	42	42	14.9		19.9		17.5		23.7		11.1		22.5		15.4											
Zinc	MG/K	6080	100%	115	7	42	42		J		J	49.2	J	108	J	90.2	J	112		53.8											

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID			SEAD-12 TP12A-4 SOIL	SEAD-12 TP12A-4 SOIL	SEAD-12 TP12A-5 SOIL	SEAD-12 TP12A-6 SOIL	SEAD-12 TP12A-6 SOIL	SEAD-12 TP12A-6-2	SEAD-12 TP12A-7-1	SEAD-12 TP12A-8-1	
										TP12A-4-1	TP12A-4-2	TP12A-5-1	TP12A-6-1	TP12A-6-2	TP12A-7-1	TP12A-8-1		
										4	4	3	1	7	4	7		
										4	4	3	1	7	4	7		
										21-Jun-94	21-Jun-94	23-Jun-94	23-Jun-94	23-Jun-94	23-Jun-94	24-Jun-94		
										SA	SA	SA	SA	SA	SA	SA		
										ESI	ESI	ESI	ESI	ESI	ESI	ESI		
PARAMETER	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
<b>Volatle Organics</b>																		
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
1,1-Dichloroethane	UG/K	0	0%	400	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
1,2-Dichloroethane (total)	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
1,2-Dichloropropane	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Acetone	UG/K	61	21%	200	0	9	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Benzene	UG/K	0	0%	60	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Bromodichloromethane	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Bromoform	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Carbon disulfide	UG/K	0	0%	2700	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Carbon tetrachloride	UG/K	0	0%	600	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Chlorobenzene	UG/K	5	5%	1700	0	2	42	5 J		1 J		11 U		11 U		15 UJ		11 U
Chlorodibromomethane	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Chloroethane	UG/K	0	0%	1900	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Chloroform	UG/K	0	0%	300	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Ethyl benzene	UG/K	0	0%	5500	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Methyl bromide	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Methyl butyl ketone	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Methyl chloride	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Methyl ethyl ketone	UG/K	0	0%	300	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Methylene chloride	UG/K	180	12%	100	1	5	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Styrene	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Tetrachloroethane	UG/K	2	2%	1400	0	1	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Toluene	UG/K	62	14%	1500	0	6	42	2 J		12 U		11 U		11 U		15 UJ		11 U
Total Xylenes	UG/K	14	2%	1200	0	1	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
Trichloroethane	UG/K	2	2%	700	0	1	42	2 J		12 U		11 U		11 U		15 UJ		11 U
Vinyl chloride	UG/K	0	0%	200	0	0	42	12 U		12 U		11 U		11 U		15 UJ		11 U
<b>Semi-Volatile Organics</b>																		
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	42	390 U		400 U		370 U		380 U		540 U		370 U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	42	390 U		400 U		370 U		380 U		540 U		370 U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	42	390 U		400 U		370 U		380 U		540 U		370 U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	42	390 U		400 U		370 U		380 U		540 U		370 U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	9	390 U		400 U		370 U		380 U		540 U		370 U
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	42	940 U		960 U		900 U		920 U		1300 U		890 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	42	390 U		400 U		370 U		380 U		540 U		370 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	42	390 U		400 U		370 U		380 U		540 U		370 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	42	390 U		400 U		370 U		380 U		540 U		370 U

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX SAMPLE ID SAMPLE DEPTH TO TOP OF SAMPLE SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	FREQUENCY OF DETECTION		NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12A-4 SOIL TP12A-4-1 21-Jun-94 SA ESI		SEAD-12 TP12A-4 SOIL TP12A-4-2 21-Jun-94 SA ESI		SEAD-12 TP12A-5 SOIL TP12A-5-1 23-Jun-94 SA ESI		SEAD-12 TP12A-6 SOIL TP12A-6-1 23-Jun-94 SA ESI		SEAD-12 TP12A-6 SOIL TP12A-6-2 23-Jun-94 SA ESI		SEAD-12 TP12A-7 SOIL TP12A-7-1 23-Jun-94 SA ESI		SEAD-12 TP12A-8 SOIL TP12A-8-1 24-Jun-94 SA ESI	
		AXIMU	PERCENT					VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	42	940 U	960 U	900 U	920 U	900 U	1300 U	890 U							
2,4-Dinitrotoluene	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
2-Chloronaphthalene	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
2-Chlorophenol	UG/K	0	0%	800	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
2-Methylnaphthalene	UG/K	22	10%	38400	0	4	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
2-Methylphenol	UG/K	0	0%	100	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
2-Nitroaniline	UG/K	0	0%	430	0	0	42	940 U	960 U	900 U	920 U	900 U	1300 U	890 U							
2-Nitrophenol	UG/K	0	0%	330	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
3,3-Dichlorobenzidine	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
3-Nitroaniline	UG/K	0	0%	500	0	0	42	940 U	960 U	900 U	920 U	900 U	1300 U	890 U							
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	42	940 U	960 U	900 U	920 U	900 U	1300 U	890 U							
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
4-Chloroaniline	UG/K	0	0%	220	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
4-Methylphenol	UG/K	0	0%	900	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
4-Nitroaniline	UG/K	0	0%		0	0	42	940 U	960 U	900 U	920 U	900 U	1300 U	890 U							
4-Nitrophenol	UG/K	0	0%	100	0	0	42	940 U	960 U	900 U	920 U	900 U	1300 U	890 U							
Acenaphthene	UG/K	44	12%	50000	0	5	42	390 U	400 U	370 U	44 J	370 U	540 U	370 U							
Acenaphthylene	UG/K	0	0%	41000	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Anthracene	UG/K	63	21%	50000	0	9	42	390 U	400 U	370 U	63 J	370 U	43 J	370 U							
Benzo(a)anthracene	UG/K	200	45%	224	0	19	42	390 U	400 U	370 U	99 J	370 U	150 J	370 U							
Benzo(a)pyrene	UG/K	180	48%	61	4	20	42	390 U	400 U	370 U	71 J	370 U	111 J	370 U							
Benzo(b)fluoranthene	UG/K	320	48%	1100	0	20	42	390 U	400 U	370 U	95 J	370 U	320 J	370 U							
Benzo(ghi)perylene	UG/K	98	43%	50000	0	18	42	390 U	400 U	370 U	29 J	370 U	98 J	370 U							
Benzo(k)fluoranthene	UG/K	170	38%	1100	0	16	42	390 U	400 U	370 U	76 J	370 U	540 U	370 U							
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	33														
Bis(2-Ethylhexyl)phthalate	UG/K	16	14%	50000	0	6	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Butylbenzylphthalate	UG/K	30	12%	50000	0	5	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Carbazole	UG/K	40	14%		0	6	42	390 U	400 U	370 U	40 J	370 U	540 U	370 U							
Chrysene	UG/K	310	50%	400	0	21	42	390 U	400 U	370 U	130 J	370 U	210 J	370 U							
Di-n-butylphthalate	UG/K	52	19%	8100	0	8	42	390 U	400 U	28 J	47 J	32 J	50 J	52 J							
Di-n-octylphthalate	UG/K	20	24%	50000	0	10	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Dibenz(a,h)anthracene	UG/K	99	19%	14	4	8	42	390 U	400 U	370 U	11 J	370 U	11 J	370 U							
Dibenzofuran	UG/K	4.1	2%	6200	0	1	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Diethyl phthalate	UG/K	0	0%	7100	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Dimethylphthalate	UG/K	0	0%	2000	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Fluoranthene	UG/K	320	45%	50000	0	19	42	390 U	400 U	370 U	300 J	370 U	320 J	370 U							
Fluorene	UG/K	35	5%	50000	0	2	42	390 U	400 U	370 U	35 J	370 U	540 U	370 U							
Hexachlorobenzene	UG/K	0	0%	410	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							
Hexachlorobutadiene	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U							

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID								TP12A-4	TP12A-4	TP12A-5	TP12A-6	TP12A-6	TP12A-7	TP12A-8	
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								TP12A-4-1	TP12A-4-2	TP12A-5-1	TP12A-6-1	TP12A-6-2	TP12A-7-1	TP12A-8-1	
SAMPLE DEPTH TO TOP OF SAMPLE								4	4	3	1	7	4	7	
SAMPLE DEPTH TO BOTTOM OF SAMPLE								4	4	3	1	7	4	7	
SAMPLE DATE								21-Jun-94	21-Jun-94	23-Jun-94	23-Jun-94	23-Jun-94	23-Jun-94	24-Jun-94	
QC CODE								SA	SA	SA	SA	SA	SA	SA	
STUDY ID								ESI	ESI	ESI	ESI	ESI	ESI	ESI	
PARAMETER	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
								(Q)	(Q)	(Q)	(Q)	(Q)	(Q)	(Q)	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
Hexachloroethane	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
Indeno(1,2,3-cd)pyrene	UG/K	140	31%	3200	0	13	42	390 U	400 U	370 U	69 J	370 U	140 J	370 U	
Isophorone	UG/K	0	0%	4400	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
N-Nitrosodiphenylamine	UG/K	9500	2%		0	1	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
N-Nitrosodipropylamine	UG/K	0	0%		0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
Naphthalene	UG/K	13	2%	13000	0	1	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
Nitrobenzene	UG/K	0	0%	200	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
Pentachlorophenol	UG/K	0	0%	1000	0	0	42	940 U	960 U	900 U	920 U	900 U	1300 U	890 U	
Phenanthrene	UG/K	280	43%	50000	0	18	42	390 U	400 U	370 U	280 J	370 U	120 J	370 U	
Phenol	UG/K	0	0%	30	0	0	42	390 U	400 U	370 U	380 U	370 U	540 U	370 U	
Pyrene	UG/K	310	48%	50000	0	20	42	390 U	400 U	370 U	230 J	370 U	230 J	370 U	
<b>Pesticides/ PCBs</b>															
4,4'-DDD	UG/K	25	10%	2900	0	4	42	3.9 U	4 U	3.7 U	5.1	3.7 U	5.4 U	3.7 U	
4,4'-DDE	UG/K	6.4	17%	2100	0	7	42	3.9 U	4 U	3.7 U	6.4	3.7 U	2.3 J	3.7 U	
4,4'-DDT	UG/K	4.9	19%	2100	0	8	42	3.9 U	4 U	3.7 U	3.8	3.7 U	5.4 U	3.7 U	
Aldrin	UG/K	0	0%	41	0	0	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Alpha-BHC	UG/K	5.8	2%	110	0	1	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Alpha-Chlordane	UG/K	2.6	2%		0	1	42	2 U	2 U	1.9 U	2 U	1.9 U	2.6 J	1.9 U	
Aroclor-1016	UG/K	0	0%		0	0	42	39 U	40 U	37 U	38 U	37 U	54 U	37 U	
Aroclor-1221	UG/K	0	0%		0	0	42	79 U	81 U	75 U	77 U	75 U	110 U	74 U	
Aroclor-1232	UG/K	0	0%		0	0	42	39 U	40 U	37 U	38 U	37 U	54 U	37 U	
Aroclor-1242	UG/K	0	0%		0	0	42	39 U	40 U	37 U	38 U	37 U	54 U	37 U	
Aroclor-1248	UG/K	0	0%		0	0	42	39 U	40 U	37 U	38 U	37 U	54 U	37 U	
Aroclor-1254	UG/K	28	2%	10000	0	1	42	39 U	40 U	37 U	38 U	37 U	54 U	37 U	
Aroclor-1260	UG/K	25	2%	10000	0	1	42	39 U	40 U	37 U	38 U	37 U	54 U	37 U	
Beta-BHC	UG/K	1.7	2%	200	0	1	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Delta-BHC	UG/K	0	0%	300	0	0	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Dieldrin	UG/K	0	0%	44	0	0	42	3.9 U	4 U	3.7 U	3.8 U	3.7 U	5.4 U	3.7 U	
Endosulfan I	UG/K	0	0%	900	0	0	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Endosulfan II	UG/K	0	0%	900	0	0	42	3.9 U	4 U	3.7 U	3.8 U	3.7 U	5.4 U	3.7 U	
Endosulfan sulfate	UG/K	0	0%	1000	0	0	42	3.9 U	4 U	3.7 U	3.8 U	3.7 U	5.4 U	3.7 U	
Endrin	UG/K	0	0%	100	0	0	42	3.9 U	4 U	3.7 U	3.8 U	3.7 U	5.4 U	3.7 U	
Endrin aldehyde	UG/K	0	0%		0	0	42	3.9 U	4 U	3.7 U	3.8 U	3.7 U	5.4 U	3.7 U	
Endrin ketone	UG/K	0	0%		0	0	42	3.9 U	4 U	3.7 U	3.8 U	3.7 U	5.4 U	3.7 U	
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Gamma-Chlordane	UG/K	2.3	5%	540	0	2	42	2 U	2 U	1.9 U	2 U	1.9 U	2.3 J	1.9 U	
Heptachlor	UG/K	8.4	7%	100	0	3	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Heptachlor epoxide	UG/K	2	2%	20	0	1	42	2 U	2 U	1.9 U	2 U	1.9 U	2.8 U	1.9 U	
Methoxychlor	UG/K	0	0%		0	0	42	20 U	20 U	19 U	20 U	19 U	28 U	19 U	
Toxaphene	UG/K	0	0%		0	0	42	200 U	200 U	190 U	200 U	190 U	280 U	190 U	
<b>Metals</b>															
Aluminum	MG/K	18600	100%	19520	0	42	42	9600	13400	9750	14000	8460	18600	6610	
Antimony	MG/K	0.39	7%	6	0	3	42	0.25 UJ	0.18 UJ	0.26 UJ	0.25 J	0.28 J	0.39 J	0.26 UJ	

TABLE G-9  
DISPOSAL PIT C - CHEMICAL DATA - SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENC	NYSDEC	NUMBER	NUMBER	NUMBER	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
									OF	TAGM	ABOVE	OF	OF	TP12A-4	TP12A-4	TP12A-5	TP12A-6	TP12A-6	TP12A-7	TP12A-8
										4046	TAGM	DETECTS	ANALYSES	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
														TP12A-4-1	TP12A-4-2	TP12A-5-1	TP12A-6-1	TP12A-6-2	TP12A-7-1	TP12A-8-1
														4	4	3	1	7	4	7
														4	4	3	1	7	4	7
														21-Jun-94	21-Jun-94	23-Jun-94	23-Jun-94	23-Jun-94	23-Jun-94	24-Jun-94
														SA	SA	SA	SA	SA	SA	SA
														ESI	ESI	ESI	ESI	ESI	ESI	ESI
														VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
														(Q)	(Q)	(Q)	(Q)	(Q)	(Q)	(Q)
PARAMETER	UNIT	AXIMU	DETECTION																	
Arsenic	MG/K	11.1	100%	8.9	1	42	42	4.2	4.9	3.8	5.2	2.9	7.7	3.1						
Barium	MG/K	135	100%	300	0	42	42	72	102	94.5	78.7	76.2	135	67.4						
Beryllium	MG/K	0.83	100%	1.13	0	42	42	0.48 J	0.63 J	0.45 J	0.61 J	0.4 J	0.83 J	0.31 J						
Cadmium	MG/K	6	24%	2.46	2	10	42	0.57 J	0.82	0.4 J	0.7 J	0.35 J	1 J	0.5 J						
Calcium	MG/K	224000	100%	125300	3	42	42	82800	39100	78800 J	22000 J	62000 J	25400 J	86700 J						
Chromium	MG/K	29.7	100%	30	0	42	42	14.1	18.5	15.1	20.7	14	25	10.6						
Cobalt	MG/K	16.3	100%	30	0	42	42	8.6 J	9.6	8.2 J	10.1	6.8 J	15.7	7.1 J						
Copper	MG/K	74.5	100%	33	3	42	42	21.2	24.2	19.5	21.2	16.4	17.7							
Cyanide	MG/K	2.2	2%	0.35	1	1	42	0.46 U	0.5 U	0.52 U	0.48 U	0.48 U	0.8 U	0.49 U						
Iron	MG/K	51000	100%	37410	1	42	42	18700	23300	18900	26100	17100	34500	14400						
Lead	MG/K	431	100%	24.4	8	42	42	8.9	16.8	15.5 J	22.7 J	11.1 J	12.3 J							
Magnesium	MG/K	36100	100%	21700	2	42	42	15700	9930	19100	6840	11600	10600	1400						
Manganese	MG/K	857	100%	1100	0	42	42	395	419	394	524	358	857	326						
Mercury	MG/K	0.15	45%	0.1	3	19	42	0.03 J	0.03 J	0.04 J	0.08 J	0.03 J	0.11	0.02 J						
Nickel	MG/K	45.5	93%	50	0	39	42	24.8	30.9	24	28.4	22	39.4	18.9						
Potassium	MG/K	3670	100%	2623	2	42	42	1990 J	1990 J	2350 J	1430 J	1700 J	1480 J							
Selenium	MG/K	1.9	28%	2	0	11	42	0.95 J	1.6	0.54 U	1.2	0.48 U	1.2 J	0.54 U						
Silver	MG/K	1.8	14%	0.8	1	6	42	0.1 U	0.07 U	0.1 U	0.08 U	0.09 U	0.13 U	0.1 U						
Sodium	MG/K	1420	81%	188	4	34	42	124 J	107 J	115 J	51.5 J	95 J	26.5 U	112 J						
Thallium	MG/K	1.7	40%	0.855	12	17	42	0.41 J	0.56 J	0.38 U	0.48 J	0.34 U	0.34 J	0.38 U						
Vanadium	MG/K	36.4	100%	150	0	42	42	16.2	21.5	17.5	22.7	14.1	36.4	11						
Zinc	MG/K	6080	100%	115	7	42	42	79.3	79.3	51.1	78.8	53.8	42.6							







TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID								MW12-16		MW12-17		MW12-18		MW12-18		MW12-35		
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE ID								123149		123152		123043		123037		123186		
SAMPLE DEPTH TOP OF SAMPLE								0		0		0		0		0		
SAMPLE DEPTH BOTTOM OF SAMPLE								0.2		0.2		0.2		0.2		0.2		
SAMPLE DATE								17-Oct-98		16-Oct-98		02-Oct-98		02-Oct-98		29-Oct-98		
QC CODE								SA		SA		DU		SA		SA		
STUDY ID				FREQUENCY		NYSDEC		NUMBER		NUMBER		NUMBER		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		
PARAMETER		UNIT		MAXIMU		DETECTION		TAGM		NUMBER		NUMBER		NUMBER		NUMBER		
								4046		ABOVE		OF		OF		OF		
										TAGM		DETECTS		ANALYSES		N		
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	11	12	U	N	12	U	N	11	U	N	12	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	11	12	U	N	12	U	N	11	U	N	12	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	11	12	U	N	12	U	N	11	U	N	12	U
1,1-Dichloroethane	UG/KG	0	0%	400	0	0	11	12	U	N	12	U	N	11	U	N	12	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	11	12	U	N	12	U	N	11	U	N	12	U
1,2-Dichloroethane (total)	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Acetone	UG/KG	7	9%	200	0	1	11	12	U	N	12	UJ	N	11	UJ	N	12	U
Benzene	UG/KG	0	0%	60	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Bromodichloromethane	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Bromoform	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Chlorodibromomethane	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Chloroethane	UG/KG	0	0%	1900	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Chloroform	UG/KG	0	0%	300	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Methyl bromide	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Methyl butyl ketone	UG/KG	0	0%		0	0	11	12	U	N	12	UJ	N	11	U	N	12	U
Methyl chloride	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	11	12	U	N	12	UJ	N	11	U	N	12	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Methylene chloride	UG/KG	0	0%	100	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Styrene	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Toluene	UG/KG	26	18%	1500	0	2	11	12	U	N	12	U	N	26	J	N	3	J
Total Xylenes	UG/KG	0	0%	1200	0	0	11	12	U	N	12	U	N	11	U	N	12	U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	11	12	U	N	12	U	N	11	U	N	12	U

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY		SEAD-12																			
LOCATION ID		MW12-16				MW12-17				MW12-18				MW12-18				MW12-35			
MATRIX		SOIL																			
SAMPLE ID		123149				123152				123043				123037				123186			
SAMPLE DEPTH TOP OF SAMPLE		0																			
SAMPLE DEPTH BOTTOM OF SAMPLE		0.2																			
SAMPLE DATE		17-Oct-98				16-Oct-98				02-Oct-98				02-Oct-98				29-Oct-98			
QC CODE		SA																			
STUDY ID		FREQUENCY OF DETECTION		NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE 1 STEP 1 N	RI PHASE 1 STEP 1 N	RI PHASE 1 STEP 1 N	RI PHASE 1 STEP 1 N	RI PHASE 1 STEP 1 N	RI PHASE 1 STEP 1 N	RI PHASE 1 STEP 1 N	RI PHASE 1 STEP 1 N						
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES	N	N	N	N	N	N	N	N						
Trichloroethene	UG/KG	0	0%	700	0	0	11	12	U												
Vinyl chloride	UG/KG	0	0%	200	0	0	11	12	U												
1,2,4-Trichlorobenzene	UG/KG	11	9%	3400	0	1	11	89	UJ												
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	11	89	U												
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	11	89	U												
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	11	89	U												
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%		0	0	1														
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	11	220	U												
2,4,8-Trichlorophenol	UG/KG	0	0%		0	0	11	89	U												
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	11	89	U												
2,4-Dimethylphenol	UG/KG	0	0%		0	0	11	89	UJ												
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	11	220	UJ												
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	11	89	U												
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	11	89	U												
2-Chloronaphthalene	UG/KG	0	0%		0	0	11	89	U												
2-Chlorophenol	UG/KG	0	0%	800	0	0	11	89	U												
2-Methylnaphthalene	UG/KG	5.5	9%	36400	0	1	11	89	U												
2-Methylphenol	UG/KG	0	0%	100	0	0	11	89	U												
2-Nitroaniline	UG/KG	0	0%	430	0	0	11	220	U												
2-Nitrophenol	UG/KG	0	0%	330	0	0	11	89	U												
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	11	89	U												
3-Nitroaniline	UG/KG	0	0%	500	0	0	11	220	U												
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	11	220	U												
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	11	89	U												
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	11	89	U												
4-Chloroaniline	UG/KG	0	0%	220	0	0	11	89	U												
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	11	89	U												
4-Methylphenol	UG/KG	0	0%	900	0	0	11	89	U												
4-Nitroaniline	UG/KG	0	0%		0	0	11	220	U												
4-Nitrophenol	UG/KG	0	0%	100	0	0	11	220	UJ												
Acenaphthene	UG/KG	0	0%	50000	0	0	11	89	U												

TABLE G-10  
FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID									MW12-16	MW12-17	MW12-18	MW12-18	MW12-35
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID									123149	123152	123043	123037	123188
SAMPLE DEPTH TOP OF SAMPLE									0	0	0	0	0
SAMPLE DEPTH BOTTOM OF SAMPLE									0.2	0.2	0.2	0.2	0.2
SAMPLE DATE									17-Oct-98	16-Oct-98	02-Oct-98	02-Oct-98	29-Oct-98
QC CODE									SA	SA	DU	SA	SA
STUDY ID		FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	N	N	N	N	N	
			DETECTION	4046	TAGM	DETECTS	ANALYSES						
Acenaphthylene	UG/KG	0	0%	41000	0	0	11	89 U	84 U	72 U	72 U	76 U	
Anthracene	UG/KG	0	0%	50000	0	0	11	89 U	84 UJ	72 U	72 U	76 U	
Benzo(a)anthracene	UG/KG	26	45%	224	0	5	11	89 U	84 U	8 J	5.7 J	9.3 J	
Benzo(a)pyrene	UG/KG	20	55%	61	0	6	11	89 U	84 UJ	9.4 J	6.2 J	8.8 J	
Benzo(b)fluoranthene	UG/KG	34	55%	1100	0	6	11	89 U	84 U	10 J	9 J	11 J	
Benzo(ghi)perylene	UG/KG	11	18%	50000	0	2	11	89 U	84 U	11 J	72 U	6.6 J	
Benzo(k)fluoranthene	UG/KG	20	55%	1100	0	6	11	89 U	84 U	11 J	7.5 J	9.2 J	
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	11	89 U	84 U	72 U	72 U	76 U	
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	11	89 U	84 U	72 U	72 U	76 U	
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	10	89 U	84 U	72 U	72 U	76 U	
Bis(2-Ethylhexyl)phthalate	UG/KG	36	27%	50000	0	3	11	36 J	84 U	72 U	9.9 J	76 UJ	
Butylbenzylphthalate	UG/KG	5.9	9%	50000	0	1	11	89 U	84 U	72 UJ	72 UJ	76 UJ	
Carbazole	UG/KG	0	0%		0	0	11	89 UJ	84 UJ	72 UJ	72 UJ	76 U	
Chrysene	UG/KG	32	64%	400	0	7	11	9.2 J	84 U	11 J	7.5 J	13 J	
Di-n-butylphthalate	UG/KG	4.5	27%	8100	0	3	11	610 UJ	84 U	72 UJ	4.1 J	76 U	
Di-n-octylphthalate	UG/KG	15	36%	50000	0	4	11	89 U	15 J	7.4 J	15 J	76 U	
Dibenz(a,h)anthracene	UG/KG	0	0%	14	0	0	11	89 U	84 U	72 U	72 U	78 UJ	
Dibenzofuran	UG/KG	0	0%	8200	0	0	11	89 U	84 UJ	72 U	72 U	78 U	
Diethyl phthalate	UG/KG	11	9%	7100	0	1	11	89 U	84 U	72 U	72 UJ	76 U	
Dimethylphthalate	UG/KG	0	0%	2000	0	0	11	89 U	84 U	72 U	72 U	76 U	
Fluoranthene	UG/KG	64	82%	50000	0	9	11	89 U	11 J	16 J	11 J	17 J	
Fluorene	UG/KG	0	0%	50000	0	0	11	89 U	84 U	72 U	72 U	76 U	
Hexachlorobenzene	UG/KG	0	0%	410	0	0	11	89 U	84 U	72 U	72 U	76 U	
Hexachlorobutadiene	UG/KG	0	0%		0	0	11	89 UJ	84 UJ	72 U	72 U	76 U	
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	11	89 UJ	84 U	72 U	72 UJ	76 UJ	
Hexachloroethane	UG/KG	0	0%		0	0	11	89 U	84 U	72 U	72 U	76 U	
Indeno(1,2,3-cd)pyrene	UG/KG	7.5	36%	3200	0	4	11	89 U	84 U	7.5 J	4.8 J	5.8 J	
Isophorone	UG/KG	0	0%	4400	0	0	11	89 U	84 UJ	72 UJ	72 U	76 U	
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	11	89 U	84 U	72 U	72 U	76 U	
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	11	89 U	84 U	72 U	72 U	76 U	
Naphthalene	UG/KG	5.4	9%	13000	0	1	11	89 U	84 UJ	72 U	72 U	76 U	

TABLE G-10  
FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID								MW12-16		MW12-17		MW12-18		MW12-18		MW12-35	
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID								123149		123152		123043		123037		123186	
SAMPLE DEPTH TOP OF SAMPLE								0		0		0		0		0	
SAMPLE DEPTH BOTTOM OF SAMPLE								0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE								17-Oct-98		16-Oct-98		02-Oct-98		02-Oct-98		29-Oct-98	
QC CODE								SA		SA		DU		SA		SA	
STUDY ID								RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Nitrobenzene	UG/KG	0	0%	200	0	0	11	89	UJ	84	U	72	U	72	U	76	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	11	220	UJ	200	UR	170	U	170	UJ	180	U
Phenanthrene	UG/KG	34	84%	50000	0	7	11	12	J	84	U	8.2	J	8.2	J	8.8	J
Phenol	UG/KG	0	0%	30	0	0	11	89	U	84	U	72	U	72	U	76	U
Pyrene	UG/KG	51	82%	50000	0	9	11	89	U	8.9	J	14	J	13	J	17	J
4,4'-DDD	UG/KG	0	0%	2900	0	0	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
4,4'-DDE	UG/KG	2	9%	2100	0	1	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
4,4'-DDT	UG/KG	4.2	9%	2100	0	1	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
Aldrin	UG/KG	0	0%	41	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Alpha-BHC	UG/KG	0	0%	110	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Alpha-Chlordane	UG/KG	0	0%		0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Aroclor-1016	UG/KG	0	0%		0	0	11	44	U	42	U	36	U	36	U	38	U
Aroclor-1221	UG/KG	0	0%		0	0	11	90	U	85	U	73	U	73	U	77	U
Aroclor-1232	UG/KG	0	0%		0	0	11	44	U	42	U	36	U	36	U	38	U
Aroclor-1242	UG/KG	17	9%		0	1	11	44	U	42	U	36	U	36	U	38	U
Aroclor-1248	UG/KG	0	0%		0	0	11	44	U	42	U	36	U	36	U	38	U
Aroclor-1254	UG/KG	23	9%	10000	0	1	11	44	U	42	U	36	U	36	U	38	U
Aroclor-1280	UG/KG	25	9%	10000	0	1	11	44	U	42	U	38	U	36	U	38	U
Beta-BHC	UG/KG	0	0%	200	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Delta-BHC	UG/KG	0	0%	300	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Dieldrin	UG/KG	0	0%	44	0	0	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
Endosulfan I	UG/KG	0	0%	900	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Endosulfan II	UG/KG	0	0%	900	0	0	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
Endrin	UG/KG	0	0%	100	0	0	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
Endrin aldehyde	UG/KG	2.2	9%		0	1	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
Endrin ketone	UG/KG	0	0%		0	0	11	4.4	U	4.2	U	3.6	U	3.6	U	3.8	U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Heptachlor	UG/KG	0	0%	100	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	11	2.3	U	2.2	U	1.8	U	1.8	U	2	U

TABLE G-10  
FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12			
LOCATION ID								MW12-16	MW12-17	MW12-18	MW12-18	MW12-35			
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL			
SAMPLE ID								123149	123152	123043	123037	123186			
SAMPLE DEPTH TOP OF SAMPLE								0	0	0	0	0			
SAMPLE DEPTH BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2			
SAMPLE DATE								17-Oct-98	16-Oct-98	02-Oct-98	02-Oct-98	29-Oct-98			
QC CODE								SA	SA	DU	SA	SA			
STUDY ID				FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1			
				OF	TAGM	ABOVE	OF	OF							
PARAMETER		MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES	N				N			
Methoxychlor	UG/KG	0	0%		0	0	11	23	U	22	U	18	U	20	U
Toxaphene	UG/KG	0	0%		0	0	11	230	U	220	U	180	U	200	U
Aluminum	MG/KG	13600	100%	19520	0	11	11	13600		11600	J	7580		8220	
Antimony	MG/KG	1.2	9%	6	0	1	11	1.2	UR	1.4	UR	1.1	UR	1.2	UR
Arsenic	MG/KG	6.6	100%	8.9	0	11	11	3.9		4.3		3.7		4.5	
Barium	MG/KG	102	100%	300	0	11	11	95.4		86.5	J	58.1		63.5	
Beryllium	MG/KG	0.56	100%	1.13	0	11	11	0.5	J	0.56	J	0.23	J	0.32	J
Cadmium	MG/KG	0.63	9%	2.46	0	1	11	0.06	U	0.07	U	0.05	U	0.06	U
Calcium	MG/KG	118000	100%	125300	0	11	11	8330		4870		88500	J	68900	J
Chromium	MG/KG	17.3	100%	30	0	11	11	17.3		15.4		9.4	J	13.5	J
Cobalt	MG/KG	10.4	100%	30	0	11	11	9.1	J	8.6	J	8.6	J	8.6	J
Copper	MG/KG	30.4	100%	33	0	11	11	22.8		16.9		19.3		21.2	
Cyanide	MG/KG	0	0%	0.35	0	0	11	0.7	U	0.85	U	0.54	U	0.55	UJ
Iron	MG/KG	23400	100%	37410	0	11	11	20500		21500	J	15900		17400	
Lead	MG/KG	20.5	100%	24.4	0	11	11	20.5		15.7	J	8.5	J	7.7	J
Magnesium	MG/KG	23800	100%	21700	1	11	11	4290		3640	J	13000		12900	
Manganese	MG/KG	551	100%	1100	0	11	11	551		445		517	J	409	J
Mercury	MG/KG	0.04	9%	0.1	0	1	11	0.07	U	0.06	U	0.05	UJ	0.05	U
Nickel	MG/KG	30.3	91%	50	0	10	11	23.3		20.8	J	21.4	J	24.4	J
Potassium	MG/KG	1870	100%	2623	0	11	11	1770		1010	J	1600		1530	
Selenium	MG/KG	1.3	27%	2	0	3	11	0.91	UJ	1.1	UJ	0.41	U	0.86	U
Silver	MG/KG	0.39	18%	0.8	0	2	11	0.24	U	0.28	U	0.27	J	0.22	U
Sodium	MG/KG	276	64%	188	3	7	11	49.6	U	59.7	U		J		J
Thallium	MG/KG	2	36%	0.855	3	4	11		J	1.2	U	0.92	UJ	1.3	U
Vanadium	MG/KG	22.8	100%	150	0	11	11	22.8		19.9		14.5		15.6	
Zinc	MG/KG	72.5	100%	115	0	11	11	72.5		47	J	40.6	J	52.2	J

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY		SEAD-12																			
LOCATION ID		MW12-9				MW12B-1				SB12-5A				SS12-144				SS12-145			
MATRIX		SOIL				SOIL				SOIL				SOIL				SOIL			
SAMPLE ID		123155				MW12B-1-00				123098				123339				123340			
SAMPLE DEPTH TOP OF SAMPLE		0				0				0				0				0			
SAMPLE DEPTH BOTTOM OF SAMPLE		0.2				0.2				0.2				0.2				0.2			
SAMPLE DATE		17-Oct-98				13-Jun-94				14-Oct-98				17-Nov-98				17-Nov-98			
QC CODE		SA				SA				SA				SA				SA			
STUDY ID		FREQUENCY		NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE 1 STEP 1		ESI	RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1				
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	N		N	N	N	N	N	N	N	N	N			
		DETECTION	4046	TAGM	TAGM	DETECTS	ANALYSES														
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	11	12	U	11	U	11	U	12	U	11	U				
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	11	12	U	11	U	11	U	12	U	12	U				
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	11	12	U	11	U	11	U	12	U	12	U				
1,1-Dichloroethane	UG/KG	0	0%	400	0	0	11	12	U	11	U	11	U	12	U	12	U				
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	11	12	U	11	U	11	U	12	U	12	U				
1,2-Dichloroethane (total)	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Acetone	UG/KG	7	9%	200	0	1	11	12	U	11	U	11	U	7	J	11	U				
Benzene	UG/KG	0	0%	60	0	0	11	12	U	11	U	11	U	12	U	12	U				
Bromodichloromethane	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Bromoform	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Carbon disulfide	UG/KG	0	0%	2700	0	0	11	12	U	11	U	11	U	12	U	12	U				
Carbon tetrachloride	UG/KG	0	0%	600	0	0	11	12	U	11	U	11	U	12	U	12	U				
Chlorobenzene	UG/KG	0	0%	1700	0	0	11	12	U	11	U	11	U	12	U	12	U				
Chlorodibromomethane	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Chloroethane	UG/KG	0	0%	1900	0	0	11	12	U	11	U	11	U	12	U	12	U				
Chloroform	UG/KG	0	0%	300	0	0	11	12	U	11	U	11	U	12	U	12	U				
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Ethyl benzene	UG/KG	0	0%	5500	0	0	11	12	U	11	U	11	U	12	U	12	U				
Methyl bromide	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Methyl butyl ketone	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Methyl chloride	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	11	12	U	11	U	11	U	12	U	12	U				
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	11	12	U	11	U	11	U	12	U	12	U				
Methylene chloride	UG/KG	0	0%	100	0	0	11	12	U	11	U	11	U	12	U	12	U				
Styrene	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				
Tetrachloroethene	UG/KG	0	0%	1400	0	0	11	12	U	11	U	11	U	12	U	12	U				
Toluene	UG/KG	26	18%	1500	0	2	11	12	U	11	U	11	U	12	U	12	U				
Total Xylenes	UG/KG	0	0%	1200	0	0	11	12	U	11	U	11	U	12	U	12	U				
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	11	12	U	11	U	11	U	12	U	12	U				



TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12							
LOCATION ID								MW12-9		MW12B-1		SB12-5A		SS12-144		SS12-145							
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL							
SAMPLE ID								123155		MW12B-1-00		123096		123339		123340							
SAMPLE DEPTH TOP OF SAMPLE								0		0		0		0		0							
SAMPLE DEPTH BOTTOM OF SAMPLE								0.2		0.2		0.2		0.2		0.2							
SAMPLE DATE								17-Oct-98		13-Jun-94		14-Oct-98		17-Nov-98		17-Nov-98							
QC CODE								SA		SA		SA		SA		SA							
STUDY ID				FREQUENCY		NYSDEC		NUMBER		NUMBER		NUMBER		RI PHASE 1 STEP 1		ESI		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1	
PARAMETER		UNIT		MAXIMU		OF		TAGM		ABOVE		OF		OF		N		N		N		N	
						DETECTION		4046		TAGM		DETECTS		ANALYSES		N		N		N		N	
Trichloroethene	UG/KG	0	0%	700	0	0	11	12	U	11	11	U	11	U	12	U	11	U	11	U	11	U	
Vinyl chloride	UG/KG	0	0%	200	0	0	11	12	U	11	11	U	11	U	12	U	11	U	11	U	11	U	
1,2,4-Trichlorobenzene	UG/KG	11	9%	3400	0	1	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
1,3-Dichlorobenzene	UG/KG	0	0%	1800	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%		0	0	1			1	360	U											
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	11	200	U	11	880	U	180	U	190	U	180	U	180	U	180	U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2,4-Dimethylphenol	UG/KG	0	0%		0	0	11	82	UJ	11	360	U	75	UJ	77	UJ	73	UJ	73	UJ	73	UJ	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	11	200	UJ	11	880	U	180	U	190	UJ	180	UJ	180	UJ	180	UJ	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2-Chloronaphthalene	UG/KG	0	0%		0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2-Methylnaphthalene	UG/KG	5.5	9%	36400	0	1	11	82	U	11	360	U	5.5	J	77	U	73	U	73	U	73	U	
2-Methylphenol	UG/KG	0	0%	100	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	11	200	U	11	880	U	180	U	190	U	180	U	180	U	180	U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	11	82	U	11	360	U	75	UJ	77	U	73	U	73	U	73	U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	11	82	U	11	360	U	75	U	77	UJ	73	UJ	73	UJ	73	UJ	
3-Nitroaniline	UG/KG	0	0%	500	0	0	11	200	U	11	880	U	180	U	190	U	180	U	180	U	180	U	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	11	200	U	11	880	U	180	U	190	UJ	180	UJ	180	UJ	180	UJ	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	11	82	U	11	360	U	75	UJ	77	UJ	73	UJ	73	UJ	73	UJ	
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
4-Methylphenol	UG/KG	0	0%	900	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	
4-Nitroaniline	UG/KG	0	0%		0	0	11	200	UJ	11	880	U	180	U	190	U	180	U	180	U	180	U	
4-Nitrophenol	UG/KG	0	0%	100	0	0	11	200	UJ	11	880	U	180	U	190	U	180	U	180	U	180	U	
Acenaphthene	UG/KG	0	0%	50000	0	0	11	82	U	11	360	U	75	U	77	U	73	U	73	U	73	U	

TABLE G-10  
FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY			SEAD-12			SEAD-12			SEAD-12			SEAD-12			SEAD-12		
LOCATION ID			MW12-9			MW12B-1			SB12-5A			SS12-144			SS12-145		
MATRIX			SOIL			SOIL			SOIL			SOIL			SOIL		
SAMPLE ID			123155			MW12B-1-00			123096			123339			123340		
SAMPLE DEPTH TOP OF SAMPLE			0			0			0			0			0		
SAMPLE DEPTH BOTTOM OF SAMPLE			0.2			0.2			0.2			0.2			0.2		
SAMPLE DATE			17-Oct-98			13-Jun-94			14-Oct-98			17-Nov-98			17-Nov-98		
QC CODE			SA			SA			SA			SA			SA		
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE	STEP 1	ESI	RI PHASE	STEP 1	RI PHASE	STEP 1	RI PHASE	STEP 1	
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	N	N	N	N	N	N	N	N		
			DETECTION	4046	TAGM	DETECTS	ANALYSES										
Acenaphthylene	UG/KG	0	0%	41000	0	0	11	82	U	360	U	75	U	77	U	73	U
Anthracene	UG/KG	0	0%	50000	0	0	11	82	U	360	U	75	U	77	U	73	U
Benzo(a)anthracene	UG/KG	26	45%	224	0	5	11	82	U	26	J	8.3	J	77	U	73	U
Benzo(a)pyrene	UG/KG	20	55%	61	0	6	11	82	U	20	J	7.7	J	3.9	J	73	U
Benzo(b)fluoranthene	UG/KG	34	55%	1100	0	6	11	82	U	34	J	9.9	J	5.6	J	73	U
Benzo(ghi)perylene	UG/KG	11	18%	50000	0	2	11	82	U	360	U	75	UJ	77	U	73	U
Benzo(k)fluoranthene	UG/KG	20	55%	1100	0	6	11	82	U	20	J	9.8	J	3.9	J	73	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	11	82	U	360	U	75	U	77	U	73	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	11	82	U	360	U	75	U	77	UJ	73	UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	10	82	U			75	U	77	U	73	U
Bis(2-Ethylhexyl)phthalate	UG/KG	38	27%	50000	0	3	11	11	J	360	U	75	UJ	77	UJ	73	UJ
Butylbenzylphthalate	UG/KG	5.9	9%	50000	0	1	11	5.9	J	360	U	75	UJ	77	UJ	73	UJ
Carbazole	UG/KG	0	0%		0	0	11	82	U	360	U	75	UJ	77	UJ	73	UJ
Chrysene	UG/KG	32	64%	400	0	7	11	82	U	32	J	14	J	6.1	J	73	UJ
Di-n-butylphthalate	UG/KG	4.5	27%	8100	0	3	11	570	UJ	360	U	75	UJ	4.1	J	4.5	J
Di-n-octylphthalate	UG/KG	15	36%	50000	0	4	11	82	U	360	U	9.8	J	77	UJ	73	UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	14	0	0	11	82	U	360	U	75	UJ	77	U	73	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	11	82	U	360	U	75	U	77	U	73	U
Diethyl phthalate	UG/KG	11	9%	7100	0	1	11	82	U	360	U	11	J	77	U	73	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	11	82	U	360	U	75	U	77	U	73	U
Fluoranthene	UG/KG	64	82%	50000	0	9	11	5.6	J	64	J	16	J	8.5	J	3.9	J
Fluorene	UG/KG	0	0%	50000	0	0	11	82	U	360	U	75	U	77	U	73	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	11	82	U	360	U	75	U	77	U	73	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	11	82	U	360	U	75	UJ	77	U	73	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	11	82	U	360	U	75	U	77	UJ	73	UJ
Hexachloroethane	UG/KG	0	0%		0	0	11	82	U	360	U	75	U	77	U	73	U
Indeno(1,2,3-cd)pyrene	UG/KG	7.5	36%	3200	0	4	11	82	U	360	U	5.2	J	77	U	73	U
Isophorone	UG/KG	0	0%	4400	0	0	11	82	U	360	U	75	U	77	U	73	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	11	82	U	360	U	75	U	77	U	73	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	11	82	U	360	U	75	U	77	U	73	U
Naphthalene	UG/KG	5.4	9%	13000	0	1	11	82	U	360	U	5.4	J	77	U	73	U



TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12				
FACILITY				MW12-9		MW12B-1		SB12-5A		SS12-144		SS12-145				
LOCATION ID				SOIL		SOIL		SOIL		SOIL		SOIL				
MATRIX				123155		MW12B-1-00		123096		123339		123340				
SAMPLE ID				0		0		0		0		0				
SAMPLE DEPTH TOP OF SAMPLE				0.2		0.2		0.2		0.2		0.2				
SAMPLE DEPTH BOTTOM OF SAMPLE				17-Oct-98		13-Jun-94		14-Oct-98		17-Nov-98		17-Nov-98				
SAMPLE DATE				SA		SA		SA		SA		SA				
QC CODE				SA		SA		SA		SA		SA				
STUDY ID				FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1	RI PHASE 1	STEP 1		
PARAMETER	UNIT	MAXIMU	DETECTION	TAGM	NUMBER	NUMBER	NUMBER	ESI		RI PHASE 1	STEP 1	RI PHASE 1	STEP 1			
				4046	ABOVE	OF	OF									
				TAGM	TAGM	DETECTS	ANALYSES	N		N		N				
Nitrobenzene	UG/KG	0	0%	200	0	0	11	82 U		360 U		75 U		77 U		73 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	11	200 U		880 U		180 UJ		190 UR		180 UR
Phenanthrene	UG/KG	34	64%	50000	0	7	11	82 U		34 J		14 J		6.7 J		73 U
Phenol	UG/KG	0	0%	30	0	0	11	82 U		360 U		75 U		77 U		73 U
Pyrene	UG/KG	51	82%	50000	0	9	11	5.2 J		51 J		20 J		9.2 J		4.6 J
4,4'-DDD	UG/KG	0	0%	2900	0	0	11	4.1 U		3.6 U		3.8 U		3.8 U		3.7 U
4,4'-DDE	UG/KG	2	9%	2100	0	1	11	4.1 U		2 J		3.8 U		3.8 U		3.7 U
4,4'-DDT	UG/KG	4.2	9%	2100	0	1	11	4.1 U		3.6 U		3.8 U		4.2		3.7 U
Aldrin	UG/KG	0	0%	41	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Alpha-BHC	UG/KG	0	0%	110	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Alpha-Chlordane	UG/KG	0	0%		0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Aroclor-1016	UG/KG	0	0%		0	0	11	4.1 U		36 U		38 U		38 U		37 U
Aroclor-1221	UG/KG	0	0%		0	0	11	84 U		74 U		76 U		78 U		74 U
Aroclor-1232	UG/KG	0	0%		0	0	11	4.1 U		36 U		38 U		38 U		37 U
Aroclor-1242	UG/KG	17	9%		0	1	11	4.1 U		17 J		38 U		38 U		37 U
Aroclor-1248	UG/KG	0	0%		0	0	11	4.1 U		36 U		38 U		38 U		37 U
Aroclor-1254	UG/KG	23	9%	10000	0	1	11	4.1 U		36 U		38 U		23 J		37 U
Aroclor-1280	UG/KG	25	9%	10000	0	1	11	4.1 U		38 U		38 U		25 J		37 U
Beta-BHC	UG/KG	0	0%	200	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Delta-BHC	UG/KG	0	0%	300	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Dieldrin	UG/KG	0	0%	44	0	0	11	4.1 U		3.6 U		3.8 U		3.8 U		3.7 U
Endosulfan I	UG/KG	0	0%	900	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Endosulfan II	UG/KG	0	0%	900	0	0	11	4.1 U		3.6 U		3.8 U		3.8 U		3.7 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	11	4.1 U		3.6 U		3.8 U		3.8 U		3.7 U
Endrin	UG/KG	0	0%	100	0	0	11	4.1 U		3.6 U		3.8 U		3.8 U		3.7 U
Endrin aldehyde	UG/KG	2.2	9%		0	1	11	4.1 U		3.6 U		3.8 U		2.2 J		3.7 U
Endrin ketone	UG/KG	0	0%		0	0	11	4.1 U		3.6 U		3.8 U		3.8 U		3.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Heptachlor	UG/KG	0	0%	100	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	11	2.1 U		1.9 U		1.9 U		2 U		1.9 U

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID		MW12-9		MW12B-1		SB12-5A		SS12-144		SS12-145		
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE ID		123155		MW12B-1-00		123096		123339		123340		
SAMPLE DEPTH TOP OF SAMPLE		0		0		0		0		0		
SAMPLE DEPTH BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2		0.2		
SAMPLE DATE		17-Oct-98		13-Jun-94		14-Oct-98		17-Nov-98		17-Nov-98		
QC CODE		SA		SA		SA		SA		SA		
STUDY ID		FREQUENCY		NYSDEC		NUMBER		NUMBER		NUMBER		
		OF		TAGM		ABOVE		OF		OF		
PARAMETER		MAXIMU		4046		TAGM		DETECTS		ANALYSES		
UNIT		DETECTION						N		N		
		0%						N		N		
Methoxychlor	UG/KG	0	0%		0	0	11	21 U	19 U	19 U	20 U	19 U
Toxaphene	UG/KG	0	0%		0	0	11	210 U	190 U	190 U	200 U	190 U
Aluminum	MG/KG	13600	100%	19520	0	11	11	11800	10800	6760 J	7700 J	7840 J
Antimony	MG/KG	1.2	9%	6	0	1	11	1.2 UR	0.23 UJ	1 UR	0.96 UR	1.2 UR
Arsenic	MG/KG	6.6	100%	8.9	0	11	11	4.4	6.6	5.2 J	3.1	3.3
Barium	MG/KG	102	100%	300	0	11	11	63.1	102	77.9	56.2	74.9
Beryllium	MG/KG	0.56	100%	1.13	0	11	11	0.43 J	0.53 J	0.28 J	0.3 J	0.36 J
Cadmium	MG/KG	0.63	9%	2.46	0	1	11	0.06 U	0.63 J	0.05 U	0.28 U	0.36 U
Calcium	MG/KG	116000	100%	125300	0	11	11	2820	45900	72100 J	95600	116000
Chromium	MG/KG	17.3	100%	30	0	11	11	15.4	16	12.3	12.8	14.2
Cobalt	MG/KG	10.4	100%	30	0	11	11	9.6 J	9.2	10.4 J	6.7 J	5.2 J
Copper	MG/KG	30.4	100%	33	0	11	11	15.9	30.4	20.7	18.3	20.6
Cyanide	MG/KG	0	0%	0.35	0	0	11	0.66 U	0.5 U	0.61 U	0.6 U	0.58 U
Iron	MG/KG	23400	100%	37410	0	11	11	20100	23400	20600	16700 J	17700 J
Lead	MG/KG	20.5	100%	24.4	0	11	11	14 J	17.1	14.7 J	10.5 J	9.2 J
Magnesium	MG/KG	23800	100%	21700	1	11	11	3280	11400	10900 J		11400
Manganese	MG/KG	551	100%	1100	0	11	11	469	418	392	393	374
Mercury	MG/KG	0.04	9%	0.1	0	1	11	0.06 U	0.04 J	0.06 U	0.05 U	0.05 U
Nickel	MG/KG	30.3	91%	50	0	10	11	19.3	28	30.3 J	20.7	21.2
Potassium	MG/KG	1870	100%	2623	0	11	11	1030	1870 J	932	1560	1500
Selenium	MG/KG	1.3	27%	2	0	3	11	0.91 UJ	1.3	0.77 U	0.45 J	0.45 UJ
Silver	MG/KG	0.39	18%	0.8	0	2	11	0.24 U	0.09 U	0.2 U	0.19 U	0.24 U
Sodium	MG/KG	276	64%	188	3	7	11	49.9 U	76.2 J	97.5 J	96 J	111 J
Thallium	MG/KG	2	36%	0.855	3	4	11	1 U	0.41 J	1 J	0.82 U	1 U
Vanadium	MG/KG	22.8	100%	150	0	11	11	19.5	20.9	12.8	14.6	13.9
Zinc	MG/KG	72.5	100%	115	0	11	11	48	62.7	59.2 J	42.7 J	44.2 J

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY										SEAD-12	
LOCATION ID										SS12-146	
MATRIX										SOIL	
SAMPLE ID										123341	
SAMPLE DEPTH TOP OF SAMPLE										0	
SAMPLE DEPTH BOTTOM OF SAMPLE										0.2	
SAMPLE DATE										17-Nov-98	
QC CODE										SA	
STUDY ID				FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE	STEP	
PARAMETER	UNIT	MAXIMU	OF	4048	ABOVE	OF	OF	OF	N		
			DETECTION	TAGM	TAGM	DETECTS	ANALYSES				
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	11		11	U	
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	11		11	U	
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	11		11	U	
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	11		11	U	
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	11		11	U	
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	11		11	U	
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	11		11	U	
1,2-Dichloropropane	UG/KG	0	0%		0	0	11		11	U	
Acetone	UG/KG	7	9%	200	0	1	11		11	U	
Benzene	UG/KG	0	0%	60	0	0	11		11	U	
Bromodichloromethane	UG/KG	0	0%		0	0	11		11	U	
Bromoform	UG/KG	0	0%		0	0	11		11	U	
Carbon disulfide	UG/KG	0	0%	2700	0	0	11		11	U	
Carbon tetrachloride	UG/KG	0	0%	600	0	0	11		11	U	
Chlorobenzene	UG/KG	0	0%	1700	0	0	11		11	U	
Chlorodibromomethane	UG/KG	0	0%		0	0	11		11	U	
Chloroethane	UG/KG	0	0%	1900	0	0	11		11	U	
Chloroform	UG/KG	0	0%	300	0	0	11		11	U	
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	11		11	U	
Ethyl benzene	UG/KG	0	0%	5500	0	0	11		11	U	
Methyl bromide	UG/KG	0	0%		0	0	11		11	U	
Methyl butyl ketone	UG/KG	0	0%		0	0	11		11	U	
Methyl chloride	UG/KG	0	0%		0	0	11		11	U	
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	11		11	U	
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	11		11	U	
Methylene chloride	UG/KG	0	0%	100	0	0	11		11	U	
Styrene	UG/KG	0	0%		0	0	11		11	U	
Tetrachloroethene	UG/KG	0	0%	1400	0	0	11		11	U	
Toluene	UG/KG	26	18%	1500	0	2	11		11	U	
Total Xylenes	UG/KG	0	0%	1200	0	0	11		11	U	
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	11		11	U	

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY										SEAD-12	
LOCATION ID										SS12-146	
MATRIX										SOIL	
SAMPLE ID										123341	
SAMPLE DEPTH TOP OF SAMPLE										0	
SAMPLE DEPTH BOTTOM OF SAMPLE										0.2	
SAMPLE DATE										17-Nov-98	
QC CODE										SA	
STUDY ID										RI PHASE 1 STEP 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4048	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N			
Trichloroethene	UG/KG	0	0%	700	0	0	11	11	U		
Vinyl chloride	UG/KG	0	0%	200	0	0	11	11	U		
1,2,4-Trichlorobenzene	UG/KG	11	9%	3400	0	1	11	73	U		
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	11	73	U		
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	11	73	U		
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	11	73	U		
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%		0	0	1				
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	11	180	U		
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	11	73	U		
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	11	73	U		
2,4-Dimethylphenol	UG/KG	0	0%		0	0	11	73	U		
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	11	180	U		
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	11	73	U		
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	11	73	U		
2-Chloronaphthalene	UG/KG	0	0%		0	0	11	73	U		
2-Chlorophenol	UG/KG	0	0%	800	0	0	11	73	U		
2-Methylnaphthalene	UG/KG	5.5	9%	36400	0	1	11	73	U		
2-Methylphenol	UG/KG	0	0%	100	0	0	11	73	U		
2-Nitroaniline	UG/KG	0	0%	430	0	0	11	180	U		
2-Nitrophenol	UG/KG	0	0%	330	0	0	11	73	U		
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	11	73	UJ		
3-Nitroaniline	UG/KG	0	0%	500	0	0	11	180	U		
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	11	180	UJ		
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	11	73	U		
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	11	73	U		
4-Chloroaniline	UG/KG	0	0%	220	0	0	11	73	UJ		
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	11	73	U		
4-Methylphenol	UG/KG	0	0%	900	0	0	11	73	U		
4-Nitroaniline	UG/KG	0	0%		0	0	11	180	U		
4-Nitrophenol	UG/KG	0	0%	100	0	0	11	180	U		
Acenaphthene	UG/KG	0	0%	50000	0	0	11	73	U		

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY										SEAD-12	
LOCATION ID										SS12-146	
MATRIX										SOIL	
SAMPLE ID										123341	
SAMPLE DEPTH TOP OF SAMPLE										0	
SAMPLE DEPTH BOTTOM OF SAMPLE										0.2	
SAMPLE DATE										17-Nov-98	
QC CODE										SA	
STUDY ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI PHASE	STEP 1		
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	N			
			DETECTION	4046	TAGM	DETECTS	ANALYSES				
Acenaphthylene	UG/KG	0	0%	41000	0	0	11	73	U		
Anthracene	UG/KG	0	0%	50000	0	0	11	73	U		
Benzo(a)anthracene	UG/KG	26	45%	224	0	5	11	73	U		
Benzo(a)pyrene	UG/KG	20	55%	61	0	6	11	73	U		
Benzo(b)fluoranthene	UG/KG	34	55%	1100	0	6	11	73	U		
Benzo(ghi)perylene	UG/KG	11	18%	50000	0	2	11	73	U		
Benzo(k)fluoranthene	UG/KG	20	55%	1100	0	6	11	73	U		
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	11	73	U		
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	11	73	UJ		
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	10	73	U		
Bis(2-Ethylhexyl)phthalate	UG/KG	36	27%	50000	0	3	11	73	UJ		
Butylbenzylphthalate	UG/KG	5.9	9%	50000	0	1	11	73	UJ		
Carbazole	UG/KG	0	0%		0	0	11	73	UJ		
Chrysene	UG/KG	32	64%	400	0	7	11	73	UJ		
Di-n-butylphthalate	UG/KG	4.5	27%	8100	0	3	11	73	U		
Di-n-octylphthalate	UG/KG	15	36%	50000	0	4	11	73	UJ		
Dibenz(a,h)anthracene	UG/KG	0	0%	14	0	0	11	73	U		
Dibenzofuran	UG/KG	0	0%	6200	0	0	11	73	U		
Diethyl phthalate	UG/KG	11	9%	7100	0	1	11	73	U		
Dimethylphthalate	UG/KG	0	0%	2000	0	0	11	73	U		
Fluoranthene	UG/KG	64	82%	50000	0	9	11	73	U		
Fluorene	UG/KG	0	0%	50000	0	0	11	73	U		
Hexachlorobenzene	UG/KG	0	0%	410	0	0	11	73	U		
Hexachlorobutadiene	UG/KG	0	0%		0	0	11	73	U		
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	11	73	UJ		
Hexachloroethane	UG/KG	0	0%		0	0	11	73	U		
Indeno(1,2,3-cd)pyrene	UG/KG	7.5	36%	3200	0	4	11	73	U		
Isophorone	UG/KG	0	0%	4400	0	0	11	73	U		
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	11	73	U		
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	11	73	U		
Naphthalene	UG/KG	5.4	9%	13000	0	1	11	73	U		

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI PHASE 1 STEP 1 N	
Nitrobenzene	UG/KG	0	0%	200	0	0	11	73	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	11	180	UR
Phenanthrene	UG/KG	34	64%	50000	0	7	11	73	U
Phenol	UG/KG	0	0%	30	0	0	11	73	U
Pyrene	UG/KG	51	82%	50000	0	9	11	73	U
4,4'-DDD	UG/KG	0	0%	2900	0	0	11	3.7	U
4,4'-DDE	UG/KG	2	9%	2100	0	1	11	3.7	U
4,4'-DDT	UG/KG	4.2	9%	2100	0	1	11	3.7	U
Aldrin	UG/KG	0	0%	41	0	0	11	1.9	U
Alpha-BHC	UG/KG	0	0%	110	0	0	11	1.9	U
Alpha-Chlordane	UG/KG	0	0%		0	0	11	1.9	U
Aroclor-1016	UG/KG	0	0%		0	0	11	37	U
Aroclor-1221	UG/KG	0	0%		0	0	11	74	U
Aroclor-1232	UG/KG	0	0%		0	0	11	37	U
Aroclor-1242	UG/KG	17	9%		0	1	11	37	U
Aroclor-1248	UG/KG	0	0%		0	0	11	37	U
Aroclor-1254	UG/KG	23	9%	10000	0	1	11	37	U
Aroclor-1260	UG/KG	25	9%	10000	0	1	11	37	U
Beta-BHC	UG/KG	0	0%	200	0	0	11	1.9	U
Delta-BHC	UG/KG	0	0%	300	0	0	11	1.9	U
Dieldrin	UG/KG	0	0%	44	0	0	11	3.7	U
Endosulfan I	UG/KG	0	0%	900	0	0	11	1.9	U
Endosulfan II	UG/KG	0	0%	900	0	0	11	3.7	U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	11	3.7	U
Endrin	UG/KG	0	0%	100	0	0	11	3.7	U
Endrin aldehyde	UG/KG	2.2	9%		0	1	11	3.7	U
Endrin ketone	UG/KG	0	0%		0	0	11	3.7	U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	11	1.9	U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	11	1.9	U
Heptachlor	UG/KG	0	0%	100	0	0	11	1.9	U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	11	1.9	U

TABLE G-10  
 FORMER DRY WASTE DISPOSAL PIT METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID		SEAD-12 SS12-146 SOIL							
MATRIX		SOIL							
SAMPLE ID		123341							
SAMPLE DEPTH TOP OF SAMPLE		0							
SAMPLE DEPTH BOTTOM OF SAMPLE		0.2							
SAMPLE DATE		17-Nov-98							
QC CODE		SA							
STUDY ID		RI PHASE 1 STEP 1							
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	
Methoxychlor	UG/KG	0	0%		0	0	11	19	U
Toxaphene	UG/KG	0	0%		0	0	11	190	U
Aluminum	MG/KG	13600	100%	19520	0	11	11	8140	J
Antimony	MG/KG	1.2	9%	6	0	1	11	1.1	UR
Arsenic	MG/KG	6.6	100%	8.9	0	11	11	3.7	J
Barium	MG/KG	102	100%	300	0	11	11	53.8	
Beryllium	MG/KG	0.56	100%	1.13	0	11	11	0.32	J
Cadmium	MG/KG	0.63	9%	2.46	0	1	11	0.32	U
Calcium	MG/KG	118000	100%	125300	0	11	11	96600	
Chromium	MG/KG	17.3	100%	30	0	11	11	13.3	
Cobalt	MG/KG	10.4	100%	30	0	11	11	7.5	J
Copper	MG/KG	30.4	100%	33	0	11	11	19.9	
Cyanide	MG/KG	0	0%	0.35	0	0	11	0.58	U
Iron	MG/KG	23400	100%	37410	0	11	11	17300	J
Lead	MG/KG	20.5	100%	24.4	0	11	11	8.8	
Magnesium	MG/KG	23800	100%	21700	1	11	11	11800	
Manganese	MG/KG	551	100%	1100	0	11	11	395	
Mercury	MG/KG	0.04	9%	0.1	0	1	11	0.05	U
Nickel	MG/KG	30.3	91%	50	0	10	11	23.2	
Potassium	MG/KG	1870	100%	2623	0	11	11	1650	
Selenium	MG/KG	1.3	27%	2	0	3	11	0.41	UJ
Silver	MG/KG	0.39	18%	0.8	0	2	11	0.21	U
Sodium	MG/KG	276	64%	188	3	7	11	126	J
Thallium	MG/KG	2	36%	0.855	3	4	11	0.93	U
Vanadium	MG/KG	22.8	100%	150	0	11	11	14.9	
Zinc	MG/KG	72.5	100%	115	0	11	11	48.9	J

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TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12					
LOCATION ID								MW12-16	MW12-16	MW12-17	MW12-17	MW12-18					
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL					
SAMPLE ID								123150	123151	123153	123154	123038					
SAMPLE DEPTH TO TOP OF SAMPLE								4	6	6	10	6					
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	8	8	12	8					
SAMPLE DATE								17-Oct-98	17-Oct-98	16-Oct-98	16-Oct-98	02-Oct-98					
QC CODE								SA	SA	SA	SA	SA					
STUDY ID			FREQUENC	NYSDEC	UMBI	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1					
			OF	TAGM	ABOVE	OF	OF										
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
<b>Volatile Organics</b>																	
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
1,1,2-Trichloroethane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
1,1-Dichloroethane	UG/K	0	0%	200	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
1,1-Dichloroethane	UG/K	0	0%	400	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
1,2-Dichloroethane	UG/K	0	0%	100	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
1,2-Dichloroethane (total)	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
1,2-Dichloropropane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Acetone	UG/K	98	39%	200	0	15	38	11 U		11 U		11 UJ		19 J		11 UJ	
Benzene	UG/K	2	3%	60	0	1	38	11 U		11 U		11 U		11 UJ		11 U	
Bromodichloromethane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Bromoform	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Carbon disulfide	UG/K	3	5%	2700	0	2	38	11 U		11 U		11 U		11 UJ		11 U	
Carbon tetrachloride	UG/K	0	0%	600	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Chlorobenzene	UG/K	0	0%	1700	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Chlorodibromomethane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Chloroethane	UG/K	0	0%	1900	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Chloroform	UG/K	0	0%	300	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Ethyl benzene	UG/K	0	0%	5500	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Methyl bromide	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Methyl butyl ketone	UG/K	0	0%		0	0	38	11 U		11 U		11 UJ		11 UJ		11 U	
Methyl chloride	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Methyl ethyl ketone	UG/K	3	3%	300	0	1	38	11 U		11 U		11 UJ		11 UJ		11 U	
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Methylene chloride	UG/K	2	11%	100	0	4	38	11 U		11 U		11 U		11 UJ		11 U	
Styrene	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Tetrachloroethane	UG/K	0	0%	1400	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Toluene	UG/K	15	24%	1500	0	9	38	11 U		11 U		15		11 UJ		11 U	
Total Xylenes	UG/K	0	0%	1200	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Trichloroethane	UG/K	0	0%	700	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
Vinyl chloride	UG/K	0	0%	200	0	0	38	11 U		11 U		11 U		11 UJ		11 U	
<b>Semi-Volatile Organics</b>																	
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	38	72 U		69 U		72 U		72 U		71 U	
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	38	72 U		69 U		72 U		72 U		71 U	
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	38	72 U		69 U		72 U		72 U		71 U	
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	38	72 U		69 U		72 U		72 U		71 U	
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	8										
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	38	170 U		170 U		180 U		170 U		170 U	
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	38	72 U		69 U		72 U		72 U		71 UJ	
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	38	72 U		69 U		72 U		72 U		71 U	
2,4-Dimethylphenol	UG/K	0	0%		0	0	38	72 UJ		69 UJ		72 UJ		72 UJ		71 UJ	

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOCATION ID								MW12-16	MW12-16	MW12-17	MW12-17	MW12-18				
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID								123150	123151	123153	123154	123038				
SAMPLE DEPTH TO TOP OF SAMPLE								4	6	6	10	6				
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	8	8	12	8				
SAMPLE DATE								17-Oct-98	17-Oct-98	16-Oct-98	16-Oct-98	02-Oct-98				
QC CODE								SA	SA	SA	SA	SA				
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1				
PARAMETER	UNIT	AXIMU	OF	4046	TAGM	ABOVE	OF	OF	OF	OF	OF	OF				
			DETECTION				DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	0	38	170	UJ	170	UJ	180	UJ	170	UJ
2,4-Dinitrotoluene	UG/K	0	0%		0	0	0	38	72	U	69	U	72	U	72	U
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	0	38	72	U	69	U	72	U	72	U
2-Chloronaphthalene	UG/K	0	0%		0	0	0	38	72	U	69	U	72	UJ	72	UJ
2-Chlorophenol	UG/K	0	0%	800	0	0	0	38	72	U	69	U	72	U	72	U
2-Methylnaphthalene	UG/K	0	0%	36400	0	0	0	38	72	U	69	U	72	UJ	72	UJ
2-Methylphenol	UG/K	0	0%	100	0	0	0	38	72	U	69	U	72	U	72	U
2-Nitroaniline	UG/K	0	0%	430	0	0	0	38	170	U	170	UJ	180	UJ	170	U
2-Nitrophenol	UG/K	0	0%	330	0	0	0	38	72	U	69	UJ	72	U	72	U
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	0	38	72	U	69	U	72	U	72	U
3-Nitroaniline	UG/K	0	0%	500	0	0	0	38	170	U	170	U	180	UJ	170	UJ
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	0	38	170	U	170	U	180	U	170	UJ
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	0	38	72	U	69	U	72	U	72	U
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	0	38	72	U	69	U	72	U	72	U
4-Chloroaniline	UG/K	0	0%	220	0	0	0	38	72	U	69	U	72	U	72	UJ
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	0	38	72	U	69	U	72	U	72	U
4-Methylphenol	UG/K	4.7	3%	900	0	1	38	38	72	U	69	U	72	U	72	UJ
4-Nitroaniline	UG/K	0	0%		0	0	0	38	170	UJ	170	UJ	180	UJ	170	UJ
4-Nitrophenol	UG/K	0	0%	100	0	0	0	38	170	UJ	170	UJ	180	U	170	UJ
Acenaphthene	UG/K	0	0%	50000	0	0	0	38	72	U	69	U	72	U	72	U
Acenaphthylene	UG/K	0	0%	41000	0	0	0	38	72	U	69	U	72	U	72	UJ
Anthracene	UG/K	0	0%	50000	0	0	0	38	72	U	69	U	72	UJ	72	UJ
Benzo(a)anthracene	UG/K	11	5%	224	0	2	38	38	5.8	J	69	U	72	U	72	U
Benzo(a)pyrene	UG/K	12	5%	61	0	2	38	38	5.4	J	69	U	72	UJ	72	UJ
Benzo(b)fluoranthene	UG/K	13	11%	1100	0	4	38	38	6	J	69	U	72	U	72	U
Benzo(ghi)perylene	UG/K	9.6	5%	50000	0	2	38	38	5.2	J	69	U	72	U	72	U
Benzo(k)fluoranthene	UG/K	10	5%	1100	0	2	38	38	6	J	69	U	72	U	72	U
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	0	38	72	U	69	U	72	U	72	U
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	0	38	72	U	69	U	72	U	72	U
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	0	30	72	U	69	U	72	U	72	U
Bis(2-Ethylhexyl)phthalate	UG/K	83	29%	50000	0	11	38	38	29	J	31	J	130	U	110	U
Butylbenzylphthalate	UG/K	7.2	5%	50000	0	2	38	38	72	U	7.2	J	72	U	72	U
Carbazole	UG/K	0	0%		0	0	0	38	72	U	69	U	72	U	72	U
Chrysene	UG/K	15	18%	400	0	7	38	38	8.3	J	69	U	72	U	72	U
Di-n-butylphthalate	UG/K	53	13%	8100	0	5	38	38	500	UJ	610	UJ	72	U	72	U
Di-n-octylphthalate	UG/K	34	21%	50000	0	8	38	38	4	J	69	U	11	J	34	J
Dibenz(a,h)anthracene	UG/K	4.8	3%	14	0	1	38	38	72	U	69	U	72	U	72	U
Dibenzofuran	UG/K	0	0%	6200	0	0	0	38	72	U	69	U	72	UJ	72	UJ
Diethyl phthalate	UG/K	5.8	3%	7100	0	1	38	38	72	U	69	U	72	U	72	U
Dimethylphthalate	UG/K	0	0%	2000	0	0	0	38	72	U	69	U	72	U	72	U
Fluoranthene	UG/K	18	11%	50000	0	4	38	38	13	J	69	U	72	U	72	U
Fluorene	UG/K	0	0%	50000	0	0	0	38	72	U	69	U	72	U	72	U
Hexachlorobenzene	UG/K	0	0%	410	0	0	0	38	72	U	69	U	72	U	72	U
Hexachlorobutadiene	UG/K	0	0%		0	0	0	38	72	U	69	U	72	UJ	72	UJ

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12			
LOCATION ID								MW12-16	MW12-16	MW12-17	MW12-17	MW12-18			
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL			
SAMPLE ID								123150	123151	123153	123154	123038			
SAMPLE DEPTH TO TOP OF SAMPLE								4	6	6	10	6			
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	8	8	12	8			
SAMPLE DATE								17-Oct-98	17-Oct-98	16-Oct-98	16 Oct-98	02-Oct-98			
QC CODE								SA	SA	SA	SA	SA			
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1			
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%	4046	0	0	38	72 U		69 U		72 U		72 U	
Hexachloroethane	UG/K	0	0%		0	0	38	72 U		69 U		72 U		72 U	
Indeno(1,2,3-cd)pyrene	UG/K	7.3	5%	3200	0	2	38	4.2 J		69 U		72 U		72 U	
Isophorone	UG/K	0	0%	4400	0	0	38	72 U		69 U		72 U		72 U	
N-Nitrosodiphenylamine	UG/K	0	0%		0	0	38	72 U		69 U		72 U		72 U	
N-Nitrosodipropylamine	UG/K	0	0%		0	0	38	72 U		69 U		72 U		72 U	
Naphthalene	UG/K	0	0%	13000	0	0	38	72 U		69 U		72 U		72 U	
Nitrobenzene	UG/K	0	0%	200	0	0	38	72 U		69 U		72 U		72 U	
Pentachlorophenol	UG/K	0	0%	1000	0	0	38	170 U		170 U		180 UR		170 UR	
Phenanthrene	UG/K	13	16%	50000	0	6	38	9.2 J		69 U		72 U		72 U	
Phenol	UG/K	0	0%	30	0	0	38	72 U		69 U		72 U		72 U	
Pyrene	UG/K	20	13%	50000	0	5	38	12 J		69 U		72 U		72 U	
<b>Pesticides/ PCBs</b>															
4,4'-DDD	UG/K	0	0%	2900	0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
4,4'-DDE	UG/K	0	0%	2100	0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
4,4'-DDT	UG/K	0	0%	2100	0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
Aldrin	UG/K	0	0%	41	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Alpha-BHC	UG/K	0	0%	110	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Alpha-Chlordane	UG/K	0	0%		0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Aroclor-1016	UG/K	0	0%		0	0	38	35 U		35 U		36 U		36 U	
Aroclor-1221	UG/K	0	0%		0	0	38	72 U		70 U		73 U		73 U	
Aroclor-1232	UG/K	0	0%		0	0	38	35 U		35 U		36 U		36 U	
Aroclor-1242	UG/K	16	3%		0	1	38	35 U		35 U		36 U		36 U	
Aroclor-1248	UG/K	0	0%		0	0	38	35 U		35 U		36 U		36 U	
Aroclor-1254	UG/K	0	0%	10000	0	0	38	35 U		35 U		36 U		36 U	
Aroclor-1260	UG/K	0	0%	10000	0	0	38	35 U		35 U		36 U		36 U	
Beta-BHC	UG/K	0	0%	200	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Delta-BHC	UG/K	0	0%	300	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Dieldrin	UG/K	0	0%	44	0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
Endosulfan I	UG/K	0	0%	900	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Endosulfan II	UG/K	0	0%	900	0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
Endosulfan sulfate	UG/K	0	0%	1000	0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
Endrin	UG/K	0	0%	100	0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
Endrin aldehyde	UG/K	0	0%		0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
Endrin ketone	UG/K	0	0%		0	0	38	3.5 U		3.5 U		3.6 U		3.6 U	
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Gamma-Chlordane	UG/K	0	0%	540	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Heptachlor	UG/K	0	0%	100	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Heptachlor epoxide	UG/K	0	0%	20	0	0	38	1.8 U		1.8 U		1.9 U		1.8 U	
Methoxychlor	UG/K	0	0%		0	0	38	18 U		18 U		19 U		18 U	
Toxaphene	UG/K	0	0%		0	0	38	180 U		180 U		190 U		180 U	
<b>Metals</b>															
Aluminum	MG/K	14500	100%	19520	0	38	38	9510		7620		7390 J		6630 J	
Antimony	MG/K	0.67	3%	6	0	1	38	1.1 UR		1 UR		1.2 UR		1.1 UR	



TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12		
LOCATION ID								MW12-18	MW12-35	MW12-35	MW12-9	MW12-9	MW12B-1		
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
SAMPLE ID								123039	123187	123188	123156	123157	MW12B-1-20		
SAMPLE DEPTH TO TOP OF SAMPLE								10	10	14	6	10	4		
SAMPLE DEPTH TO BOTTOM OF SAMPLE								12	12	15.5	8	12	6		
SAMPLE DATE								02-Oct-98	29-Oct-98	29-Oct-98	17-Oct-98	17-Oct-98	13-Jun-94		
QC CODE								SA	SA	SA	SA	SA	DU		
STUDY ID								RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI		
PARAMETER	UNIT	AXIMU	DETECTION	OF TAGM	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	
				4046	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
<b>Volatile Organics</b>															
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	38	11 UJ		12 U		12 U	11 U	11 U	11 U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
1,1-Dichloroethane	UG/K	0	0%	400	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
1,2-Dichloroethane (total)	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
1,2-Dichloropropane	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Acetone	UG/K	98	39%	200	0	15	38	8 J		30 U		12 U	11 U	12	11 U
Benzene	UG/K	2	3%	60	0	1	38	11 U		12 U		12 U	11 U	11 U	11 U
Bromodichloromethane	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Bromoform	UG/K	0	0%		0	0	38	11 UJ		12 U		12 U	11 U	11 U	11 U
Carbon disulfide	UG/K	3	5%	2700	0	2	38	11 U		12 U		12 U	11 U	11 U	11 U
Carbon tetrachloride	UG/K	0	0%	600	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Chlorobenzene	UG/K	0	0%	1700	0	0	38	11 UJ		12 U		12 U	11 U	11 U	11 U
Chlorodibromomethane	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Chloroethane	UG/K	0	0%	1900	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Chloroform	UG/K	0	0%	300	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Ethyl benzene	UG/K	0	0%	5500	0	0	38	11 UJ		12 U		12 U	11 U	11 U	11 U
Methyl bromide	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Methyl butyl ketone	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Methyl chloride	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Methyl ethyl ketone	UG/K	3	3%	300	0	1	38	11 U		12 U		12 U	11 U	11 U	11 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Methylene chloride	UG/K	2	11%	100	0	4	38	11 U		12 U		12 U	11 U	11 U	11 U
Styrene	UG/K	0	0%		0	0	38	11 UJ		12 U		12 U	11 U	11 U	11 U
Tetrachloroethane	UG/K	0	0%	1400	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Toluene	UG/K	15	24%	1500	0	9	38	4 J		12 U		12 U	11 U	11 U	11 U
Total Xylenes	UG/K	0	0%	1200	0	0	38	11 UJ		12 U		12 U	11 U	11 U	11 U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Trichloroethane	UG/K	0	0%	700	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
Vinyl chloride	UG/K	0	0%	200	0	0	38	11 U		12 U		12 U	11 U	11 U	11 U
<b>Semi-Volatile Organics</b>															
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	38	78 U		78 U		75 U	72 U	74 UJ	360 U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	38	78 U		78 U		75 U	72 U	74 U	360 U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	38	78 U		78 U		75 U	72 U	74 U	360 U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	38	78 U		78 U		75 U	72 U	74 U	360 U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	8								360 U
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	38	190 U		190 U		180 U	170 U	180 U	870 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	38	78 UJ		78 U		75 U	72 U	74 U	360 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	38	78 U		78 U		75 U	72 U	74 U	360 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	38	78 UJ		78 UJ		75 UJ	72 UJ	74 UJ	360 U

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12							
LOCATION ID								MW12-18	MW12-35	MW12-35	MW12-9	MW12-9	MW12B-1							
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID								123039	123187	123188	123156	123157	MW12B-1-20							
SAMPLE DEPTH TO TOP OF SAMPLE								10	10	14	6	10	4							
SAMPLE DEPTH TO BOTTOM OF SAMPLE								12	12	15.5	8	12	6							
SAMPLE DATE								02-Oct-98	29-Oct-98	29-Oct-98	17-Oct-98	17-Oct-98	13-Jun-94							
QC CODE								SA	SA	SA	SA	SA	DU							
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI						
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	ABOVE	OF	OF	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	0	38	190	UR	190	UJ	180	UJ	170	UJ	180	UJ	870	U
2,4-Dinitrotoluene	UG/K	0	0%		0	0	0	38	78	U	78	U	78	U	72	U	74	U	360	U
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
2-Chloronaphthalene	UG/K	0	0%		0	0	0	38	78	UJ	78	U	75	U	72	U	74	U	360	U
2-Chlorophenol	UG/K	0	0%	800	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
2-Methylnaphthalene	UG/K	0	0%	36400	0	0	0	38	78	UJ	78	U	75	U	72	U	74	U	360	U
2-Methylphenol	UG/K	0	0%	100	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
2-Nitroaniline	UG/K	0	0%	430	0	0	0	38	190	U	190	U	180	U	170	U	180	U	870	U
2-Nitrophenol	UG/K	0	0%	330	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
3-Nitroaniline	UG/K	0	0%	500	0	0	0	38	190	UJ	190	UJ	180	UJ	170	U	180	U	870	U
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	0	38	190	UJ	190	UJ	180	UJ	170	U	180	U	870	U
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
4-Chloroaniline	UG/K	0	0%	220	0	0	0	38	78	UJ	78	UJ	75	UJ	72	U	74	U	360	U
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	0	38	78	U	78	UJ	75	UJ	72	U	74	U	360	U
4-Methylphenol	UG/K	4.7	3%	900	0	1	38	78	UJ	78	UJ	75	U	72	U	74	U	360	U	
4-Nitroaniline	UG/K	0	0%		0	0	0	38	190	UJ	190	UJ	180	UJ	170	UJ	180	U	870	U
4-Nitrophenol	UG/K	0	0%	100	0	0	0	38	190	UJ	190	UJ	180	UJ	170	UJ	180	UJ	870	U
Acenaphthene	UG/K	0	0%	50000	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Acenaphthylene	UG/K	0	0%	41000	0	0	0	38	78	UJ	78	U	75	U	72	U	74	U	360	U
Anthracene	UG/K	0	0%	50000	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Benzo(a)anthracene	UG/K	11	5%	224	0	2	38	78	U	78	U	75	U	72	U	74	U	360	U	
Benzo(a)pyrene	UG/K	12	5%	61	0	2	38	78	U	78	U	75	U	72	U	74	U	360	U	
Benzo(b)fluoranthene	UG/K	13	11%	1100	0	4	38	78	UJ	78	U	75	U	72	U	74	U	360	U	
Benzo(ghi)perylene	UG/K	9.6	5%	50000	0	2	38	78	U	78	U	75	U	72	U	74	U	360	U	
Benzo(k)fluoranthene	UG/K	10	5%	1100	0	2	38	78	U	78	U	75	U	72	U	74	U	360	U	
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	0	30	78	U	78	U	75	U	72	U	74	U		
Bis(2-Ethylhexyl)phthalate	UG/K	83	29%	50000	0	11	38	16	J	78	UJ	75	U	10	J	22	J	45	J	
Butylbenzylphthalate	UG/K	7.2	5%	50000	0	2	38	78	UJ	78	UJ	75	UJ	5.4	J	74	U	360	U	
Carbazole	UG/K	0	0%		0	0	0	38	78	UJ	78	U	75	U	72	U	74	UJ	360	U
Chrysene	UG/K	15	18%	400	0	7	38	5.7	J	78	U	75	U	72	U	74	U	360	U	
Di-n-butylphthalate	UG/K	53	13%	8100	0	5	38	9	J	78	U	75	U	400	UJ	1100	UJ	360	U	
Di-n-octylphthalate	UG/K	34	21%	50000	0	8	38	8.7	J	78	U	75	U	72	U	74	U	360	U	
Dibenz(a,h)anthracene	UG/K	4.8	3%	14	0	1	38	78	U	78	UJ	75	UJ	72	U	74	U	360	U	
Dibenzofuran	UG/K	0	0%	6200	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Diethyl phthalate	UG/K	5.8	3%	7100	0	1	38	78	UJ	78	U	75	U	72	U	74	U	360	U	
Dimethylphthalate	UG/K	0	0%	2000	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Fluoranthene	UG/K	18	11%	50000	0	4	38	78	U	78	U	75	U	72	U	74	U	360	U	
Fluorene	UG/K	0	0%	50000	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Hexachlorobenzene	UG/K	0	0%	410	0	0	0	38	78	U	78	U	75	U	72	U	74	U	360	U
Hexachlorobutadiene	UG/K	0	0%		0	0	0	38	78	U	78	U	75	U	72	U	74	UJ	360	U



TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOCATION ID								MW12-18	MW12-35	MW12-35	MW12-9	MW12-9	MW12B-1				
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID								123039	123187	123188	123156	123157	MW12B-1-20				
SAMPLE DEPTH TO TOP OF SAMPLE								10	10	14	6	10	4				
SAMPLE DEPTH TO BOTTOM OF SAMPLE								12	12	15.5	8	12	6				
SAMPLE DATE								02-Oct-98	29-Oct-98	29-Oct-98	17-Oct-98	17-Oct-98	13-Jun-94				
QC CODE								SA	SA	SA	SA	SA	DU				
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI				
			OF	TAGM	ABOVE	OF	OF										
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%	0	0	0	38	78 UJ		78 UJ		75 UJ		72 U		74 UJ	360 U
Hexachloroethane	UG/K	0	0%	0	0	0	38	78 U		78 U		75 U		72 U		74 U	360 U
Indeno(1,2,3-cd)pyrene	UG/K	7.3	5%	3200	0	2	38	78 U		78 UJ		75 UJ		72 U		74 U	360 U
Isophorone	UG/K	0	0%	4400	0	0	38	78 U		78 U		75 U		72 U		74 U	360 U
N-Nitrosodiphenylamine	UG/K	0	0%	0	0	0	38	78 U		78 U		75 U		72 U		74 U	360 U
N-Nitrosodipropylamine	UG/K	0	0%	0	0	0	38	78 U		78 U		75 U		72 U		74 U	360 U
Naphthalene	UG/K	0	0%	13000	0	0	38	78 U		78 U		75 U		72 U		74 U	360 U
Nitrobenzene	UG/K	0	0%	200	0	0	38	78 U		78 U		75 U		72 U		74 U	360 U
Pentachlorophenol	UG/K	0	0%	1000	0	0	38	190 UJ		190 U		180 U		170 U		180 UJ	870 U
Phenanthrene	UG/K	13	16%	50000	0	6	38	5.9 J		4.1 J		75 U		72 U		74 U	360 U
Phenol	UG/K	0	0%	30	0	0	38	78 U		78 U		75 U		72 U		74 U	360 U
Pyrene	UG/K	20	13%	50000	0	5	38	7.9 J		5.9 J		75 U		72 U		74 U	360 U
<b>Pesticides/ PCBs</b>																	
4,4'-DDD	UG/K	0	0%	2900	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
4,4'-DDE	UG/K	0	0%	2100	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
4,4'-DDT	UG/K	0	0%	2100	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
Aldrin	UG/K	0	0%	41	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Alpha-BHC	UG/K	0	0%	110	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Alpha-Chlordane	UG/K	0	0%	0	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Aroclor-1016	UG/K	0	0%	0	0	0	38	39 U		39 U		38 U		36 U		37 U	36 U
Aroclor-1221	UG/K	0	0%	0	0	0	38	80 U		80 U		76 U		73 U		75 U	73 U
Aroclor-1232	UG/K	0	0%	0	0	0	38	39 U		39 U		38 U		36 U		37 U	36 U
Aroclor-1242	UG/K	16	3%	0	0	1	38	39 U		39 U		38 U		36 U		37 U	36 U
Aroclor-1248	UG/K	0	0%	0	0	0	38	39 U		39 U		38 U		36 U		37 U	36 U
Aroclor-1254	UG/K	0	0%	10000	0	0	38	39 U		39 U		38 U		36 U		37 U	36 U
Aroclor-1260	UG/K	0	0%	10000	0	0	38	39 U		39 U		38 U		36 U		37 U	36 U
Beta-BHC	UG/K	0	0%	200	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Delta-BHC	UG/K	0	0%	300	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Dieldrin	UG/K	0	0%	44	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
Endosulfan I	UG/K	0	0%	900	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Endosulfan II	UG/K	0	0%	900	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
Endosulfan sulfate	UG/K	0	0%	1000	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
Endrin	UG/K	0	0%	100	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
Endrin aldehyde	UG/K	0	0%	0	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
Endrin ketone	UG/K	0	0%	0	0	0	38	3.9 U		3.9 U		3.8 U		3.6 U		3.7 U	3.6 U
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Gamma-Chlordane	UG/K	0	0%	540	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Heptachlor	UG/K	0	0%	100	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Heptachlor epoxide	UG/K	0	0%	20	0	0	38	2 U		2 U		1.9 U		1.8 U		1.9 U	1.8 U
Melthoxychlor	UG/K	0	0%	0	0	0	38	20 U		20 U		19 U		18 U		19 U	18 U
Toxaphene	UG/K	0	0%	0	0	0	38	200 U		200 U		190 U		180 U		190 U	180 U
<b>Metals</b>																	
Aluminum	MG/K	14500	100%	19520	0	38	38	6730		10100		8970		7010		6810	7510
Antimony	MG/K	0.67	3%	6	0	1	38	1.3 UR		1.2 UR		1.1 UR		1.1 UR		1.2 UR	0.25 UJ

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12						
LOCATION ID								MW12-18	MW12-35	MW12-35	MW12-9	MW12-9	MW12B-1						
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
SAMPLE ID								123039	123187	123188	123156	123157	MW12B-1-20						
SAMPLE DEPTH TO TOP OF SAMPLE								10	10	14	6	10	4						
SAMPLE DEPTH TO BOTTOM OF SAMPLE								12	12	15.5	8	12	6						
SAMPLE DATE								02-Oct-98	29-Oct-98	29-Oct-98	17-Oct-98	17-Oct-98	13-Jun-94						
QC CODE								SA	SA	SA	SA	SA	DU						
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI						
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)		
Arsenic	MG/K	8.1	100%	8.9	0	38	38	3.2		4.1		8.1		3.8		2.7		4.6	
Barium	MG/K	138	100%	300	0	38	38	82.7		84.2		85.4		80.1		72.7		88.3	
Beryllium	MG/K	0.62	100%	1.13	0	38	38	0.23	J	0.59	J	0.48	J	0.27	J	0.22	J	0.38	J
Cadmium	MG/K	0.52	21%	2.46	0	8	38	0.06	U	0.35	U	0.32	U	0.06	U	0.06	U	0.46	J
Calcium	MG/K	132000	100%	125300	1	38	38	99200	J	51600		96500		93000		91000		79400	
Chromium	MG/K	20.8	100%	30	0	38	38	12.1		15.4	J	15.9	J	11.9		11		12.6	
Cobalt	MG/K	14.5	100%	30	0	38	38	8.1	J	9.8	J	9.8		9.3	J	7.5	J	8.6	J
Copper	MG/K	41.1	100%	33	4	38	38	18		23		28.2		20.5		23.1		20.3	
Cyanide	MG/K	0	0%	0.35	0	0	38	0.6	UJ	0.61	U	0.62	U	0.58	U	0.55	U	0.46	U
Iron	MG/K	41100	100%	37410	1	38	38	16400		19100		21900		17000		14100		17000	
Lead	MG/K	16.4	100%	24.4	0	38	38	5.5	J	9.8	J	13.3	J	7.5	J	6.3		8.4	
Magnesium	MG/K	34200	100%	21700	2	38	38	11500		12600		19100		16900		16100		16000	
Manganese	MG/K	596	100%	1100	0	38	38	499		463		470		413		432		388	
Mercury	MG/K	0.5	34%	0.1	4	13	38	0.06	U	0.06	U	0.06	U	0.05	U	0.05	U		
Nickel	MG/K	50.9	92%	50	1	35	38	23.5		24.7	UJ	28.4	UJ	25.8				23.6	
Potassium	MG/K	2330	100%	2623	0	38	38	1200		1410		1490		1010		1430		1390	J
Selenium	MG/K	2.5	18%	2	2	7	38	0.98	UJ	0.44	U	0.93		0.87	UJ	0.87	UJ	0.54	J
Silver	MG/K	0.27	8%	0.8	0	3	38	0.26	U	0.23	U	0.21	U	0.23	U	0.23	U	0.1	U
Sodium	MG/K	252	71%	188	2	27	38	147	J	58.1	J	74	J	73.2	UJ	59.3	J	120	J
Thallium	MG/K	2.2	34%	0.855	7	13	38							0.98	U		J	0.84	J
Vanadium	MG/K	23.8	100%	150	0	38	38	11.2		18.9		16.5		12		13.2		13.2	
Zinc	MG/K	142	100%	115	1	38	38	68.8		57.5	J	60.5	J	49.1		46.8		46.9	

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12					
LOCATION ID								MW12B-1	MW12B-1	SB12-10	SB12-5A	SB12-5A	SB12-5A					
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL					
SAMPLE ID								MW12B-1-03	MW12B-1-07	123179	12519	12520	123097					
SAMPLE DEPTH TO TOP OF SAMPLE								4	12	0	0	3	6					
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	13.5	0	3	6	8					
SAMPLE DATE								13-Jun-94	13-Jun-94	27-Oct-98	08-Nov-97	08-Nov-97	14-Oct-98					
QC CODE								SA	SA	SA	SA	SA	SA					
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1					
			OF	TAGM	ABOVE	OF	OF											
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
<b>Volatile Organics</b>																		
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
1,1-Dichloroethane	UG/K	0	0%	400	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
1,2-Dichloroethane (total)	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
1,2-Dichloropropane	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Acetone	UG/K	98	39%	200	0	15	38	11 U		11 U		26	8 J	98		16		16 U
Benzene	UG/K	2	3%	60	0	1	38	11 U		11 U		12 U		11 U		12 U		11 U
Bromodichloromethane	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Bromoform	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Carbon disulfide	UG/K	3	5%	2700	0	2	38	11 U		11 U		12 U		11 U		12 U		11 U
Carbon tetrachloride	UG/K	0	0%	600	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Chlorobenzene	UG/K	0	0%	1700	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Chlorodibromomethane	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Chloroethane	UG/K	0	0%	1900	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Chloroform	UG/K	0	0%	300	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Ethyl benzene	UG/K	0	0%	5500	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Methyl bromide	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Methyl butyl ketone	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Methyl chloride	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Methyl ethyl ketone	UG/K	3	3%	300	0	1	38	11 U		11 U		12 U		11 U		12 U		11 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Methylene chloride	UG/K	2	11%	100	0	4	38	11 U		11 U		12 U		11 U		12 U		11 U
Styrene	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Tetrachloroethane	UG/K	0	0%	1400	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Toluene	UG/K	15	24%	1500	0	9	38	11 U		11 U		12 U		3 J		12 U		11 U
Total Xylenes	UG/K	0	0%	1200	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Trichloroethane	UG/K	0	0%	700	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
Vinyl chloride	UG/K	0	0%	200	0	0	38	11 U		11 U		12 U		11 U		12 U		11 U
<b>Semi-Volatile Organics</b>																		
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	38	360 U		360 U		85 U		74 U		77 U		72 U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	38	360 U		360 U		85 U		74 U		77 U		72 U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	38	360 U		360 U		85 U		74 U		77 U		72 U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	38	360 U		360 U		85 U		74 U		77 U		72 U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	8	360 U		360 U								
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	38	880 U		880 U		200 U		180 U		190 U		180 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	38	360 U		360 U		85 U		74 U		77 U		72 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	38	360 U		360 U		85 U		74 U		77 U		72 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	38	360 U		360 U		85 U		74 U		77 U		72 U

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOCATION ID									MW12B-1	MW12B-1	SB12-10	SB12-5A	SB12-5A	SB12-5A	
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID									MW12B-1-03	MW12B-1-07	123179	12519	12520	123097	
SAMPLE DEPTH TO TOP OF SAMPLE									4	12	0	0	3	6	
SAMPLE DEPTH TO BOTTOM OF SAMPLE									6	13.5	0	3	6	8	
SAMPLE DATE									13-Jun-94	13-Jun-94	27-Oct-98	08-Nov-97	08-Nov-97	14-Oct-98	
QC CODE									SA	SA	SA	SA	SA	SA	
STUDY ID									ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
PARAMETER	UNIT	AXIMU	FREQUENC OF DETECTION	NYSDEC TAGM 4046	UMBE ABOVE TAGM	NUMBER OF DETECT	NUMBER OF ANALYSE	VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	38	880 U	880 U	880 U	200 U	180 U	190 U	180 U	
2,4-Dinitrotoluene	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
2-Chloronaphthalene	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
2-Chlorophenol	UG/K	0	0%	800	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
2-Methylnaphthalene	UG/K	0	0%	36400	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
2-Methylphenol	UG/K	0	0%	100	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
2-Nitroaniline	UG/K	0	0%	430	0	0	38	880 U	880 U	880 U	200 U	180 U	190 U	180 U	
2-Nitrophenol	UG/K	0	0%	330	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
3-Nitroaniline	UG/K	0	0%	500	0	0	38	880 U	880 U	880 U	200 U	180 U	190 U	180 U	
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	38	880 U	880 U	880 U	200 U	180 U	190 U	180 U	
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
4-Chloroaniline	UG/K	0	0%	220	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
4-Methylphenol	UG/K	4.7	3%	900	0	1	38	360 U	360 U	360 U	4.7 J	74 U	77 U	72 U	
4-Nitroaniline	UG/K	0	0%		0	0	38	880 U	880 U	880 U	200 U	180 U	190 U	180 U	
4-Nitrophenol	UG/K	0	0%	100	0	0	38	880 U	880 U	880 U	200 U	180 U	190 U	180 U	
Acenaphthene	UG/K	0	0%	50000	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Acenaphthylene	UG/K	0	0%	41000	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Anthracene	UG/K	0	0%	50000	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Benzo(a)anthracene	UG/K	11	5%	224	0	2	38	360 U	360 U	360 U	11 J	74 U	77 U	72 U	
Benzo(a)pyrene	UG/K	12	5%	61	0	2	38	360 U	360 U	360 U	12 J	74 U	77 U	72 U	
Benzo(b)fluoranthene	UG/K	13	11%	1100	0	4	38	360 U	360 U	360 U	13 J	74 U	77 U	72 U	
Benzo(ghi)perylene	UG/K	9.6	5%	50000	0	2	38	360 U	360 U	360 U	9.6 J	74 U	77 U	72 U	
Benzo(k)fluoranthene	UG/K	10	5%	1100	0	2	38	360 U	360 U	360 U	10 J	74 U	77 U	72 U	
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	38	380 U	380 U	380 U	85 U	74 U	77 U	72 U	
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	30				85 U	74 U	77 U	72 U	
Bis(2-Ethylhexyl)phthalate	UG/K	83	29%	50000	0	11	38	360 U	83 J	85 U	85 U	74 U	77 U	72 U	
Butylbenzylphthalate	UG/K	7.2	5%	50000	0	2	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Carbazole	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Chrysene	UG/K	15	18%	400	0	7	38	360 U	360 U	360 U	15 J	74 U	77 U	72 U	
Di-n-butylphthalate	UG/K	53	13%	8100	0	5	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Di-n-octylphthalate	UG/K	34	21%	50000	0	8	38	360 U	360 U	360 U	15 J	74 U	77 U	13 J	
Dibenz(a,h)anthracene	UG/K	4.8	3%	14	0	1	38	360 U	360 U	360 U	4.8 J	74 U	77 U	72 U	
Dibenzofuran	UG/K	0	0%	6200	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Diethyl phthalate	UG/K	5.8	3%	7100	0	1	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Dimethylphthalate	UG/K	0	0%	2000	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Fluoranthene	UG/K	18	11%	50000	0	4	38	360 U	360 U	360 U	18 J	74 U	77 U	72 U	
Fluorene	UG/K	0	0%	50000	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Hexachlorobenzene	UG/K	0	0%	410	0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	
Hexachlorobutadiene	UG/K	0	0%		0	0	38	360 U	360 U	360 U	85 U	74 U	77 U	72 U	

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12						
LOCATION ID								MW12B-1	MW12B-1	SB12-10	SB12-5A	SB12-5A	SB12-5A						
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
SAMPLE ID								MW12B-1-03	MW12B-1-07	123179	12519	12520	123097						
SAMPLE DEPTH TO TOP OF SAMPLE								4	12	0	0	3	6						
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	13.5	0	3	6	8						
SAMPLE DATE								13-Jun-94	13-Jun-94	27-Oct-98	08-Nov-97	08-Nov-97	14-Oct-98						
QC CODE								SA	SA	SA	SA	SA	SA						
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1						
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)				
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
Hexachloroethane	UG/K	0	0%		0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
Indeno(1,2,3-cd)pyrene	UG/K	7.3	5%	3200	0	2	38	360	U	360	U	7.3	J	74	U	77	U	72	UJ
Isophorone	UG/K	0	0%	4400	0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
N-Nitrosodiphenylamine	UG/K	0	0%		0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
N-Nitrosodipropylamine	UG/K	0	0%		0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
Naphthalene	UG/K	0	0%	13000	0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
Nitrobenzene	UG/K	0	0%	200	0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
Pentachlorophenol	UG/K	0	0%	1000	0	0	38	880	U	880	U	200	U	180	U	190	U	180	UJ
Phenanthrene	UG/K	13	16%	50000	0	6	38	360	U	360	U	13	J	74	U	77	U	72	U
Phenol	UG/K	0	0%	30	0	0	38	360	U	360	U	85	U	74	U	77	U	72	U
Pyrene	UG/K	20	13%	50000	0	5	38	360	U	360	U	20	J	74	U	77	U	72	U
<b>Pesticides/ PCBs</b>																			
4,4'-DDD	UG/K	0	0%	2900	0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
4,4'-DDE	UG/K	0	0%	2100	0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
4,4'-DDT	UG/K	0	0%	2100	0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
Aldrin	UG/K	0	0%	41	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Alpha-BHC	UG/K	0	0%	110	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Alpha-Chlordane	UG/K	0	0%		0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Aroclor-1016	UG/K	0	0%		0	0	38	36	U	36	U	42	U	37	U	38	U	36	U
Aroclor-1221	UG/K	0	0%		0	0	38	74	U	74	U	86	U	75	U	78	U	74	U
Aroclor-1232	UG/K	0	0%		0	0	38	36	U	36	U	42	U	37	U	38	U	36	U
Aroclor-1242	UG/K	16	3%		0	1	38	16	J	36	U	42	U	37	U	38	U	36	U
Aroclor-1248	UG/K	0	0%		0	0	38	36	U	36	U	42	U	37	U	38	U	36	U
Aroclor-1254	UG/K	0	0%	10000	0	0	38	36	U	36	U	42	U	37	U	38	U	36	U
Aroclor-1260	UG/K	0	0%	10000	0	0	38	36	U	36	U	42	U	37	U	38	U	36	U
Beta-BHC	UG/K	0	0%	200	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Delta-BHC	UG/K	0	0%	300	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Dieldrin	UG/K	0	0%	44	0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
Endosulfan I	UG/K	0	0%	900	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Endosulfan II	UG/K	0	0%	900	0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
Endosulfan sulfate	UG/K	0	0%	1000	0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
Endrin	UG/K	0	0%	100	0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
Endrin aldehyde	UG/K	0	0%		0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
Endrin ketone	UG/K	0	0%		0	0	38	3.6	U	3.6	U	4.2	U	3.7	U	3.8	U	3.6	U
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Gamma-Chlordane	UG/K	0	0%	540	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Heptachlor	UG/K	0	0%	100	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Heptachlor epoxide	UG/K	0	0%	20	0	0	38	1.9	U	1.9	U	2.2	U	1.9	U	2	U	1.9	U
Methoxychlor	UG/K	0	0%		0	0	38	19	U	19	U	22	U	19	U	20	U	19	U
Toxaphene	UG/K	0	0%		0	0	38	190	U	190	U	220	U	190	U	200	U	190	U
<b>Metals</b>																			
Aluminum	MG/K	14500	100%	19520	0	38	38	8060		5940		8590		9170		9790		7920	J
Antimony	MG/K	0.67	3%	6	0	1	38	0.2	UJ	0.26	UJ	1.5	UR	0.76	UJ	0.71	UJ	1.3	UR

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID								MW12B-1	MW12B-1	SB12-10	SB12-5A	SB12-5A	SB12-5A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								MW12B-1-03	MW12B-1-07	123179	12519	12520	123097
SAMPLE DEPTH TO TOP OF SAMPLE								4	12	0	0	3	6
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	13.5	0	3	6	8
SAMPLE DATE								13-Jun-94	13-Jun-94	27-Oct-98	08-Nov-97	08-Nov-97	14-Oct-98
QC CODE								SA	SA	SA	SA	SA	SA
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	ESI	ESI	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
			OF	TAGM	ABOVE	OF	OF	VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE
PARAMETER	UNIT	AXIMU	DETECTION	4048	TAGM	DETECT	ANALYSE	VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE
Arsenic	MG/K	8.1	100%	8.9	0	38	38	4.6	2.9	5.8	4.5	3.7	3.6 J
Barium	MG/K	138	100%	300	0	38	38	89.1	43.8	90.4	97.9	71	108
Beryllium	MG/K	0.62	100%	1.13	0	38	38	0.4 J	0.27 J	0.46 J	0.33	0.36	0.33 J
Cadmium	MG/K	0.52	21%	2.46	0	8	38	0.52 J	0.32 J	0.45 U	0.07 U	0.06 U	0.07 U
Calcium	MG/K	132000	100%	125300	1	38	38	74200	51100	73600	74500	71600	85500 J
Chromium	MG/K	20.8	100%	30	0	38	38	12.7	12	18.9 J	14.3	14.9	14.1
Cobalt	MG/K	14.5	100%	30	0	38	38	8.3	5.2 J	9.9 J	10.9	9.2	8 J
Copper	MG/K	41.1	100%	33	4	38	38	22.5	17.3		24.6	23.3	21.9
Cyanide	MG/K	0	0%	0.35	0	0	38	0.47 U	0.47 U	0.63 U	0.59 U	0.66 U	0.56 U
Iron	MG/K	41100	100%	37410	1	38	38	17200	13500		19900	19000	14500
Lead	MG/K	16.4	100%	24.4	0	38	38	10.3	7.3	5.1 J	12.9	11.2	8 J
Magnesium	MG/K	34200	100%	21700	2	38	38	16300	8320	19400	12300	12500	15400 J
Manganese	MG/K	596	100%	1100	0	38	38	369	244	596	526	454	349
Mercury	MG/K	0.5	34%	0.1	4	13	38		0.03 J		0.06	0.06 U	0.05 U
Nickel	MG/K	50.9	92%	50	1	35	38	23.5	19	31.4 UJ	28.7	26.8	24.5 J
Potassium	MG/K	2330	100%	2623	0	38	38	1660 J	1040 J	1300	1470 J	1830 J	1470
Selenium	MG/K	2.5	18%	2	2	7	38	0.72 J		0.66 J	1 UJ	0.95 UJ	1 U
Silver	MG/K	0.27	8%	0.8	0	3	38	0.08 U	0.1 U	0.3 U	0.46 U	0.43 U	0.26 U
Sodium	MG/K	252	71%	188	2	27	38	135 J	77.3 J	112 J	133 U	123 U	116 J
Thallium	MG/K	2.2	34%	0.855	7	13	38	0.37 J	0.39 J		1.4 U	1.3 U	1.1 U
Vanadium	MG/K	23.8	100%	150	0	38	38	13.8	11.5	18.3	16.3	18	14.2
Zinc	MG/K	142	100%	115	1	38	38	50.5	38.2	80 J	58.5	52.8	48 J



TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOCATION ID								SB12-5A	SB12-5A	SB12-5A	SB12-5A	SB12-6				
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID								12521	12522	12523	123098	12514				
SAMPLE DEPTH TO TOP OF SAMPLE								6	9	12	12	0				
SAMPLE DEPTH TO BOTTOM OF SAMPLE								9	12	14	14	3				
SAMPLE DATE								08-Nov-97	08-Nov-97	08-Nov-97	14-Oct-98	08-Nov-97				
QC CODE								SA	SA	SA	SA	SA				
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1				
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
OF	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
<b>Volatile Organics</b>																
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	38	11 U		11 U		11 UJ		12 U		11 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	38	11 U		11 U		11 UJ		12 U		11 U
1,1,2-Trichloroethane	UG/K	0	0%		0	0	38	11 U		11 U		11 UJ		12 U		11 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	38	11 U		11 U		11 UJ		12 U		11 U
1,1-Dichloroethene	UG/K	0	0%	400	0	0	38	11 U		11 U		11 UJ		12 U		11 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	38	11 U		11 U		11 UJ		12 U		11 U
1,2-Dichloroethene (total)	UG/K	0	0%		0	0	38	11 U		11 U		11 UJ		12 U		11 U
1,2-Dichloropropane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		12 U		11 U
Acetone	UG/K	98	39%	200	0	15	38	35		8 J		20		12 U		11 J
Benzene	UG/K	2	3%	60	0	1	38	11 U		11 U		2 J		12 U		11 U
Bromodichloromethane	UG/K	0	0%		0	0	38	11 U		11 U		11 UJ		12 U		11 U
Bromoform	UG/K	0	0%		0	0	38	11 U		11 U		11 U		12 U		11 U
Carbon disulfide	UG/K	3	5%	2700	0	2	38	11 U		11 U		3 J		12 U		11 U
Carbon tetrachloride	UG/K	0	0%	600	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Chlorobenzene	UG/K	0	0%	1700	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Chlorodibromomethane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		12 U		11 U
Chloroethane	UG/K	0	0%	1900	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Chloroform	UG/K	0	0%	300	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		11 U		12 U		11 U
Ethyl benzene	UG/K	0	0%	5500	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Methyl bromide	UG/K	0	0%		0	0	38	11 U		11 U		11 U		12 U		11 U
Methyl butyl ketone	UG/K	0	0%		0	0	38	11 U		11 U		11 U		12 U		11 U
Methyl chloride	UG/K	0	0%		0	0	38	11 U		11 U		11 UJ		12 U		11 U
Methyl ethyl ketone	UG/K	3	3%	300	0	1	38	11 U		11 U		11 UJ		12 U		11 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	38	11 U		11 U		11 U		12 U		11 U
Methylene chloride	UG/K	2	11%	100	0	4	38	11 U		11 U		2 J		12 U		11 U
Styrene	UG/K	0	0%		0	0	38	11 U		11 U		11 UJ		12 U		11 U
Tetrachloroethene	UG/K	0	0%	1400	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Toluene	UG/K	15	24%	1500	0	9	38	11 U		11 U		13 UJ		12 U		11 U
Total Xylenes	UG/K	0	0%	1200	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		11 UJ		12 U		11 U
Trichloroethene	UG/K	0	0%	700	0	0	38	11 U		11 U		11 UJ		12 U		11 U
Vinyl chloride	UG/K	0	0%	200	0	0	38	11 U		11 U		11 UJ		12 U		11 U
<b>Semi-Volatile Organics</b>																
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	38	74 U		73 U		72 U		73 U		75 U
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	38	74 U		73 U		72 U		73 U		75 U
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	38	74 U		73 U		72 U		73 U		75 U
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	38	74 U		73 U		72 U		73 U		75 U
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	8									
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	38	180 U		180 U		180 U		180 U		180 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	38	74 U		73 U		72 U		73 U		75 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	38	74 U		73 U		72 U		73 U		75 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	38	74 U		73 U		72 U		73 UJ		75 U

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOCATION ID								SB12-5A	SB12-5A	SB12-5A	SB12-5A	SB12-6	
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID								12521	12522	12523	123098	12514	
SAMPLE DEPTH TO TOP OF SAMPLE								6	9	12	12	0	
SAMPLE DEPTH TO BOTTOM OF SAMPLE								9	12	14	14	3	
SAMPLE DATE								08-Nov-97	08-Nov-97	08-Nov-97	14-Oct-98	08-Nov-97	
QC CODE								SA	SA	SA	SA	SA	
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	38	180 U		180 UJ		180 U	180 U
2,4-Dinitrotoluene	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 U
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	38	74 U		73 U		72 U	73 U
2-Chloronaphthalene	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 U
2-Chlorophenol	UG/K	0	0%	800	0	0	38	74 U		73 U		72 U	73 U
2-Methylnaphthalene	UG/K	0	0%	36400	0	0	38	74 U		73 U		72 U	73 U
2-Methylphenol	UG/K	0	0%	100	0	0	38	74 U		73 U		72 U	73 U
2-Nitroaniline	UG/K	0	0%	430	0	0	38	180 U		180 U		180 U	180 U
2-Nitrophenol	UG/K	0	0%	330	0	0	38	74 U		73 U		72 U	73 U
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	38	74 U		73 UJ		72 UJ	73 U
3-Nitroaniline	UG/K	0	0%	500	0	0	38	180 U		180 UJ		180 UJ	180 U
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	38	180 U		180 U		180 U	180 U
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 U
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	38	74 U		73 U		72 U	73 U
4-Chloroaniline	UG/K	0	0%	220	0	0	38	74 U		73 UJ		72 UJ	73 UJ
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 U
4-Methylphenol	UG/K	4.7	3%	900	0	1	38	74 U		73 U		72 U	73 U
4-Nitroaniline	UG/K	0	0%		0	0	38	180 U		180 UJ		180 UJ	180 U
4-Nitrophenol	UG/K	0	0%	100	0	0	38	180 U		180 U		180 U	180 U
Acenaphthene	UG/K	0	0%	50000	0	0	38	74 U		73 U		72 U	73 U
Acenaphthylene	UG/K	0	0%	41000	0	0	38	74 U		73 U		72 U	73 U
Anthracene	UG/K	0	0%	50000	0	0	38	74 U		73 U		72 U	73 U
Benzo(a)anthracene	UG/K	11	5%	224	0	2	38	74 U		73 U		72 U	73 U
Benzo(a)pyrene	UG/K	12	5%	61	0	2	38	74 U		73 U		72 U	73 U
Benzo(b)fluoranthene	UG/K	13	11%	1100	0	4	38	74 U		73 U		72 U	73 U
Benzo(ghi)perylene	UG/K	9.6	5%	50000	0	2	38	74 U		73 U		72 U	73 UJ
Benzo(k)fluoranthene	UG/K	10	5%	1100	0	2	38	74 U		73 U		72 U	73 U
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 U
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 U
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	30	74 U		73 U		72 U	73 U
Bis(2-Ethylhexyl)phthalate	UG/K	83	29%	50000	0	11	38	74 U		73 U		72 U	73 UJ
Butylbenzylphthalate	UG/K	7.2	5%	50000	0	2	38	74 U		73 U		72 U	73 UJ
Carbazole	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 UJ
Chrysene	UG/K	15	18%	400	0	7	38	74 U		73 U		72 U	73 U
Di-n-butylphthalate	UG/K	53	13%	8100	0	5	38	74 U		73 U		72 U	73 U
Di-n-octylphthalate	UG/K	34	21%	50000	0	8	38	74 U		73 U		72 U	6.4 J
Dibenz(a,h)anthracene	UG/K	4.8	3%	14	0	1	38	74 U		73 U		72 U	73 UJ
Dibenzofuran	UG/K	0	0%	6200	0	0	38	74 U		73 U		72 U	73 U
Diethyl phthalate	UG/K	5.8	3%	7100	0	1	38	74 U		73 U		72 U	73 U
Dimethylphthalate	UG/K	0	0%	2000	0	0	38	74 U		73 U		72 U	73 U
Fluoranthene	UG/K	18	11%	50000	0	4	38	74 U		73 U		72 U	73 U
Fluorene	UG/K	0	0%	50000	0	0	38	74 U		73 U		72 U	73 U
Hexachlorobenzene	UG/K	0	0%	410	0	0	38	74 U		73 U		72 U	73 U
Hexachlorobutadiene	UG/K	0	0%		0	0	38	74 U		73 U		72 U	73 UJ



TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOCATION ID								SB12-5A	SB12-5A	SB12-5A	SB12-5A	SB12-6	
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID								12521	12522	12523	123098	12514	
SAMPLE DEPTH TO TOP OF SAMPLE								6	9	12	12	0	
SAMPLE DEPTH TO BOTTOM OF SAMPLE								9	12	14	14	3	
SAMPLE DATE								08-Nov-97	08-Nov-97	08-Nov-97	14-Oct-98	08-Nov-97	
QC CODE								SA	SA	SA	SA	SA	
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	
PARAMETER	UNIT	AXIMU	OF DETECTION	4046 TAGM	ABOVE TAGM	OF DETECT	OF ANALYSE	VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	38	74 U		73 U	72 U	73 U	75 U
Hexachloroethane	UG/K	0	0%		0	0	38	74 U		73 U	72 U	73 U	75 U
Indeno(1,2,3-cd)pyrene	UG/K	7.3	5%	3200	0	2	38	74 U		73 U	72 U	73 U	75 U
Isophorone	UG/K	0	0%	4400	0	0	38	74 U		73 U	72 U	73 U	75 U
N-Nitrosodiphenylamine	UG/K	0	0%		0	0	38	74 U		73 U	72 U	73 U	75 U
N-Nitrosodipropylamine	UG/K	0	0%		0	0	38	74 U		73 U	72 U	73 U	75 U
Naphthalene	UG/K	0	0%	13000	0	0	38	74 U		73 U	72 U	73 U	75 U
Nitrobenzene	UG/K	0	0%	200	0	0	38	74 U		73 U	72 U	73 U	75 U
Pentachlorophenol	UG/K	0	0%	1000	0	0	38	180 U		180 U	180 U	180 U	180 U
Phenanthrene	UG/K	13	16%	50000	0	6	38	74 U		73 U	72 U	73 U	4.5 J
Phenol	UG/K	0	0%	30	0	0	38	74 U		73 U	72 U	73 U	75 U
Pyrene	UG/K	20	13%	50000	0	5	38	74 U		73 U	72 U	73 U	5.9 J
<b>Pesticides/ PCBs</b>													
4,4'-DDD	UG/K	0	0%	2900	0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
4,4'-DDE	UG/K	0	0%	2100	0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
4,4'-DDT	UG/K	0	0%	2100	0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
Aldrin	UG/K	0	0%	41	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Alpha-BHC	UG/K	0	0%	110	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Alpha-Chlordane	UG/K	0	0%		0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Aroclor-1016	UG/K	0	0%		0	0	38	37 U		37 U	36 U	37 U	38 U
Aroclor-1221	UG/K	0	0%		0	0	38	75 U		74 U	74 U	74 U	76 U
Aroclor-1232	UG/K	0	0%		0	0	38	37 U		37 U	36 U	37 U	38 U
Aroclor-1242	UG/K	16	3%		0	1	38	37 U		37 U	36 U	37 U	38 U
Aroclor-1248	UG/K	0	0%		0	0	38	37 U		37 U	36 U	37 U	38 U
Aroclor-1254	UG/K	0	0%	10000	0	0	38	37 U		37 U	36 U	37 U	38 U
Aroclor-1260	UG/K	0	0%	10000	0	0	38	37 U		37 U	36 U	37 U	38 U
Beta-BHC	UG/K	0	0%	200	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Delta-BHC	UG/K	0	0%	300	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Dieldrin	UG/K	0	0%	44	0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
Endosulfan I	UG/K	0	0%	900	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Endosulfan II	UG/K	0	0%	900	0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
Endosulfan sulfate	UG/K	0	0%	1000	0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
Endrin	UG/K	0	0%	100	0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
Endrin aldehyde	UG/K	0	0%		0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
Endrin ketone	UG/K	0	0%		0	0	38	3.7 U		3.7 U	3.6 U	3.7 U	3.8 U
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Gamma-Chlordane	UG/K	0	0%	540	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Heptachlor	UG/K	0	0%	100	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Heptachlor epoxide	UG/K	0	0%	20	0	0	38	1.9 U		1.9 U	1.9 U	1.9 U	1.9 U
Methoxychlor	UG/K	0	0%		0	0	38	19 U		19 U	19 U	19 U	19 U
Toxaphene	UG/K	0	0%		0	0	38	190 U		190 U	190 U	190 U	190 U
<b>Metals</b>													
Aluminum	MG/K	14500	100%	19520	0	38	38	10400		9060	8460	6080 J	14500
Antimony	MG/K	0.67	3%	6	0	1	38	0.76 UJ		0.64 UJ	0.67 J	1.2 UR	0.78 UJ

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID									SB12-5A	SB12-5A	SB12-5A	SB12-5A	SB12-6
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID									12521	12522	12523	123098	12514
SAMPLE DEPTH TO TOP OF SAMPLE									6	9	12	12	0
SAMPLE DEPTH TO BOTTOM OF SAMPLE									9	12	14	14	3
SAMPLE DATE									08-Nov-97	08-Nov-97	08-Nov-97	14-Oct-98	08-Nov-97
QC CODE									SA	SA	SA	SA	SA
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE
Arsenic	MG/K	8.1	100%	8.9	0	38	38	3.9	4.8	3.3	5	J	4.6
Barium	MG/K	138	100%	300	0	38	38	71.1	60	42.4	52.7		110
Beryllium	MG/K	0.62	100%	1.13	0	38	38	0.34	0.36	0.31	0.17	J	0.62
Cadmium	MG/K	0.52	21%	2.46	0	8	38	0.06	0.06	0.05	0.06	U	0.07
Calcium	MG/K	132000	100%	125300	1	38	38	82300	79400	95800	105000	J	23300
Chromium	MG/K	20.8	100%	30	0	38	38	16.3	16.9	14.9	11.3		20.8
Cobalt	MG/K	14.5	100%	30	0	38	38	10.2	14.5	9	8.9		10.2
Copper	MG/K	41.1	100%	33	4	38	38	22.9		22.2	16.7		26.9
Cyanide	MG/K	0	0%	0.35	0	0	38	0.62	0.62	0.64	0.59	U	0.68
Iron	MG/K	41100	100%	57410	1	38	38	21300	25000	19600	16600		24500
Lead	MG/K	16.4	100%	24.4	0	38	38	11.1	16.4	9.5	6.7	J	11.1
Magnesium	MG/K	34200	100%	21700	2	38	38	13900	9080	12500	12700	J	6860
Manganese	MG/K	596	100%	1100	0	38	38	573	478	415	541		513
Mercury	MG/K	0.5	34%	0.1	4	13	38	0.05	0.04	0.05	0.06	U	0.06
Nickel	MG/K	50.9	92%	50	1	35	38	31.1	44.8	27.1	23	J	31.9
Potassium	MG/K	2330	100%	2623	0	38	38	1980	1230	1460	1000	J	1950
Selenium	MG/K	2.5	18%	2	2	7	38	1	0.87	0.83	0.88	U	1
Silver	MG/K	0.27	8%	0.8	0	3	38	0.45	0.39	0.37	0.23	U	0.46
Sodium	MG/K	252	71%	188	2	27	38	131	132	140	169	J	132
Thallium	MG/K	2.2	34%	0.855	7	13	38	1.4	1.2	1.1	0.99	U	1.4
Vanadium	MG/K	23.8	100%	150	0	38	38	17.5	14.9	14.2	10.5		23.8
Zinc	MG/K	142	100%	115	1	38	38	56.1	73.5	64.7	40.6	J	70

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOCATION ID								SB12-6	SB12-6	SB12-6	SB12-6	SB12B-1	TP12-25A				
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID								12515	12516	12517	12518	SB12B-1-1	123077				
SAMPLE DEPTH TO TOP OF SAMPLE								3	6	9	12	18	0.5				
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	9	12	14.3	21	0.5				
SAMPLE DATE								08-Nov-97	08-Nov-97	08-Nov-97	08-Nov-97	29-Jun-94	05-Oct-98				
QC CODE								SA	SA	SA	SA	SA	DU				
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	SA	DU				
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
<b>Volatile Organics</b>																	
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	38	11 U		11 U		11 U		11 U		11 U	
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	38	11 U		11 U		11 U		11 U		11 U	
1,1,2-Trichloroethane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
1,1-Dichloroethane	UG/K	0	0%	200	0	0	38	11 U		11 U		11 U		11 U		11 U	
1,1-Dichloroethene	UG/K	0	0%	400	0	0	38	11 U		11 U		11 U		11 U		11 U	
1,2-Dichloroethane	UG/K	0	0%	100	0	0	38	11 U		11 U		11 U		11 U		11 U	
1,2-Dichloroethene (total)	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
1,2-Dichloropropane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Acetone	UG/K	98	39%	200	0	15	38	7 J		17 J		7 J		17 J		11 U	6 J
Benzene	UG/K	2	3%	60	0	1	38	11 U		11 U		11 U		11 U		11 U	
Bromodichloromethane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Bromofom	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Carbon disulfide	UG/K	3	5%	2700	0	2	38	11 U		11 U		11 U		11 U		1 J	
Carbon tetrachloride	UG/K	0	0%	600	0	0	38	11 U		11 U		11 U		11 U		11 U	
Chlorobenzene	UG/K	0	0%	1700	0	0	38	11 U		11 U		11 U		11 U		11 U	
Chlorodibromomethane	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Chloroethane	UG/K	0	0%	1900	0	0	38	11 U		11 U		11 U		11 U		11 U	
Chloroform	UG/K	0	0%	300	0	0	38	11 U		11 U		11 U		11 U		11 U	
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Ethyl benzene	UG/K	0	0%	5500	0	0	38	11 U		11 U		11 U		11 U		11 U	
Methyl bromide	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Methyl butyl ketone	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Methyl chloride	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Methyl ethyl ketone	UG/K	3	3%	300	0	1	38	11 U		11 U		11 U		11 U		3 J	
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	38	11 U		11 U		11 U		11 U		11 U	
Methylene chloride	UG/K	2	11%	100	0	4	38	11 U		2 J		11 U		2 J		11 U	
Styrene	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Tetrachloroethane	UG/K	0	0%	1400	0	0	38	11 U		11 U		11 U		11 U		11 U	
Toluene	UG/K	15	24%	1500	0	9	38	11 U		3 J		11 U		3 J		11 U	
Total Xylenes	UG/K	0	0%	1200	0	0	38	11 U		11 U		11 U		11 U		11 U	
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U		11 U		11 U		11 U		11 U	
Trichloroethene	UG/K	0	0%	700	0	0	38	11 U		11 U		11 U		11 U		11 U	
Vinyl chloride	UG/K	0	0%	200	0	0	38	11 U		11 U		11 U		11 U		11 U	
<b>Semi-Volatile Organics</b>																	
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	38	76 U		76 U		75 U		75 U		380 U	73 UR
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	38	76 U		76 U		75 U		75 U		380 U	73 UR
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	38	76 U		76 U		75 U		75 U		380 U	73 UR
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	38	76 U		76 U		75 U		75 U		380 U	73 UR
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	8									380 U	
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	38	180 U		180 U		180 U		180 U		910 U	180 U
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	38	76 U		76 U		75 U		75 U		380 U	73 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	38	76 U		76 U		75 U		75 U		380 U	73 U
2,4-Dimethylphenol	UG/K	0	0%		0	0	38	76 U		76 U		75 U		75 U		380 U	73 U

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID								SB12-6	SB12-6	SB12-6	SB12-6	SB12B-1	TP12-25A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								12515	12516	12517	12518	SB12B-1-1	123077
SAMPLE DEPTH TO TOP OF SAMPLE								3	6	9	12	18	0.5
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	9	12	14.3	21	0.5
SAMPLE DATE								08-Nov-97	08-Nov-97	08-Nov-97	08-Nov-97	29-Jun-94	05-Oct-98
QC CODE								SA	SA	SA	SA	SA	DU
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	RI PHASE 1 STEP 1
			OF	TAGM	ABOVE	OF	OF	VALUE	(Q)VALUE	(Q)VALUE	(Q)VALUE	(Q)VALUE	(Q)VALUE
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q)VALUE	(Q)VALUE	(Q)VALUE	(Q)VALUE	(Q)VALUE
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	38	180 U	180 U	180 U	180 U	910 U	180 U
2,4-Dinitrotoluene	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
2-Chloronaphthalene	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
2-Chlorophenol	UG/K	0	0%	800	0	0	38	76 U	76 U	75 U	75 U	380 U	73 U
2-Methylnaphthalene	UG/K	0	0%	36400	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
2-Methylphenol	UG/K	0	0%	100	0	0	38	76 U	76 U	75 U	75 U	380 U	73 U
2-Nitroaniline	UG/K	0	0%	430	0	0	38	180 U	180 U	180 U	180 U	910 U	180 UR
2-Nitrophenol	UG/K	0	0%	330	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UJ
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
3-Nitroaniline	UG/K	0	0%	500	0	0	38	180 U	180 U	180 U	180 U	910 U	180 UR
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	38	180 U	180 U	180 U	180 U	910 U	180 U
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	38	76 U	76 U	75 U	75 U	380 U	73 U
4-Chloroaniline	UG/K	0	0%	220	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
4-Methylphenol	UG/K	4.7	3%	900	0	1	38	76 U	76 U	75 U	75 U	380 U	73 U
4-Nitroaniline	UG/K	0	0%		0	0	38	180 U	180 U	180 U	180 U	910 U	180 UR
4-Nitrophenol	UG/K	0	0%	100	0	0	38	180 U	180 U	180 U	180 U	910 U	180 U
Acenaphthene	UG/K	0	0%	50000	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Acenaphthylene	UG/K	0	0%	41000	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Anthracene	UG/K	0	0%	50000	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Benzo(a)anthracene	UG/K	11	5%	224	0	2	38	76 U	76 U	75 U	75 U	380 U	73 UR
Benzo(a)pyrene	UG/K	12	5%	61	0	2	38	76 U	76 U	75 U	75 U	380 U	73 UR
Benzo(b)fluoranthene	UG/K	13	11%	1100	0	4	38	76 U	76 U	75 U	75 U	380 U	73 UR
Benzo(ghi)perylene	UG/K	9.6	5%	50000	0	2	38	76 U	76 U	75 U	75 U	380 U	73 UR
Benzo(k)fluoranthene	UG/K	10	5%	1100	0	2	38	76 U	76 U	75 U	75 U	380 U	73 UR
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	30	76 U	76 U	75 U	75 U	380 U	73 UR
Bis(2-Ethylhexyl)phthalate	UG/K	83	29%	50000	0	11	38	76 U	76 U	75 U	75 U	380 U	7.8 J
Butylbenzylphthalate	UG/K	7.2	5%	50000	0	2	38	76 U	76 U	75 U	75 U	380 U	73 UR
Carbazole	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Chrysene	UG/K	15	18%	400	0	7	38	76 U	76 U	75 U	75 U	380 U	73 UR
Di-n-butylphthalate	UG/K	53	13%	8100	0	5	38	4.1 J	76 U	75 U	75 U	380 U	73 UJ
Di-n-octylphthalate	UG/K	34	21%	50000	0	8	38	76 U	76 U	75 U	75 U	380 U	73 UR
Dibenz(a,h)anthracene	UG/K	4.8	3%	14	0	1	38	76 U	76 U	75 U	75 U	380 U	73 UR
Dibenzofuran	UG/K	0	0%	6200	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Diethyl phthalate	UG/K	5.8	3%	7100	0	1	38	5.8 J	76 U	75 U	75 U	380 U	73 UJ
Dimethylphthalate	UG/K	0	0%	2000	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Fluoranthene	UG/K	18	11%	50000	0	4	38	76 U	76 U	75 U	75 U	380 U	73 UR
Fluorene	UG/K	0	0%	50000	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Hexachlorobenzene	UG/K	0	0%	410	0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR
Hexachlorobutadiene	UG/K	0	0%		0	0	38	76 U	76 U	75 U	75 U	380 U	73 UR

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12			
LOCATION ID								SB12-6		SB12-6		SB12-6		SB12-6		SB12B-1		TP12-25A			
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL		SOIL			
SAMPLE ID								12515		12516		12517		12518		SB12B-1-1		123077			
SAMPLE DEPTH TO TOP OF SAMPLE								3		6		9		12		18		0.5			
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6		9		12		14.3		21		0.5			
SAMPLE DATE								08-Nov-97		08-Nov-97		08-Nov-97		08-Nov-97		29-Jun-94		05-Oct-98			
QC CODE								SA		SA		SA		SA		SA		DU			
STUDY ID				FREQUENC		NYSDEC		UMBE		NUMBER		NUMBER		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1		RI PHASE 1 STEP 1	
				OF		TAGM		ABOVE		OF		OF									
PARAMETER		UNIT		DETECTION		4046		TAGM		DETECT		ANALYSE		VALUE		(Q)		VALUE		(Q)	
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	0	0	38	76	U	76	U	75	U	75	U	380	U	73	UR
Hexachloroethane	UG/K	0	0%		0	0	0	0	38	76	U	76	U	75	U	75	U	380	U	73	UR
Indeno(1,2,3-cd)pyrene	UG/K	7.3	5%	3200	0	2	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
Isophorone	UG/K	0	0%	4400	0	0	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
N-Nitrosodiphenylamine	UG/K	0	0%		0	0	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
N-Nitrosodipropylamine	UG/K	0	0%		0	0	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
Naphthalene	UG/K	0	0%	13000	0	0	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
Nitrobenzene	UG/K	0	0%	200	0	0	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
Pentachlorophenol	UG/K	0	0%	1000	0	0	38	180	U	180	U	180	U	180	U	180	U	910	U	180	U
Phenanthrene	UG/K	13	16%	50000	0	6	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
Phenol	UG/K	0	0%	30	0	0	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
Pyrene	UG/K	20	13%	50000	0	5	38	76	U	76	U	76	U	75	U	75	U	380	U	73	UR
<b>Pesticides/ PCBs</b>																					
4,4'-DDD	UG/K	0	0%	2800	0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
4,4'-DDE	UG/K	0	0%	2100	0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
4,4'-DDT	UG/K	0	0%	2100	0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
Aldrin	UG/K	0	0%	41	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Alpha-BHC	UG/K	0	0%	110	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Alpha-Chlordane	UG/K	0	0%		0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Aroclor-1016	UG/K	0	0%		0	0	38	38	U	38	U	38	U	38	U	38	U	38	U	37	U
Aroclor-1221	UG/K	0	0%		0	0	38	77	U	77	U	76	U	76	U	77	U	76	U	74	U
Aroclor-1232	UG/K	0	0%		0	0	38	38	U	38	U	38	U	38	U	38	U	38	U	37	U
Aroclor-1242	UG/K	16	3%		0	1	38	38	U	38	U	38	U	38	U	38	U	38	U	37	U
Aroclor-1248	UG/K	0	0%		0	0	38	38	U	38	U	38	U	38	U	38	U	38	U	37	U
Aroclor-1254	UG/K	0	0%	10000	0	0	38	38	U	38	U	38	U	38	U	38	U	38	U	37	U
Aroclor-1260	UG/K	0	0%	10000	0	0	38	38	U	38	U	38	U	38	U	38	U	38	U	37	U
Beta-BHC	UG/K	0	0%	200	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Delta-BHC	UG/K	0	0%	300	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Dieldrin	UG/K	0	0%	44	0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
Endosulfan I	UG/K	0	0%	900	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Endosulfan II	UG/K	0	0%	900	0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
Endosulfan sulfate	UG/K	0	0%	1000	0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
Endrin	UG/K	0	0%	100	0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
Endrin aldehyde	UG/K	0	0%		0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
Endrin ketone	UG/K	0	0%		0	0	38	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.7	U
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Gamma-Chlordane	UG/K	0	0%	540	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Heptachlor	UG/K	0	0%	100	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Heptachlor epoxide	UG/K	0	0%	20	0	0	38	2	U	2	U	1.9	U	1.9	U	1.9	U	2	U	1.9	U
Methoxychlor	UG/K	0	0%		0	0	38	20	U	20	U	19	U	19	U	19	U	20	U	19	U
Toxaphene	UG/K	0	0%		0	0	38	200	U	200	U	190	U	190	U	190	U	200	U	190	U
<b>Metals</b>																					
Aluminum	MG/K	14500	100%	19520	0	38	38	10900		9160		8890		8230		9050	J		7270		
Antimony	MG/K	0.67	3%	6	0	1	38	0.74	UJ	0.69	UJ	0.73	UJ	0.77	UJ	0.26	UJ			1.1	UR

FORMER DRY WASTE DISPOSAL PIT - CHEMICAL  
 SUBSURFACE SOIL

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOCATION ID								SB12-6	SB12-6	SB12-6	SB12-6	SB12B-1	TP12-25A				
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID								12515	12516	12517	12518	SB12B-1-1	123077				
SAMPLE DEPTH TO TOP OF SAMPLE								3	8	9	12	18	0.5				
SAMPLE DEPTH TO BOTTOM OF SAMPLE								6	9	12	14.3	21	0.5				
SAMPLE DATE								08-Nov-97	08-Nov-97	08-Nov-97	08-Nov-97	29-Jun-94	05-Oct-98				
QC CODE								SA	SA	SA	SA	SA	DU				
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	ESI	RI PHASE 1 STEP 1				
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Arsenic	MG/K	8.1	100%	8.9	0	38	38	4.7		3.8		3.7		2.8		1.9	J
Barium	MG/K	138	100%	300	0	38	38	76.8		65.9		61.2		39.1		138	J
Beryllium	MG/K	0.62	100%	1.13	0	38	38	0.46		0.34		0.3		0.3		0.44	J
Cadmium	MG/K	0.52	21%	2.46	0	8	38	0.06	U	0.06	U	0.06	U	0.07	U	0.29	J
Calcium	MG/K	132000	100%	125300	1	38	38	56800		70500		92400		98600		83400	J
Chromium	MG/K	20.8	100%	30	0	38	38	17.2		13.2		14.8		14.2		13.8	J
Cobalt	MG/K	14.5	100%	30	0	38	38	10.7		9.3		11		9.1		4.8	J
Copper	MG/K	41.1	100%	33	4	38	38	26.6		20.9				22		15.6	J
Cyanide	MG/K	0	0%	0.35	0	0	38	0.71	U	0.64	U	0.67	U	0.62	U	0.41	U
Iron	MG/K	41100	100%	37410	1	38	38	23500		17600		20800		18900		14100	J
Lead	MG/K	16.4	100%	24.4	0	38	38	12.8		8.1		12.3		8.2		7.5	
Magnesium	MG/K	34200	100%	21700	2	38	38	8890		12000		15100		11700		12200	J
Manganese	MG/K	596	100%	1100	0	38	38	432		418		526		418		366	J
Mercury	MG/K	0.5	34%	0.1	4	13	38	0.04	U			0.05	U	0.05	U	0.03	J
Nickel	MG/K	50.9	92%	50	1	35	38	32.1		25.5		37.1		26.7		18.2	J
Potassium	MG/K	2330	100%	2623	0	38	38	1870	J	1500	J	1520	J	1550	J	1650	J
Selenium	MG/K	2.5	18%	2	2	7	38	1	UJ	0.92	UJ	0.98	UJ			0.53	U
Silver	MG/K	0.27	8%	0.8	0	3	38	0.45	U	0.41	U	0.44	U	0.46	U	0.1	U
Sodium	MG/K	252	71%	188	2	27	38	129	U	119	U	127	U	133	U	118	J
Thallium	MG/K	2.2	34%	0.885	7	13	38	1.3	U	1.2	U	1.3	U			0.37	U
Vanadium	MG/K	23.8	100%	150	0	38	38	19.2		15.8		15		13.9		13.5	J
Zinc	MG/K	142	100%	115	1	38	38	62.4		52.6		54.8		61.8		48.7	J



TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID								TP12-25A	TP12-25B	TP12-25C	TP12-26A	TP12-26B
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								123071	123072	123073	123074	123075
SAMPLE DEPTH TO TOP OF SAMPLE								0.5	1	2	0.5	1.3
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.5	1	2	0.5	1.3
SAMPLE DATE								05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98
QC CODE								SA	SA	SA	SA	SA
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE
<b>Volatile Organics</b>												
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	38	11 U	11 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	38	11 U	11 U	11 U	11 U	11 U
1,1,2-Trichloroethane	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethane	UG/K	0	0%	200	0	0	38	11 U	11 U	11 U	11 U	11 U
1,1-Dichloroethane	UG/K	0	0%	400	0	0	38	11 U	11 U	11 U	11 U	11 U
1,2-Dichloroethane	UG/K	0	0%	100	0	0	38	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
1,2-Dichloroethane (total)	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
1,2-Dichloropropane	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Acetone	UG/K	98	39%	200	0	15	38	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
Benzene	UG/K	2	3%	60	0	1	38	11 U	11 U	11 U	11 U	11 U
Bromodichloromethane	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Bromoform	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Carbon disulfide	UG/K	3	5%	2700	0	2	38	11 U	11 U	11 U	11 U	11 U
Carbon tetrachloride	UG/K	0	0%	600	0	0	38	11 U	11 U	11 U	11 U	11 U
Chlorobenzene	UG/K	0	0%	1700	0	0	38	11 U	11 U	11 U	11 U	11 U
Chlorodibromomethane	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Chloroethane	UG/K	0	0%	1900	0	0	38	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
Chloroform	UG/K	0	0%	300	0	0	38	11 U	11 U	11 U	11 U	11 U
Cis-1,3-Dichloropropene	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Ethyl benzene	UG/K	0	0%	5500	0	0	38	11 U	11 U	11 U	11 U	11 U
Methyl bromide	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Methyl butyl ketone	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Methyl chloride	UG/K	0	0%	0	0	0	38	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
Methyl ethyl ketone	UG/K	3	3%	300	0	1	38	11 U	11 U	11 U	11 U	11 U
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	38	11 U	11 U	11 U	11 U	11 U
Methylene chloride	UG/K	2	11%	100	0	4	38	11 U	11 U	11 U	11 U	11 U
Styrene	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Tetrachloroethane	UG/K	0	0%	1400	0	0	38	11 U	11 U	11 U	11 U	11 U
Toluene	UG/K	15	24%	1500	0	9	38	4 J	3 J	5 J	11 U	3 J
Total Xylenes	UG/K	0	0%	1200	0	0	38	11 U	11 U	11 U	11 U	11 U
Trans-1,3-Dichloropropene	UG/K	0	0%	0	0	0	38	11 U	11 U	11 U	11 U	11 U
Trichloroethane	UG/K	0	0%	700	0	0	38	11 U	11 U	11 U	11 U	11 U
Vinyl chloride	UG/K	0	0%	200	0	0	38	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
<b>Semi-Volatile Organics</b>												
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	38	74 UJ	72 UJ	72 UJ	72 UR	73 UR
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	38	74 UJ	72 UJ	72 UJ	72 UR	73 UR
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	38	74 UJ	72 UJ	72 UJ	72 UR	73 UR
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	38	74 UJ	72 UJ	72 UJ	72 UR	73 UR
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%	0	0	0	8					
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	38	180 U	180 UR	180 U	180 U	180 U
2,4,6-Trichlorophenol	UG/K	0	0%	0	0	0	38	74 U	72 UR	72 U	72 U	73 U
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	38	74 U	72 UR	72 U	72 U	73 U
2,4-Dimethylphenol	UG/K	0	0%	0	0	0	38	74 U	72 UR	72 U	72 U	73 U

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12			
LOCATION ID								TP12-25A	TP12-25B	TP12-25C	TP12-26A	TP12-26B			
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL			
SAMPLE ID								123071	123072	123073	123074	123075			
SAMPLE DEPTH TO TOP OF SAMPLE								0.5	1	2	0.5	1.3			
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.5	1	2	0.5	1.3			
SAMPLE DATE								05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98			
QC CODE								SA	SA	SA	SA	SA			
STUDY ID								RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1			
PARAMETER	UNIT	AXIMU	DETECTION	NYSDEC 4046 TAGM	UMBE TAGM ABOVE	NUMBER OF	NUMBER OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	38	180	U	180	UR	180	U	180	U
2,4-Dinitrotoluene	UG/K	0	0%		0	0	38	74	U	72	U	72	U	72	UR
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	38	74	U	72	U	72	U	72	UR
2-Chloronaphthalene	UG/K	0	0%		0	0	38	74	U	72	U	72	U	72	UR
2-Chlorophenol	UG/K	0	0%	800	0	0	38	74	U	72	UR	72	U	72	U
2-Methylnaphthalene	UG/K	0	0%	36400	0	0	38	74	U	72	U	72	U	72	UR
2-Methylphenol	UG/K	0	0%	100	0	0	38	74	U	72	UR	72	U	72	U
2-Nitroaniline	UG/K	0	0%	430	0	0	38	180	U	180	U	180	U	180	UR
2-Nitrophenol	UG/K	0	0%	330	0	0	38	74	UJ	72	UR	72	UJ	72	UJ
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	38	74	U	72	U	72	U	72	UR
3-Nitroaniline	UG/K	0	0%	500	0	0	38	180	U	180	U	180	U	180	UR
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	38	180	U	180	UR	180	U	180	U
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	38	74	U	72	U	72	U	72	UR
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	38	74	U	72	UR	72	U	72	U
4-Chloroaniline	UG/K	0	0%	220	0	0	38	74	UJ	72	UJ	72	UJ	72	UR
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	38	74	U	72	U	72	U	72	UR
4-Methylphenol	UG/K	4.7	3%	900	0	1	38	74	U	72	UR	72	U	72	U
4-Nitroaniline	UG/K	0	0%		0	0	38	180	UJ	180	U	180	U	180	UR
4-Nitrophenol	UG/K	0	0%	100	0	0	38	180	U	180	UR	180	U	180	U
Acenaphthene	UG/K	0	0%	50000	0	0	38	74	U	72	U	72	U	72	UR
Acenaphthylene	UG/K	0	0%	1000	0	0	38	74	U	72	U	72	U	72	UR
Anthracene	UG/K	0	0%	50000	0	0	38	74	U	72	U	72	U	72	UR
Benzo(a)anthracene	UG/K	11	5%	224	0	2	38	74	U	72	U	72	U	72	UR
Benzo(a)pyrene	UG/K	12	5%	61	0	2	38	74	U	72	U	72	U	72	UR
Benzo(b)fluoranthene	UG/K	13	11%	1100	0	4	38	74	U	3.7	J	72	U	72	UR
Benzo(ghi)perylene	UG/K	9.6	5%	5000	0	2	38	74	U	72	U	72	U	72	UR
Benzo(k)fluoranthene	UG/K	10	5%	1100	0	2	38	74	U	72	U	72	U	72	UR
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	38	74	U	72	U	72	U	72	UR
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	38	74	U	72	U	72	U	72	UR
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	30	74	U	72	U	72	U	72	UR
Bis(2-Ethylhexyl)phthalate	UG/K	83	29%	50000	0	11	38	3.9	J	72	UJ	72	UJ	10	R
Butylbenzylphthalate	UG/K	7.2	5%	50000	0	2	38	74	UJ	72	UJ	72	UJ	72	UR
Carbazole	UG/K	0	0%		0	0	38	74	UJ	72	UJ	72	UJ	72	UR
Chrysene	UG/K	15	18%	400	0	7	38	4.8	J	72	U	72	U	72	UR
Di-n-butylphthalate	UG/K	53	13%	8100	0	5	38	74	UJ	72	U	72	U	72	UR
Di-n-octylphthalate	UG/K	34	21%	50000	0	8	38	74	UJ	72	UJ	72	UJ	72	UR
Dibenz(a,h)anthracene	UG/K	4.8	3%	14	0	1	38	74	U	72	U	72	U	72	UR
Dibenzofuran	UG/K	0	0%	6200	0	0	38	74	U	72	U	72	U	72	UR
Diethyl phthalate	UG/K	5.8	3%	7100	0	1	38	74	U	72	U	72	U	72	UJ
Dimethylphthalate	UG/K	0	0%	2000	0	0	38	74	U	72	U	72	U	72	UR
Fluoranthene	UG/K	18	11%	50000	0	4	38	74	U	72	U	72	U	72	UR
Fluorene	UG/K	0	0%	50000	0	0	38	74	U	72	U	72	U	72	UR
Hexachlorobenzene	UG/K	0	0%	410	0	0	38	74	U	72	U	72	U	72	UR
Hexachlorobutadiene	UG/K	0	0%		0	0	38	74	UJ	72	UJ	72	UJ	72	UR



TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12					
LOCATION ID								TP12-25A	TP12-25B	TP12-25C	TP12-26A	TP12-26B					
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL					
SAMPLE ID								123071	123072	123073	123074	123075					
SAMPLE DEPTH TO TOP OF SAMPLE								0.5	1	2	0.5	1.3					
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.5	1	2	0.5	1.3					
SAMPLE DATE								05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98					
QC CODE								SA	SA	SA	SA	SA					
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1					
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	38	74 U		72 U		72 U		72 UR		73 UR	
Hexachloroethane	UG/K	0	0%		0	0	38	74 UJ		72 UJ		72 UJ		72 UR		73 UR	
Indeno(1,2,3-cd)pyrene	UG/K	7.3	5%	3200	0	2	38	74 U		72 U		72 U		72 UR		73 UR	
Isophorone	UG/K	0	0%	4400	0	0	38	74 U		72 U		72 U		72 UR		73 UR	
N-Nitrosodiphenylamine	UG/K	0	0%		0	0	38	74 U		72 U		72 U		72 UR		73 UR	
N-Nitrosodipropylamine	UG/K	0	0%		0	0	38	74 U		72 U		72 U		72 UR		73 UR	
Naphthalene	UG/K	0	0%	13000	0	0	38	74 U		72 U		72 U		72 UR		73 UR	
Nitrobenzene	UG/K	0	0%	200	0	0	38	74 U		72 U		72 U		72 UR		73 UR	
Pentachlorophenol	UG/K	0	0%	1000	0	0	38	180 U		180 UR		180 U		180 UR		180 U	
Phenanthrene	UG/K	13	16%	50000	0	6	38	74 U		72 U		72 U		72 UR		73 UR	
Phenol	UG/K	0	0%	30	0	0	38	74 U		72 UR		72 U		72 UR		73 UR	
Pyrene	UG/K	20	13%	50000	0	5	38	74 U		72 U		72 U		72 UR		73 UR	
<b>Pesticides/ PCBs</b>																	
4,4'-DDD	UG/K	0	0%	2900	0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
4,4'-DDE	UG/K	0	0%	2100	0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
4,4'-DDT	UG/K	0	0%	2100	0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
Aldrin	UG/K	0	0%	41	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Alpha-BHC	UG/K	0	0%	110	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Alpha-Chlordane	UG/K	0	0%		0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Aroclor-1016	UG/K	0	0%		0	0	38	37 U		36 U		36 U		36 U		37 U	
Aroclor-1221	UG/K	0	0%		0	0	38	75 U		74 U		74 U		74 U		74 U	
Aroclor-1232	UG/K	0	0%		0	0	38	37 U		36 U		36 U		36 U		37 U	
Aroclor-1242	UG/K	16	3%		0	1	38	37 U		36 U		36 U		36 U		37 U	
Aroclor-1248	UG/K	0	0%		0	0	38	37 U		36 U		36 U		36 U		37 U	
Aroclor-1254	UG/K	0	0%	10000	0	0	38	37 U		36 U		36 U		36 U		37 U	
Aroclor-1260	UG/K	0	0%	10000	0	0	38	37 U		36 U		36 U		36 U		37 U	
Beta-BHC	UG/K	0	0%	200	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Delta-BHC	UG/K	0	0%	300	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Dieldrin	UG/K	0	0%	44	0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
Endosulfan I	UG/K	0	0%	900	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Endosulfan II	UG/K	0	0%	900	0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
Endosulfan sulfate	UG/K	0	0%	1000	0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
Endrin	UG/K	0	0%	100	0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
Endrin aldehyde	UG/K	0	0%		0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
Endrin ketone	UG/K	0	0%		0	0	38	3.7 U		3.6 U		3.6 U		3.6 U		3.7 U	
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Gamma-Chlordane	UG/K	0	0%	540	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Heptachlor	UG/K	0	0%	100	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Heptachlor epoxide	UG/K	0	0%	20	0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Methoxychlor	UG/K	0	0%		0	0	38	1.9 U		1.9 U		1.9 U		1.9 U		1.9 U	
Toxaphene	UG/K	0	0%		0	0	38	190 U		190 U		190 U		190 U		190 U	
<b>Metals</b>																	
Aluminum	MG/K	14500	100%	19520	0	38	38	9330		7910		6790		7030		6970	
Antimony	MG/K	0.67	3%	6	0	1	38	1.2 UR		1.3 UR		1 UR		1.3 UR		1.2 UR	

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOCATION ID								TP12-25A	TP12-25B	TP12-25C	TP12-26A	TP12-26B
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								123071	123072	123073	123074	123075
SAMPLE DEPTH TO TOP OF SAMPLE								0.5	1	2	0.5	1.3
SAMPLE DEPTH TO BOTTOM OF SAMPLE								0.5	1	2	0.5	1.3
SAMPLE DATE								05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98	05-Oct-98
QC CODE								SA	SA	SA	SA	SA
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1	RI PHASE 1 STEP 1
			OF	TAGM	ABOVE	OF	OF					
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE	(Q) VALUE
Arsenic	MG/K	8.1	100%	8.9	0	38	38	4.1		4.6	4	3.8
Barium	MG/K	138	100%	300	0	38	38	64.7		63.7	63	58.8
Beryllium	MG/K	0.62	100%	1.13	0	38	38	0.34 J		0.3 J	0.36 J	0.21 J
Cadmium	MG/K	0.52	21%	2.46	0	8	38	0.06 U		0.06 U	0.05 U	0.08 U
Calcium	MG/K	132000	100%	125300	1	38	38	46100		84900	117000	81600
Chromium	MG/K	20.8	100%	30	0	38	38	13.5		12.9	10.9	10.7
Cobalt	MG/K	14.5	100%	30	0	38	38	7.3 J		8.3 J	5.3 J	6.2 J
Copper	MG/K	41.1	100%	33	4	38	38	20.4		21.1		16.6
Cyanide	MG/K	0	0%	0.35	0	0	38	0.57 U		0.56 U	0.56 U	0.54 UJ
Iron	MG/K	41100	100%	37410	1	38	38	16600		17200	13300 J	13000
Lead	MG/K	16.4	100%	24.4	0	38	38	7		8.3	8.1	6.3
Magnesium	MG/K	34200	100%	21700	2	38	38	7660 J		15900 J	6550 J	17300 J
Manganese	MG/K	596	100%	1100	0	38	38	372		373	319	352
Mercury	MG/K	0.5	34%	0.1	4	13	38	0.05 U		0.05 U	0.08 U	0.05 U
Nickel	MG/K	50.9	92%	50	1	35	38	20.7		25.7		16.4
Potassium	MG/K	2330	100%	2623	0	38	38	1060		1010 J	983	1120
Selenium	MG/K	2.5	18%	2	2	7	38	0.92 U		0.99 U	0.79 U	0.98 U
Silver	MG/K	0.27	8%	0.8	0	3	38	0.24 U		0.28 U	0.21 U	0.27 J
Sodium	MG/K	252	71%	188	2	27	38	65.4 J		54.3 U	108 J	61.3 J
Thallium	MG/K	2.2	34%	0.855	7	13	38	1		1.1 U	0.89 U	1.1 U
Vanadium	MG/K	23.8	100%	150	0	38	38	15.1		13.8	13.4	12.5
Zinc	MG/K	142	100%	115	1	38	38	42.5		44.1	41.1	36.1

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12			
LOCATION ID								TP12-26C	TP12B-1	TP12B-2	TP12B-3	TP12B-3			
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL			
SAMPLE ID								123076	TP12B-1-1	TP12B-2-1	TP12B-53-1	TP12B-3-1			
SAMPLE DEPTH TO TOP OF SAMPLE								3	4	2.5	2.5	2.5			
SAMPLE DEPTH TO BOTTOM OF SAMPLE								3	4	2.5	2.5	2.5			
SAMPLE DATE								05-Oct-98	25-Jun-94	24-Jun-94	25-Jun-94	25-Jun-94			
QC CODE								SA	SA	SA	DU	SA			
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	RI PHASE 1 STEP	ESI	ESI	ESI	ESI			
PARAMETER	UNIT	AXIMU	OF	TAGM	ABOVE	OF	OF	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
DETECTION	4046	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	
<b>Volatile Organics</b>															
1,1,1-Trichloroethane	UG/K	0	0%	800	0	0	38	11 U	11 U	12 U	11 U	11 U			
1,1,2,2-Tetrachloroethane	UG/K	0	0%	600	0	0	38	11 U	11 U	12 U	11 U	11 U			
1,1,2-Trichloroethane	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
1,1-Dichloroethane	UG/K	0	0%	200	0	0	38	11 U	11 U	12 U	11 U	11 U			
1,1-Dichloroethene	UG/K	0	0%	400	0	0	38	11 U	11 U	12 U	11 U	11 U			
1,2-Dichloroethane	UG/K	0	0%	100	0	0	38	11 UJ	11 U	12 U	11 U	11 U			
1,2-Dichloroethene (total)	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
1,2-Dichloropropane	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Acetone	UG/K	98	39%	200	0	15	38	11 UJ	11 U	12 U	11 U	11 U			
Benzene	UG/K	2	3%	60	0	1	38	11 U	11 U	12 U	11 U	11 U			
Bromodichloromethane	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Bromoform	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Carbon disulfide	UG/K	3	5%	2700	0	2	38	11 U	11 U	12 U	11 U	11 U			
Carbon tetrachloride	UG/K	0	0%	600	0	0	38	11 U	11 U	12 U	11 U	11 U			
Chlorobenzene	UG/K	0	0%	1700	0	0	38	11 U	11 U	12 U	11 U	11 U			
Chlorodibromomethane	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Chloroethane	UG/K	0	0%	1900	0	0	38	11 UJ	11 U	12 U	11 U	11 U			
Chloroform	UG/K	0	0%	300	0	0	38	11 U	11 U	12 U	11 U	11 U			
Cis-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Ethyl benzene	UG/K	0	0%	5500	0	0	38	11 U	11 U	12 U	11 U	11 U			
Methyl bromide	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Methyl butyl ketone	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Methyl chloride	UG/K	0	0%		0	0	38	11 UJ	11 U	12 U	11 U	11 U			
Methyl ethyl ketone	UG/K	3	3%	300	0	1	38	11 U	11 U	12 U	11 U	11 U			
Methyl isobutyl ketone	UG/K	0	0%	1000	0	0	38	11 U	11 U	12 U	11 U	11 U			
Methylene chloride	UG/K	2	11%	100	0	4	38	11 U	1 J	12 U	11 U	11 U			
Styrene	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Tetrachloroethene	UG/K	0	0%	1400	0	0	38	11 U	11 U	12 U	11 U	11 U			
Toluene	UG/K	15	24%	1500	0	9	38	11 U	11 U	12 U	11 U	11 U			
Total Xylenes	UG/K	0	0%	1200	0	0	38	11 U	11 U	12 U	11 U	11 U			
Trans-1,3-Dichloropropene	UG/K	0	0%		0	0	38	11 U	11 U	12 U	11 U	11 U			
Trichloroethene	UG/K	0	0%	700	0	0	38	11 U	11 U	12 U	11 U	11 U			
Vinyl chloride	UG/K	0	0%	200	0	0	38	11 UJ	11 U	12 U	11 U	11 U			
<b>Semi-Volatile Organics</b>															
1,2,4-Trichlorobenzene	UG/K	0	0%	3400	0	0	38	72 U	360 U	380 U	370 U	370 U			
1,2-Dichlorobenzene	UG/K	0	0%	7900	0	0	38	72 UJ	360 U	380 U	370 U	370 U			
1,3-Dichlorobenzene	UG/K	0	0%	1600	0	0	38	72 UJ	360 U	380 U	370 U	370 U			
1,4-Dichlorobenzene	UG/K	0	0%	8500	0	0	38	72 UJ	360 U	380 U	370 U	370 U			
2,2'-oxybis(1-Chloropropane)	UG/K	0	0%		0	0	8		360 U	380 U	370 U	370 U			
2,4,5-Trichlorophenol	UG/K	0	0%	100	0	0	38	170 U	880 U	930 U	900 U	900 U			
2,4,6-Trichlorophenol	UG/K	0	0%		0	0	38	72 U	360 U	380 U	370 U	370 U			
2,4-Dichlorophenol	UG/K	0	0%	400	0	0	38	72 U	360 U	380 U	370 U	370 U			
2,4-Dimethylphenol	UG/K	0	0%		0	0	38	72 U	360 U	380 U	370 U	370 U			

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOCATION ID									TP12-26C	TP12B-1	TP12B-2	TP12B-3	TP12B-3				
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID									123078	TP12B-1-1	TP12B-2-1	TP12B-53-1	TP12B-3-1				
SAMPLE DEPTH TO TOP OF SAMPLE									3	4	2.5	2.5	2.5				
SAMPLE DEPTH TO BOTTOM OF SAMPLE									3	4	2.5	2.5	2.5				
SAMPLE DATE									05-Oct-98	25-Jun-94	24-Jun-94	25-Jun-94	25-Jun-94				
QC CODE									SA	SA	SA	DU	SA				
STUDY ID			FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER	NUMBER	RI PHASE 1 STEP 1	ESI	ESI	ESI	ESI				
			OF	TAGM	ABOVE	OF	OF										
PARAMETER	UNIT	AXIMU	DETECTION	4048	TAGM	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
2,4-Dinitrophenol	UG/K	0	0%	200	0	0	38	170	U	880	U	930	U	900	U	900	U
2,4-Dinitrotoluene	UG/K	0	0%		0	0	38	72	U	360	U	380	U	370	U	370	U
2,6-Dinitrotoluene	UG/K	0	0%	1000	0	0	38	72	U	360	U	380	U	370	U	370	U
2-Chloronaphthalene	UG/K	0	0%		0	0	38	72	U	360	U	380	U	370	U	370	U
2-Chlorophenol	UG/K	0	0%	800	0	0	38	72	U	360	U	380	U	370	U	370	U
2-Methylnaphthalene	UG/K	0	0%	36400	0	0	38	72	U	360	U	380	U	370	U	370	U
2-Methylphenol	UG/K	0	0%	100	0	0	38	72	U	360	U	380	U	370	U	370	U
2-Nitroaniline	UG/K	0	0%	430	0	0	38	170	U	880	U	930	U	900	U	900	U
2-Nitrophenol	UG/K	0	0%	330	0	0	38	72	UJ	360	U	380	U	370	U	370	U
3,3'-Dichlorobenzidine	UG/K	0	0%		0	0	38	72	U	360	U	380	U	370	U	370	U
3-Nitroaniline	UG/K	0	0%	500	0	0	38	170	UJ	880	U	930	U	900	U	900	U
4,6-Dinitro-2-methylphenol	UG/K	0	0%		0	0	38	170	U	880	U	930	U	900	U	900	U
4-Bromophenyl phenyl ether	UG/K	0	0%		0	0	38	72	U	360	U	380	U	370	U	370	U
4-Chloro-3-methylphenol	UG/K	0	0%	240	0	0	38	72	U	360	U	380	U	370	U	370	U
4-Chloroaniline	UG/K	0	0%	220	0	0	38	72	UJ	360	U	380	U	370	U	370	U
4-Chlorophenyl phenyl ether	UG/K	0	0%		0	0	38	72	U	360	U	380	U	370	U	370	U
4-Methylphenol	UG/K	4.7	3%	900	0	1	38	72	U	360	U	380	U	370	U	370	U
4-Nitroaniline	UG/K	0	0%		0	0	38	170	U	880	U	930	U	900	U	900	U
4-Nitrophenol	UG/K	0	0%	100	0	0	38	170	U	880	U	930	U	900	U	900	U
Acanaphthene	UG/K	0	0%	50000	0	0	38	72	U	360	U	380	U	370	U	370	U
Acanaphthylene	UG/K	0	0%	41000	0	0	38	72	U	360	U	380	U	370	U	370	U
Anthracene	UG/K	0	0%	50000	0	0	38	72	U	360	U	380	U	370	U	370	U
Benzo(a)anthracene	UG/K	11	5%	224	0	2	38	72	U	360	U	380	U	370	U	370	U
Benzo(a)pyrene	UG/K	12	5%	61	0	2	38	72	U	360	U	380	U	370	U	370	U
Benzo(b)fluoranthene	UG/K	13	11%	1100	0	4	38	72	U	360	U	380	U	370	U	370	U
Benzo(ghi)perylene	UG/K	9.6	5%	50000	0	2	38	72	U	360	U	380	U	370	U	370	U
Benzo(k)fluoranthene	UG/K	10	5%	1100	0	2	38	72	U	360	U	380	U	370	U	370	U
Bis(2-Chloroethoxy)methane	UG/K	0	0%		0	0	38	72	U	360	U	380	U	370	U	370	U
Bis(2-Chloroethyl)ether	UG/K	0	0%		0	0	38	72	U	360	U	380	U	370	U	370	U
Bis(2-Chloroisopropyl)ether	UG/K	0	0%		0	0	30	72	U								
Bis(2-Ethylhexyl)phthalate	UG/K	83	29%	50000	0	11	38	72	UJ	360	U	380	U	370	U	370	U
Butylbenzylphthalate	UG/K	7.2	5%	50000	0	2	38	72	UJ	360	U	380	U	370	U	370	U
Carbazole	UG/K	0	0%		0	0	38	72	UJ	360	U	380	U	370	U	370	U
Chrysene	UG/K	15	18%	400	0	7	38	72	U	360	U	380	U	370	U	370	U
Di-n-butylphthalate	UG/K	53	13%	8100	0	5	38	72	UJ	44	J	380	U	53	J	370	U
Di-n-octylphthalate	UG/K	34	21%	50000	0	8	38	72	UJ	360	U	380	U	370	U	370	U
Dibenz(a,h)anthracene	UG/K	4.8	3%	14	0	1	38	72	U	360	U	380	U	370	U	370	U
Dibenzofuran	UG/K	0	0%	6200	0	0	38	72	U	360	U	380	U	370	U	370	U
Diethyl phthalate	UG/K	5.8	3%	7100	0	1	38	72	U	360	U	380	U	370	U	370	U
Dimethylphthalate	UG/K	0	0%	2000	0	0	38	72	U	360	U	380	U	370	U	370	U
Fluoranthene	UG/K	18	11%	50000	0	4	38	72	U	360	U	380	U	370	U	370	U
Fluorene	UG/K	0	0%	50000	0	0	38	72	U	360	U	380	U	370	U	370	U
Hexachlorobenzene	UG/K	0	0%	410	0	0	38	72	U	360	U	380	U	370	U	370	U
Hexachlorobutadiene	UG/K	0	0%		0	0	38	72	UJ	360	U	380	U	370	U	370	U

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY										SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12								
LOCATION ID										TP12-26C	TP12B-1	TP12B-2	TP12B-3	TP12B-3								
MATRIX										SOIL	SOIL	SOIL	SOIL	SOIL								
SAMPLE ID										123076	TP12B-1-1	TP12B-2-1	TP12B-53-1	TP12B-3-1								
SAMPLE DEPTH TO TOP OF SAMPLE										3	4	2.5	2.5	2.5								
SAMPLE DEPTH TO BOTTOM OF SAMPLE										3	4	2.5	2.5	2.5								
SAMPLE DATE										05-Oct-98	25-Jun-94	24-Jun-94	25-Jun-94	25-Jun-94								
QC CODE										SA	SA	SA	DU	SA								
STUDY ID										FREQUENC	NYSDEC	UMBE	NUMBER	NUMBER								
										OF	TAGM	ABOVE	OF	OF								
										4046	TAGM	DETECT	ANALYSE	VALUE								
PARAMETER										UNIT	AXIMU	DETECTION			VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Hexachlorocyclopentadiene	UG/K	0	0%		0	0	38	72	U	360	U	360	U	370	U	370	U	370	U			
Hexachloroethane	UG/K	0	0%		0	0	38	72	UJ	360	U	360	U	370	U	370	U	370	U			
Indeno(1,2,3-cd)pyrene	UG/K	7.3	5%	3200	0	2	38	72	U	360	U	360	U	370	U	370	U	370	U			
Isophorone	UG/K	0	0%	4400	0	0	38	72	U	360	U	360	U	370	U	370	U	370	U			
N-Nitrosodiphenylamine	UG/K	0	0%		0	0	38	72	U	360	U	360	U	370	U	370	U	370	U			
N-Nitrosodipropylamine	UG/K	0	0%		0	0	38	72	U	360	U	360	U	370	U	370	U	370	U			
Naphthalene	UG/K	0	0%	13000	0	0	38	72	U	360	U	360	U	370	U	370	U	370	U			
Nitrobenzene	UG/K	0	0%	200	0	0	38	72	U	360	U	360	U	370	U	370	U	370	U			
Pentachlorophenol	UG/K	0	0%	1000	0	0	38	170	U	880	U	930	U	900	U	900	U	900	U			
Phenanthrene	UG/K	13	16%	50000	0	6	38	72	U	360	U	360	U	370	U	370	U	370	U			
Phenol	UG/K	0	0%	30	0	0	38	72	U	360	U	360	U	370	U	370	U	370	U			
Pyrene	UG/K	20	13%	50000	0	5	38	72	U	360	U	360	U	370	U	370	U	370	U			
<b>Pesticides/ PCBs</b>																						
4,4'-DDD	UG/K	0	0%	2900	0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
4,4'-DDE	UG/K	0	0%	2100	0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
4,4'-DDT	UG/K	0	0%	2100	0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
Aldrin	UG/K	0	0%	41	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Alpha-BHC	UG/K	0	0%	110	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Alpha-Chlordane	UG/K	0	0%		0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Aroclor-1016	UG/K	0	0%		0	0	38	36	U	36	UJ	38	U	37	U	37	U	37	U			
Aroclor-1221	UG/K	0	0%		0	0	38	73	U	74	UJ	78	U	75	U	75	U	75	U			
Aroclor-1232	UG/K	0	0%		0	0	38	36	U	36	UJ	38	U	37	U	37	U	37	U			
Aroclor-1242	UG/K	16	3%		0	1	38	36	U	36	UJ	38	U	37	U	37	U	37	U			
Aroclor-1248	UG/K	0	0%		0	0	38	36	U	36	UJ	38	U	37	U	37	U	37	U			
Aroclor-1254	UG/K	0	0%	10000	0	0	38	36	U	36	UJ	38	U	37	U	37	U	37	U			
Aroclor-1260	UG/K	0	0%	10000	0	0	38	36	U	36	UJ	38	U	37	U	37	U	37	U			
Beta-BHC	UG/K	0	0%	200	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Delta-BHC	UG/K	0	0%	300	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Dieldrin	UG/K	0	0%	44	0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
Endosulfan I	UG/K	0	0%	900	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Endosulfan II	UG/K	0	0%	900	0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
Endosulfan sulfate	UG/K	0	0%	1000	0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
Endrin	UG/K	0	0%	100	0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
Endrin aldehyde	UG/K	0	0%		0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
Endrin ketone	UG/K	0	0%		0	0	38	3.6	U	3.6	UJ	3.8	U	3.7	U	3.7	U	3.7	U			
Gamma-BHC/Lindane	UG/K	0	0%	60	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Gamma-Chlordane	UG/K	0	0%	540	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Heptachlor	UG/K	0	0%	100	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Heptachlor epoxide	UG/K	0	0%	20	0	0	38	1.8	U	1.9	UJ	2	U	1.9	U	1.9	U	1.9	U			
Methoxychlor	UG/K	0	0%		0	0	38	18	U	19	UJ	20	U	19	U	19	U	19	U			
Toxaphene	UG/K	0	0%		0	0	38	180	U	190	UJ	200	U	190	U	190	U	190	U			
<b>Metals</b>																						
Aluminum	MG/K	14500	100%	19520	0	38	38	8350		7400		10300		6120		6850						
Antimony	MG/K	0.67	3%	6	0	1	38	1.2	UR	0.23	UJ	0.24	UJ	0.22	UJ	0.26	UJ					

TABLE G-11  
 FORMER DRY WASTE DISPOSAL PIT - CHEMICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	SAMPLE DEPTH TO TOP OF SAMPLE	SAMPLE DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENC OF	NYSDEC TAGM	UMBE ABOVE	NUMBER OF DETECT	NUMBER OF ANALYSE	RI PHASE 1 STEP 1	SEAD-12 TP12-26C	SEAD-12 TP12B-1	SEAD-12 TP12B-2	SEAD-12 TP12B-3	SEAD-12 TP12B-3	
PARAMETER	UNIT	AXIMU	DETECTION	4046	TAGM	ABOVE	DETECT	ANALYSE	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)	VALUE	(Q)
Arsenic	MG/K	8.1	100%	8.9	0	38	38	4.1	4.4	J	4.6	J	2.8	J	3.3	J				
Barium	MG/K	138	100%	300	0	38	38	64.4	78.3		90.5		32.5	J	36.5	J				
Beryllium	MG/K	0.62	100%	1.13	0	38	38	0.32	0.37	J	0.52	J	0.24	J	0.26	J				
Cadmium	MG/K	0.52	21%	2.46	0	8	38	0.06	0.36	J	0.43	J	0.17	J	0.18	J				
Calcium	MG/K	132000	100%	125300	1	38	38	89400	85300		76400		45500		44100					
Chromium	MG/K	20.8	100%	30	0	38	38	14.1	11.4		15.9		8		9.1					
Cobalt	MG/K	14.5	100%	30	0	38	38	8.2	7.6	J	9.7		4.3	J	4.2	J				
Copper	MG/K	41.1	100%	33	4	38	38	20.3	22.1		21.9		12.9		13.8					
Cyanide	MG/K	0	0%	0.35	0	0	38	0.56	0.53	UJ	0.53	UJ	0.54	UJ	0.54	UJ				
Iron	MG/K	41100	100%	37410	1	38	38	18500	15600		20100		11000		11700					
Lead	MG/K	16.4	100%	24.4	0	38	38	8.3	7.9		10.6		4.3		4.8					
Magnesium	MG/K	34200	100%	21700	2	38	38	13200			16900		18300		15800					
Manganese	MG/K	596	100%	1100	0	38	38	384	340		383		337		316					
Mercury	MG/K	0.5	34%	0.1	4	13	38	0.05	0.03	J	0.02	J	0.03	J	0.03	J				
Nickel	MG/K	50.9	92%	50	1	35	38	26	19.9		29		8.7		9.2					
Potassium	MG/K	2330	100%	2623	0	38	38	1250	1940	J	2330	J	1840	J	2150	J				
Selenium	MG/K	2.5	18%	2	2	7	38	0.89	0.48	U	0.5	U	0.45	U	0.54	U				
Silver	MG/K	0.27	8%	0.8	0	3	38	0.24	0.09	U	0.09	U	0.08	U	0.1	U				
Sodium	MG/K	252	71%	188	2	27	38	121		J		J	144	J	157	J				
Thallium	MG/K	2.2	34%	0.855	7	13	38	1	0.39	J	0.79	J	0.32	U	0.46	J				
Vanadium	MG/K	23.8	100%	150	0	38	38	14.5	14.8		18.5		13.5		15.4					
Zinc	MG/K	142	100%	115	1	38	38	47.5	40.7	J	51.7	J	26	J	28.9	J				





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TABLE G-12  
EM-5 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-22 SOIL 123068		SEAD-12 MW12-23 SOIL 123079		SEAD-12 SS12-109 SOIL 123303		SEAD-12 SS12-114 SOIL 123308		SEAD-12 SS12-115 SOIL 123309	
								10/4/1998 SA	RI Phase 1 Step 1	10/5/1998 SA	RI Phase 1 Step 1	17-Nov-98 SA	RI Phase 1 Step 1	17-Nov-98 SA	RI Phase 1 Step 1	17-Nov-98 SA	RI Phase 1 Step 1
<b>PARAMETER</b>	<b>UNIT</b>	<b>MAXIMU</b>	<b>FREQUENCY OF DETECTION</b>	<b>NYSDEC TAGM 4046</b>	<b>NUMBER ABOVE TAGM</b>	<b>NUMBER OF DETECTS</b>	<b>NUMBER OF ANALYSES</b>										
<b>VOLATILE ORGANICS</b>																	
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	5	11 U		12 U		15 U		12 U		12 U	
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	5	11 U		12 U		15 U		12 U		12 U	
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	5	11 U		12 U		15 U		12 U		12 U	
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	5	11 U		12 U		15 U		12 U		12 U	
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	5	11 UJ		12 U		15 U		12 U		12 U	
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
1,2-Dichloropropane	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Acetone	UG/KG	5	20%	200	0	1	5	11 UJ		5 J		15 U		12 U		12 U	
Benzene	UG/KG	0	0%	60	0	0	5	11 U		12 U		15 U		12 U		12 U	
Bromodichloromethane	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Bromoform	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Carbon disulfide	UG/KG	0	0%	2700	0	0	5	11 U		12 U		15 U		12 U		12 U	
Carbon tetrachloride	UG/KG	0	0%	600	0	0	5	11 U		12 U		15 U		12 U		12 U	
Chlorobenzene	UG/KG	0	0%	1700	0	0	5	11 U		12 U		15 U		12 U		12 U	
Chlorodibromomethane	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Chloroethane	UG/KG	0	0%	1900	0	0	5	11 UJ		12 U		15 U		12 U		12 U	
Chloroform	UG/KG	0	0%	300	0	0	5	11 U		12 U		15 U		12 U		12 U	
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Ethyl benzene	UG/KG	0	0%	5500	0	0	5	11 U		12 U		15 U		12 U		12 U	
Methyl bromide	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Methyl butyl ketone	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Methyl chloride	UG/KG	0	0%		0	0	5	11 UJ		12 U		15 U		12 U		12 U	
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	5	11 U		12 U		15 U		12 U		12 U	
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	5	11 U		12 U		15 U		12 U		12 U	
Methylene chloride	UG/KG	0	0%	100	0	0	5	11 U		12 U		15 U		12 U		12 U	
Styrene	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Tetrachloroethene	UG/KG	0	0%	1400	0	0	5	11 U		12 U		15 U		12 U		12 U	
Toluene	UG/KG	3	20%	1500	0	1	5	3 J		12 U		15 U		12 U		12 U	
Total Xylenes	UG/KG	0	0%	1200	0	0	5	11 U		12 U		15 U		12 U		12 U	
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	5	11 U		12 U		15 U		12 U		12 U	
Trichloroethene	UG/KG	0	0%	700	0	0	5	11 U		12 U		15 U		12 U		12 U	
Vinyl chloride	UG/KG	0	0%	200	0	0	5	11 UJ		12 U		15 U		12 U		12 U	
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	5	80 UJ		77 U		97 U		80 U		160 U	

TABLE G-12  
EM-5 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-22 SOIL 123068 0 0.2 10/4/1998 SA		SEAD-12 MW12-23 SOIL 123079 0 2 10/5/1998 SA		SEAD-12 SS12-109 SOIL 123303 0 0.2 17-Nov-98 SA		SEAD-12 SS12-114 SOIL 123308 0 0.2 17-Nov-98 SA		SEAD-12 SS12-115 SOIL 123309 0 0.2 17-Nov-98 SA	
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	5	80 UJ		77 UJ		97 U		80 U		160 U	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	5	80 UJ		77 UJ		97 U		80 U		160 U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	5	80 UJ		77 UJ		97 U		80 U		160 U	
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	5	200 U		190 U		240 U		190 U		390 U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	5	80 U		77 U		97 U		80 U		160 U	
2,4-Dimethylphenol	UG/KG	0	0%		0	0	5	80 U		77 U		97 UJ		80 UJ		160 UJ	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	5	200 U		190 U		240 U		190 U		390 R	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	5	80 U		77 U		97 U		80 U		160 U	
2-Chloronaphthalene	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	5	80 U		77 U		97 U		80 U		160 U	
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	5	80 U		77 U		97 U		80 U		160 U	
2-Methylphenol	UG/KG	0	0%	100	0	0	5	80 U		77 U		97 UJ		80 U		160 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	5	200 U		190 U		240 UJ		190 UJ		390 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	5	80 UJ		77 UJ		97 UJ		80 UJ		160 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 UJ		160 UJ	
3-Nitroaniline	UG/KG	0	0%	500	0	0	5	200 U		190 U		240 U		190 U		390 U	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	5	200 U		190 U		240 U		190 U		390 UJ	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	5	80 U		77 U		97 U		80 U		160 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	5	80 UJ		77 UJ		97 UJ		80 UJ		160 UJ	
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
4-Methylphenol	UG/KG	0	0%	900	0	0	5	80 U		77 U		97 U		80 U		160 U	
4-Nitroaniline	UG/KG	0	0%		0	0	5	200 U		190 UJ		240 UJ		190 UJ		390 U	
4-Nitrophenol	UG/KG	0	0%	100	0	0	5	200 U		190 U		240 U		190 U		390 U	
Acenaphthene	UG/KG	0	0%	50000	0	0	5	80 U		77 U		97 U		80 U		160 U	
Acenaphthylene	UG/KG	0	0%	41000	0	0	5	80 U		77 U		97 U		80 U		160 U	
Anthracene	UG/KG	0	0%	50000	0	0	5	80 U		77 U		97 U		80 U		160 U	
Benzo(a)anthracene	UG/KG	16	60%	224	0	3	5	10 J		5.2 J		16 J		80 U		160 U	
Benzo(a)pyrene	UG/KG	19	60%	61	0	3	5	11 J		6.1 J		19 J		80 U		160 U	
Benzo(b)fluoranthene	UG/KG	20	60%	1100	0	3	5	17 J		9 J		20 J		80 U		160 U	
Benzo(ghi)perylene	UG/KG	20	40%	50000	0	2	5	9.8 J		77 U		20 J		80 U		160 U	
Benzo(k)fluoranthene	UG/KG	20	60%	1100	0	3	5	13 J		8.4 J		20 J		80 U		160 U	
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 UJ	

TABLE G-12  
EM-5 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-22 SOIL 123068		SEAD-12 MW12-23 SOIL 123079		SEAD-12 SS12-109 SOIL 123303		SEAD-12 SS12-114 SOIL 123308		SEAD-12 SS12-115 SOIL 123309	
								SA	Step 1	SA	Step 1	SA	Step 1	SA	Step 1	SA	Step 1
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
Bis(2-Ethylhexyl)phthalate	UG/KG	900	60%	50000	0	3	5	8.3 J		10 J		97 UJ		80 UJ		900 J	
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	5	80 UJ		77 UJ		97 UJ		80 UJ		160 UJ	
Carbazole	UG/KG	7.6	20%		0	1	5	80 UJ		77 UJ		7.6 J		80 U		160 UJ	
Chrysene	UG/KG	23	60%	400	0	3	5	17 J		9.8 J		23 J		80 UJ		160 UJ	
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	5	80 U		77 UJ		97 U		80 U		160 U	
Di-n-octylphthalate	UG/KG	5.3	20%	50000	0	1	5	80 UJ		5.3 J		97 U		80 U		160 UJ	
Dibenz(a,h)anthracene	UG/KG	6.8	20%	14	0	1	5	80 U		77 U		6.8 J		80 U		160 U	
Dibenzofuran	UG/KG	0	0%	6200	0	0	5	80 U		77 U		97 U		80 U		160 U	
Diethyl phthalate	UG/KG	0	0%	7100	0	0	5	80 U		77 U		97 U		80 U		160 U	
Dimethylphthalate	UG/KG	0	0%	2000	0	0	5	80 U		77 U		97 U		80 U		160 U	
Fluoranthene	UG/KG	36	60%	50000	0	3	5	20 J		13 J		36 J		80 U		160 U	
Fluorene	UG/KG	0	0%	50000	0	0	5	80 U		77 U		97 U		80 U		160 U	
Hexachlorobenzene	UG/KG	0	0%	410	0	0	5	80 U		77 U		97 U		80 U		160 U	
Hexachlorobutadiene	UG/KG	0	0%		0	0	5	80 UJ		77 UJ		97 U		80 U		160 U	
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	5	80 U		77 U		97 UJ		80 UJ		160 UJ	
Hexachloroethane	UG/KG	0	0%		0	0	5	80 UJ		77 UJ		97 U		80 U		160 U	
Indeno(1,2,3-cd)pyrene	UG/KG	16	40%	3200	0	2	5	8.8 J		77 U		16 J		80 U		160 U	
Isophorone	UG/KG	0	0%	4400	0	0	5	80 U		77 U		97 U		80 U		160 U	
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	5	80 U		77 U		97 U		80 U		160 U	
Naphthalene	UG/KG	0	0%	13000	0	0	5	80 U		77 U		97 U		80 U		160 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	5	80 U		77 U		97 U		80 U		160 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	5	200 U		190 U		240 R		190 R		390 R	
Phenanthrene	UG/KG	22	60%	50000	0	3	5	14 J		7.9 J		22 J		80 U		160 U	
Phenol	UG/KG	0	0%	30	0	0	5	80 U		77 U		97 U		80 U		160 U	
Pyrene	UG/KG	37	60%	50000	0	3	5	25 J		12 J		37 J		80 U		160 U	
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	0	0%	2900	0	0	5	4 U		3.8 U		4.8 U		4 U		4 U	
4,4'-DDE	UG/KG	0	0%	2100	0	0	5	4 U		3.8 U		4.8 U		4 U		4 U	
4,4'-DDT	UG/KG	0	0%	2100	0	0	5	4 U		3.8 U		4.8 U		4 U		4 U	
Aldrin	UG/KG	0	0%	41	0	0	5	2.1 U		2 U		2.5 U		2 U		2.1 U	
Alpha-BHC	UG/KG	0	0%	110	0	0	5	2.1 U		2 U		2.5 U		2 U		2.1 U	
Alpha-Chlordane	UG/KG	0	0%		0	0	5	2.1 U		2 U		2.5 U		2 U		2.1 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	5	40 U		38 U		48 U		40 U		40 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	5	82 U		78 U		98 U		81 U		82 U	

TABLE G-12  
EM-5 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-22 SOIL 123068		SEAD-12 MW12-23 SOIL 123079		SEAD-12 SS12-109 SOIL 123303		SEAD-12 SS12-114 SOIL 123308		SEAD-12 SS12-115 SOIL 123309	
								RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1
Aroclor-1232	UG/KG	0	0%	10000	0	0	5	40 U	38 U	48 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	5	40 U	38 U	48 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	5	40 U	38 U	48 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Aroclor-1254	UG/KG	0	0%	10000	0	0	5	40 U	38 U	48 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	5	40 U	38 U	48 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Beta-BHC	UG/KG	0	0%	200	0	0	5	2.1 U	2 U	2.5 U	2 U	2 U	2 U	2.1 U	2.1 U	2.1 U	2.1 U
Delta-BHC	UG/KG	0	0%	300	0	0	5	2.1 U	2 U	2.5 U	2 U	2 U	2 U	2.1 U	2.1 U	2.1 U	2.1 U
Dieldrin	UG/KG	0	0%	44	0	0	5	4 U	3.8 U	4.8 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Endosulfan I	UG/KG	0	0%	900	0	0	5	2.1 U	2 U	2.5 U	2 U	2 U	2 U	2.1 U	2.1 U	2.1 U	2.1 U
Endosulfan II	UG/KG	0	0%	900	0	0	5	4 U	3.8 U	4.8 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	5	4 U	3.8 U	4.8 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Endrin	UG/KG	2.8	20%	100	0	1	5	2.8 J	3.8 U	4.8 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Endrin aldehyde	UG/KG	0	0%	0	0	0	5	4 U	3.8 U	4.8 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Endrin ketone	UG/KG	0	0%	0	0	0	5	4 U	3.8 U	4.8 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	5	2.1 U	2 U	2.5 U	2 U	2 U	2 U	2.1 U	2.1 U	2.1 U	2.1 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	5	2.1 U	2 U	2.5 U	2 U	2 U	2 U	2.1 U	2.1 U	2.1 U	2.1 U
Heptachlor	UG/KG	0	0%	100	0	0	5	2.1 U	2 U	2.5 U	2 U	2 U	2 U	2.1 U	2.1 U	2.1 U	2.1 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	5	2.1 U	2 U	2.5 U	2 U	2 U	2 U	2.1 U	2.1 U	2.1 U	2.1 U
Methoxychlor	UG/KG	0	0%	0	0	0	5	21 U	20 U	25 U	20 U	20 U	20 U	21 U	21 U	21 U	21 U
Toxaphene	UG/KG	0	0%	0	0	0	5	210 U	200 U	250 U	200 U	200 U	200 U	210 U	210 U	210 U	210 U
<b>METALS</b>																	
Aluminum	MG/KG	18100	100%	19520	0	5	5	11100	11900	12300 J	16200 J	18100 J	18100 J	18100 J	18100 J	18100 J	18100 J
Antimony	MG/KG	0	0%	6	0	0	5	1.4 R	1.1 R	1.7 R	1.4 R	1.3 R	1.3 R	1.3 R	1.3 R	1.3 R	1.3 R
Arsenic	MG/KG	4.4	100%	8.9	0	5	5	4.4	4.1	4	4	4.2	4.2	4.2	4.2	4.2	4.2
Barium	MG/KG	150	100%	300	0	5	5	89.7	60.2	150	45.9	45.7	45.7	45.7	45.7	45.7	45.7
Beryllium	MG/KG	0.74	100%	1.13	0	5	5	0.34 J	0.42 J	0.42 J	0.53 J	0.74 J	0.74 J	0.74 J	0.74 J	0.74 J	0.74 J
Cadmium	MG/KG	0	0%	2.46	0	0	5	0.07 U	0.05 U	0.5 U	0.4 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Calcium	MG/KG	14700	100%	125300	0	5	5	3150	2020	14700	1320	981 J	981 J	981 J	981 J	981 J	981 J
Chromium	MG/KG	26.9	100%	30	0	5	5	15.4	17.3	18.2	22.8	26.9	26.9	26.9	26.9	26.9	26.9
Cobalt	MG/KG	15.6	100%	30	0	5	5	9.5 J	8.8 J	8.4 J	9 J	15.6	15.6	15.6	15.6	15.6	15.6
Copper	MG/KG	37.3	100%	33	1	5	5	15.8	17.4	37.3	22.6	29	29	29	29	29	29
Cyanide	MG/KG	0	0%	0.35	0	0	5	0.61 U	0.59 UJ	0.74 U	0.63 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
Iron	MG/KG	37000	100%	37410	0	5	5	18300	19900	21200 J	27900 J	37000 J	37000 J	37000 J	37000 J	37000 J	37000 J
Lead	MG/KG	142	100%	24.4	2	5	5	34	23.8	142 J	17.8 J	22.9 J	22.9 J	22.9 J	22.9 J	22.9 J	22.9 J
Magnesium	MG/KG	5250	100%	21700	0	5	5	2540 J	3220 J	3900	4990	5250	5250	5250	5250	5250	5250
Manganese	MG/KG	835	100%	1100	0	5	5	835	374	499	225	359	359	359	359	359	359







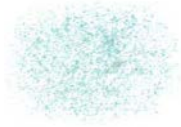






TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-22 SOIL	SEAD-12 MW12-23 SOIL	SEAD-12 TP12-15A SOIL	SEAD-12 TP12-15B SOIL	SEAD-12 TP12-15C SOIL	SEAD-12 TP12-16A SOIL
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	8	72 UJ	72 UJ	88 U	1200 U	78 U	73 U	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	8	72 UJ	72 UJ	88 U	1200 U	78 U	73 U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	8	72 UJ	72 UJ	88 U	1200 U	78 U	73 U	
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	8	170 U	170 U	210 U	2900 U	190 U	180 U	
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 U	1200 U	78 UJ	73 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 UJ	1200 UJ	78 UJ	73 UJ	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	8	170 U	170 U	210 R	2900 U	190 R	180 U	
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 UJ	1200 UJ	78 UJ	73 U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
2-Methylnaphthalene	UG/KG	520	13%	36400	0	1	8	72 U	72 U	88 UJ	520 J	78 UJ	73 U	
2-Methylphenol	UG/KG	0	0%	100	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	8	170 U	170 U	210 U	2900 U	190 U	180 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	8	72 UJ	72 UJ	88 U	1200 U	78 U	73 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
3-Nitroaniline	UG/KG	0	0%	500	0	0	8	170 U	170 U	210 UJ	2900 UJ	190 UJ	180 U	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	8	170 U	170 U	210 UJ	2900 U	190 UJ	180 U	
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	8	72 UJ	72 UJ	88 UJ	1200 UJ	78 UJ	73 UJ	
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
4-Methylphenol	UG/KG	0	0%	900	0	0	8	72 U	72 U	88 U	1200 U	78 UJ	73 U	
4-Nitroaniline	UG/KG	0	0%	0	0	0	8	170 UJ	170 UJ	210 U	2900 U	190 UJ	180 U	
4-Nitrophenol	UG/KG	0	0%	100	0	0	8	170 U	170 U	210 UJ	2900 U	190 UJ	180 U	
Acenaphthene	UG/KG	1300	13%	50000	0	1	8	72 U	72 U	88 U	1300	78 U	73 U	
Acenaphthylene	UG/KG	0	0%	41000	0	0	8	72 U	72 U	88 UJ	1200 UJ	78 UJ	73 U	
Anthracene	UG/KG	2700	13%	50000	0	1	8	72 U	72 U	88 U	2700	78 U	73 U	
Benzo(a)anthracene	UG/KG	3500	63%	224	1	5	8	72 U	72 U	15 J	3500	9.2 J	15 J	
Benzo(a)pyrene	UG/KG	2600	75%	61	1	6	8	72 U	72 U	16 J	2600	11 J	16 J	
Benzo(b)fluoranthene	UG/KG	2200	75%	1100	1	6	8	72 U	72 U	22 J	2200	13 J	20 J	
Benzo(ghi)perylene	UG/KG	1400	63%	50000	0	5	8	72 U	72 U	54 J	1400	9.5 J	16 J	
Benzo(k)fluoranthene	UG/KG	2600	75%	1100	1	6	8	72 U	72 U	18 J	2600	10 J	18 J	
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	8	72 U	72 U	88 U	1200 U	78 U	73 U	

TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-22 SOIL 123069	SEAD-12 MW12-23 SOIL 123080	SEAD-12 TP12-15A SOIL 123031	SEAD-12 TP12-15B SOIL 123032	SEAD-12 TP12-15C SOIL 123033	SEAD-12 TP12-16A SOIL 123044	
PARAMETER	UNIT	MAXIMU	DETECTION	TAGM	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
Bis(2-Ethylhexyl)phthalate	UG/KG	16	75%	50000	0	6	8	16 J					8	72 UJ	5.2 J	1200 U		6 J	1200 U	10 J
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	8	72 UJ					8	72 UJ		88 U	1200 U		78 UJ	73 U
Carbazole	UG/KG	1600	13%		0	1	8	72 UJ					8	72 UJ		88 UJ	1600 J		78 UJ	73 UJ
Chrysene	UG/KG	3000	88%	400	1	7	8	3.7 J					8	72 U	28 J	3000		12 J	22 J	22 J
Di-n-butylphthalate	UG/KG	6.6	50%	8100	0	4	8	72 UJ					8	72 UJ	6.6 J	1200 UJ		4.4 J	4.4 J	4.2 J
Di-n-octylphthalate	UG/KG	11	25%	50000	0	2	8	11 J					8	72 U	4.2 J	88 U	1200 U		78 U	73 U
Dibenz(a,h)anthracene	UG/KG	710	13%	14	1	1	8	72 U					8	72 U		88 U	710 J		78 U	73 U
Dibenzofuran	UG/KG	1000	13%	6200	0	1	8	72 U					8	72 U		88 U	1000 J		78 U	73 U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	8	72 U					8	72 U		88 UJ	1200 UJ		78 UJ	73 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
Fluoranthene	UG/KG	7400	75%	50000	0	6	8	72 U					8	72 U	27 J	7400		17 J	17 J	31 J
Fluorene	UG/KG	1500	13%	50000	0	1	8	72 U					8	72 U		88 U	1500		78 U	73 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	8	72 UJ					8	72 UJ		88 U	1200 U		78 U	73 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	8	72 U					8	72 U		88 U	1200 U		78 UJ	73 U
Hexachloroethane	UG/KG	0	0%		0	0	8	72 UJ					8	72 UJ		88 U	1200 U		78 U	73 U
Indeno(1,2,3-cd)pyrene	UG/KG	1500	63%	3200	0	5	8	72 U					8	72 U	20 J	1500		7.3 J	7.3 J	14 J
Isophorone	UG/KG	0	0%	4400	0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
Naphthalene	UG/KG	860	25%	13000	0	2	8	72 U					8	72 U	4.5 J	860 J		78 U	78 U	73 U
Nitrobenzene	UG/KG	0	0%	200	0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	8	170 U					8	170 U	210 U	2900 U		190 UJ	190 UJ	180 UJ
Phenanthrene	UG/KG	8500	63%	50000	0	5	8	72 U					8	72 U	15 J	8500		12 J	12 J	16 J
Phenol	UG/KG	0	0%	30	0	0	8	72 U					8	72 U		88 U	1200 U		78 U	73 U
Pyrene	UG/KG	5900	75%	50000	0	6	8	72 U					8	72 U	37 J	5900		19 J	19 J	33 J
<b>PESTICIDES/PCBS</b>																				
4,4'-DDD	UG/KG	4	13%	2900	0	1	8	3.6 U					8	3.6 U	4.4 U	4 J		3.8 U	3.8 U	3.7 U
4,4'-DDE	UG/KG	3	13%	2100	0	1	8	3.6 U					8	3.6 U	4.4 U	3 J		3.8 U	3.8 U	3.7 U
4,4'-DDT	UG/KG	4.5	13%	2100	0	1	8	3.6 U					8	3.6 U	4.4 U	4.5 J		3.8 U	3.8 U	3.7 U
Aldrin	UG/KG	0	0%	41	0	0	8	1.8 U					8	1.8 U	2.3 U	2.2 U		2 U	2 U	1.9 U
Alpha-BHC	UG/KG	0	0%	110	0	0	8	1.8 U					8	1.8 U	2.3 U	2.2 U		2 U	2 U	1.9 U
Alpha-Chlordane	UG/KG	0	0%		0	0	8	1.8 U					8	1.8 U	2.3 U	2.2 U		2 U	2 U	1.9 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	8	36 U					8	36 U	44 U	42 U		38 U	38 U	37 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	8	73 U					8	73 U	89 U	86 U		78 U	78 U	74 U

TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-22 SOIL	SEAD-12 MW12-23 SOIL	SEAD-12 TP12-15A SOIL	SEAD-12 TP12-15B SOIL	SEAD-12 TP12-15C SOIL	SEAD-12 TP12-16A SOIL
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Aroclor-1232	UG/KG	0	0%	10000	0	0	8	36 U	36 U	44 U	42 U	38 U	37 U	
Aroclor-1242	UG/KG	0	0%	10000	0	0	8	36 U	36 U	44 U	42 U	38 U	37 U	
Aroclor-1248	UG/KG	0	0%	10000	0	0	8	36 U	36 U	44 U	42 U	38 U	37 U	
Aroclor-1254	UG/KG	0	0%	10000	0	0	8	36 U	36 U	44 U	42 U	38 U	37 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	8	36 U	36 U	44 U	42 U	38 U	37 U	
Beta-BHC	UG/KG	0	0%	200	0	0	8	1.8 U	1.8 U	2.3 U	2.2 U	2 U	1.9 U	
Delta-BHC	UG/KG	0	0%	300	0	0	8	1.8 U	1.8 U	2.3 U	2.2 U	2 U	1.9 U	
Dieldrin	UG/KG	0	0%	44	0	0	8	3.6 U	3.6 U	4.4 U	4.2 U	3.8 U	3.7 U	
Endosulfan I	UG/KG	1.5	13%	900	0	1	8	1.8 U	1.8 U	2.3 U	1.5 J	2 U	1.9 U	
Endosulfan II	UG/KG	0	0%	900	0	0	8	3.6 U	3.6 U	4.4 U	4.2 U	3.8 U	3.7 U	
Endosulfan sulfate	UG/KG	18	13%	1000	0	1	8	3.6 U	3.6 U	4.4 U	18 J	3.8 U	3.7 U	
Endrin	UG/KG	0	0%	100	0	0	8	3.6 U	3.6 U	4.4 U	4.2 U	3.8 U	3.7 U	
Endrin aldehyde	UG/KG	7.5	13%	900	0	1	8	3.6 U	3.6 U	4.4 U	7.5 J	3.8 U	3.7 U	
Endrin ketone	UG/KG	13	13%	900	0	1	8	3.6 U	3.6 U	4.4 U	13	3.8 U	3.7 U	
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	8	1.8 U	1.8 U	2.3 U	2.2 U	2 U	1.9 U	
Gamma-Chlordane	UG/KG	3.8	13%	540	0	1	8	1.8 U	1.8 U	2.3 U	3.8 J	2 U	1.9 U	
Heptachlor	UG/KG	0	0%	100	0	0	8	1.8 U	1.8 U	2.3 U	2.2 U	2 U	1.9 U	
Heptachlor epoxide	UG/KG	0	0%	20	0	0	8	1.8 U	1.8 U	2.3 U	2.2 U	2 U	1.9 U	
Methoxychlor	UG/KG	42	13%	900	0	1	8	18 U	18 U	23 U	42 J	20 U	19 U	
Toxaphene	UG/KG	0	0%	900	0	0	8	180 U	180 U	230 U	220 U	200 U	190 U	
<b>METALS</b>														
Aluminum	MG/KG	15000	100%	19520	0	8	8	14200	13100	13200	12100	14500	15000	
Antimony	MG/KG	0	0%	6	0	0	8	1.3 R	1.2 R	1.4 R	1.5 R	0.96 R	1.1 R	
Arsenic	MG/KG	5	100%	8.9	0	8	8	3.8	4.1	4.8	4.4	5	3.6	
Barium	MG/KG	116	100%	300	0	8	8	54.9	55.7	97.4	115	116	105	
Beryllium	MG/KG	0.6	100%	1.13	0	8	8	0.57 J	0.5 J	0.55 J	0.52 J	0.53 J	0.53 J	
Cadmium	MG/KG	0.12	13%	2.46	0	1	8	0.06 U	0.06 U	0.07 U	0.07 U	0.05 U	0.05 U	
Calcium	MG/KG	28900	100%	125300	0	8	8	28900	15900	8170 J	15400 J	16300 J	13500 J	
Chromium	MG/KG	24.8	100%	30	0	8	8	24.8	23.9	19.7	20.8	21.4	18 J	
Cobalt	MG/KG	15.4	100%	30	0	8	8	13.3	15.4	10.4 J	10.6 J	11.5	10.8	
Copper	MG/KG	73.3	100%	33	5	8	8	33.7	35.4	24.8	32.6	33.5	27.3	
Cyanide	MG/KG	0	0%	0.35	0	0	8	0.53 U	0.58 UJ	0.69 UJ	0.65 UJ	0.6 UJ	0.58 U	
Iron	MG/KG	35800	100%	37410	0	8	8	27600	27300	24300	35800	28400	27400	
Lead	MG/KG	112	100%	24.4	6	8	8	19.7	22.3	56.7	113	63.9	99.3 J	
Magnesium	MG/KG	8210	100%	21700	0	8	8	6910 J	5500 J	4220	4420	8210	4930	
Manganese	MG/KG	723	100%	1100	0	8	8	422	487	463	359	639	479 J	

EM-5 CHEMICAL SUBSURFACE SOIL

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TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID								SEAD-12 MW12-22 SOIL	SEAD-12 MW12-23 SOIL	SEAD-12 TP12-15A SOIL	SEAD-12 TP12-15B SOIL	SEAD-12 TP12-15C SOIL	SEAD-12 TP12-16A SOIL
MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID			123069	123080	123031	123032	123033	123044
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Mercury	MG/KG	1	50%	0.1	3	4	8	0.05 U	0.05 U	0.07 U	1	0.12	0.05 UJ	
Nickel	MG/KG	52	100%	50	1	8	8	48.5	52	26.1	30.7	29.2	27.7 J	
Potassium	MG/KG	2810	100%	2623	3	8	8	1570	1290	2760	2490	2710	2280	
Selenium	MG/KG	1.2	38%	2	0	3	8	0.98 U	0.88 U	1.1 U	1.1 U	1.2	0.43 J	
Silver	MG/KG	0.32	13%	0.8	0	1	8	0.32 J	0.23 U	0.28 U	0.3 U	0.19 U	0.21 U	
Sodium	MG/KG	102	50%	188	0	4	8	75.4 J	66.8 J	58.2 U	102 J	39.8 U	44.8 U	
Thallium	MG/KG	0	0%	0.855	0	0	8	1.1 U	1 U	1.8 U	1.6 U	1.5 U	0.92 UJ	
Vanadium	MG/KG	25.1	100%	150	0	8	8	20.7	18.4	24.2	22.2	25.1	23.4	
Zinc	MG/KG	280	100%	115	6	8	8	95.8	84.8	137	280	129	129 J	
<b>WET CHEMISTRY</b>														
Nitrate/Nitrite	%WW													
Nitrate/Nitrite	MG/KG													
pH	SU													
TOC-Soil 9060	MG/KG													
Percent Solids	%WW													
Percent Solids	MG/KG													
Cation exchange capacity	meq/100g													



TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY													
LOC_ID									SEAD-12		SEAD-12		
MATRIX									TP12-16B		TP12-16C		
SAMP_ID									SOIL		SOIL		
DEPTH_TOP									123045		123078		
DEPTH_BOT									2		0.5		
SAMP_DATE									2		2		
QC_CODE									10/3/1998		10/3/1998		
STUDY_ID									SA		SA		
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	Step 1	RI Phase 1	Step 1	
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
			DETECTION	4046	TAGM	DETECTS	ANALYSES						
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	8		77	U		72	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	8		77	U		72	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	8		77	U		72	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	8		190	U		170	U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	8		77	U		72	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	8		77	U		72	U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	8		77	UJ		72	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	8		190	U		170	U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	8		77	U		72	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	8		77	U		72	U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	8		77	U		72	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	8		77	U		72	U
2-Methylnaphthalene	UG/KG	520	13%	36400	0	1	8		77	U		72	U
2-Methylphenol	UG/KG	0	0%	100	0	0	8		77	U		72	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	8		190	UJ		170	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	8		77	U		72	U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	8		77	U		72	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	8		190	U		170	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	8		190	U		170	U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	8		77	U		72	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	8		77	U		72	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	8		77	UJ		72	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	8		77	U		72	U
4-Methylphenol	UG/KG	0	0%	900	0	0	8		77	U		72	U
4-Nitroaniline	UG/KG	0	0%	0	0	0	8		190	U		170	U
4-Nitrophenol	UG/KG	0	0%	100	0	0	8		190	UJ		170	U
Acenaphthene	UG/KG	1300	13%	50000	0	1	8		77	U		72	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	8		77	U		72	U
Anthracene	UG/KG	2700	13%	50000	0	1	8		77	U		72	U
Benzo(a)anthracene	UG/KG	3500	63%	224	1	5	8		77	U		13	J
Benzo(a)pyrene	UG/KG	2600	75%	61	1	6	8		4.4	J		13	J
Benzo(b)fluoranthene	UG/KG	2200	75%	1100	1	6	8		5.8	J		19	J
Benzo(ghi)perylene	UG/KG	1400	63%	50000	0	5	8		77	U		26	J
Benzo(k)fluoranthene	UG/KG	2600	75%	1100	1	6	8		4.7	J		16	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	8		77	U		72	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	8		77	U		72	U

TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12		SEAD-12	
LOC_ID									TP12-16B		TP12-16C	
MATRIX									SOIL		SOIL	
SAMP_ID									123045		123078	
DEPTH_TOP									2		0.5	
DEPTH_BOT									2		2	
SAMP_DATE									10/3/1998		10/3/1998	
QC_CODE									SA		SA	
STUDY_ID									RI Phase 1		Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	8	77	U	72	U	
Bis(2-Ethylhexyl)phthalate	UG/KG	16	75%	50000	0	6	8	13	J	8	J	
Butylbenzylphthalate	UG/KG	0	0%	50000	0	0	8	77	UJ	72	U	
Carbazole	UG/KG	1600	13%		0	1	8	77	UJ	72	UJ	
Chrysene	UG/KG	3000	88%	400	1	7	8	5.4	J	26	J	
Di-n-butylphthalate	UG/KG	6.6	50%	8100	0	4	8	77	U	4.3	J	
Di-n-octylphthalate	UG/KG	11	25%	50000	0	2	8	77	UJ	72	U	
Dibenz(a,h)anthracene	UG/KG	710	13%	14	1	1	8	77	U	72	U	
Dibenzofuran	UG/KG	1000	13%	6200	0	1	8	77	U	72	U	
Diethyl phthalate	UG/KG	0	0%	7100	0	0	8	77	U	72	U	
Dimethylphthalate	UG/KG	0	0%	2000	0	0	8	77	U	72	U	
Fluoranthene	UG/KG	7400	75%	50000	0	6	8	5.3	J	30	J	
Fluorene	UG/KG	1500	13%	50000	0	1	8	77	U	72	U	
Hexachlorobenzene	UG/KG	0	0%	410	0	0	8	77	U	72	U	
Hexachlorobutadiene	UG/KG	0	0%		0	0	8	77	U	72	UJ	
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	8	77	U	72	U	
Hexachloroethane	UG/KG	0	0%		0	0	8	77	U	72	U	
Indeno(1,2,3-cd)pyrene	UG/KG	1500	63%	3200	0	5	8	77	U	14	J	
Isophorone	UG/KG	0	0%	4400	0	0	8	77	U	72	U	
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	8	77	U	72	U	
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	8	77	U	72	U	
Naphthalene	UG/KG	860	25%	13000	0	2	8	77	U	72	U	
Nitrobenzene	UG/KG	0	0%	200	0	0	8	77	U	72	U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	8	190	UJ	170	UJ	
Phenanthrene	UG/KG	8500	63%	50000	0	5	8	77	U	20	J	
Phenol	UG/KG	0	0%	30	0	0	8	77	U	72	U	
Pyrene	UG/KG	5900	75%	50000	0	6	8	5.8	J	30	J	
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	4	13%	2900	0	1	8	3.8	U	3.6	U	
4,4'-DDE	UG/KG	3	13%	2100	0	1	8	3.8	U	3.6	U	
4,4'-DDT	UG/KG	4.5	13%	2100	0	1	8	3.8	U	3.6	U	
Aldrin	UG/KG	0	0%	41	0	0	8	1.9	U	1.8	U	
Alpha-BHC	UG/KG	0	0%	110	0	0	8	1.9	U	1.8	U	
Alpha-Chlordane	UG/KG	0	0%		0	0	8	1.9	U	1.8	U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	8	38	U	36	U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	8	77	U	72	U	



TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-16B SOIL 123045 2 2 10/3/1998 SA	SEAD-12 TP12-16C SOIL 123078 0.5 2 10/3/1998 SA
PARAMETER	UNIT	MAXIMU	OF DETECTION	TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1						
Aroclor-1232	UG/KG	0	0%	10000	0	0	8	38 U	36 U						
Aroclor-1242	UG/KG	0	0%	10000	0	0	8	38 U	36 U						
Aroclor-1248	UG/KG	0	0%	10000	0	0	8	38 U	36 U						
Aroclor-1254	UG/KG	0	0%	10000	0	0	8	38 U	36 U						
Aroclor-1260	UG/KG	0	0%	10000	0	0	8	38 U	36 U						
Beta-BHC	UG/KG	0	0%	200	0	0	8	1.9 U	1.8 U						
Delta-BHC	UG/KG	0	0%	300	0	0	8	1.9 U	1.8 U						
Dieldrin	UG/KG	0	0%	44	0	0	8	3.8 U	3.6 U						
Endosulfan I	UG/KG	1.5	13%	900	0	1	8	1.9 U	1.8 U						
Endosulfan II	UG/KG	0	0%	900	0	0	8	3.8 U	3.6 U						
Endosulfan sulfate	UG/KG	18	13%	1000	0	1	8	3.8 U	3.6 U						
Endrin	UG/KG	0	0%	100	0	0	8	3.8 U	3.6 U						
Endrin aldehyde	UG/KG	7.5	13%		0	1	8	3.8 U	3.6 U						
Endrin ketone	UG/KG	13	13%		0	1	8	3.8 U	3.6 U						
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	8	1.9 U	1.8 U						
Gamma-Chlordane	UG/KG	3.8	13%	540	0	1	8	1.9 U	1.8 U						
Heptachlor	UG/KG	0	0%	100	0	0	8	1.9 U	1.8 U						
Heptachlor epoxide	UG/KG	0	0%	20	0	0	8	1.9 U	1.8 U						
Methoxychlor	UG/KG	42	13%		0	1	8	19 U	18 U						
Toxaphene	UG/KG	0	0%		0	0	8	190 U	180 U						
<b>METALS</b>															
Aluminum	MG/KG	15000	100%	19520	0	8	8	14900	9600						
Antimony	MG/KG	0	0%	6	0	0	8	0.95 R	1.1 R						
Arsenic	MG/KG	5	100%	8.9	0	8	8	4.8	3.2						
Barium	MG/KG	116	100%	300	0	8	8	70.1	76.3						
Beryllium	MG/KG	0.6	100%	1.13	0	8	8	0.6 J	0.27 J						
Cadmium	MG/KG	0.12	13%	2.46	0	1	8	0.05 U	0.12 J						
Calcium	MG/KG	28900	100%	125300	0	8	8	20000 J	16400 J						
Chromium	MG/KG	24.8	100%	30	0	8	8	19.1 J	15.3 J						
Cobalt	MG/KG	15.4	100%	30	0	8	8	11.7	14.9						
Copper	MG/KG	73.3	100%	33	5	8	8	73.3	41						
Cyanide	MG/KG	0	0%	0.35	0	0	8	0.59 U	0.54 U						
Iron	MG/KG	35800	100%	37410	0	8	8	29200	23500						
Lead	MG/KG	112	100%	24.4	6	8	8	64.7 J	88.9 J						
Magnesium	MG/KG	8210	100%	21700	0	8	8	6190	5780						
Manganese	MG/KG	723	100%	1100	0	8	8	351 J	723 J						

TABLE G-13  
EM-5 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

								SEAD-12			SEAD-12
FACILITY								TP12-16B			TP12-16C
LOC_ID								SOIL			SOIL
MATRIX								123045			123078
SAMP_ID								2			0.5
DEPTH_TOP								2			2
DEPTH_BOT								10/3/1998			10/3/1998
SAMP_DATE								SA			SA
QC_CODE								RI Phase 1	Step 1	RI Phase 1	Step 1
STUDY_ID											
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES				
Mercury	MG/KG	1	50%	0.1	3	4	8	0.11		0.08	J
Nickel	MG/KG	52	100%	50	1	8	8	36.4	J	36.4	J
Potassium	MG/KG	2810	100%	2623	3	8	8	2810		1340	
Selenium	MG/KG	1.2	38%	2	0	3	8	0.36	U	0.46	J
Silver	MG/KG	0.32	13%	0.8	0	1	8	0.19	U	0.21	U
Sodium	MG/KG	102	50%	188	0	4	8	39.4	U	97.6	J
Thallium	MG/KG	0	0%	0.855	0	0	8	0.81	UJ	0.92	U
Vanadium	MG/KG	25.1	100%	150	0	8	8	22.4		15.3	
Zinc	MG/KG	280	100%	115	6	8	8	123	J	256	J
<b>WET CHEMISTRY</b>											
Nitrate/Nitrite	%WW										
Nitrate/Nitrite	MG/KG										
pH	SU										
TOC-Soil 9060	MG/KG										
Percent Solids	%WW										
Percent Solids	MG/KG										
Cation exchange capacity	meq/100g										





TABLE G-14  
EM-6 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-24 SOIL		SEAD-12 MW12-25 SOIL		SEAD-12 MW12-26 SOIL	
									123161	0	123164	0	123167	0
									19-Oct-98 SA		18-Oct-98 SA		18-Oct-98 SA	
									RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES							
<b>VOLATILE ORGANICS</b>														
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	3	11	U	12	U	12	U	
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	3	11	U	12	U	12	U	
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	3	11	U	12	U	12	U	
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	3	11	U	12	U	12	U	
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	3	11	U	12	U	12	U	
1,2-Dichloroethene (total)	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Acetone	UG/KG	0	0%	200	0	0	3	11	UJ	12	U	12	U	
Benzene	UG/KG	0	0%	60	0	0	3	11	U	12	U	12	U	
Bromodichloromethane	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Bromoform	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Carbon disulfide	UG/KG	0	0%	2700	0	0	3	11	U	12	U	12	U	
Carbon tetrachloride	UG/KG	0	0%	600	0	0	3	11	U	12	U	12	U	
Chlorobenzene	UG/KG	0	0%	1700	0	0	3	11	U	12	U	12	U	
Chlorodibromomethane	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Chloroethane	UG/KG	0	0%	1900	0	0	3	11	UJ	12	U	12	U	
Chloroform	UG/KG	0	0%	300	0	0	3	11	U	12	U	12	U	
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Ethyl benzene	UG/KG	0	0%	5500	0	0	3	11	U	12	U	12	U	
Methyl bromide	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Methyl butyl ketone	UG/KG	0	0%	0	0	0	3	11	UJ	12	U	12	U	
Methyl chloride	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	3	11	UJ	12	U	12	U	
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	3	11	U	12	U	12	U	
Methylene chloride	UG/KG	0	0%	100	0	0	3	11	U	12	U	12	U	
Styrene	UG/KG	0	0%	0	0	0	3	11	U	12	U	12	U	
Tetrachloroethene	UG/KG	0	0%	1400	0	0	3	11	U	12	U	12	U	
Toluene	UG/KG	0	0%	1500	0	0	3	11	U	12	U	12	U	
Total Xylenes	UG/KG	0	0%	1200	0	0	3	11	U	12	U	12	U	

TABLE G-14  
EM-6 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12	
LOC_ID								MW12-24		MW12-25		MW12-26	
MATRIX								SOIL		SOIL		SOIL	
SAMP_ID								123161		123164		123167	
DEPTH_TOP								0		0		0	
DEPTH_BOT								0.2		0.2		0.2	
SAMP_DATE								19-Oct-98		18-Oct-98		18-Oct-98	
QC_CODE								SA		SA		SA	
STUDY_ID								RI Phase 1		RI Phase 1		RI Phase 1	
								Step 1		Step 1		Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	3	11	U	12	U	12	U
Trichloroethene	UG/KG	0	0%	700	0	0	3	11	U	12	U	12	U
Vinyl chloride	UG/KG	0	0%	200	0	0	3	11	U	12	U	12	U
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	3	76	U	80	U	77	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	3	76	U	80	U	77	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	3	76	U	80	U	77	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	3	76	U	80	U	77	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	3	180	U	190	U	190	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	3	76	U	80	U	77	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	3	76	UJ	80	UJ	77	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	3	180	UJ	190	UJ	190	UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	3	76	U	80	U	77	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	3	76	U	80	U	77	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	3	76	U	80	U	77	U
2-Methylphenol	UG/KG	0	0%	100	0	0	3	76	U	80	U	77	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	3	180	U	190	U	190	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	3	76	U	80	U	77	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	3	180	UJ	190	U	190	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	3	180	U	190	U	190	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	3	76	U	80	U	77	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	3	76	U	80	U	77	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
4-Methylphenol	UG/KG	0	0%	900	0	0	3	76	U	80	U	77	U
4-Nitroaniline	UG/KG	0	0%		0	0	3	180	UJ	190	UJ	190	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	3	180	U	190	UJ	190	UJ

TABLE G-14  
EM-6 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12	
LOC_ID								MW12-24		MW12-25		MW12-26	
MATRIX								SOIL		SOIL		SOIL	
SAMP_ID								123161		123164		123167	
DEPTH_TOP								0		0		0	
DEPTH_BOT								0.2		0.2		0.2	
SAMP_DATE								19-Oct-98		18-Oct-98		18-Oct-98	
QC_CODE								SA		SA		SA	
STUDY_ID		FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
		DETECTION	4046		TAGM	DETECTS	ANALYSES						
Acenaphthene	UG/KG	0	0%	50000	0	0	3	76	U	80	U	77	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	3	76	U	80	U	77	U
Anthracene	UG/KG	0	0%	50000	0	0	3	76	U	80	U	77	U
Benzo(a)anthracene	UG/KG	0	0%	224	0	0	3	76	U	80	U	77	U
Benzo(a)pyrene	UG/KG	0	0%	61	0	0	3	76	U	80	U	77	U
Benzo(b)fluoranthene	UG/KG	4.3	33%	1100	0	1	3	76	U	4.3	J	77	U
Benzo(ghi)perylene	UG/KG	0	0%	50000	0	0	3	76	U	80	U	77	U
Benzo(k)fluoranthene	UG/KG	0	0%	1100	0	0	3	76	U	80	U	77	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
Bis(2-Ethylhexyl)phthalate	UG/KG	46	100%	50000	0	3	3	36	J	43	J	46	J
Butylbenzylphthalate	UG/KG	67	67%	50000	0	2	3	76	U	55	J	67	J
Carbazole	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
Chrysene	UG/KG	4.4	33%	400	0	1	3	76	U	4.4	J	77	U
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	3	480	UJ	800	UJ	760	UJ
Di-n-octylphthalate	UG/KG	4.2	33%	50000	0	1	3	76	U	80	U	4.2	J
Dibenz(a,h)anthracene	UG/KG	0	0%	14	0	0	3	76	U	80	U	77	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	3	76	U	80	U	77	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	3	76	U	80	U	77	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	3	76	U	80	U	77	U
Fluoranthene	UG/KG	5.8	33%	50000	0	1	3	76	U	5.8	J	77	U
Fluorene	UG/KG	0	0%	50000	0	0	3	76	U	80	U	77	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	3	76	U	80	U	77	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
Hexachloroethane	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	3200	0	0	3	76	U	80	U	77	U
Isophorone	UG/KG	0	0%	4400	0	0	3	76	U	80	U	77	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	3	76	U	80	U	77	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	3	76	U	80	U	77	U

TABLE G-14  
EM-6 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12	
LOC_ID								MW12-24		MW12-25		MW12-26	
MATRIX								SOIL		SOIL		SOIL	
SAMP_ID								123161		123164		123167	
DEPTH_TOP								0		0		0	
DEPTH_BOT								0.2		0.2		0.2	
SAMP_DATE								19-Oct-98		18-Oct-98		18-Oct-98	
QC_CODE								SA		SA		SA	
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
			DETECTION	4046	TAGM	DETECTS	ANALYSES						
Naphthalene	UG/KG	0	0%	13000	0	0	3	76 U		80 U		77 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	3	76 U		80 U		77 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	3	180 UJ		190 U		190 U	
Phenanthrene	UG/KG	0	0%	50000	0	0	3	76 U		80 U		77 U	
Phenol	UG/KG	0	0%	30	0	0	3	76 U		80 U		77 U	
Pyrene	UG/KG	6.3	33%	50000	0	1	3	76 U		6.3 J		77 U	
<b>PESTICIDES/PCBS</b>													
4,4'-DDD	UG/KG	0	0%	2900	0	0	3	3.8 U		4 U		3.8 U	
4,4'-DDE	UG/KG	0	0%	2100	0	0	3	3.8 U		4 U		3.8 U	
4,4'-DDT	UG/KG	0	0%	2100	0	0	3	3.8 U		4 U		3.8 U	
Aldrin	UG/KG	0	0%	41	0	0	3	2 U		2 U		2 U	
Alpha-BHC	UG/KG	0	0%	110	0	0	3	2 U		2 U		2 U	
Alpha-Chlordane	UG/KG	0	0%		0	0	3	2 U		2 U		2 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	3	38 U		40 U		38 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	3	77 U		81 U		78 U	
Aroclor-1232	UG/KG	0	0%	10000	0	0	3	38 U		40 U		38 U	
Aroclor-1242	UG/KG	0	0%	10000	0	0	3	38 U		40 U		38 U	
Aroclor-1248	UG/KG	0	0%	10000	0	0	3	38 U		40 U		38 U	
Aroclor-1254	UG/KG	0	0%	10000	0	0	3	38 U		40 U		38 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	3	38 U		40 U		38 U	
Beta-BHC	UG/KG	0	0%	200	0	0	3	2 U		2 U		2 U	
Delta-BHC	UG/KG	0	0%	300	0	0	3	2 U		2 U		2 U	
Dieldrin	UG/KG	0	0%	44	0	0	3	3.8 U		4 U		3.8 U	
Endosulfan I	UG/KG	0	0%	900	0	0	3	2 U		2 U		2 U	
Endosulfan II	UG/KG	0	0%	900	0	0	3	3.8 U		4 U		3.8 U	
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	3	3.8 U		4 U		3.8 U	
Endrin	UG/KG	0	0%	100	0	0	3	3.8 U		4 U		3.8 U	
Endrin aldehyde	UG/KG	0	0%		0	0	3	3.8 U		4 U		3.8 U	
Endrin ketone	UG/KG	0	0%		0	0	3	3.8 U		4 U		3.8 U	
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	3	2 U		2 U		2 U	
Gamma-Chlordane	UG/KG	0	0%	540	0	0	3	2 U		2 U		2 U	



TABLE G-14  
EM-6 METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-24	MW12-25	MW12-26
MATRIX								SOIL	SOIL	SOIL
SAMP_ID								123161	123164	123167
DEPTH_TOP								0	0	0
DEPTH_BOT								0.2	0.2	0.2
SAMP_DATE								19-Oct-98	18-Oct-98	18-Oct-98
QC_CODE								SA	SA	SA
STUDY_ID		FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase	Step 1	RI Phase	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	1	1	1	1
			DETECTION	4046	TAGM	DETECTS	ANALYSES			
Heptachlor	UG/KG	0	0%	100	0	0	3	2 U	2 U	2 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	3	2 U	2 U	2 U
Methoxychlor	UG/KG	0	0%	0	0	0	3	20 U	20 U	20 U
Toxaphene	UG/KG	0	0%	0	0	0	3	200 U	200 U	200 U
<b>METALS</b>										
Aluminum	MG/KG	13300	100%	19520	0	3	3	12100	13300	12500
Antimony	MG/KG	0	0%	6	0	0	3	1.3 R	1.2 R	1.3 R
Arsenic	MG/KG	5.4	100%	8.9	0	3	3	4.1	5.4	4.3
Barium	MG/KG	84	100%	300	0	3	3	68.2	70.5	84
Beryllium	MG/KG	0.5	100%	1.13	0	3	3	0.47 J	0.46 J	0.5 J
Cadmium	MG/KG	0	0%	2.46	0	0	3	0.06 U	0.06 U	0.06 U
Calcium	MG/KG	23900	100%	125300	0	3	3	20000	2480	23900
Chromium	MG/KG	19.1	100%	30	0	3	3	18.3	18.7	19.1
Cobalt	MG/KG	17.7	100%	30	0	3	3	10.9	17.7	12.6
Copper	MG/KG	26.2	100%	33	0	3	3	21.2	26.2	23.6
Cyanide	MG/KG	0	0%	0.35	0	0	3	0.59 U	0.62 U	0.57 U
Iron	MG/KG	27100	100%	37410	0	3	3	23200	25600	27100
Lead	MG/KG	16.2	100%	24.4	0	3	3	10.4 J	16.2 J	14.8 J
Magnesium	MG/KG	6560	100%	21700	0	3	3	6560	4350	5450
Manganese	MG/KG	1120	100%	1100	1	3	3	495	1120	644
Mercury	MG/KG	0	0%	0.1	0	0	3	0.05 UJ	0.06 U	0.05 U
Nickel	MG/KG	40.8	100%	50	0	3	3	29.8	40.8	30.8
Potassium	MG/KG	1120	100%	2623	0	3	3	1120	894 J	1020 J
Selenium	MG/KG	1.1	33%	2	0	1	3	0.96 UJ	1.1 J	1 UJ
Silver	MG/KG	0	0%	0.8	0	0	3	0.25 U	0.23 U	0.26 U
Sodium	MG/KG	0	0%	188	0	0	3	52.5 U	47.9 U	54.5 U
Thallium	MG/KG	2	67%	0.855	2	2	3	1.1 U	2	1.1 J
Vanadium	MG/KG	20.1	100%	150	0	3	3	18.3	20.1	19.7
Zinc	MG/KG	75.8	100%	115	0	3	3	64.1	71.5	75.8
<b>WET CHEMISTRY</b>										
Nitrate/Nitrite	%W/W									

TABLE G-14  
 EM-6 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12	
LOC_ID								MW12-24		MW12-25		MW12-26	
MATRIX								SOIL		SOIL		SOIL	
SAMP_ID								123161		123164		123167	
DEPTH_TOP								0		0		0	
DEPTH_BOT								0.2		0.2		0.2	
SAMP_DATE								19-Oct-98		18-Oct-98		18-Oct-98	
QC_CODE								SA		SA		SA	
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
Nitrate/Nitrite	MG/KG		DETECTION	4046	TAGM	DETECTS	ANALYSES						
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%WW												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												





TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-25 SOIL	SEAD-12 MW12-25 SOIL	SEAD-12 MW12-26 SOIL	SEAD-12 MW12-26 SOIL	SEAD-12 TP12-11A SOIL				
									123165	123166	123168	123169	123109				
									2	6	2	6	6				
									4	8	4	8	6				
									18-Oct-98	18-Oct-98	18-Oct-98	18-Oct-98	14-Oct-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1			
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES										
<b>VOLATILE ORGANICS</b>																	
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	12	11	U	11	U	12	U	11	U	13	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	12	11	U	11	U	12	U	11	U	13	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	12	11	U	11	U	12	U	11	U	13	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	12	11	U	11	U	12	U	11	U	13	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	12	11	U	11	U	12	U	11	U	13	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Acetone	UG/KG	160	33%	200	0	4	12	12		5	J	160		11	UJ		98
Benzene	UG/KG	0	0%	60	0	0	12	11	U	11	U	12	U	11	U	13	U
Bromodichloromethane	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Bromoform	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	12	11	U	11	U	12	U	11	U	13	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	12	11	U	11	U	12	U	11	U	13	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	12	11	U	11	U	12	U	11	U	13	U
Chlorodibromomethane	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Chloroethane	UG/KG	0	0%	1900	0	0	12	11	U	11	U	12	U	11	UJ	13	U
Chloroform	UG/KG	0	0%	300	0	0	12	11	U	11	U	12	U	11	U	13	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Ethyl benzene	UG/KG	3	8%	5500	0	1	12	11	U	11	U	3	J	11	U	13	U
Methyl bromide	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Methyl butyl ketone	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	UJ	13	U
Methyl chloride	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Methyl ethyl ketone	UG/KG	34	17%	300	0	2	12	11	U	11	U	34		11	UJ	28	
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	12	11	U	11	U	12	U	11	U	13	U
Methylene chloride	UG/KG	0	0%	100	0	0	12	11	U	11	U	12	U	11	U	13	U
Styrene	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	12	11	U	11	U	12	U	11	U	13	U
Toluene	UG/KG	8	25%	1500	0	3	12	11	U	11	U	12	U	11	U	8	J
Total Xylenes	UG/KG	0	0%	1200	0	0	12	11	U	11	U	12	U	11	U	13	U

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-25 SOIL	SEAD-12 MW12-25 SOIL	SEAD-12 MW12-26 SOIL	SEAD-12 MW12-26 SOIL	SEAD-12 TP12-11A SOIL				
									123165	123166	123168	123169	123109				
									2	6	2	6	6				
									4	8	4	8	6				
									18-Oct-98	18-Oct-98	18-Oct-98	18-Oct-98	14-Oct-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	12	11	U	11	U	12	U	11	U	13	U
Trichloroethene	UG/KG	0	0%	700	0	0	12	11	U	11	U	12	U	11	U	13	U
Vinyl chloride	UG/KG	0	0%	200	0	0	12	11	U	11	U	12	U	11	U	13	U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	12	70	UJ	70	UJ	75	U	74	U	81	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	12	70	U	70	U	75	U	74	U	81	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	12	70	U	70	U	75	U	74	U	81	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	12	70	U	70	U	75	U	74	U	81	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	12	170	U	170	U	180	U	180	U	200	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U	81	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	12	70	U	70	U	75	U	74	U	81	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	12	70	UJ	70	UJ	75	UJ	74	UJ	81	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	12	170	UJ	170	UJ	180	UJ	180	UJ	200	UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U	81	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	12	70	U	70	U	75	U	74	U	81	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U	81	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	12	70	U	70	U	75	U	74	U	81	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	12	70	U	70	U	75	U	74	U	81	U
2-Methylphenol	UG/KG	0	0%	100	0	0	12	70	U	70	U	75	U	74	U	81	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	12	170	U	170	U	180	U	180	U	200	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	12	70	U	70	U	75	U	74	U	81	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U	81	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	12	170	U	170	U	180	U	180	U	200	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	12	170	U	170	U	180	U	180	U	200	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U	81	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	12	70	U	70	U	75	U	74	U	81	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	12	70	U	70	U	75	U	74	U	81	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U	81	U
4-Methylphenol	UG/KG	0	0%	900	0	0	12	70	U	70	U	75	U	74	U	81	U
4-Nitroaniline	UG/KG	0	0%		0	0	12	170	U	170	U	180	UJ	180	UJ	200	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	12	170	UJ	170	UJ	180	UJ	180	UJ	200	UJ

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12		
LOC_ID									MW12-25	MW12-25	MW12-26	MW12-26	TP12-11A		
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL		
SAMP_ID									123165	123166	123168	123169	123109		
DEPTH_TOP									2	6	2	6	6		
DEPTH_BOT									4	8	4	8	6		
SAMP_DATE									18-Oct-98	18-Oct-98	18-Oct-98	18-Oct-98	14-Oct-98		
QC_CODE									SA	SA	SA	SA	SA		
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1		
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF		Step 1	Step 1	Step 1	Step 1	Step 1		
			DETECTION	4046	TAGM	DETECTS	ANALYSES								
Acenaphthene	UG/KG	0	0%	50000	0	0	12	70	U	70	U	75	U	81	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	12	70	U	70	U	75	U	74	U
Anthracene	UG/KG	23	8%	50000	0	1	12	70	U	70	U	75	U	74	U
Benzo(a)anthracene	UG/KG	56	17%	224	0	2	12	70	U	70	U	75	U	74	U
Benzo(a)pyrene	UG/KG	55	8%	61	0	1	12	70	U	70	U	75	U	74	U
Benzo(b)fluoranthene	UG/KG	56	8%	1100	0	1	12	70	U	70	U	75	U	74	U
Benzo(ghi)perylene	UG/KG	32	8%	50000	0	1	12	70	U	70	U	75	U	74	U
Benzo(k)fluoranthene	UG/KG	61	8%	1100	0	1	12	70	U	70	U	75	U	74	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U
Bis(2-Ethylhexyl)phthalate	UG/KG	120	25%	50000	0	3	12	19	J	70	U	84		120	
Butylbenzylphthalate	UG/KG	160	17%	50000	0	2	12	70	U	70	U	100		160	
Carbazole	UG/KG	27	8%		0	1	12	70	UJ	70	UJ	75	U	74	U
Chrysene	UG/KG	55	17%	400	0	2	12	70	U	70	U	75	U	74	U
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	12	920	UJ	960	UJ	910	UJ	860	UJ
Di-n-octylphthalate	UG/KG	6.8	17%	50000	0	2	12	70	U	70	U	4.5	J	6.8	J
Dibenz(a,h)anthracene	UG/KG	13	8%	14	0	1	12	70	U	70	U	75	U	74	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	12	70	U	70	U	75	U	74	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	12	70	U	70	U	75	U	74	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	12	70	U	70	U	75	U	74	U
Fluoranthene	UG/KG	150	25%	50000	0	3	12	70	U	70	U	4.5	J	74	U
Fluorene	UG/KG	19	8%	50000	0	1	12	70	U	70	U	75	U	74	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	12	70	U	70	U	75	U	74	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	12	70	UJ	70	UJ	75	U	74	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	12	70	UJ	70	UJ	75	U	74	U
Hexachloroethane	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U
Indeno(1,2,3-cd)pyrene	UG/KG	36	8%	3200	0	1	12	70	U	70	U	75	U	74	U
Isophorone	UG/KG	0	0%	4400	0	0	12	70	U	70	U	75	U	74	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	12	70	U	70	U	75	U	74	U

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-25 SOIL 123165		SEAD-12 MW12-25 SOIL 123166		SEAD-12 MW12-26 SOIL 123168		SEAD-12 MW12-26 SOIL 123169		SEAD-12 TP12-11A SOIL 123109	
								18-Oct-98 SA	Step 1	18-Oct-98 SA	Step 1	18-Oct-98 SA	Step 1	18-Oct-98 SA	Step 1	14-Oct-98 SA	Step 1
PARAMETER	UNIT																
Naphthalene	UG/KG	0	0%	13000	0	0	12	70 U	70 U	75 U	74 U	81 U	81 U	81 U	81 U	81 U	81 U
Nitrobenzene	UG/KG	0	0%	200	0	0	12	70 UJ	70 UJ	75 U	74 U	81 U	81 U	81 U	81 U	81 U	81 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	12	170 UJ	170 UJ	180 U	180 U	200 UJ	200 UJ	200 UJ	200 UJ	200 UJ	200 UJ
Phenanthrene	UG/KG	120	25%	50000	0	3	12	70 U	70 U	75 U	74 U	81 U	81 U	81 U	81 U	81 U	81 U
Phenol	UG/KG	0	0%	30	0	0	12	70 U	70 U	75 U	74 U	81 U	81 U	81 U	81 U	81 U	81 U
Pyrene	UG/KG	100	25%	50000	0	3	12	70 U	70 U	4.6 J	74 U	81 U	81 U	81 U	81 U	81 U	81 U
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	0	0%	2900	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
4,4'-DDE	UG/KG	0	0%	2100	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
4,4'-DDT	UG/KG	0	0%	2100	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Aldrin	UG/KG	0	0%	41	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Alpha-BHC	UG/KG	0	0%	110	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Alpha-Chlordane	UG/KG	0	0%	0	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	12	35 U	35 U	38 U	37 U	41 U	41 U	41 U	41 U	41 U	41 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	12	71 U	71 U	76 U	75 U	83 U	83 U	83 U	83 U	83 U	83 U
Aroclor-1232	UG/KG	0	0%	10000	0	0	12	35 U	35 U	38 U	37 U	41 U	41 U	41 U	41 U	41 U	41 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	12	35 U	35 U	38 U	37 U	41 U	41 U	41 U	41 U	41 U	41 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	12	35 U	35 U	38 U	37 U	41 U	41 U	41 U	41 U	41 U	41 U
Aroclor-1254	UG/KG	0	0%	10000	0	0	12	35 U	35 U	38 U	37 U	41 U	41 U	41 U	41 U	41 U	41 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	12	35 U	35 U	38 U	37 U	41 U	41 U	41 U	41 U	41 U	41 U
Beta-BHC	UG/KG	0	0%	200	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Delta-BHC	UG/KG	0	0%	300	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Dieldrin	UG/KG	0	0%	44	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Endosulfan I	UG/KG	0	0%	900	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Endosulfan II	UG/KG	0	0%	900	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Endrin	UG/KG	0	0%	100	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Endrin aldehyde	UG/KG	0	0%	0	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Endrin ketone	UG/KG	0	0%	0	0	0	12	3.5 U	3.5 U	3.8 U	3.7 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	12	1.8 U	1.8 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U



TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-25 SOIL	SEAD-12 MW12-25 SOIL	SEAD-12 MW12-26 SOIL	SEAD-12 MW12-26 SOIL	SEAD-12 TP12-11A SOIL		
									123165	123166	123168	123169	123109		
									2	6	2	6	6		
									4	8	4	8	6		
									18-Oct-98	18-Oct-98	18-Oct-98	18-Oct-98	14-Oct-98		
									SA	SA	SA	SA	SA		
									RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	
									RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES								
Heptachlor	UG/KG	0	0%	100	0	0	12	1.8	U	1.8	U	1.9	U	2.1	U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	12	1.8	U	1.8	U	1.9	U	2.1	U
Methoxychlor	UG/KG	0	0%	0	0	0	12	18	U	18	U	19	U	21	U
Toxaphene	UG/KG	0	0%	0	0	0	12	180	U	180	U	190	U	210	U
<b>METALS</b>															
Aluminum	MG/KG	16500	100%	19520	0	12	12	12400		9690		12300		11500	J
Antimony	MG/KG	0	0%	6	0	0	12	1	R	1	R	1.2	R	1.3	R
Arsenic	MG/KG	6.4	100%	8.9	0	12	12	4.3		3.5		3.6		4.9	J
Barium	MG/KG	130	100%	300	0	12	12	57.8		53.4		74.8		63.5	J
Beryllium	MG/KG	0.68	92%	1.13	0	11	12	0.48	J	0.36	J	0.44	J	0.45	J
Cadmium	MG/KG	0	0%	2.46	0	0	12	0.05	U	0.05	U	0.06	U	0.06	U
Calcium	MG/KG	76300	100%	125300	0	12	12	76300		52700		9490		36200	J
Chromium	MG/KG	29.6	100%	30	0	12	12	21.4		17.1		19.5		21.5	J
Cobalt	MG/KG	36.3	100%	30	1	12	12	12.4		9.9		12.6		12.6	J
Copper	MG/KG	28.7	100%	33	0	12	12	26.8		19.4		21.6		28.7	J
Cyanide	MG/KG	0	0%	0.35	0	0	12	0.56	U	0.53	U	0.6	U	0.55	U
Iron	MG/KG	40600	100%	37410	1	12	12	27300		21300		24800		28900	J
Lead	MG/KG	34	100%	24.4	2	12	12	7.9		8.9		11.4	J	7.9	J
Magnesium	MG/KG	15400	100%	21700	0	12	12	15400		8450		5400		7390	J
Manganese	MG/KG	4110	100%	1100	1	12	12	459		372		559		522	J
Mercury	MG/KG	0.06	8%	0.1	0	1	12	0.05	U	0.05	U	0.05	U	0.05	J
Nickel	MG/KG	47.2	83%	50	0	10	12	36.3		29		32.5		37.3	J
Potassium	MG/KG	1570	100%	2623	0	12	12	1220		1100		1150		1140	J
Selenium	MG/KG	1.6	17%	2	0	2	12	0.79	U	0.79	U	0.89	U	0.98	U
Silver	MG/KG	0.2	8%	0.8	0	1	12	0.21	U	0.21	U	0.23	U	0.26	U
Sodium	MG/KG	197	75%	188	1	9	12	102	J	55.7	J	48.5	U	53.6	J
Thallium	MG/KG	3.8	67%	0.855	7	8	12	1.1	J	0.89	U	1.2	J	1.1	J
Vanadium	MG/KG	23.8	100%	150	0	12	12	17.8		13.4		18.3		17.5	J
Zinc	MG/KG	391	100%	115	4	12	12	87.7		68.2		69.3		82.2	J
<b>WET CHEMISTRY</b>															
Nitrate/Nitrite	%W/W														

TABLE G-15  
 EM-6 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-25 SOIL 123165	SEAD-12 MW12-25 SOIL 123166	SEAD-12 MW12-26 SOIL 123168	SEAD-12 MW12-26 SOIL 123169	SEAD-12 TP12-11A SOIL 123109
																2	6	2	6	6
																4	8	4	8	6
																18-Oct-98	18-Oct-98	18-Oct-98	18-Oct-98	14-Oct-98
																SA	SA	SA	SA	SA
																RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
																Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER																				
Nitrate/Nitrite									MG/KG											
pH									SU											
TOC-Soil 9060									MG/KG											
Percent Solids									%W/W											
Percent Solids									MG/KG											
Cation exchange capacity									meq/100g											

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-11B SOIL	SEAD-12 TP12-11C SOIL	SEAD-12 TP12-12A SOIL	SEAD-12 TP12-12B SOIL	SEAD-12 TP12-12C SOIL		
									123110	123111	123118	123119	123120		
									6.5	0.5	0.5	1.5	4		
									6.5	0.5	0.5	1.5	4		
									14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98		
									SA	SA	SA	SA	SA		
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES								
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	12	12	U	12	U	11	U	12	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	12	12	U	12	U	11	U	12	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	12	12	U	12	U	11	U	12	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	12	12	U	12	U	11	U	12	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	12	12	U	12	U	11	U	12	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Acetone	UG/KG	160	33%	200	0	4	12	44	U	12	U	15	UJ	17	UJ
Benzene	UG/KG	0	0%	60	0	0	12	12	U	12	U	11	U	12	U
Bromodichloromethane	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Bromoform	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	12	12	U	12	U	11	U	12	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	12	12	U	12	U	11	U	12	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	12	12	U	12	U	11	U	12	U
Chlorodibromomethane	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Chloroethane	UG/KG	0	0%	1900	0	0	12	12	U	12	U	11	UJ	12	UJ
Chloroform	UG/KG	0	0%	300	0	0	12	12	U	12	U	11	U	12	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Ethyl benzene	UG/KG	3	8%	5500	0	1	12	12	U	12	U	11	U	12	U
Methyl bromide	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Methyl butyl ketone	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Methyl chloride	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Methyl ethyl ketone	UG/KG	34	17%	300	0	2	12	12	U	12	UJ	11	UJ	12	UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	12	12	U	12	U	11	U	12	U
Methylene chloride	UG/KG	0	0%	100	0	0	12	12	U	12	U	11	U	12	U
Styrene	UG/KG	0	0%		0	0	12	12	U	12	U	11	U	12	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	12	12	U	12	U	11	U	12	U
Toluene	UG/KG	8	25%	1500	0	3	12	12	U	6	J	12	U	11	U
Total Xylenes	UG/KG	0	0%	1200	0	0	12	12	U	12	U	11	U	12	U

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-11B SOIL	SEAD-12 TP12-11C SOIL	SEAD-12 TP12-12A SOIL	SEAD-12 TP12-12B SOIL	SEAD-12 TP12-12C SOIL
									123110	123111	123118	123119	123120
									6.5	0.5	0.5	1.5	4
									6.5	0.5	0.5	1.5	4
									14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	12	12 U	12 U	12 U	11 U	12 U	
Trichloroethene	UG/KG	0	0%	700	0	0	12	12 U	12 U	12 U	11 U	12 U	
Vinyl chloride	UG/KG	0	0%	200	0	0	12	12 U	12 U	12 U	11 U	12 U	
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	12	78 U	77 U	74 U	77 U	78 U	
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	12	78 U	77 U	74 U	77 UJ	78 U	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	12	78 U	77 U	74 U	77 UJ	78 U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	12	78 U	77 U	74 U	77 UJ	78 U	
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	12	190 U	190 U	180 U	190 U	190 U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	12	78 U	77 U	74 U	77 U	78 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	12	78 U	77 U	74 U	77 U	78 U	
2,4-Dimethylphenol	UG/KG	0	0%		0	0	12	78 UJ	77 UJ	74 UJ	77 UJ	78 UJ	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	12	190 UJ	190 UJ	180 UJ	190 UJ	190 UJ	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	12	78 U	77 U	74 U	77 UJ	78 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	12	78 U	77 U	74 U	77 UJ	78 U	
2-Chloronaphthalene	UG/KG	0	0%		0	0	12	78 U	77 U	74 U	77 UJ	78 U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	12	78 U	77 U	74 U	77 U	78 U	
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	12	78 U	77 U	74 U	77 UJ	78 U	
2-Methylphenol	UG/KG	0	0%	100	0	0	12	78 U	77 U	74 U	77 U	78 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	12	190 U	190 U	180 U	190 UJ	190 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	12	78 U	77 U	74 U	77 U	78 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	12	78 U	77 U	74 U	77 UJ	78 U	
3-Nitroaniline	UG/KG	0	0%	500	0	0	12	190 U	190 U	180 U	190 UJ	190 U	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	12	190 U	190 U	180 UJ	190 UJ	190 UJ	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	12	78 U	77 U	74 U	77 UJ	78 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	12	78 U	77 U	74 U	77 U	78 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	12	78 UJ	77 UJ	74 UJ	77 UJ	78 UJ	
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	12	78 U	77 U	74 U	77 UJ	78 U	
4-Methylphenol	UG/KG	0	0%	900	0	0	12	78 U	77 U	74 U	77 U	78 U	
4-Nitroaniline	UG/KG	0	0%		0	0	12	190 UJ	190 UJ	180 UJ	190 UJ	190 UJ	
4-Nitrophenol	UG/KG	0	0%	100	0	0	12	190 U	190 U	180 UJ	190 UJ	190 UJ	

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOC_ID									TP12-11B	TP12-11C	TP12-12A	TP12-12B	TP12-12C				
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL				
SAMP_ID									123110	123111	123118	123119	123120				
DEPTH_TOP									6.5	0.5	0.5	1.5	4				
DEPTH_BOT									6.5	0.5	0.5	1.5	4				
SAMP_DATE									14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98				
QC_CODE									SA	SA	SA	SA	SA				
STUDY_ID									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF										
			DETECTION	4046	TAGM	DETECTS	ANALYSES										
Acenaphthene	UG/KG	0	0%	50000	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Acenaphthylene	UG/KG	0	0%	41000	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Anthracene	UG/KG	23	8%	50000	0	1	12	23	J	77	U	74	U	77	UJ	78	U
Benzo(a)anthracene	UG/KG	56	17%	224	0	2	12	56	J	4.2	J	74	U	77	UJ	78	U
Benzo(a)pyrene	UG/KG	55	8%	61	0	1	12	55	J	77	U	74	U	77	UJ	78	U
Benzo(b)fluoranthene	UG/KG	56	8%	1100	0	1	12	56	J	77	U	74	U	77	UJ	78	U
Benzo(ghi)perylene	UG/KG	32	8%	50000	0	1	12	32	J	77	UJ	74	U	77	UJ	78	U
Benzo(k)fluoranthene	UG/KG	61	8%	1100	0	1	12	61	J	77	U	74	U	77	UJ	78	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Bis(2-Ethylhexyl)phthalate	UG/KG	120	25%	50000	0	3	12	78	U	77	U	74	UJ	77	UJ	78	UJ
Butylbenzylphthalate	UG/KG	160	17%	50000	0	2	12	78	U	77	U	74	UJ	77	UJ	78	UJ
Carbazole	UG/KG	27	8%	0	0	1	12	27	J	77	UJ	74	UJ	77	UJ	78	UJ
Chrysene	UG/KG	55	17%	400	0	2	12	55	J	5.6	J	74	U	77	UJ	78	U
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Di-n-octylphthalate	UG/KG	6.8	17%	50000	0	2	12	78	UJ	77	UJ	74	UJ	77	UJ	78	UJ
Dibenz(a,h)anthracene	UG/KG	13	8%	14	0	1	12	13	J	77	UJ	74	U	77	UJ	78	U
Dibenzofuran	UG/KG	0	0%	6200	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Fluoranthene	UG/KG	150	25%	50000	0	3	12	150	J	9.8	J	74	U	77	UJ	78	U
Fluorene	UG/KG	19	8%	50000	0	1	12	19	J	77	U	74	U	77	UJ	78	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	12	78	UJ	77	UJ	74	UJ	77	UJ	78	UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Hexachloroethane	UG/KG	0	0%	0	0	0	12	78	U	77	U	74	U	77	UJ	78	U
Indeno(1,2,3-cd)pyrene	UG/KG	36	8%	3200	0	1	12	36	J	77	UJ	74	U	77	UJ	78	U
Isophorone	UG/KG	0	0%	4400	0	0	12	78	U	77	U	74	U	77	UJ	78	U
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	12	78	U	77	U	74	U	77	UJ	78	U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	12	78	U	77	U	74	U	77	UJ	78	U

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-11B SOIL	SEAD-12 TP12-11C SOIL	SEAD-12 TP12-12A SOIL	SEAD-12 TP12-12B SOIL	SEAD-12 TP12-12C SOIL
									123110	123111	123118	123119	123120
									6.5	0.5	0.5	1.5	4
									6.5	0.5	0.5	1.5	4
									14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Naphthalene	UG/KG	0	0%	13000	0	0	12	78 U	77 U	74 U	77 UJ	78 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	12	78 U	77 U	74 U	77 UJ	78 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	12	190 UJ	190 UJ	180 UJ	190 UJ	190 UJ	
Phenanthrene	UG/KG	120	25%	50000	0	3	12	120	8 J	74 U	77 UJ	78 U	
Phenol	UG/KG	0	0%	30	0	0	12	78 U	77 U	74 U	77 U	78 U	
Pyrene	UG/KG	100	25%	50000	0	3	12	100	7.7 J	74 U	77 UJ	78 U	
<b>PESTICIDES/PCBS</b>													
4,4'-DDD	UG/KG	0	0%	2900	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
4,4'-DDE	UG/KG	0	0%	2100	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
4,4'-DDT	UG/KG	0	0%	2100	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
Aldrin	UG/KG	0	0%	41	0	0	12	2 U	2 U	1.9 U	2 U	2 U	
Alpha-BHC	UG/KG	0	0%	110	0	0	12	2 U	2 U	1.9 U	2 U	2 U	
Alpha-Chlordane	UG/KG	0	0%	0	0	0	12	2 U	2 U	1.9 U	2 U	2 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	12	39 U	38 U	37 U	38 U	39 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	12	79 U	78 U	75 U	78 U	80 U	
Aroclor-1232	UG/KG	0	0%	10000	0	0	12	39 U	38 U	37 U	38 U	39 U	
Aroclor-1242	UG/KG	0	0%	10000	0	0	12	39 U	38 U	37 U	38 U	39 U	
Aroclor-1248	UG/KG	0	0%	10000	0	0	12	39 U	38 U	37 U	38 U	39 U	
Aroclor-1254	UG/KG	0	0%	10000	0	0	12	39 U	38 U	37 U	38 U	39 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	12	39 U	38 U	37 U	38 U	39 U	
Beta-BHC	UG/KG	0	0%	200	0	0	12	2 U	2 U	1.9 U	2 U	2 U	
Delta-BHC	UG/KG	0	0%	300	0	0	12	2 U	2 U	1.9 U	2 U	2 U	
Dieldrin	UG/KG	0	0%	44	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
Endosulfan I	UG/KG	0	0%	900	0	0	12	2 U	2 U	1.9 U	2 U	2 U	
Endosulfan II	UG/KG	0	0%	900	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
Endrin	UG/KG	0	0%	100	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
Endrin aldehyde	UG/KG	0	0%	0	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
Endrin ketone	UG/KG	0	0%	0	0	0	12	3.9 U	3.8 U	3.7 U	3.8 U	3.9 U	
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	12	2 U	2 U	1.9 U	2 U	2 U	
Gamma-Chlordane	UG/KG	0	0%	540	0	0	12	2 U	2 U	1.9 U	2 U	2 U	

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOC_ID								TP12-11B	TP12-11C	TP12-12A	TP12-12B	TP12-12C	
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	
SAMP_ID								123110	123111	123118	123119	123120	
DEPTH_TOP								6.5	0.5	0.5	1.5	4	
DEPTH_BOT								6.5	0.5	0.5	1.5	4	
SAMP_DATE								14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98	
QC_CODE								SA	SA	SA	SA	SA	
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
			DETECTION	4046	TAGM	DETECTS	ANALYSES						
Heptachlor	UG/KG	0	0%	100	0	0	12	2 U		2 U	1.9 U	2 U	2 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	12	2 U	2 U	1.9 U	2 U	2 U	2 U
Methoxychlor	UG/KG	0	0%	12	0	0	12	20 U	20 U	19 U	20 U	20 U	20 U
Toxaphene	UG/KG	0	0%	0	0	0	12	200 U	200 U	190 U	200 U	200 U	200 U
<b>METALS</b>													
Aluminum	MG/KG	16500	100%	19520	0	12	12	13800 J	14300 J	12900 J	13200 J	13700 J	13700 J
Antimony	MG/KG	0	0%	6	0	0	12	1.4 R	1.2 R	1.1 R	1.1 R	1.1 R	1.1 R
Arsenic	MG/KG	6.4	100%	8.9	0	12	12	4 J	4.5 J	4.2 J	4.4 J	6.4 J	6.4 J
Barium	MG/KG	130	100%	300	0	12	12	75.7	78.4	61.4	69.8	130	130
Beryllium	MG/KG	0.68	92%	1.13	0	11	12	0.56 J	0.61 J	0.56 J	0.56 J	0.02 U	0.02 U
Cadmium	MG/KG	0	0%	2.46	0	0	12	0.07 U	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U
Calcium	MG/KG	76300	100%	125300	0	12	12	38200 J	23400 J	21400 J	19400 J	7370 J	7370 J
Chromium	MG/KG	29.6	100%	30	0	12	12	22.7	23.1	22.5	23.1	24.9	24.9
Cobalt	MG/KG	36.3	100%	30	1	12	12	12.9	11.6	11.7	11.7	10.1 J	10.1 J
Copper	MG/KG	28.7	100%	33	0	12	12	24.2	23.8	21.4	26	25.8	25.8
Cyanide	MG/KG	0	0%	0.35	0	0	12	0.65 U	0.61 U	0.58 U	0.67 U	0.7 U	0.7 U
Iron	MG/KG	40600	100%	37410	1	12	12	28100	27000	40600 J	32000 J	30400 J	30400 J
Lead	MG/KG	34	100%	24.4	2	12	12	10.7 J	9.5 J	9.2 J	33.5 J	33.5 J	33.5 J
Magnesium	MG/KG	15400	100%	21700	0	12	12	8820 J	6970 J	5790 J	5910 J	5000 J	5000 J
Manganese	MG/KG	4110	100%	1100	1	12	12	447	411	422	458	4110	4110
Mercury	MG/KG	0.06	8%	0.1	0	1	12	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.06 U
Nickel	MG/KG	47.2	83%	50	0	10	12	38.5 J	33.3 J	47.2 J	37.8 J	28.7 J	28.7 J
Potassium	MG/KG	1570	100%	2623	0	12	12	1570	1180	879 J	839 J	809 J	809 J
Selenium	MG/KG	1.6	17%	2	0	2	12	1 U	0.94 U	0.81 U	0.79 U	1.6	1.6
Silver	MG/KG	0.2	8%	0.8	0	1	12	0.27 U	0.25 U	0.21 U	0.21 U	0.21 U	0.21 U
Sodium	MG/KG	197	75%	188	1	9	12	88.8 J	51.5 U	109 J	147 J	197 J	197 J
Thallium	MG/KG	3.8	67%	0.855	7	8	12	1.2 J	1.1 U	0.93 J	0.99 J	3.8	3.8
Vanadium	MG/KG	23.8	100%	150	0	12	12	20.8	21	17.9	19.5	22.5	22.5
Zinc	MG/KG	391	100%	115	4	12	12	125 J	81.2 J	126 J	166 J	391 J	391 J
<b>WET CHEMISTRY</b>													
Nitrate/Nitrite	%WW												

TABLE G-15  
 EM-6 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-11B SOIL	SEAD-12 TP12-11C SOIL	SEAD-12 TP12-12A SOIL	SEAD-12 TP12-12B SOIL	SEAD-12 TP12-12C SOIL
									123110	123111	123118	123119	123120
									6.5	0.5	0.5	1.5	4
									6.5	0.5	0.5	1.5	4
									14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98	14-Oct-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Nitrate/Nitrite	MG/KG												
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%WW												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												



TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-24 SOIL	SEAD-12 MW12-24 SOIL
									123162	123163
									2	6
									4	8
									19-Oct-98	19-Oct-98
									SA	SA
									RI Phase 1	Step 1
									RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES			
<b>VOLATILE ORGANICS</b>										
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	12	11	U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	12	11	U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	12	11	U	12 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	12	11	U	12 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	12	11	U	12 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	12	11	U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	12	11	U	12 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	12	11	U	12 U
Acetone	UG/KG	160	33%	200	0	4	12	11	UJ	12 UJ
Benzene	UG/KG	0	0%	60	0	0	12	11	U	12 U
Bromodichloromethane	UG/KG	0	0%		0	0	12	11	U	12 U
Bromoform	UG/KG	0	0%		0	0	12	11	U	12 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	12	11	U	12 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	12	11	U	12 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	12	11	U	12 U
Chlorodibromomethane	UG/KG	0	0%		0	0	12	11	U	12 U
Chloroethane	UG/KG	0	0%	1900	0	0	12	11	UJ	12 UJ
Chloroform	UG/KG	0	0%	300	0	0	12	11	U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	12	11	U	12 U
Ethyl benzene	UG/KG	3	8%	5500	0	1	12	11	U	12 U
Methyl bromide	UG/KG	0	0%		0	0	12	11	U	12 U
Methyl butyl ketone	UG/KG	0	0%		0	0	12	11	UJ	12 UJ
Methyl chloride	UG/KG	0	0%		0	0	12	11	U	12 U
Methyl ethyl ketone	UG/KG	34	17%	300	0	2	12	11	UJ	12 UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	12	11	U	12 U
Methylene chloride	UG/KG	0	0%	100	0	0	12	11	U	12 U
Styrene	UG/KG	0	0%		0	0	12	11	U	12 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	12	11	U	12 U
Toluene	UG/KG	8	25%	1500	0	3	12	11	U	4 J
Total Xylenes	UG/KG	0	0%	1200	0	0	12	11	U	12 U



TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12
LOC_ID								MW12-24	MW12-24
MATRIX								SOIL	SOIL
SAMP_ID								123162	123163
DEPTH_TOP								2	6
DEPTH_BOT								4	8
SAMP_DATE								19-Oct-98	19-Oct-98
QC_CODE								SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	Step 1	Step 1
			DETECTION	4046	TAGM	DETECTS	ANALYSES		
Acenaphthene	UG/KG	0	0%	50000	0	0	12	240 U	250 U
Acenaphthylene	UG/KG	0	0%	41000	0	0	12	240 U	250 U
Anthracene	UG/KG	23	8%	50000	0	1	12	240 U	250 U
Benzo(a)anthracene	UG/KG	56	17%	224	0	2	12	240 U	250 U
Benzo(a)pyrene	UG/KG	55	8%	61	0	1	12	240 U	250 U
Benzo(b)fluoranthene	UG/KG	56	8%	1100	0	1	12	240 U	250 U
Benzo(ghi)perylene	UG/KG	32	8%	50000	0	1	12	240 U	250 U
Benzo(k)fluoranthene	UG/KG	61	8%	1100	0	1	12	240 U	250 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	12	240 U	250 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	12	240 U	250 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	12	240 U	250 U
Bis(2-Ethylhexyl)phthalate	UG/KG	120	25%	50000	0	3	12	240 U	250 U
Butylbenzylphthalate	UG/KG	160	17%	50000	0	2	12	240 U	250 U
Carbazole	UG/KG	27	8%		0	1	12	240 UJ	250 UJ
Chrysene	UG/KG	55	17%	400	0	2	12	240 U	250 U
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	12	1300 UJ	1000 UJ
Di-n-octylphthalate	UG/KG	6.8	17%	50000	0	2	12	240 U	250 U
Dibenz(a,h)anthracene	UG/KG	13	8%	14	0	1	12	240 U	250 U
Dibenzofuran	UG/KG	0	0%	6200	0	0	12	240 U	250 U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	12	240 U	250 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	12	240 U	250 U
Fluoranthene	UG/KG	150	25%	50000	0	3	12	240 U	250 U
Fluorene	UG/KG	19	8%	50000	0	1	12	240 U	250 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	12	240 U	250 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	12	240 U	250 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	12	240 U	250 U
Hexachloroethane	UG/KG	0	0%		0	0	12	240 U	250 U
Indeno(1,2,3-cd)pyrene	UG/KG	36	8%	3200	0	1	12	240 U	250 U
Isophorone	UG/KG	0	0%	4400	0	0	12	240 U	250 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	12	240 U	250 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	12	240 U	250 U

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY												
LOC_ID												
MATRIX												
SAMP_ID												
DEPTH_TOP												
DEPTH_BOT												
SAMP_DATE												
QC_CODE												
STUDY_ID												
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER					
			OF	TAGM	ABOVE	OF	OF	RI Phase 1	Step 1	RI Phase 1	Step 1	
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES					
Naphthalene	UG/KG	0	0%	13000	0	0	12	240 U		250 U		
Nitrobenzene	UG/KG	0	0%	200	0	0	12	240 U		250 U		
Pentachlorophenol	UG/KG	0	0%	1000	0	0	12	580 UJ		600 UJ		
Phenanthrene	UG/KG	120	25%	50000	0	3	12	240 U		250 U		
Phenol	UG/KG	0	0%	30	0	0	12	240 U		250 U		
Pyrene	UG/KG	100	25%	50000	0	3	12	240 U		250 U		
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	0	0%	2900	0	0	12	3.6 U		3.8 U		
4,4'-DDE	UG/KG	0	0%	2100	0	0	12	3.6 U		3.8 U		
4,4'-DDT	UG/KG	0	0%	2100	0	0	12	3.6 U		3.8 U		
Aldrin	UG/KG	0	0%	41	0	0	12	1.9 U		1.9 U		
Alpha-BHC	UG/KG	0	0%	110	0	0	12	1.9 U		1.9 U		
Alpha-Chlordane	UG/KG	0	0%		0	0	12	1.9 U		1.9 U		
Aroclor-1016	UG/KG	0	0%	10000	0	0	12	36 U		38 U		
Aroclor-1221	UG/KG	0	0%	10000	0	0	12	74 U		76 U		
Aroclor-1232	UG/KG	0	0%	10000	0	0	12	36 U		38 U		
Aroclor-1242	UG/KG	0	0%	10000	0	0	12	36 U		38 U		
Aroclor-1248	UG/KG	0	0%	10000	0	0	12	36 U		38 U		
Aroclor-1254	UG/KG	0	0%	10000	0	0	12	36 U		38 U		
Aroclor-1260	UG/KG	0	0%	10000	0	0	12	36 U		38 U		
Beta-BHC	UG/KG	0	0%	200	0	0	12	1.9 U		1.9 U		
Delta-BHC	UG/KG	0	0%	300	0	0	12	1.9 U		1.9 U		
Dieldrin	UG/KG	0	0%	44	0	0	12	3.6 U		3.8 U		
Endosulfan I	UG/KG	0	0%	900	0	0	12	1.9 U		1.9 U		
Endosulfan II	UG/KG	0	0%	900	0	0	12	3.6 U		3.8 U		
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	12	3.6 U		3.8 U		
Endrin	UG/KG	0	0%	100	0	0	12	3.6 U		3.8 U		
Endrin aldehyde	UG/KG	0	0%		0	0	12	3.6 U		3.8 U		
Endrin ketone	UG/KG	0	0%		0	0	12	3.6 U		3.8 U		
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	12	1.9 U		1.9 U		
Gamma-Chlordane	UG/KG	0	0%	540	0	0	12	1.9 U		1.9 U		

TABLE G-15  
EM-6 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	
LOC_ID								MW12-24	MW12-24	
MATRIX								SOIL	SOIL	
SAMP_ID								123162	123163	
DEPTH_TOP								2	6	
DEPTH_BOT								4	8	
SAMP_DATE								19-Oct-98	19-Oct-98	
QC_CODE								SA	SA	
STUDY_ID								RI Phase 1	RI Phase 1	
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	Step 1	Step 1	
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF			
			DETECTION	4046	TAGM	DETECTS	ANALYSES			
Heptachlor	UG/KG	0	0%	100	0	0	12	1.9 U	1.9 U	
Heptachlor epoxide	UG/KG	0	0%	20	0	0	12	1.9 U	1.9 U	
Methoxychlor	UG/KG	0	0%		0	0	12	19 U	19 U	
Toxaphene	UG/KG	0	0%		0	0	12	190 U	190 U	
<b>METALS</b>										
Aluminum	MG/KG	16500	100%	19520	0	12	12	9860 J	16500	
Antimony	MG/KG	0	0%	6	0	0	12	1.3 R	0.89 R	
Arsenic	MG/KG	6.4	100%	8.9	0	12	12	4.4	6.2	
Barium	MG/KG	130	100%	300	0	12	12	47.4	68.8	
Beryllium	MG/KG	0.68	92%	1.13	0	11	12	0.36 J	0.68 J	
Cadmium	MG/KG	0	0%	2.46	0	0	12	0.38 U	0.26 U	
Calcium	MG/KG	76300	100%	125300	0	12	12	20000	8240	
Chromium	MG/KG	29.6	100%	30	0	12	12	13.2 J	29.6 J	
Cobalt	MG/KG	36.3	100%	30	1	12	12	7.8 J	17.2	
Copper	MG/KG	28.7	100%	33	0	12	12	23.2	28.3	
Cyanide	MG/KG	0	0%	0.35	0	0	12	0.56 U	0.56 U	
Iron	MG/KG	40600	100%	37410	1	12	12	17400 J	34600 J	
Lead	MG/KG	34	100%	24.4	2	12	12	5 J	2.6 J	
Magnesium	MG/KG	15400	100%	21700	0	12	12	10500	6590	
Manganese	MG/KG	4110	100%	1100	1	12	12	424	564	
Mercury	MG/KG	0.06	8%	0.1	0	1	12	0.05 U	0.06 U	
Nickel	MG/KG	47.2	83%	50	0	10	12	12.5 UJ	36.8 UJ	
Potassium	MG/KG	1570	100%	2623	0	12	12	1160	1260	
Selenium	MG/KG	1.6	17%	2	0	2	12	0.48 U	0.43 J	
Silver	MG/KG	0.2	8%	0.8	0	1	12	0.25 U	0.2 J	
Sodium	MG/KG	197	75%	188	1	9	12	98.9 J	148 J	
Thallium	MG/KG	3.8	67%	0.855	7	8	12	1.1 U	0.75 J	
Vanadium	MG/KG	23.8	100%	150	0	12	12	18.7	23.8	
Zinc	MG/KG	391	100%	115	4	12	12	47.6 J	80.2 J	
<b>WET CHEMISTRY</b>										
Nitrate/Nitrite	%W/W									

TABLE G-15  
 EM-6 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID													
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-24 SOIL 123162 2 4 19-Oct-98 SA	RI Phase 1	Step 1	SEAD-12 MW12-24 SOIL 123163 6 8 19-Oct-98 SA	RI Phase 1	Step 1
Nitrate/Nitrite	MG/KG												
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%WW												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												



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TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12A-1	MW12-27	MW12-31	MW12-32	MW12-32
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								MW12A-1-00	123061	123172	123178	123175
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								6/10/1994	10/4/1998	26-Oct-98	26-Oct-98	26-Oct-98
QC_CODE								SA	SA	SA	DU	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	ESI	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF		Step 1	Step 1	Step 1	Step 1
VOLATILE ORGANICS			DETECTION	4046	TAGM	DETECTS	ANALYSE					
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	13 U	12 U	13 U	12 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	13 U	12 U	13 U	12 U	11 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	13 U	12 U	13 U	12 U	11 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	13 U	12 U	13 U	12 U	11 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	13 U	12 UJ	13 U	12 U	11 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
Acetone	UG/KG	55	29%	200	0	17	58	13 U	12 UJ	13 UJ	12 UJ	11 UJ
Benzene	UG/KG	0	0%	60	0	0	58	13 U	12 U	13 U	12 U	11 U
Bromodichloromethane	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
Bromoform	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	13 U	12 U	13 U	12 U	11 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	13 U	12 U	13 U	12 U	11 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	13 U	12 U	13 U	12 U	11 U
Chlorodibromomethane	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
Chloroethane	UG/KG	0	0%	1900	0	0	58	13 U	12 UJ	13 U	12 U	11 U
Chloroform	UG/KG	0	0%	300	0	0	58	13 U	12 U	13 U	12 U	11 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	13 U	12 U	13 U	12 U	11 U
Methyl bromide	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	13 U	12 U	13 UJ	12 UJ	11 UJ
Methyl chloride	UG/KG	0	0%		0	0	58	13 U	12 UJ	13 U	12 U	11 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	13 U	12 U	13 UJ	12 UJ	11 UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	13 U	12 U	13 U	12 U	11 U
Methylene chloride	UG/KG	0	0%	100	0	0	58	13 U	12 U	13 U	12 U	11 U
Styrene	UG/KG	0	0%		0	0	58	13 U	12 U	13 U	12 U	11 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	13 U	12 U	13 U	12 U	11 U
Toluene	UG/KG	14	10%	1500	0	6	58	13 U	12 U	13 U	4 J	11 U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	13 U	12 U	13 U	12 U	11 U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12A-1 SOIL MW12A-1-00	SEAD-12 MW12-27 SOIL 123061	SEAD-12 MW12-31 SOIL 123172	SEAD-12 MW12-32 SOIL 123178	SEAD-12 MW12-32 SOIL 123175	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	ESI	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	13 U		12 U	13 U	12 U	11 U	
Trichloroethene	UG/KG	0	0%	700	0	0	58	13 U	12 U	13 U	12 U	11 U		
Vinyl chloride	UG/KG	0	0%	200	0	0	58	13 U	12 UJ	13 U	12 U	11 U		
<b>SEMI VOLATILE ORGANICS</b>														
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	430 U	85 UJ	90 U	90 U	87 U		
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	430 U	85 UJ	90 U	90 U	87 U		
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	430 U	85 UJ	90 U	90 U	87 U		
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	430 U	85 UJ	90 U	90 U	87 U		
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	430 U	200 U	220 U	220 U	210 U		
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	1000 U	85 U	90 U	90 U	87 U		
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	430 U	85 U	90 U	90 U	87 U		
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	430 U	85 U	90 U	90 U	87 U		
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	430 U	200 U	220 U	220 U	210 U		
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	1000 U	85 U	90 U	90 U	87 U		
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	430 U	85 U	90 U	90 U	87 U		
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	430 U	85 U	90 U	90 U	87 U		
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	430 U	85 U	90 U	90 U	87 U		
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	430 U	85 U	90 U	90 U	87 U		
2-Methylphenol	UG/KG	36	3%	100	0	2	58	430 U	85 U	90 U	5.8 J	87 U		
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	430 U	200 U	220 U	220 U	210 U		
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	1000 U	85 UJ	90 U	90 U	87 U		
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	430 U	85 U	90 U	90 U	87 U		
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	430 U	200 U	220 U	220 U	210 U		
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	1000 U	200 U	220 U	220 U	210 U		
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	1000 U	85 U	90 U	90 U	87 U		
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	430 U	85 U	90 U	90 U	87 U		
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	430 U	85 UJ	90 UJ	90 UJ	87 UJ		
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	430 U	85 U	90 U	90 U	87 U		
4-Methylphenol	UG/KG	930	7%	900	1	4	58	430 U	85 U	15 J	90 U	87 U		
4-Nitroaniline	UG/KG	0	0%		0	0	58	430 U	200 U	220 U	220 U	210 U		
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	1000 U	200 U	220 U	220 U	210 U		

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12A-1 SOIL MW12A-1-00	SEAD-12 MW12-27 SOIL 123061	SEAD-12 MW12-31 SOIL 123172	SEAD-12 MW12-32 SOIL 123178	SEAD-12 MW12-32 SOIL 123175			
									6/10/1994 SA	10/4/1998 SA	26-Oct-98 SA	26-Oct-98 DU	26-Oct-98 SA			
			FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	ESI	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1
PARAMETER	UNIT	MAXIMU														
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	1000 U		85 U	90 U	90 U	87 U			
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	430 U		85 U	90 U	90 U	87 U			
Anthracene	UG/KG	1500	16%	50000	0	9	58	430 U		85 U	90 U	5.1 J	87 U			
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	430 U		6.8 J	12 J	24 J	19 J			
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	430 U		8.1 J	11 J	23 J	17 J			
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	430 U		10 J	15 J	38 J	28 J			
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	430 U		85 UJ	13 J	20 J	16 J			
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	430 U		10 J	12 J	31 J	22 J			
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58	430 U		85 U	90 U	90 U	87 U			
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58	430 U		85 U	90 U	90 U	87 U			
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58	430 U		85 U	90 U	90 U	87 U			
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	430 U		85 UJ	90 U	90 U	87 U			
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	430 U		85 UJ	90 U	90 U	87 U			
Carbazole	UG/KG	1100	22%		0	13	58	430 U		85 UJ	90 U	9.2 J	5.6 J			
Chrysene	UG/KG	3600	93%	400	3	54	58	430 U		11 J	18 J	42 J	31 J			
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	430 U		85 U	90 U	90 U	87 U			
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	430 U		85 UJ	90 U	13 J	87 U			
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	430 U		85 UJ	90 U	6.9 J	4.6 J			
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	430 U		85 U	90 U	90 U	87 U			
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	430 U		85 U	90 U	90 U	87 U			
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	430 U		85 U	90 U	90 U	87 U			
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	430 U		13 J	24 J	59 J	48 J			
Fluorene	UG/KG	830	9%	50000	0	5	58	430 U		85 U	90 U	90 U	87 U			
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	430 U		85 U	90 U	90 U	87 U			
Hexachlorobutadiene	UG/KG	0	0%		0	0	58	430 U		85 UJ	90 U	90 U	87 U			
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58	430 U		85 U	90 U	90 U	87 U			
Hexachloroethane	UG/KG	0	0%		0	0	58	430 U		85 UJ	90 U	90 U	87 U			
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	430 U		85 UJ	8.1 J	19 J	14 J			
Isophorone	UG/KG	0	0%	4400	0	0	58	430 U		85 U	90 U	90 U	87 U			
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58	430 U		85 U	90 U	90 U	87 U			
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58	430 U		85 U	90 U	90 U	87 U			

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12		
LOC_ID								MW12A-1	MW12-27	MW12-31	MW12-32	MW12-32		
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL		
SAMP_ID								MW12A-1-00	123061	123172	123178	123175		
DEPTH_TOP								0	0	0	0	0		
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2		
SAMP_DATE								6/10/1994	10/4/1998	26-Oct-98	26-Oct-98	26-Oct-98		
QC_CODE								SA	SA	SA	DU	SA		
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	ESI	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF							
			DETECTION	4046	TAGM	DETECTS	ANALYSE							
Naphthalene	UG/KG	540	9%	13000	0	5	58	430 U	85 U	90 U	90 U	87 U		
Nitrobenzene	UG/KG	0	0%	200	0	0	58	430 U	85 U	90 U	90 U	87 U		
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	1000 U	200 U	220 U	220 U	210 U		
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	430 U	10 J	9 J	27 J	16 J		
Phenol	UG/KG	42	29%	30	2	17	58	430 U	19 J	90 U	90 U	87 U		
Pyrene	UG/KG	7000	93%	50000	0	54	58	430 U	16 J	25 J	61 J	46 J		
<b>PESTICIDES/PCBS</b>														
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
Aldrin	UG/KG	0	0%	41	0	0	58	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U		
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.2 U	2.2 U	2.4	24	51		
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U		
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	43 U	42 U	45 U	45 U	43 U		
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	87 U	86 U	92 U	92 U	88 U		
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	43 U	42 U	45 U	45 U	43 U		
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	43 U	42 U	45 U	45 U	43 U		
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	43 U	42 U	45 U	45 U	43 U		
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	43 U	42 U	45 U	45 U	43 U		
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	43 U	42 U	45 U	45 U	43 U		
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.2 U	2.2 U	2.3 U	3.9	6.1		
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U		
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U		
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
Endrin	UG/KG	5.8	5%	100	0	3	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
Endrin aldehyde	UG/KG	0	0%		0	0	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
Endrin ketone	UG/KG	0	0%		0	0	58	4.3 U	4.2 U	4.5 U	4.5 U	4.3 U		
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.2 U	2.2 U	2.3 U	2.3 U	17		
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U		

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12		
LOC_ID								MW12A-1	MW12-27	MW12-31	MW12-32	MW12-32		
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL		
SAMP_ID								MW12A-1-00	123061	123172	123178	123175		
DEPTH_TOP								0	0	0	0	0		
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2		
SAMP_DATE								6/10/1994	10/4/1998	26-Oct-98	26-Oct-98	26-Oct-98		
QC_CODE								SA	SA	SA	DU	SA		
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	ESI	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF							
			DETECTION	4046	TAGM	DETECTS	ANALYSE							
Heptachlor	UG/KG	0	0%	100	0	0	58	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U		
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U		
Methoxychlor	UG/KG	0	0%	0	0	0	58	22 U	22 U	23 U	23 U	22 U		
Toxaphene	UG/KG	0	0%	0	0	0	58	220 U	220 U	230 U	230 U	220 U		
<b>METALS</b>														
Aluminum	MG/KG	18700	100%	19520	0	58	58	18700	14800	16700	14500	12300		
Antimony	MG/KG	1.6	3%	6	0	2	58	0.22 UJ	1.2 R	1.5 R	1.5 R	1.3 R		
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	5.2	5.2	4.6	2.5	3.9		
Barium	MG/KG	146	100%	300	0	58	58	125	77.3	86.2	126	111		
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.8 J	0.47 J	0.67 J	0.71 J	0.61 J		
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.86	0.06 U	0.44 U	0.43 U	0.37 U		
Calcium	MG/KG	154000	100%	125300	1	58	58	3370	1690	4800	8100	7610		
Chromium	MG/KG	26.8	100%	30	0	58	58	23.1	22.8	23.1 J	21.3 J	19.8 J		
Cobalt	MG/KG	17.1	100%	30	0	58	58	10.9	13	9.4 J	12.2	11.7		
Copper	MG/KG	35.4	100%	33	3	58	58	19.1	16.9	18.5	26.2	21.1		
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.6 U	0.62 U	0.71 U	0.69 U	0.66 U		
Iron	MG/KG	31500	100%	37410	0	58	58	23500	25200	25100 J	24500	22400 J		
Lead	MG/KG	43.8	100%	24.4	16	58	58	21.6	27.5	17.1 J	15.9 J	14.6 J		
Magnesium	MG/KG	15700	100%	21700	0	58	58	3880	3790 J	3620	4440	3750		
Manganese	MG/KG	2370	100%	1100	4	58	58	939	936	408	2280	2370		
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.06 J	0.06 U	0.07 U	0.07 U	0.07 J		
Nickel	MG/KG	57.4	95%	50	2	55	58	25.7	28.2	19.9 UJ	28 UJ	23.6 UJ		
Potassium	MG/KG	2970	100%	2623	2	58	58	2500 J	1220	1810	1610	1110		
Selenium	MG/KG	2.3	43%	2	2	25	58	1.2	1.5 J	0.56 U	2.1	1.6		
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.09 U	0.24 U	0.29 U	0.29 U	0.25 U		
Sodium	MG/KG	153	22%	188	0	13	58	16.9 U	50.7 U	153 J	60.4 U	82.7 J		
Thallium	MG/KG	2.5	31%	0.855	18	18	58	0.32 U	1 U	1.3 UJ	1.3 J	1.1 UJ		
Vanadium	MG/KG	33.1	100%	150	0	58	58	33.1	22.5	24.2	22.8	20.3		
Zinc	MG/KG	197	100%	115	5	58	58	77.8	73.1	28.000 J	110 J	98.8 J		
<b>WET CHEMISTRY</b>														
Nitrate/Nitrite	%W/W													

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	ESI	SEAD-12 MW12-27 SOIL 123061 0 0.2 10/4/1998 SA RI Phase 1 Step 1	SEAD-12 MW12-31 SOIL 123172 0 0.2 26-Oct-98 SA RI Phase 1 Step 1	SEAD-12 MW12-32 SOIL 123178 0 0.2 26-Oct-98 DU RI Phase 1 Step 1	SEAD-12 MW12-32 SOIL 123175 0 0.2 26-Oct-98 SA RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	ESI	SEAD-12 MW12-27 SOIL 123061 0 0.2 10/4/1998 SA RI Phase 1 Step 1	SEAD-12 MW12-31 SOIL 123172 0 0.2 26-Oct-98 SA RI Phase 1 Step 1	SEAD-12 MW12-32 SOIL 123178 0 0.2 26-Oct-98 DU RI Phase 1 Step 1	SEAD-12 MW12-32 SOIL 123175 0 0.2 26-Oct-98 SA RI Phase 1 Step 1
Nitrate/Nitrite	MG/KG											
pH	SU											
TOC-Soil 9060	MG/KG											
Percent Solids	%W/W											
Percent Solids	MG/KG											
Cation exchange capacity	meq/100g											

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								MW12-37	MW12-37	MW12-40	SS12-19	SS12-20
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123201	123210	123121	123104	123214
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								01-Nov-98	01-Nov-98	14-Oct-98	13-Oct-98	03-Nov-98
QC_CODE								SA	SA	SA	SA	SA
STUDY_ID								RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF					
VOLATILE ORGANICS			DETECTION	4046	TAGM	DETECTS	ANALYSE					
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	11 U	12 U	12 U	12 U	14 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	11 UJ	12 U	12 U	12 UJ	14 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 UJ	14 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	11 U	12 U	12 U	12 U	14 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	11 U	12 U	12 U	12 U	14 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	11 U	12 U	12 U	12 UJ	14 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 U	14 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 UJ	14 U
Acetone	UG/KG	55	29%	200	0	17	58	8 J	15	12 U	12 U	5 J
Benzene	UG/KG	0	0%	60	0	0	58	11 U	12 U	12 U	12 UJ	14 U
Bromodichloromethane	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 UJ	14 U
Bromoform	UG/KG	0	0%		0	0	58	11 UJ	12 U	12 U	12 UJ	14 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	11 U	12 U	12 U	12 U	14 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	11 U	12 U	12 U	12 U	14 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	11 UJ	12 U	12 U	12 UJ	14 U
Chlorodibromomethane	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 UJ	14 U
Chloroethane	UG/KG	0	0%	1900	0	0	58	11 U	12 U	12 U	12 U	14 U
Chloroform	UG/KG	0	0%	300	0	0	58	11 U	12 U	12 U	12 U	14 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 UJ	14 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	11 UJ	12 U	12 U	12 UJ	14 U
Methyl bromide	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 U	14 U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 UJ	14 UJ
Methyl chloride	UG/KG	0	0%		0	0	58	11 U	12 U	12 U	12 U	14 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	11 U	12 U	12 U	12 U	14 UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	11 U	12 U	12 U	12 UJ	14 U
Methylene chloride	UG/KG	0	0%	100	0	0	58	11 U	12 U	12 U	12 U	14 U
Styrene	UG/KG	0	0%		0	0	58	11 UJ	12 U	12 U	12 UJ	14 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	11 U	12 U	12 U	12 UJ	14 U
Toluene	UG/KG	14	10%	1500	0	6	58	14	12 U	12 U	12 UJ	14 U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	11 UJ	12 U	12 U	12 UJ	14 U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-40 SOIL	SEAD-12 SS12-19 SOIL	SEAD-12 SS12-20 SOIL				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1		
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	11	U	12	U	12	U	12	UJ	14	U
Trichloroethene	UG/KG	0	0%	700	0	0	58	11	U	12	U	12	U	12	UJ	14	U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	11	U	12	U	12	U	12	U	14	U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	1500	U	390	U	86	U	78	UJ	88	UJ
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	1500	U	390	U	86	U	78	U	88	UJ
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	1500	U	390	U	86	U	78	U	88	UJ
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	1500	U	390	U	86	U	78	U	88	UJ
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	3700	U	940	U	210	U	190	U	210	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	1500	U	390	U	86	U	78	U	88	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	1500	U	390	U	86	UJ	78	U	88	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	3700	R	940	R	210	UJ	190	UJ	210	R
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	UJ
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	1500	U	390	U	86	U	78	U	88	UJ
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	UJ
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	1500	U	390	U	86	U	78	U	88	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	160	J	36	J	86	U	8.9	J	88	UJ
2-Methylphenol	UG/KG	36	3%	100	0	2	58	1500	U	390	U	86	U	78	U	88	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	3700	U	940	U	210	U	190	U	210	UJ
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	1500	U	390	U	86	U	78	U	88	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	1500	UJ	390	UJ	86	U	78	U	88	UJ
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	3700	UJ	940	UJ	210	U	190	U	210	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	3700	UJ	940	UJ	210	U	190	U	210	UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	1500	U	390	U	86	U	78	U	88	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	1500	U	390	U	86	UJ	78	U	88	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	UJ
4-Methylphenol	UG/KG	930	7%	900	1	4	58	1500	U	390	U	86	U	78	U	88	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	3700	UJ	940	UJ	210	UJ	190	U	210	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	3700	U	940	U	210	U	190	UJ	210	U



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-40 SOIL	SEAD-12 SS12-19 SOIL	SEAD-12 SS12-20 SOIL				
									123201	123210	123121	123104	123214				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									01-Nov-98	01-Nov-98	14-Oct-98	13-Oct-98	03-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	1200	J	280	J	86	U	73	J	88	UJ
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	1500	U	390	U	86	U	78	U	88	UJ
Anthracene	UG/KG	1500	16%	50000	0	9	58	1500	J	270	J	86	U	84	U	88	UJ
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	3500	J	980	J	6	J	220	J	8	J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	3200	J	890	J	86	U	100	J	10	J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	2800	J	870	J	86	U	190	J	13	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	2000	J	520	J	86	UJ	96	J	7.4	J
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	2900	J	900	J	86	U	180	J	10	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	1500	UJ	390	UJ	86	U	78	U	7.6	J
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	1500	UJ	390	UJ	86	U	78	U	88	UJ
Carbazole	UG/KG	1100	22%		0	13	58	1100	J	260	J	86	UJ	94	J	88	UJ
Chrysene	UG/KG	3600	93%	400	3	54	58	3600	J	1000	J	17	J	250	J	11	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	1500	U	390	U	86	U	78	U	7	J
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	1500	U	390	U	15	J	78	U	88	U
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	680	J	190	J	86	UJ	40	J	88	U
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	500	J	110	J	86	U	25	J	88	UJ
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	1500	U	390	U	86	U	78	U	88	UJ
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	1500	U	390	U	86	U	78	U	88	UJ
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	8500	J	2200	J	19	J	490	J	19	J
Fluorene	UG/KG	830	9%	50000	0	5	58	830	J	190	J	86	U	48	J	88	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	1500	U	390	U	86	U	78	U	88	UJ
Hexachlorobutadiene	UG/KG	0	0%		0	0	58	1500	U	390	U	86	UJ	78	UJ	88	UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	UJ	88	U
Hexachloroethane	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	1700	J	500	J	86	UJ	94	J	7.3	J
Isophorone	UG/KG	0	0%	4400	0	0	58	1500	U	390	U	86	U	78	U	88	UJ
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58	1500	U	390	U	86	U	78	U	88	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-40 SOIL	SEAD-12 SS12-19 SOIL	SEAD-12 SS12-20 SOIL				
									123201	123210	123121	123104	123214				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									01-Nov-98	01-Nov-98	14-Oct-98	13-Oct-98	03-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1		
Naphthalene	UG/KG	540	9%	13000	0	5	58	540	J	100	J	86	U	20	J	88	UJ
Nitrobenzene	UG/KG	0	0%	200	0	0	58	1500	U	390	U	86	U	78	UJ	88	UJ
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	3700	U	940	U	210	UJ	190	UJ	210	U
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	7500	U	1800	U	9.6	J	500	U	11	J
Phenol	UG/KG	42	29%	30	2	17	58	1500	U	390	U	86	U	78	U	88	U
Pyrene	UG/KG	7000	93%	50000	0	54	58	7000	U	2200	U	15	J	370	U	16	J
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	3.9	U	3.9	U	4.3	U	3.9	U	4.4	U
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	3.2	J	3.1	J	4.3	U	3.9	U	4.4	U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4	J	3.5	J	4.3	U	5.1	U	4.4	U
Aldrin	UG/KG	0	0%	41	0	0	58	2	U	2	U	2.2	U	2	U	2.3	U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2	U	2	U	2.2	U	2	U	2.3	U
Alpha-Chlordane	UG/KG	2.8	3%	0	0	2	58	2	U	2	U	2.2	U	2	U	2.3	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	39	U	39	U	43	U	39	U	44	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	79	U	79	U	87	U	79	U	89	U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	39	U	39	U	43	U	39	U	44	U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	39	U	39	U	43	U	39	U	44	U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	39	U	39	U	43	U	39	U	44	U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	39	U	39	U	43	U	64	U	44	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	39	U	39	U	43	U	39	U	44	U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2	U	2	U	2.2	U	2	U	2.3	U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2	U	2	U	2.2	U	2	U	2.3	U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	3.9	U	3.9	U	4.3	U	3.9	U	4.4	U
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2	U	2	U	2.2	U	2	U	2.3	U
Endosulfan II	UG/KG	3	3%	900	0	2	58	3.9	U	3.9	U	4.3	U	3.9	U	4.4	U
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	3.9	U	3.5	J	4.3	U	3.9	U	4.4	U
Endrin	UG/KG	5.8	5%	100	0	3	58	3.9	U	3.9	U	4.3	U	3.9	U	4.4	U
Endrin aldehyde	UG/KG	0	0%	0	0	0	58	3.9	U	3.9	U	4.3	U	3.9	U	4.4	U
Endrin ketone	UG/KG	0	0%	0	0	0	58	3.9	U	3.9	U	4.3	U	3.9	U	4.4	U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2	U	2	U	2.2	U	2	U	2.3	U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	1.2	J	2	U	2.2	U	2	U	2.3	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-40 SOIL	SEAD-12 SS12-19 SOIL	SEAD-12 SS12-20 SOIL
									123201	123210	123121	123104	123214
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									01-Nov-98	01-Nov-98	14-Oct-98	13-Oct-98	03-Nov-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Heptachlor	UG/KG	0	0%	100	0	0	58	2 U	2 U	2.2 U	2 U	2.3 U	
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	6.5	5.4 J	2.2 U	2 U	2.3 U	
Methoxychlor	UG/KG	0	0%	0	0	0	58	20 U	20 U	22 U	20 U	23 U	
Toxaphene	UG/KG	0	0%	0	0	0	58	200 U	200 U	220 U	200 U	230 U	
<b>METALS</b>													
Aluminum	MG/KG	18700	100%	19520	0	58	58	6440	6610	13500 J	10300	13800	
Antimony	MG/KG	1.6	3%	6	0	2	58	1.1 UJ	0.96 UJ	1 R	1.4 R	1.3 UJ	
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	1.9	2.6	4.3 J	2.7	3.6	
Barium	MG/KG	146	100%	300	0	58	58	36.8	40.4	80	58.1	100	
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.22 J	0.23 J	0.56 J	0.45 J	0.63 J	
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.05 U	0.05 U	0.05 U	0.07 U	0.06 U	
Calcium	MG/KG	154000	100%	125300	1	58	58	21700	34200	13200 J	53100 J	4600	
Chromium	MG/KG	26.8	100%	30	0	58	58	13.1	13.5	22.3	18.7	19.7	
Cobalt	MG/KG	17.1	100%	30	0	58	58	6.8 J	6.5 J	12.9	9.7 J	10.9	
Copper	MG/KG	35.4	100%	33	3	58	58	13	15.6	24.3	25	21.9	
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.59 U	0.64 U	0.69 U	0.61 U	0.69 U	
Iron	MG/KG	31500	100%	37410	0	58	58	13100 J	14000 J	30900	21700 J	23200 J	
Lead	MG/KG	43.8	100%	24.4	16	58	58	25.2 J	24.8 J	18.3 J	19.4	22.8 J	
Magnesium	MG/KG	15700	100%	21700	0	58	58	7410	10600	5710 J	5860	3800	
Manganese	MG/KG	2370	100%	1100	4	58	58	401 J	423 J	475	393	667 J	
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.05 U	0.05 U	0.06 U	0.07 J	0.1 J	
Nickel	MG/KG	57.4	95%	50	2	55	58	15.1	16.1	40.6 J	33.5	29.2	
Potassium	MG/KG	2970	100%	2623	2	58	58	628 J	627 J	1320	1210	1380	
Selenium	MG/KG	2.3	43%	2	2	25	58	0.83 U	0.72 U	0.76 J	1 U	0.96 U	
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.22 U	0.19 U	0.24 J	0.27 U	0.25 U	
Sodium	MG/KG	153	22%	188	0	13	58	45.7 U	39.6 U	68.5 J	121 J	52.5 U	
Thallium	MG/KG	2.5	31%	0.855	18	18	58	0.94 U	0.82 U	1.2 J	1.2 U	1.8 J	
Vanadium	MG/KG	33.1	100%	150	0	58	58	11	11.4	21.1	17.3	23.1	
Zinc	MG/KG	197	100%	115	5	58	58	52.5 J	56.9 J	90.6 J	85.1 J	81.2 J	
<b>WET CHEMISTRY</b>													
Nitrate/Nitrite	%W/W												

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-40 SOIL	SEAD-12 SS12-19 SOIL	SEAD-12 SS12-20 SOIL
									123201	123210	123121	123104	123214
				0	0				0	0	0	0	0
				0.2	0.2				0.2	0.2	0.2	0.2	0.2
						01-Nov-98			01-Nov-98	01-Nov-98	14-Oct-98	13-Oct-98	03-Nov-98
						SA			SA	SA	SA	SA	SA
								RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Nitrate/Nitrite	MG/KG												
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%W/W												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-21 SOIL	SEAD-12 SS12-22 SOIL	SEAD-12 SS12-23 SOIL	SEAD-12 SS12-24 SOIL	SEAD-12 SS12-25 SOIL				
									123215	123216	123217	123218	123219				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
<b>VOLATILE ORGANICS</b>																	
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	13	U	12	U	14	U	12	U	12	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	13	U	12	U	14	U	12	U	12	U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	13	U	12	U	14	U	12	U	12	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	13	U	12	U	14	U	12	U	12	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	13	U	12	U	14	U	12	U	12	U
1,2-Dichloroethene (total)	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Acetone	UG/KG	55	29%	200	0	17	58	13	U	12	U	14	U	12	U	7	J
Benzene	UG/KG	0	0%	60	0	0	58	13	U	12	U	14	U	12	U	12	U
Bromodichloromethane	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Bromoform	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	13	U	12	U	14	U	12	U	12	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	13	U	12	U	14	U	12	U	12	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	13	U	12	U	14	U	12	U	12	U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Chloroethane	UG/KG	0	0%	1900	0	0	58	13	U	12	U	14	U	12	U	12	U
Chloroform	UG/KG	0	0%	300	0	0	58	13	U	12	U	14	U	12	U	12	U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	13	U	12	U	14	U	12	U	12	U
Methyl bromide	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Methyl chloride	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	13	U	12	U	14	U	12	U	12	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	13	U	12	U	14	U	12	U	12	U
Methylene chloride	UG/KG	0	0%	100	0	0	58	13	U	12	U	14	U	12	U	12	U
Styrene	UG/KG	0	0%	0	0	0	58	13	U	12	U	14	U	12	U	12	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	13	U	12	U	14	U	12	U	12	U
Toluene	UG/KG	14	10%	1500	0	6	58	13	U	12	U	14	U	12	U	12	U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	13	U	12	U	14	U	12	U	12	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-21 SOIL	SEAD-12 SS12-22 SOIL	SEAD-12 SS12-23 SOIL	SEAD-12 SS12-24 SOIL	SEAD-12 SS12-25 SOIL		
									123215	123216	123217	123218	123219		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	13	U	12	U	14	U	12	U
Trichloroethene	UG/KG	0	0%	700	0	0	58	13	U	12	U	14	U	12	U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	13	U	12	U	14	U	12	U
<b>SEMI VOLATILE ORGANICS</b>															
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	210	U	200	U	210	U	190	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	88	U	81	U	88	U	78	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	88	U	81	U	88	U	78	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	210	R	200	R	210	R	190	R
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	88	U	81	U	88	U	78	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	88	UJ	81	UJ	88	UJ	78	UJ
2-Methylphenol	UG/KG	36	3%	100	0	2	58	88	U	81	U	88	U	78	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	210	UJ	200	UJ	210	UJ	190	UJ
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	88	U	81	U	88	U	78	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	210	UJ	200	UJ	210	UJ	190	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	210	UJ	200	UJ	210	UJ	190	UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	88	UJ	81	UJ	88	UJ	78	UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	88	U	81	U	88	U	78	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	88	U	81	U	88	U	78	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	88	U	81	UJ	88	UJ	78	UJ
4-Methylphenol	UG/KG	930	7%	900	1	4	58	88	U	81	U	88	U	78	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	210	UJ	200	UJ	210	UJ	190	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	210	U	200	U	210	U	190	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOC_ID									SS12-21	SS12-22	SS12-23	SS12-24	SS12-25				
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL				
SAMP_ID									123215	123216	123217	123218	123219				
DEPTH_TOP									0	0	0	0	0				
DEPTH_BOT									0.2	0.2	0.2	0.2	0.2				
SAMP_DATE									03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98				
QC_CODE									SA	SA	SA	SA	SA				
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
			OF	TAGM	ABOVE	OF	OF		Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE										
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Anthracene	UG/KG	1500	16%	50000	0	9	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	7.6	J	81	UJ	10	J	78	UJ	4.4	J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	9.6	J	81	UJ	14	J	78	UJ	5.6	J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	11	J	4.5	J	20	J	4	J	6.3	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	8.3	J	81	U	12	J	78	U	87	U
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	10	J	81	U	14	J	78	U	7.4	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	58	88	U	81	U	88	U	78	U	87	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	7.1	J	81	UJ	9.1	J	78	UJ	87	UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Carbazole	UG/KG	1100	22%	0	0	13	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Chrysene	UG/KG	3600	93%	400	3	54	58	11	J	81	UJ	17	J	78	UJ	6.7	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	6.7	J	5.5	J	7.5	J	6	J	4.6	J
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	88	U	81	U	88	U	78	U	87	U
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	88	U	81	U	88	U	78	U	87	U
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	19	J	5.8	J	30	J	4.5	J	12	J
Fluorene	UG/KG	830	9%	50000	0	5	58	88	U	81	U	88	U	78	U	87	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ	87	U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	58	88	U	81	U	88	U	78	U	87	U
Hexachloroethane	UG/KG	0	0%	0	0	0	58	88	U	81	U	88	U	78	U	87	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	9.2	J	81	U	10	J	78	U	4.5	J
Isophorone	UG/KG	0	0%	4400	0	0	58	88	UJ	81	UJ	88	UJ	78	UJ	87	UJ
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	58	88	U	81	U	88	U	78	U	87	U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	58	88	U	81	U	88	U	78	U	87	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								SS12-21	SS12-22	SS12-23	SS12-24	SS12-25
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123215	123216	123217	123218	123219
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98	03-Nov-98
QC_CODE								SA	SA	SA	SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE					
Naphthalene	UG/KG	540	9%	13000	0	5	58	88 UJ	81 UJ	88 UJ	78 UJ	87 UJ
Nitrobenzene	UG/KG	0	0%	200	0	0	58	88 UJ	81 UJ	88 UJ	78 UJ	87 UJ
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	210 U	200 U	210 U	190 U	210 U
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	9.6 J	81 U	15 J	78 U	6 J
Phenol	UG/KG	42	29%	30	2	17	58	88 U	81 U	88 U	78 U	87 U
Pyrene	UG/KG	7000	93%	50000	0	54	58	15 J	5.4 J	22 J	78 U	8.8 J
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4.4 U	4.1 U	4.4 U	3.9 U	2.8 J
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.4 U	4.1 U	4.4 U	3.9 U	4.3 U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.4 U	4.1 U	4.4 U	3.9 U	4.3 U
Aldrin	UG/KG	0	0%	41	0	0	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	44 U	41 U	44 U	39 U	43 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	89 U	83 U	89 U	79 U	88 U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	44 U	41 U	44 U	39 U	43 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	44 U	41 U	44 U	39 U	43 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	44 U	41 U	44 U	39 U	43 U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	44 U	41 U	44 U	39 U	43 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	44 U	41 U	44 U	39 U	43 U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.4 U	4.1 U	4.4 U	3.9 U	4.3 U
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.4 U	4.1 U	4.4 U	3.9 U	4.3 U
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.4 U	4.1 U	4.4 U	3.9 U	4.3 U
Endrin	UG/KG	5.8	5%	100	0	3	58	4.4 U	4.1 U	4.4 U	3.9 U	3 J
Endrin aldehyde	UG/KG	0	0%		0	0	58	4.4 U	4.1 U	4.4 U	3.9 U	4.3 U
Endrin ketone	UG/KG	0	0%		0	0	58	4.4 U	4.1 U	4.4 U	3.9 U	4.3 U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.3 U	2.1 U	2.3 U	2 U	2.2 U



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-21 SOIL	SEAD-12 SS12-22 SOIL	SEAD-12 SS12-23 SOIL	SEAD-12 SS12-24 SOIL	SEAD-12 SS12-25 SOIL				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1		
Heptachlor	UG/KG	0	0%	100	0	0	58	2.3	U	2.1	U	2.3	U	2	U	2.2	U
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.3	U	2.1	U	2.3	U	2	U	2.2	U
Methoxychlor	UG/KG	0	0%	0	0	0	58	23	U	21	U	23	U	20	U	22	U
Toxaphene	UG/KG	0	0%	0	0	0	58	230	U	210	U	230	U	200	U	220	U
<b>METALS</b>																	
Aluminum	MG/KG	18700	100%	19520	0	58	58	13800		12200		14500		12600		11300	
Antimony	MG/KG	1.6	3%	6	0	2	58	1.3	UJ	1.1	UJ	1.2	UJ	1	UJ	1.3	UJ
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	3.3		3		2		3.1		4	
Barium	MG/KG	146	100%	300	0	58	58	106		50.5		145		75.2		83	
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.65	J	0.5	J	0.84	J	0.58	J	0.5	J
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.06	U	0.06	U	0.06	U	0.05	U	0.07	U
Calcium	MG/KG	154000	100%	125300	1	58	58	4880		3170		6120		2960		3200	
Chromium	MG/KG	26.8	100%	30	0	58	58	19.2		18.4		19.6		19.8		18	
Cobalt	MG/KG	17.1	100%	30	0	58	58	9.9	J	10		8.2	J	12.4		11.1	
Copper	MG/KG	35.4	100%	33	3	58	58	20.7		22.1		29		23.1		26.7	
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.65	U	0.62	U	0.68	U	0.6	U	0.67	U
Iron	MG/KG	31500	100%	37410	0	58	58	22800	J	23500	J	20400	J	23200	J	22600	J
Lead	MG/KG	43.8	100%	24.4	16	58	58	24.8		20.3		23.7		16.1	J	22.9	J
Magnesium	MG/KG	15700	100%	21700	0	58	58	4120		3990		4160		4320		3790	
Manganese	MG/KG	2370	100%	1100	4	58	58	456	J	333	J	220	J	420	J	659	J
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.06	U	0.06	J	0.07	J	0.06	U	0.07	J
Nickel	MG/KG	57.4	95%	50	2	55	58	25.7		28.1		26.8		32.5		33.6	
Potassium	MG/KG	2970	100%	2623	2	58	58	1940		1200		1780		1270		1670	
Selenium	MG/KG	2.3	43%	2	2	25	58	0.98	J	0.86	U	0.89	U	0.78	UJ	1	UJ
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.25	U	0.23	U	0.23	U	0.2	U	0.26	U
Sodium	MG/KG	153	22%	188	0	13	58	53.5	U	47.3	U	70.5	J	42.5	U	55	U
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.1	J	0.98	U	1	U	1.5	J	1.3	J
Vanadium	MG/KG	33.1	100%	150	0	58	58	25		20.4		23.9		20.5		20	
Zinc	MG/KG	197	100%	115	5	58	58	79.2	J	72.9	J	74.3	J	58.4	J	82.4	J
<b>WET CHEMISTRY</b>																	
Nitrate/Nitrite	%WW																

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	SEAD-12 SS12-21 SOIL	SEAD-12 SS12-22 SOIL	SEAD-12 SS12-23 SOIL	SEAD-12 SS12-24 SOIL	SEAD-12 SS12-25 SOIL	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
			123215	0	0.2	03-Nov-98			Nitrate/Nitrite	MG/KG																
			123216	0	0.2	03-Nov-98			pH	SU																
			123217	0	0.2	03-Nov-98			TOC-Soil 9060	MG/KG																
			123218	0	0.2	03-Nov-98			Percent Solids	%WW																
			123219	0	0.2	03-Nov-98			Percent Solids	MG/KG																
									Cation exchange capacity	meq/100g																

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-26 SOIL	SEAD-12 SS12-27 SOIL	SEAD-12 SS12-27 SOIL	SEAD-12 SS12-28 SOIL	SEAD-12 SS12-29 SOIL
									123220	123224	123223	123225	123226
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									03-Nov-98	09-Nov-98	04-Nov-98	09-Nov-98	09-Nov-98
									SA	DU	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
<b>VOLATILE ORGANICS</b>													
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	13 U		13 U	15 U	13 U	17 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	13 U		13 U	15 UJ	13 U	17 UJ
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	13 U		13 U	15 U	13 U	17 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	13 U		13 U	15 U	13 U	17 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	13 U		13 U	15 U	13 U	17 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
Acetone	UG/KG	55	29%	200	0	17	58	11 J		13 UJ	15 UJ	13 UJ	17 UJ
Benzene	UG/KG	0	0%	60	0	0	58	13 U		13 U	15 U	13 U	17 U
Bromodichloromethane	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
Bromoform	UG/KG	0	0%		0	0	58	13 U		13 U	15 UJ	13 U	17 UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	13 U		13 U	15 U	13 U	17 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	13 U		13 U	15 U	13 U	17 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	13 U		13 U	15 UJ	13 U	17 UJ
Chlorodibromomethane	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
Chloroethane	UG/KG	0	0%	1900	0	0	58	13 U		13 U	15 U	13 U	17 U
Chloroform	UG/KG	0	0%	300	0	0	58	13 U		13 U	15 U	13 U	17 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	13 U		13 U	15 UJ	13 U	17 UJ
Methyl bromide	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	13 UJ		13 UJ	15 UJ	13 UJ	17 UJ
Methyl chloride	UG/KG	0	0%		0	0	58	13 U		13 U	15 U	13 U	17 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	13 UJ		13 UJ	15 UJ	13 UJ	17 UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	13 U		13 U	15 U	13 U	17 U
Methylene chloride	UG/KG	0	0%	100	0	0	58	13 U		13 U	15 U	13 U	17 U
Styrene	UG/KG	0	0%		0	0	58	13 U		13 U	15 UJ	13 U	17 UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	13 U		13 U	15 U	13 U	17 U
Toluene	UG/KG	14	10%	1500	0	6	58	13 U		13 U	15 U	13 U	17 U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	13 U		13 U	15 UJ	13 U	17 UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-26 SOIL	SEAD-12 SS12-27 SOIL	SEAD-12 SS12-27 SOIL	SEAD-12 SS12-28 SOIL	SEAD-12 SS12-29 SOIL				
									123220	123224	123223	123225	123226				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									03-Nov-98	09-Nov-98	04-Nov-98	09-Nov-98	09-Nov-98				
									SA	DU	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	13	U	13	U	15	U	13	U	17	U
Trichloroethene	UG/KG	0	0%	700	0	0	58	13	U	13	U	15	U	13	U	17	U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	13	U	13	U	15	U	13	U	17	U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	85	UJ	190	U	96	U	6.5	R	92	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	85	UJ	190	U	96	U	80	R	92	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	85	UJ	190	U	96	U	80	R	92	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	85	UJ	190	U	96	U	80	R	92	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	200	U	460	U	230	U	200	R	220	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	85	U	190	U	96	U	80	R	92	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	85	U	190	U	96	U	14	R	92	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	85	U	190	U	96	U	80	R	92	R
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	200	R	460	UJ	230	U	200	R	220	U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	85	UJ	190	U	96	U	15	R	92	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	85	UJ	190	U	96	U	16	R	92	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	85	UJ	190	U	96	U	12	R	92	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	85	U	190	U	96	U	80	R	92	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	85	UJ	11	J	6.8	J	13	R	11	J
2-Methylphenol	UG/KG	36	3%	100	0	2	58	85	U	190	U	96	U	8.8	R	92	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	200	UJ	460	U	230	U	9.5	R	220	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	85	U	190	U	96	U	10	R	92	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	85	UJ	190	U	96	UJ	80	R	92	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	200	UJ	460	UJ	230	UJ	200	R	220	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	200	UJ	460	UJ	230	U	17	R	220	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	85	UJ	190	U	96	U	16	R	92	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	85	U	190	U	96	U	18	R	92	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	85	U	190	UJ	96	U	80	R	92	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	85	UJ	190	U	96	U	14	R	92	U
4-Methylphenol	UG/KG	930	7%	900	1	4	58	85	U	190	U	96	U	17	R	92	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	200	UJ	460	UJ	230	UJ	200	R	220	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	200	U	460	U	230	U	200	R	220	UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOC_ID								SS12-26		SS12-27		SS12-27		SS12-28		SS12-29	
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL	
SAMP_ID								123220		123224		123223		123225		123226	
DEPTH_TOP								0		0		0		0		0	
DEPTH_BOT								0.2		0.2		0.2		0.2		0.2	
SAMP_DATE								03-Nov-98		09-Nov-98		04-Nov-98		09-Nov-98		09-Nov-98	
QC_CODE								SA		DU		SA		SA		SA	
STUDY_ID								RI Phase 1		RI Phase 1		RI Phase 1		RI Phase 1		RI Phase 1	
		FREQUENCY		NYSDEC		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
PARAMETER		OF		TAGM		ABOVE		OF		OF		OF		OF		OF	
UNIT		DETECTION		4046		TAGM		DETECTS		ANALYSE		RI Phase 1		RI Phase 1		RI Phase 1	
MAXIMU												Step 1		Step 1		Step 1	
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	85	UJ	13	J	8.6	J	16	R	92	U
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	85	UJ	22	J	9.5	J	15	R	92	U
Anthracene	UG/KG	1500	16%	50000	0	9	58	85	UJ	38	J	28	J	16	R	92	U
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	6.5	J	520	UJ	260	J	7	J	6.3	J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	8.2	J	830	J	300	J	11	J	18	J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	12	J	1000	J	470	J	18	J	12	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	5.7	J	550	J	230	J	27	R	37	J
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	9.4	J	970	J	420	J	26	R	10	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	58	85	U	190	U	96	U	15	R	92	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	58	85	UJ	190	U	96	U	11	R	92	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	58	85	U	190	U	96	U	14	R	92	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	17	J	190	UJ	96	U	80	UJ	92	UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	85	UJ	190	U	96	U	19	R	92	UJ
Carbazole	UG/KG	1100	22%	0	0	13	58	85	UJ	50	J	54	J	34	R	92	U
Chrysene	UG/KG	3600	93%	400	3	54	58	11	J	760	J	370	J	26	J	13	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	7.9	J	190	U	96	U	24	R	4.8	J
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	85	U	190	U	96	U	19	R	92	UJ
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	85	U	220	J	80	J	24	R	92	U
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	85	UJ	13	J	8.4	J	15	R	92	U
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	85	UJ	190	U	96	U	19	R	92	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	85	U	190	U	96	U	18	R	92	U
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	16	J	1300	J	720	J	16	J	15	J
Fluorene	UG/KG	830	9%	50000	0	5	58	85	U	19	J	11	J	16	R	92	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	85	UJ	190	U	96	U	16	R	92	U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	58	85	UJ	190	U	96	U	9.4	R	92	U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	58	85	U	190	UJ	96	U	21	R	92	U
Hexachloroethane	UG/KG	0	0%	0	0	0	58	85	U	190	U	96	U	5.6	R	92	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	6	J	590	J	230	J	27	R	12	J
Isophorone	UG/KG	0	0%	4400	0	0	58	85	UJ	190	UJ	96	UJ	18	R	92	U
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	58	85	U	190	U	96	U	8.6	R	92	U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	58	85	U	190	U	96	U	8.6	R	92	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-26 SOIL	SEAD-12 SS12-27 SOIL	SEAD-12 SS12-27 SOIL	SEAD-12 SS12-28 SOIL	SEAD-12 SS12-29 SOIL				
									123220	123224	123223	123225	123226				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									03-Nov-98	09-Nov-98	04-Nov-98	09-Nov-98	09-Nov-98				
									SA	DU	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Naphthalene	UG/KG	540	9%	13000	0	5	58	85	UJ	190	U	5.5	J	12	R	7.3	J
Nitrobenzene	UG/KG	0	0%	200	0	0	58	85	UJ	190	U	96	U	9.5	R	92	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	200	UJ	460	UJ	230	UJ	15	R	220	U
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	7.8	J	320	U	220	U	9.3	J	13	J
Phenol	UG/KG	42	29%	30	2	17	58	85	U	190	U	5.4	J	23	J	38	J
Pyrene	UG/KG	7000	93%	50000	0	54	58	13	J	980	J	520	J	12	J	15	J
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4.3	UJ	4.7	U	4.8	U	4	U	51	U
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.3	UJ	4.7	U	4.8	U	4	U	4.6	U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.3	UJ	4.7	U	4.8	U	4	U	4.6	U
Aldrin	UG/KG	0	0%	41	0	0	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.4	U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.4	U
Alpha-Chlordane	UG/KG	2.8	3%	0	0	2	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.8	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	43	UJ	47	U	48	U	40	U	46	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	88	UJ	96	U	97	U	82	U	93	U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	43	UJ	47	U	48	U	40	U	46	U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	43	UJ	47	U	48	U	40	U	46	U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	43	UJ	47	U	48	U	40	U	46	U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	43	UJ	47	U	48	U	40	U	46	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	43	UJ	47	U	48	U	40	U	46	U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.4	U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.4	U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.3	UJ	4.7	U	4.8	U	4	U	3.2	J
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.2	UJ	2.4	U	2.5	U	2.1	U	1.9	J
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.3	UJ	4.7	U	4.8	U	4	U	4.6	U
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.3	UJ	5.4	J	5.6	J	4	U	4.6	U
Endrin	UG/KG	5.8	5%	100	0	3	58	4.3	UJ	4.7	U	4.8	U	4	U	5.8	J
Endrin aldehyde	UG/KG	0	0%	0	0	0	58	4.3	UJ	4.7	U	4.8	U	4	U	4.6	U
Endrin ketone	UG/KG	0	0%	0	0	0	58	4.3	UJ	4.7	U	4.8	U	4	U	4.6	U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.4	U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.2	UJ	2.4	U	2.5	U	2.1	U	1.5	J

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12					
LOC_ID								SS12-26	SS12-27	SS12-27	SS12-28	SS12-29					
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL					
SAMP_ID								123220	123224	123223	123225	123226					
DEPTH_TOP								0	0	0	0	0					
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2					
SAMP_DATE								03-Nov-98	09-Nov-98	04-Nov-98	09-Nov-98	09-Nov-98					
QC_CODE								SA	DU	SA	SA	SA					
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1				
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF										
			DETECTION	4046	TAGM	DETECTS	ANALYSE										
Heptachlor	UG/KG	0	0%	100	0	0	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.4	U
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.2	UJ	2.4	U	2.5	U	2.1	U	2.4	U
Methoxychlor	UG/KG	0	0%	0	0	0	58	22	UJ	24	U	25	U	21	U	24	U
Toxaphene	UG/KG	0	0%	0	0	0	58	220	UJ	240	U	250	U	210	U	240	U
<b>METALS</b>																	
Aluminum	MG/KG	18700	100%	19520	0	58	58	13800		11200		11800	J	15800		14900	
Antimony	MG/KG	1.6	3%	6	0	2	58	1.6	UJ	1.5	UJ	1.7	UJ	1.4	J	1.6	J
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	3.7		3.8		4.5		4.3		4	
Barium	MG/KG	146	100%	300	0	58	58	88.8		69.7		66.4		93.7		107	
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.59	J	0.44	J	0.44	J	0.57	J	0.64	J
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.08	U	0.07	U	0.08	U	0.07	U	0.08	U
Calcium	MG/KG	154000	100%	125300	1	58	58	2720		51500		57400		16800		4810	
Chromium	MG/KG	26.8	100%	30	0	58	58	19.2		19.9		20.4		25.1		19.1	
Cobalt	MG/KG	17.1	100%	30	0	58	58	9.7	J	13.5		12.7	J	13		7.1	J
Copper	MG/KG	35.4	100%	33	3	58	58	18.6		28.3		27		25.2		18.4	
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.68	U	0.77	UJ	0.8	UJ	0.63	UJ	0.77	UJ
Iron	MG/KG	31500	100%	37410	0	58	58	23900	J	24200	J	22500	J	28800		20400	
Lead	MG/KG	43.8	100%	24.4	16	58	58	26.8	J	20.6		18.1	J	15.4		21.4	
Magnesium	MG/KG	15700	100%	21700	0	58	58	3490		7510		7720		7180		3400	
Manganese	MG/KG	2370	100%	1100	4	58	58	623	J	657		630		567		420	
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.1	J	0.08	J	0.16	J	0.05	J	0.1	J
Nickel	MG/KG	57.4	95%	50	2	55	58	21.5		37.5	J	36.6	J	39.2	J	21	J
Potassium	MG/KG	2970	100%	2623	2	58	58	1220	J	1540		2080		2420		1940	
Selenium	MG/KG	2.3	43%	2	2	25	58	1.2	UJ	1.4		0.63	J	1.1	U	1.2	U
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.31	U	0.29	U	0.33	U	0.28	U	0.32	U
Sodium	MG/KG	153	22%	188	0	13	58	65.7	U	60.8	U	116	J	72.1	J	67.4	U
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.4	U	1.3	U	2.1	J	1.2	U	1.4	U
Vanadium	MG/KG	33.1	100%	150	0	58	58	24.9		21		21.6		24.1		24.2	
Zinc	MG/KG	197	100%	115	5	58	58	59.2	J	107		107		94.4		88	
<b>WET CHEMISTRY</b>																	
Nitrate/Nitrite	%WW																

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	SEAD-12 SS12-26 SOIL 123220 0 0.2 03-Nov-98 SA RI Phase 1 Step 1	SEAD-12 SS12-27 SOIL 123224 0 0.2 09-Nov-98 DU RI Phase 1 Step 1	SEAD-12 SS12-27 SOIL 123223 0 0.2 04-Nov-98 SA RI Phase 1 Step 1	SEAD-12 SS12-28 SOIL 123225 0 0.2 09-Nov-98 SA RI Phase 1 Step 1	SEAD-12 SS12-29 SOIL 123226 0 0.2 09-Nov-98 SA RI Phase 1 Step 1
PARAMETER												
Nitrate/Nitrite	MG/KG											
pH	SU											
TOC-Soil 9060	MG/KG											
Percent Solids	%W/W											
Percent Solids	MG/KG											
Cation exchange capacity	meq/100g											



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-30 SOIL	SEAD-12 SS12-31 SOIL	SEAD-12 SS12-32 SOIL	SEAD-12 SS12-33 SOIL	SEAD-12 SS12-34 SOIL		
									123227	123228	123229	123230	123231		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE								
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	14	U	12	U	14	U	13	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	14	U	12	U	14	U	13	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	14	U	12	U	14	U	13	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	14	U	12	U	14	U	13	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	14	U	12	U	14	U	13	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Acetone	UG/KG	55	29%	200	0	17	58	14	UJ	12	UJ	14	UJ	15	J
Benzene	UG/KG	0	0%	60	0	0	58	14	U	12	U	14	U	13	U
Bromodichloromethane	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Bromoform	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	14	U	12	U	14	U	13	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	14	U	12	U	14	U	13	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	14	U	12	U	14	U	13	U
Chlorodibromomethane	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Chloroethane	UG/KG	0	0%	1900	0	0	58	14	U	12	U	14	U	13	U
Chloroform	UG/KG	0	0%	300	0	0	58	14	U	12	U	14	U	13	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	14	U	12	U	14	U	13	U
Methyl bromide	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	14	UJ	12	UJ	14	UJ	13	UJ
Methyl chloride	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	14	UJ	12	UJ	14	UJ	13	UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	14	U	12	U	14	U	13	U
Methylene chloride	UG/KG	0	0%	100	0	0	58	14	U	12	U	14	U	13	U
Styrene	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	14	U	12	U	14	U	13	U
Toluene	UG/KG	14	10%	1500	0	6	58	14	U	12	U	14	U	13	U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	14	U	12	U	14	U	13	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-30 SOIL	SEAD-12 SS12-31 SOIL	SEAD-12 SS12-32 SOIL	SEAD-12 SS12-33 SOIL	SEAD-12 SS12-34 SOIL		
									123227	123228	123229	123230	123231		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1		
									Step 1	Step 1	Step 1	Step 1	Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE								
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	14	U	12	U	14	U	13	U
Trichloroethene	UG/KG	0	0%	700	0	0	58	14	U	12	U	14	U	13	U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	14	U	12	U	14	U	13	U
<b>SEMI VOLATILE ORGANICS</b>															
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	81	U	80	U	88	U	87	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	81	U	80	U	88	U	87	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	81	U	80	U	88	U	87	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	81	U	80	U	88	U	87	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	200	U	200	U	210	U	210	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	81	U	80	U	88	U	87	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	81	R	80	R	88	R	87	R
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	200	U	200	U	210	U	210	U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	81	U	80	U	88	U	87	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	81	U	80	U	88	U	87	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	81	U	80	U	88	U	87	U
2-Methylphenol	UG/KG	36	3%	100	0	2	58	81	U	80	U	88	U	87	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	200	U	200	U	210	U	210	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	81	U	80	U	88	U	87	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	200	U	200	U	210	U	210	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	200	U	200	U	210	U	210	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	81	U	80	U	88	U	87	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	81	U	80	U	88	U	87	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U
4-Methylphenol	UG/KG	930	7%	900	1	4	58	81	U	80	U	88	U	87	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	200	UJ	200	UJ	210	UJ	210	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	200	UJ	200	UJ	210	UJ	210	UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12															
LOC_ID		SS12-30		SS12-31		SS12-32		SS12-33		SS12-34							
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL							
SAMP_ID		123227		123228		123229		123230		123231							
DEPTH_TOP		0		0		0		0		0							
DEPTH_BOT		0.2		0.2		0.2		0.2		0.2							
SAMP_DATE		09-Nov-98		09-Nov-98		09-Nov-98		10-Nov-98		09-Nov-98							
QC_CODE		SA		SA		SA		SA		SA							
STUDY_ID		FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1					
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF										
			DETECTION	4046	TAGM	DETECTS	ANALYSE										
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	81	U	80	U	88	U	87	U	90	U
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	81	U	80	U	88	U	87	U	90	U
Anthracene	UG/KG	1500	16%	50000	0	9	58	81	U	80	U	88	U	4.4	J	90	U
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	8	J	80	U	7.5	J	14	J	6.6	J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	8.2	J	80	U	8.7	J	13	J	8	J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	9.8	J	5.4	J	9.8	J	15	J	8.9	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	7.3	J	80	U	12	J	10	J	90	U
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	10	J	5.1	J	13	J	15	J	8.3	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	81	UJ	80	UJ	88	UJ	87	UJ	90	UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	81	UJ	80	UJ	88	UJ	87	UJ	90	UJ
Carbazole	UG/KG	1100	22%		0	13	58	81	U	80	U	88	U	5.8	J	90	U
Chrysene	UG/KG	3600	93%	400	3	54	58	11	J	6.3	J	12	J	17	J	9.4	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	81	U	80	U	6.1	J	4.4	J	6.1	J
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	81	UJ	80	U	88	UJ	87	UJ	90	UJ
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	81	U	80	UJ	88	U	87	U	90	U
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	81	U	80	U	88	U	87	U	90	U
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	81	U	80	U	88	U	87	U	90	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	81	U	80	U	88	U	87	U	90	U
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	19	J	9.7	J	20	J	35	J	16	J
Fluorene	UG/KG	830	9%	50000	0	5	58	81	U	80	U	88	U	87	U	90	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	81	U	80	U	88	U	87	U	90	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U
Hexachloroethane	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	6.8	J	80	U	8.1	J	11	J	90	U
Isophorone	UG/KG	0	0%	4400	0	0	58	81	U	80	U	88	U	87	U	90	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58	81	U	80	U	88	U	87	U	90	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12				
LOC_ID									SS12-30	SS12-31	SS12-32	SS12-33	SS12-34				
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL				
SAMP_ID									123227	123228	123229	123230	123231				
DEPTH_TOP									0	0	0	0	0				
DEPTH_BOT									0.2	0.2	0.2	0.2	0.2				
SAMP_DATE									09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98				
QC_CODE									SA	SA	SA	SA	SA				
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1		
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	1		1		1		1			
			DETECTION	4046	TAGM	DETECTS	ANALYSE	Step 1		Step 1		Step 1		Step 1			
Naphthalene	UG/KG	540	9%	13000	0	5	58	81	U	80	U	88	U	87	U		
Nitrobenzene	UG/KG	0	0%	200	0	0	58	81	U	80	U	88	U	87	U		
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	200	U	200	U	210	U	210	U		
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	11	J	5.2	J	10	J	23	J		
Phenol	UG/KG	42	29%	30	2	17	58	81	U	80	U	17	J	87	U		
Pyrene	UG/KG	7000	93%	50000	0	54	58	16	J	7.4	J	16	J	27	J		
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4.1	U	4	U	4.4	U	23		4	J
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.1	U	4	U	4.4	U	4.3	U	4.5	U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.1	U	4	U	4.4	U	4.3	U	4.5	U
Aldrin	UG/KG	0	0%	41	0	0	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	4.1	U	40	U	44	U	43	U	45	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	83	U	81	U	89	U	88	U	91	U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	41	U	40	U	44	U	43	U	45	U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	41	U	40	U	44	U	43	U	45	U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	41	U	40	U	44	U	43	U	45	U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	41	U	40	U	44	U	43	U	45	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	41	U	40	U	44	U	43	U	45	U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.1	U	4	U	4.4	U	4.3	U	4.5	U
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.1	U	4	U	4.4	U	4.3	U	2.7	J
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.1	U	4	U	4.4	U	4.3	U	4.5	U
Endrin	UG/KG	5.8	5%	100	0	3	58	4.1	U	4	U	4.4	U	3.3	J	4.5	U
Endrin aldehyde	UG/KG	0	0%		0	0	58	4.1	U	4	U	4.4	U	4.3	U	4.5	U
Endrin ketone	UG/KG	0	0%		0	0	58	4.1	U	4	U	4.4	U	4.3	U	4.5	U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.1	U	2.1	U	2.3	U	2.2	U	2.3	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-30 SOIL	SEAD-12 SS12-31 SOIL	SEAD-12 SS12-32 SOIL	SEAD-12 SS12-33 SOIL	SEAD-12 SS12-34 SOIL
									123227	123228	123229	123230	123231
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Heptachlor	UG/KG	0	0%	100	0	0	58	2.1 U	2.1 U	2.3 U	2.2 U	2.3 U	
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.1 U	2.1 U	2.3 U	2.2 U	2.3 U	
Methoxychlor	UG/KG	0	0%	0	0	0	58	21 U	21 U	23 U	22 U	23 U	
Toxaphene	UG/KG	0	0%	0	0	0	58	210 U	210 U	230 U	220 U	230 U	
<b>METALS</b>													
Aluminum	MG/KG	18700	100%	19520	0	58	58	16300	11000	14000	8670	11900	
Antimony	MG/KG	1.6	3%	6	0	2	58	1.4 UJ	1.3 UJ	1.6 UJ	1.4 UJ	1.5 UJ	
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	6.2	5.2	3.7	3.6	4.7	
Barium	MG/KG	146	100%	300	0	58	58	104	66.3	111	73.4	112	
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.47 J	0.5 J	0.66 J	0.39 J	0.57 J	
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.07 U	0.06 U	0.08 U	0.07 U	0.08 U	
Calcium	MG/KG	154000	100%	125300	1	58	58	2060	15500	3100	3480	4110	
Chromium	MG/KG	26.8	100%	30	0	58	58	20.6	18.9	21.1	13.1	18.6	
Cobalt	MG/KG	17.1	100%	30	0	58	58	13.1	11.6	10.1 J	8.4 J	10.3 J	
Copper	MG/KG	35.4	100%	33	3	58	58	15.9	30.2	20.3	17.1	18.3	
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	1.4 J	0.66 UJ	0.68 UJ	0.68 UJ	0.73 UJ	
Iron	MG/KG	31500	100%	37410	0	58	58	26600	24500	25000	17100	22600	
Lead	MG/KG	43.8	100%	24.4	16	58	58	19.9	20	21.4	17.8	18.7	
Magnesium	MG/KG	15700	100%	21700	0	58	58	3460	6580	4050	2760	3540	
Manganese	MG/KG	2370	100%	1100	4	58	58	1010	463	446	521	730	
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.07 J	0.06 UJ	0.07 UJ	0.06 UJ	0.06 J	
Nickel	MG/KG	57.4	95%	50	2	55	58	19 J	35.5 J	25.5 J	17.3 J	25.4 J	
Potassium	MG/KG	2970	100%	2623	2	58	58	1510	1240	1350	1070 J	1280	
Selenium	MG/KG	2.3	43%	2	2	25	58	1.1 U	0.99 U	1.2 U	1.1 U	1.3 J	
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.27 U	0.26 U	0.31 U	0.28 U	0.3 U	
Sodium	MG/KG	153	22%	188	0	13	58	57.7 U	54.3 U	65.4 U	57.8 U	63.6 U	
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.2 U	1.1 U	1.3 U	1.2 U	1.3 U	
Vanadium	MG/KG	33.1	100%	150	0	58	58	29.9	19	22	16.2	19.7	
Zinc	MG/KG	197	100%	115	5	58	58	66.3	81.2	66.3	46.2	64.7	
<b>WET CHEMISTRY</b>													
Nitrate/Nitrite	%WW												

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-30 SOIL	SEAD-12 SS12-31 SOIL	SEAD-12 SS12-32 SOIL	SEAD-12 SS12-33 SOIL	SEAD-12 SS12-34 SOIL
									123227	123228	123229	123230	123231
				0	0.2	09-Nov-98	SA	RI Phase 1 Step 1	0	0.2	0.2	0.2	0.2
									09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Nitrate/Nitrite	MG/KG												
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%V/W												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-35 SOIL	SEAD-12 SS12-36 SOIL	SEAD-12 SS12-37 SOIL	SEAD-12 SS12-38 SOIL	SEAD-12 SS12-39 SOIL		
									123232	123233	123234	123235	123236		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									09-Nov-98	10-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1		
									Step 1	Step 1	Step 1	Step 1	Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE								
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	12	U	13	U	15	U	14	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	12	U	13	U	15	UJ	14	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	12	U	13	U	15	U	14	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	12	U	13	U	15	U	14	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	12	U	13	U	15	U	14	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
Acetone	UG/KG	55	29%	200	0	17	58	12	UJ	13	UJ	15	UJ	14	UJ
Benzene	UG/KG	0	0%	60	0	0	58	12	U	13	U	15	U	14	U
Bromodichloromethane	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
Bromoform	UG/KG	0	0%		0	0	58	12	U	13	U	15	UJ	14	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	12	U	13	U	15	U	14	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	12	U	13	U	15	U	14	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	12	U	13	U	15	UJ	14	U
Chlorodibromomethane	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
Chloroethane	UG/KG	0	0%	1900	0	0	58	12	U	13	U	15	U	14	U
Chloroform	UG/KG	0	0%	300	0	0	58	12	U	13	U	15	U	14	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	12	U	13	U	15	UJ	14	U
Methyl bromide	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	12	UJ	13	UJ	15	UJ	14	UJ
Methyl chloride	UG/KG	0	0%		0	0	58	12	U	13	U	15	U	14	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	12	UJ	13	UJ	15	UJ	14	UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	12	U	13	U	15	U	14	U
Methylene chloride	UG/KG	0	0%	100	0	0	58	12	U	13	U	15	U	14	U
Styrene	UG/KG	0	0%		0	0	58	12	U	13	U	15	UJ	14	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	12	U	13	U	15	U	14	U
Toluene	UG/KG	14	10%	1500	0	6	58	12	U	13	U	15	U	14	U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	12	U	13	U	15	UJ	14	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOC_ID								SS12-35	SS12-36	SS12-37	SS12-38	SS12-39	
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	
SAMP_ID								123232	123233	123234	123235	123236	
DEPTH_TOP								0	0	0	0	0	
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2	
SAMP_DATE								09-Nov-98	10-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98	
QC_CODE								SA	SA	SA	SA	SA	
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
			DETECTION	4046	TAGM	DETECTS	ANALYSE						
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	12	U	13	U	15	U
Trichloroethene	UG/KG	0	0%	700	0	0	58	12	U	13	U	15	U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	12	U	13	U	15	U
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	94	U	86	U	100	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	94	U	86	U	100	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	94	U	86	U	100	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	94	U	86	U	100	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	230	U	210	U	250	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	94	U	86	U	100	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	94	U	86	U	100	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	94	R	86	R	100	R
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	230	U	210	U	250	UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	94	U	86	U	100	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	94	U	86	U	100	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	94	U	86	U	100	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	94	U	86	U	100	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	94	U	86	U	100	U
2-Methylphenol	UG/KG	36	3%	100	0	2	58	94	U	86	U	100	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	230	U	210	U	250	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	94	U	86	U	100	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	94	U	86	U	100	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	230	U	210	U	250	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	230	U	210	U	250	UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	94	U	86	U	100	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	94	U	86	U	100	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	94	U	86	U	100	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	94	U	86	U	100	U
4-Methylphenol	UG/KG	930	7%	900	1	4	58	94	U	86	U	100	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	230	UJ	210	UJ	250	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	230	UJ	210	UJ	250	UJ



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID									SS12-35	SS12-36	SS12-37	SS12-38	SS12-39
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID									123232	123233	123234	123235	123236
DEPTH_TOP									0	0	0	0	0
DEPTH_BOT									0.2	0.2	0.2	0.2	0.2
SAMP_DATE									09-Nov-98	10-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98
QC_CODE									SA	SA	SA	SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF		Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE						
Acenaphthene	UG/KG	1200	9%	50000	0	5	58		94 U	86 U	100 U	100 U	87 U
Acenaphthylene	UG/KG	22	5%	41000	0	3	58		94 U	86 U	100 U	100 U	87 U
Anthracene	UG/KG	1500	16%	50000	0	9	58		94 U	86 U	100 U	100 U	87 U
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	5.9 J	86 U	86 U	7.4 J	17 J	7.4 J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	8 J	8 J	4.8 J	12 J	21 J	9.4 J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	8 J	8 J	6.3 J	10 J	26 J	9.9 J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	19 J	86 U	86 U	30 J	22 J	18 J
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	8.6 J	8.6 J	5.9 J	11 J	21 J	9 J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	94 UJ	94 UJ	95 J	100 UJ	10000	87 UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	94 UJ	94 UJ	86 UJ	100 UJ	9.5 J	87 UJ
Carbazole	UG/KG	1100	22%		0	13	58	94 U	94 U	86 U	100 U	14 J	87 U
Chrysene	UG/KG	3600	93%	400	3	54	58	8.3 J	8.3 J	5.8 J	11 J	23 J	10 J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	94 U	94 U	86 U	6.7 J	12 J	4.6 J
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	94 UJ	94 UJ	86 UJ	100 UJ	100 UJ	87 UJ
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	94 U	94 U	86 U	100 U	14 J	87 U
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	94 U	94 U	86 U	100 U	100 U	87 U
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	94 U	94 U	86 U	100 U	5.4 J	87 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	14 J	14 J	9.9 J	18 J	32 J	19 J
Fluorene	UG/KG	830	9%	50000	0	5	58	94 U	94 U	86 U	100 U	100 U	87 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 UJ	87 U
Hexachloroethane	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	6 J	6 J	86 U	9.2 J	21 J	6.8 J
Isophorone	UG/KG	0	0%	4400	0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 U	87 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58	94 U	94 U	86 U	100 U	100 U	87 U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								SS12-35	SS12-36	SS12-37	SS12-38	SS12-39
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123232	123233	123234	123235	123236
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								09-Nov-98	10-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98
QC_CODE								SA	SA	SA	SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE					
Naphthalene	UG/KG	540	9%	13000	0	5	58	94 U	86 U	100 U	100 U	87 U
Nitrobenzene	UG/KG	0	0%	200	0	0	58	94 U	86 U	100 U	100 U	87 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	230 U	210 U	250 U	240 U	210 U
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	8.4 J	6 J	10 J	17 J	9.2 J
Phenol	UG/KG	42	29%	30	2	17	58	94 U	11 J	100 U	100 U	87 U
Pyrene	UG/KG	7000	93%	50000	0	54	58	11 J	8.7 J	16 J	28 J	14 J
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4.7 U	4.3 U	5.2 U	5 U	18
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.7 U	4.3 U	5.2 U	5 U	4.3 U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.7 U	4.3 U	5.2 U	5 U	2.2 J
Aldrin	UG/KG	0	0%	41	0	0	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	47 U	43 U	52 U	50 U	43 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	96 U	87 U	100 U	100 U	88 U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	47 U	43 U	52 U	50 U	43 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	47 U	43 U	52 U	50 U	43 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	47 U	43 U	52 U	50 U	43 U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	47 U	43 U	52 U	50 U	43 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	47 U	43 U	52 U	50 U	43 U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.7 U	4.3 U	5.2 U	5 U	4.3 U
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.7 U	4.3 U	5.2 U	5 U	3 J
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.7 U	4.3 U	5.2 U	5 U	4.3 U
Endrin	UG/KG	5.8	5%	100	0	3	58	4.7 U	4.3 U	5.2 U	5 U	4.3 U
Endrin aldehyde	UG/KG	0	0%		0	0	58	4.7 U	4.3 U	5.2 U	5 U	4.3 U
Endrin ketone	UG/KG	0	0%		0	0	58	4.7 U	4.3 U	5.2 U	5 U	4.3 U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.4 U	2.2 U	2.6 U	2.6 U	2.2 U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOC_ID								SS12-35	SS12-36	SS12-37	SS12-38	SS12-39	
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	
SAMP_ID								123232	123233	123234	123235	123236	
DEPTH_TOP								0	0	0	0	0	
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2	
SAMP_DATE								09-Nov-98	10-Nov-98	09-Nov-98	10-Nov-98	09-Nov-98	
QC_CODE								SA	SA	SA	SA	SA	
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
			DETECTION	4046	TAGM	DETECTS	ANALYSE						
Heptachlor	UG/KG	0	0%	100	0	0	58	2.4	U	2.2	U	2.6	U
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.4	U	2.2	U	2.6	U
Methoxychlor	UG/KG	0	0%	0	0	0	58	24	U	22	U	26	U
Toxaphene	UG/KG	0	0%	0	0	0	58	240	U	220	U	260	U
<b>METALS</b>													
Aluminum	MG/KG	18700	100%	19520	0	58	58	11600	J	12200	J	11200	J
Antimony	MG/KG	1.6	3%	6	0	2	58	1.7	UJ	1.3	UJ	1.8	UJ
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	3	J	4.5	J	2.1	J
Barium	MG/KG	146	100%	300	0	58	58	101	J	107	J	126	J
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.74	J	0.11	J	0.6	J
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.08	U	0.06	U	0.09	U
Calcium	MG/KG	154000	100%	125300	1	58	58	5270	J	2420	J	7560	J
Chromium	MG/KG	26.8	100%	30	0	58	58	16.4	J	15.5	J	13.6	J
Cobalt	MG/KG	17.1	100%	30	0	58	58	5.3	J	10.6	J	4	J
Copper	MG/KG	35.4	100%	33	3	58	58	17.5	J	13.8	J	15.5	J
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.72	UJ	0.68	UJ	0.8	UJ
Iron	MG/KG	31500	100%	37410	0	58	58	15500	J	21300	J	14200	J
Lead	MG/KG	43.8	100%	24.4	16	58	58	21.5	J	17.6	J	19.8	J
Magnesium	MG/KG	15700	100%	21700	0	58	58	2800	J	2830	J	2650	J
Manganese	MG/KG	2370	100%	1100	4	58	58	272	J	300	J	90	J
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.08	UJ	0.07	UJ	0.07	UJ
Nickel	MG/KG	57.4	95%	50	2	55	58	18.4	J	18.5	J	16.1	J
Potassium	MG/KG	2970	100%	2623	2	58	58	1030	J	977	J	811	J
Selenium	MG/KG	2.3	43%	2	2	25	58	1.3	U	1.3	U	1.7	U
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.33	U	0.25	U	0.35	U
Sodium	MG/KG	153	22%	188	0	13	58	68.7	U	51.7	U	73.4	U
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.4	UJ	1.7	J	1.5	UJ
Vanadium	MG/KG	33.1	100%	150	0	58	58	17.2	J	22.6	J	17.1	J
Zinc	MG/KG	197	100%	115	5	58	58	78.8	J	47.9	J	51.2	J
<b>WET CHEMISTRY</b>													
Nitrate/Nitrite	%WW												



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-40 SOIL 123237 0 0.2 09-Nov-98 SA	SEAD-12 SS12-41 SOIL 123238 0 0.2 10-Nov-98 SA	SEAD-12 SS12-42 SOIL 123239 0 0.2 09-Nov-98 SA	SEAD-12 SS12-43 SOIL 123105 0 0.2 13-Oct-98 SA	SEAD-12 SS12-44 SOIL 123240 0 0.2 10-Nov-98 SA				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE		RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	
<b>VOLATILE ORGANICS</b>																	
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58		13 U		13 U		12 U		14 U		15 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58		13 UJ		13 UJ		12 UJ		14 U		15 UJ
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 UJ
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58		13 U		13 U		12 U		14 U		15 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58		13 U		13 U		12 U		14 U		15 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58		13 U		13 U		12 U		14 U		15 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 UJ
Acetone	UG/KG	55	29%	200	0	17	58		13 J		13 U		12 UJ		14 U		7 J
Benzene	UG/KG	0	0%	60	0	0	58		13 U		13 U		12 U		14 U		15 U
Bromodichloromethane	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 UJ
Bromoform	UG/KG	0	0%		0	0	58		13 UJ		13 UJ		12 UJ		14 U		15 UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	58		13 U		13 U		12 U		14 U		15 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58		13 U		13 U		12 U		14 U		15 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58		13 UJ		13 UJ		12 UJ		14 U		15 UJ
Chlorodibromomethane	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 UJ
Chloroethane	UG/KG	0	0%	1900	0	0	58		13 U		13 U		12 U		14 U		15 U
Chloroform	UG/KG	0	0%	300	0	0	58		13 U		13 U		12 U		14 U		15 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 UJ
Ethyl benzene	UG/KG	0	0%	5500	0	0	58		13 UJ		13 UJ		12 UJ		14 U		15 UJ
Methyl bromide	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 U
Methyl butyl ketone	UG/KG	0	0%		0	0	58		13 U		13 U		12 UJ		14 U		15 UJ
Methyl chloride	UG/KG	0	0%		0	0	58		13 U		13 U		12 U		14 U		15 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58		13 U		13 U		12 UJ		14 U		15 UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58		13 U		13 U		12 U		14 U		15 UJ
Methylene chloride	UG/KG	0	0%	100	0	0	58		13 U		13 U		12 U		14 U		15 U
Styrene	UG/KG	0	0%		0	0	58		13 UJ		13 UJ		12 UJ		14 U		15 UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58		13 U		13 U		12 U		14 U		15 UJ
Toluene	UG/KG	14	10%	1500	0	6	58		13 U		13 U		12 U		14 U		15 UJ
Total Xylenes	UG/KG	0	0%	1200	0	0	58		13 UJ		13 UJ		12 UJ		14 U		15 UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-40 SOIL	SEAD-12 SS12-41 SOIL	SEAD-12 SS12-42 SOIL	SEAD-12 SS12-43 SOIL	SEAD-12 SS12-44 SOIL				
									123237	123238	123239	123105	123240				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									09-Nov-98	10-Nov-98	09-Nov-98	13-Oct-98	10-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1			
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	13	U	13	U	12	U	14	U	15	UJ
Trichloroethene	UG/KG	0	0%	700	0	0	58	13	U	13	U	12	U	14	U	15	UJ
Vinyl chloride	UG/KG	0	0%	200	0	0	58	13	U	13	U	12	U	14	U	15	U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	87	U	84	U	80	U	100	UJ	96	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	87	U	84	U	80	U	100	U	96	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	87	U	84	U	80	U	100	U	96	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	87	U	84	U	80	U	100	U	96	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	210	U	200	U	200	U	240	U	230	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	87	U	84	U	80	U	100	U	96	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	87	U	84	U	80	R	100	U	96	R
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	210	UJ	200	UJ	200	U	240	UJ	230	U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	87	U	84	U	80	U	100	U	96	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	87	U	84	U	80	U	100	U	96	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	87	U	84	U	80	U	100	U	96	U
2-Methylphenol	UG/KG	36	3%	100	0	2	58	87	U	84	U	80	U	100	U	96	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	210	U	200	U	200	U	240	U	230	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	87	U	84	U	80	U	100	U	96	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	210	UJ	200	UJ	200	U	240	U	230	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	210	UJ	200	UJ	200	U	240	U	230	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	87	U	84	U	80	U	100	U	96	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	87	UJ	84	UJ	80	U	100	U	96	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
4-Methylphenol	UG/KG	930	7%	900	1	4	58	87	U	84	U	80	U	100	U	96	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	210	UJ	200	UJ	200	UJ	240	U	230	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	210	U	200	U	200	UJ	240	UJ	230	UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-40 SOIL	SEAD-12 SS12-41 SOIL	SEAD-12 SS12-42 SOIL	SEAD-12 SS12-43 SOIL	SEAD-12 SS12-44 SOIL				
									123237	123238	123239	123105	123240				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									09-Nov-98	10-Nov-98	09-Nov-98	13-Oct-98	10-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	87	U	84	U	80	U	100	U	96	U
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	87	U	84	U	80	U	100	U	96	U
Anthracene	UG/KG	1500	16%	50000	0	9	58	87	U	84	U	80	U	100	U	96	U
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	7.9	J	11	J	80	U	5.8	J	9.4	J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	9.3	J	14	J	80	U	10	J	11	J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	11	J	23	J	80	U	12	J	14	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	10	J	15	J	9.5	J	100	U	9.6	J
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	12	J	14	J	80	U	11	J	13	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	87	UJ	84	UJ	80	UJ	100	U	96	UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	87	UJ	84	UJ	80	UJ	100	U	96	UJ
Carbazole	UG/KG	1100	22%		0	13	58	87	UJ	7.6	J	80	U	100	UJ	96	U
Chrysene	UG/KG	3600	93%	400	3	54	58	11	J	19	J	4.6	J	12	J	15	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	6.7	J	10	J	5.4	J	100	U	96	U
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	87	UJ	84	UJ	80	UJ	100	U	96	UJ
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	87	UJ	6	J	80	U	100	U	96	U
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	87	U	84	U	80	U	100	U	96	U
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	87	U	84	U	80	U	100	U	96	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	87	U	84	U	80	U	100	U	96	U
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	21	J	33	J	7	J	14	J	24	J
Fluorene	UG/KG	830	9%	50000	0	5	58	87	U	84	U	80	U	100	U	96	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	87	U	84	U	80	U	100	U	96	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	UJ	96	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58	87	UJ	84	UJ	80	U	100	UJ	96	U
Hexachloroethane	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	9.7	J	14	J	80	U	100	U	9	J
Isophorone	UG/KG	0	0%	4400	0	0	58	87	U	84	U	80	U	100	U	96	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58	87	U	84	U	80	U	100	U	96	U

TABLE G-16  
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 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-40 SOIL	SEAD-12 SS12-41 SOIL	SEAD-12 SS12-42 SOIL	SEAD-12 SS12-43 SOIL	SEAD-12 SS12-44 SOIL
									123237	123238	123239	123105	123240
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									09-Nov-98	10-Nov-98	09-Nov-98	13-Oct-98	10-Nov-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Naphthalene	UG/KG	540	9%	13000	0	5	58	87 U	84 U	80 U	100 U	96 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	58	87 U	84 U	80 U	100 UJ	96 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	210 U	200 U	200 U	240 UJ	230 U	
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	10 J	17 J	4.4 J	8.5 J	13 J	
Phenol	UG/KG	42	29%	30	2	17	58	87 U	84 U	80 U	100 U	96 U	
Pyrene	UG/KG	7000	93%	50000	0	54	58	17 J	23 J	5.6 J	17 J	19 J	
<b>PESTICIDES/PCBS</b>													
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	12 J	4.2 U	4 U	5 U	4.8 U	
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.3 U	2.3 J	4 U	5 U	2.4 J	
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.3 U	4.2 U	4 U	5 U	4.8 U	
Aldrin	UG/KG	0	0%	41	0	0	58	2.2 U	2.2 U	2.1 U	2.6 U	2.4 U	
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.2 U	2.2 U	2.1 U	2.6 U	2.4 U	
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.2 U	2.2 U	2.1 U	2.6 U	2.4 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	43 U	42 U	40 U	50 U	48 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	88 U	85 U	82 U	100 U	97 U	
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	43 U	42 U	40 U	50 U	48 U	
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	43 U	42 U	40 U	50 U	48 U	
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	43 U	42 U	40 U	50 U	48 U	
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	43 U	42 U	40 U	50 U	48 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	43 U	42 U	40 U	50 U	48 U	
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.2 U	2.2 U	2.1 U	2.6 U	2.4 U	
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.2 U	2.2 U	2.1 U	2.6 U	2.4 U	
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.3 U	4.2 U	4 U	5 U	4.8 U	
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	1.6 J	2.2 U	2.1 U	2.6 U	2.4 U	
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.3 U	4.2 U	4 U	5 U	4.8 U	
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.3 U	4.2 U	4 U	5 U	4.8 U	
Endrin	UG/KG	5.8	5%	100	0	3	58	4.3 U	4.2 U	4 U	5 U	4.8 U	
Endrin aldehyde	UG/KG	0	0%		0	0	58	4.3 U	4.2 U	4 U	5 U	4.8 U	
Endrin ketone	UG/KG	0	0%		0	0	58	4.3 U	4.2 U	4 U	5 U	4.8 U	
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.2 U	2.2 U	2.1 U	2.6 U	2.4 U	
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.2 U	2.2 U	2.1 U	2.6 U	2.4 U	



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-40 SOIL	SEAD-12 SS12-41 SOIL	SEAD-12 SS12-42 SOIL	SEAD-12 SS12-43 SOIL	SEAD-12 SS12-44 SOIL				
									123237	123238	123239	123105	123240				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									09-Nov-98	10-Nov-98	09-Nov-98	13-Oct-98	10-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Heptachlor	UG/KG	0	0%	100	0	0	58	2.2	U	2.2	U	2.1	U	2.6	U	2.4	U
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.2	U	2.2	U	2.1	U	2.6	U	2.4	U
Methoxychlor	UG/KG	0	0%	0	0	0	58	22	U	22	U	21	U	26	U	24	U
Toxaphene	UG/KG	0	0%	0	0	0	58	220	U	220	U	210	U	260	U	240	U
<b>METALS</b>																	
Aluminum	MG/KG	18700	100%	19520	0	58	58	13000	J	11100	J	13800	J	15600	J	11400	J
Antimony	MG/KG	1.6	3%	6	0	2	58	1.4	R	1.2	R	1.3	UJ	1.4	R	1.6	UJ
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	4.2	J	4.1	J	3.9	J	4.2	J	3.5	J
Barium	MG/KG	146	100%	300	0	58	58	68.6	J	129	J	74	J	133	J	99.6	J
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.41	J	0.17	J	0.56	J	0.77	J	0.42	J
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.07	U	0.06	U	0.06	U	0.07	U	0.08	U
Calcium	MG/KG	154000	100%	125300	1	58	58	2380	J	3380	J	18500	J	8900	J	4270	J
Chromium	MG/KG	26.8	100%	30	0	58	58	17.8	J	14.1	J	23.4	J	22.7	J	14.9	J
Cobalt	MG/KG	17.1	100%	30	0	58	58	9.6	J	11	J	11.9	J	8.8	J	8.5	J
Copper	MG/KG	35.4	100%	33	3	58	58	18.7	J	12.7	J	27	J	27.6	J	12.8	J
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.75	U	0.67	U	0.62	UJ	0.77	U	0.74	UJ
Iron	MG/KG	31500	100%	37410	0	58	58	20800	J	18800	J	27700	J	23700	J	19800	J
Lead	MG/KG	43.8	100%	24.4	16	58	58	29.3	J	29.3	J	17	J	31.8	J	31.8	J
Magnesium	MG/KG	15700	100%	21700	0	58	58	3580	J	2530	J	5850	J	4570	J	2660	J
Manganese	MG/KG	2370	100%	1100	4	58	58	512	J	1730	J	502	J	672	J	513	J
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.09	J	0.12	J	0.06	UJ	0.06	J	0.06	UJ
Nickel	MG/KG	57.4	95%	50	2	55	58	22.1	J	21.3	J	39.2	J	32.7	J	16.5	J
Potassium	MG/KG	2970	100%	2623	2	58	58	1350	J	875	J	2060	J	1260	J	1060	J
Selenium	MG/KG	2.3	43%	2	2	25	58	1.3	J	1.9	J	0.95	U	1.3	J	1.2	U
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.27	U	0.23	U	0.25	U	0.27	U	0.32	U
Sodium	MG/KG	153	22%	188	0	13	58	56.5	U	49.3	U	52.3	U	98	J	66.8	U
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.6	J	2.5	J	1.1	UJ	1.3	J	1.4	UJ
Vanadium	MG/KG	33.1	100%	150	0	58	58	21.5	J	18.8	J	21.1	J	22.4	J	21.8	J
Zinc	MG/KG	197	100%	115	5	58	58	67.5	J	78.5	J	84.1	J	197	J	72.6	J
<b>WET CHEMISTRY</b>																	
Nitrate/Nitrite	%W/W																

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	SEAD-12 SS12-40 SOIL	SEAD-12 SS12-41 SOIL	SEAD-12 SS12-42 SOIL	SEAD-12 SS12-43 SOIL	SEAD-12 SS12-44 SOIL
																123237	123238	123239	123105	123240
																0	0	0	0	0
																0.2	0.2	0.2	0.2	0.2
																09-Nov-98	10-Nov-98	09-Nov-98	13-Oct-98	10-Nov-98
																SA	SA	SA	SA	SA
																RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	SEAD-12 SS12-40 SOIL	SEAD-12 SS12-41 SOIL	SEAD-12 SS12-42 SOIL	SEAD-12 SS12-43 SOIL	SEAD-12 SS12-44 SOIL								
Nitrate/Nitrite	MG/KG																			
pH	SU																			
TOC-Soil 9060	MG/KG																			
Percent Solids	%WW																			
Percent Solids	MG/KG																			
Cation exchange capacity	meq/100g																			

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12			
LOC_ID								SS12-45	SS12-46	SS12-47	SS12-48	SS12-49			
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL			
SAMP_ID								123241	123242	123243	123244	123245			
DEPTH_TOP								0	0	0	0	0			
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2			
SAMP_DATE								09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	10-Nov-98			
QC_CODE								SA	SA	SA	SA	DU			
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1		
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF								
VOLATILE ORGANICS															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	11	U	12	U	14	U	15	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	11	UJ	12	U	14	U	17	UJ
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	11	U	12	U	14	U	17	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	11	U	12	U	14	U	17	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	11	U	12	U	14	U	17	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
Acetone	UG/KG	55	29%	200	0	17	58	11	U	12	UJ	14	U	8	J
Benzene	UG/KG	0	0%	60	0	0	58	11	U	12	U	14	U	17	U
Bromodichloromethane	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
Bromoform	UG/KG	0	0%		0	0	58	11	UJ	12	U	14	U	17	UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	11	U	12	U	14	U	17	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	11	U	12	U	14	U	17	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	11	UJ	12	U	14	U	17	UJ
Chlorodibromomethane	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
Chloroethane	UG/KG	0	0%	1900	0	0	58	11	U	12	U	14	U	17	U
Chloroform	UG/KG	0	0%	300	0	0	58	11	U	12	U	14	U	17	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	11	UJ	12	U	14	U	17	UJ
Methyl bromide	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	11	U	12	UJ	14	U	17	UJ
Methyl chloride	UG/KG	0	0%		0	0	58	11	U	12	U	14	U	17	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	11	U	12	UJ	14	U	17	UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	11	U	12	U	14	U	17	U
Methylene chloride	UG/KG	0	0%	100	0	0	58	11	U	12	U	14	U	17	U
Styrene	UG/KG	0	0%		0	0	58	11	UJ	12	U	14	U	17	UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	11	U	12	U	14	U	17	U
Toluene	UG/KG	14	10%	1500	0	6	58	11	U	12	U	14	U	17	U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	11	UJ	12	U	14	U	17	UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								SS12-45	SS12-46	SS12-47	SS12-48	SS12-49
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123241	123242	123243	123244	123245
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	10-Nov-98
QC_CODE								SA	SA	SA	SA	DU
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE					
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	11 U	12 U	14 U	17 U	15 U
Trichloroethene	UG/KG	0	0%	700	0	0	58	11 U	12 U	14 U	17 U	15 U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	11 U	12 U	14 U	17 U	15 U
<b>SEMI VOLATILE ORGANICS</b>												
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	80 U	84 U	85 U	92 U	9.1 R
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	80 U	84 U	85 U	92 U	93 R
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	80 U	84 U	85 U	92 U	93 R
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	80 U	84 U	85 U	92 U	93 R
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	190 U	200 U	200 U	220 U	48 R
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	80 U	84 U	85 U	92 U	41 R
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	80 U	84 U	85 U	92 U	22 R
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	80 U	84 R	85 U	92 R	93 R
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	190 UJ	200 U	200 UJ	220 U	45 R
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	80 U	84 U	85 U	92 U	23 R
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	80 U	84 U	85 U	92 U	20 R
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	80 U	84 U	85 U	92 U	18 R
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	80 U	84 U	85 U	92 U	18 R
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	80 U	84 U	85 U	92 U	17 R
2-Methylphenol	UG/KG	36	3%	100	0	2	58	80 U	84 U	85 U	92 U	16 R
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	190 U	200 U	200 U	220 U	14 R
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	80 U	84 U	85 U	92 UJ	18 R
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	80 U	84 U	85 U	92 UJ	93 R
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	190 UJ	200 U	200 UJ	220 UJ	220 R
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	190 U	200 U	200 UJ	220 U	220 R
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	80 U	84 U	85 U	92 U	22 R
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	80 U	84 U	85 U	92 U	40 R
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	80 UJ	84 U	85 UJ	92 UJ	93 R
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	80 U	84 U	85 U	92 U	17 R
4-Methylphenol	UG/KG	930	7%	900	1	4	58	80 U	84 U	85 U	92 U	42 R
4-Nitroaniline	UG/KG	0	0%		0	0	58	190 U	200 UJ	200 UJ	220 UJ	220 R
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	190 U	200 UJ	200 U	220 U	220 R

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID									SS12-45	SS12-46	SS12-47	SS12-48	SS12-49
MATRIX									SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID									123241	123242	123243	123244	123245
DEPTH_TOP									0	0	0	0	0
DEPTH_BOT									0.2	0.2	0.2	0.2	0.2
SAMP_DATE									09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	10-Nov-98
QC_CODE									SA	SA	SA	SA	DU
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF		Step 1	Step 1	Step 1	Step 1	Step 1
			DETECTION	4046	TAGM	DETECTS	ANALYSE						
Acenaphthene	UG/KG	1200	9%	50000	0	5	58		80 U	84 U	85 U	92 U	21 R
Acenaphthylene	UG/KG	22	5%	41000	0	3	58		80 U	84 U	85 U	92 U	19 R
Anthracene	UG/KG	1500	16%	50000	0	9	58		80 U	4.4 J	85 U	92 U	19 R
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58		12 J	19 J	13 J	11 J	6.7 J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58		14 J	22 J	15 J	12 J	10 J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58		17 J	22 J	22 J	18 J	26 J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58		80 UJ	49 J	13 J	30 J	24 R
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58		16 J	23 J	19 J	12 J	25 R
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58		80 U	84 U	85 U	92 U	21 R
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58		80 U	84 U	85 U	92 U	10 R
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58		80 U	84 U	85 U	92 U	93 R
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58		80 UJ	84 UJ	85 UJ	110 J	93 UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58		80 UJ	84 UJ	85 UJ	92 UJ	23 J
Carbazole	UG/KG	1100	22%		0	13	58		80 UJ	84 U	85 UJ	92 U	26 R
Chrysene	UG/KG	3600	93%	400	3	54	58		16 J	24 J	19 J	16 J	10 J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58		9.4 J	6.1 J	7.7 J	8.5 J	28 R
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58		80 UJ	84 UJ	85 UJ	92 U	22 R
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58		80 UJ	84 U	6 J	92 U	23 R
Dibenzofuran	UG/KG	500	9%	6200	0	5	58		80 U	84 U	85 U	92 U	19 R
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58		80 U	84 U	85 U	92 U	22 R
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58		80 U	84 U	85 U	92 U	22 R
Fluoranthene	UG/KG	8500	97%	50000	0	56	58		28 J	37 J	35 J	28 J	16 J
Fluorene	UG/KG	830	9%	50000	0	5	58		80 U	84 U	85 U	92 U	21 R
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58		80 U	84 U	85 U	92 U	21 R
Hexachlorobutadiene	UG/KG	0	0%		0	0	58		80 U	84 U	85 U	92 U	11 R
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58		80 U	84 U	85 UJ	92 UJ	90 R
Hexachloroethane	UG/KG	0	0%		0	0	58		80 U	84 U	85 U	92 U	6.6 R
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58		80 UJ	15 J	14 J	11 J	27 R
Isophorone	UG/KG	0	0%	4400	0	0	58		80 U	84 U	85 U	92 U	93 R
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58		80 U	84 U	85 U	92 U	10 R
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58		80 U	84 U	85 U	92 U	20 R

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								SS12-45	SS12-46	SS12-47	SS12-48	SS12-49
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123241	123242	123243	123244	123245
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	10-Nov-98
QC_CODE								SA	SA	SA	SA	DU
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE					
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	80 U	84 U	85 U	92 U	21 R
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	80 U	84 U	85 U	92 U	19 R
Anthracene	UG/KG	1500	16%	50000	0	9	58	80 U	4.4 J	85 U	92 U	19 R
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	12 J	19 J	13 J	11 J	6.7 J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	14 J	22 J	15 J	12 J	10 J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	17 J	22 J	22 J	18 J	26 J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	80 UJ	49 J	13 J	30 J	24 R
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	16 J	23 J	19 J	12 J	25 R
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 U	92 U	21 R
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 U	92 U	10 R
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 U	92 U	93 R
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	80 UJ	84 UJ	85 UJ	110 J	93 UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	80 UJ	84 UJ	85 UJ	92 UJ	23 J
Carbazole	UG/KG	1100	22%	0	0	13	58	80 UJ	84 U	85 UJ	92 U	26 R
Chrysene	UG/KG	3600	93%	400	3	54	58	16 J	24 J	19 J	16 J	10 J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	9.4 J	6.1 J	7.7 J	8.5 J	28 R
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	80 UJ	84 UJ	85 UJ	92 U	22 R
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	80 UJ	84 U	6 J	92 U	23 R
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	80 U	84 U	85 U	92 U	19 R
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	80 U	84 U	85 U	92 U	22 R
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	80 U	84 U	85 U	92 U	22 R
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	28 J	37 J	35 J	28 J	16 J
Fluorene	UG/KG	830	9%	50000	0	5	58	80 U	84 U	85 U	92 U	21 R
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	80 U	84 U	85 U	92 U	21 R
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 U	92 U	11 R
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 UJ	92 UJ	90 R
Hexachloroethane	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 U	92 U	6.6 R
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	80 UJ	15 J	14 J	11 J	27 R
Isophorone	UG/KG	0	0%	4400	0	0	58	80 U	84 U	85 U	92 U	93 R
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 U	92 U	10 R
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	58	80 U	84 U	85 U	92 U	20 R

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOC_ID								SS12-45		SS12-46		SS12-47		SS12-48		SS12-49	
MATRIX								SOIL		SOIL		SOIL		SOIL		SOIL	
SAMP_ID								123241		123242		123243		123244		123245	
DEPTH_TOP								0		0		0		0		0	
DEPTH_BOT								0.2		0.2		0.2		0.2		0.2	
SAMP_DATE								09-Nov-98		09-Nov-98		09-Nov-98		10-Nov-98		10-Nov-98	
QC_CODE								SA		SA		SA		SA		DU	
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF										
			DETECTION	4046	TAGM	DETECTS	ANALYSE										
Naphthalene	UG/KG	540	9%	13000	0	5	58	80	U	84	U	85	U	92	U	15	R
Nitrobenzene	UG/KG	0	0%	200	0	0	58	80	U	84	U	85	U	92	U	15	R
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	190	U	200	U	200	U	220	U	58	R
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	13	J	24	J	15	J	13	J	9.8	J
Phenol	UG/KG	42	29%	30	2	17	58	13	J	14	J	12	J	92	U	38	R
Pyrene	UG/KG	7000	93%	50000	0	54	58	24	J	32	J	28	J	24	J	14	J
<b>PESTICIDES/PCBS</b>																	
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
Aldrin	UG/KG	0	0%	41	0	0	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	40	U	41	U	42	U	45	U	46	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	81	U	84	U	86	U	92	U	93	U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	40	U	41	U	42	U	45	U	46	U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	40	U	41	U	42	U	45	U	46	U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	40	U	41	U	42	U	45	U	46	U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	40	U	41	U	42	U	45	U	46	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	40	U	41	U	42	U	45	U	46	U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U
Endosulfan II	UG/KG	3	3%	900	0	2	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
Endrin	UG/KG	5.8	5%	100	0	3	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
Endrin aldehyde	UG/KG	0	0%		0	0	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
Endrin ketone	UG/KG	0	0%		0	0	58	4	U	4.1	U	4.2	U	4.5	U	4.6	U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2	U	2.1	U	2.2	U	2.3	U	2.4	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-45 SOIL	SEAD-12 SS12-46 SOIL	SEAD-12 SS12-47 SOIL	SEAD-12 SS12-48 SOIL	SEAD-12 SS12-49 SOIL
									123241	123242	123243	123244	123245
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									09-Nov-98	09-Nov-98	09-Nov-98	10-Nov-98	10-Nov-98
									SA	SA	SA	SA	DU
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Heptachlor	UG/KG	0	0%	100	0	0	58	2	U	2.1	2.2	2.3	2.4
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2	U	2.1	2.2	2.3	2.4
Methoxychlor	UG/KG	0	0%		0	0	58	20	U	21	22	23	24
Toxaphene	UG/KG	0	0%		0	0	58	200	U	210	220	230	240
<b>METALS</b>													
Aluminum	MG/KG	18700	100%	19520	0	58	58	13500	J	13600	12100	15900	12100
Antimony	MG/KG	1.6	3%	6	0	2	58	1.1	R	1.1	1.4	1.6	1.5
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	4.2		3.1	3.8	5.7	3.7
Barium	MG/KG	146	100%	300	0	58	58	63.7		100	102	146	132
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.51	J	0.55	0.55	0.69	0.65
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.06	U	0.06	0.07	0.08	0.07
Calcium	MG/KG	154000	100%	125300	1	58	58	17400		3250	4120	4730	4850
Chromium	MG/KG	26.8	100%	30	0	58	58	24.1		18.8	18.2	20.5	17
Cobalt	MG/KG	17.1	100%	30	0	58	58	13.5		14.6	9	9.3	8.6
Copper	MG/KG	35.4	100%	33	3	58	58	33.1		14.6	21.1	22.9	20.1
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.66	U	0.63	0.71	0.71	0.8
Iron	MG/KG	31500	100%	37410	0	58	58	29100	J	24400	21600	23500	21000
Lead	MG/KG	43.8	100%	24.4	16	58	58	22	J	33.1	22.8	21	20.3
Magnesium	MG/KG	15700	100%	21700	0	58	58	6680		3320	3600	3800	3290
Manganese	MG/KG	2370	100%	1100	4	58	58	573		771	428	779	698
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.05	U	0.06	0.09	0.06	0.08
Nickel	MG/KG	57.4	95%	50	2	55	58	44		21.2	24.6	22.9	21.2
Potassium	MG/KG	2970	100%	2623	2	58	58	1250		1170	1290	1840	1140
Selenium	MG/KG	2.3	43%	2	2	25	58	0.85	U	0.85	1.6	0.67	1.3
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.22	U	0.22	0.28	0.32	0.3
Sodium	MG/KG	153	22%	188	0	13	58	58.5	J	46.6	57.8	68.2	62.4
Thallium	MG/KG	2.5	31%	0.855	18	18	58	0.97	U	0.96	1.2	1.7	1.3
Vanadium	MG/KG	33.1	100%	150	0	58	58	20		21.6	21.1	27	21.3
Zinc	MG/KG	197	100%	115	5	58	58	92.9	J	67.4	71.4	67.7	57.4
<b>WET CHEMISTRY</b>													
Nitrate/Nitrite	%V/V												



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY																	
LOC_ID																	
MATRIX																	
SAMP_ID																	
DEPTH_TOP																	
DEPTH_BOT																	
SAMP_DATE																	
QC_CODE																	
STUDY_ID																	
PARAMETER	UNIT	MAXIMU	FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
Nitrate/Nitrite	MG/KG		OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1
pH	SU		DETECTION	4046	TAGM	DETECTS	ANALYSE										
TOC-Soil 9060	MG/KG																
Percent Solids	%WW																
Percent Solids	MG/KG																
Cation exchange capacity	meq/100g																
SEAD-12																	
SS12-45																	
SOIL																	
123241																	
0																	
0.2																	
09-Nov-98																	
SA																	
SEAD-12																	
SS12-46																	
SOIL																	
123242																	
0																	
0.2																	
09-Nov-98																	
SA																	
SEAD-12																	
SS12-47																	
SOIL																	
123243																	
0																	
0.2																	
09-Nov-98																	
SA																	
SEAD-12																	
SS12-48																	
SOIL																	
123244																	
0																	
0.2																	
10-Nov-98																	
SA																	
SEAD-12																	
SS12-49																	
SOIL																	
123245																	
0																	
0.2																	
10-Nov-98																	
DU																	
RI Phase 1																	
Step 1																	

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-49 SOIL	SEAD-12 SS12-50 SOIL	SEAD-12 SS12-51 SOIL	SEAD-12 SS12-52 SOIL	SEAD-12 SS12-53 SOIL		
									123246	123247	123248	123249	123250		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									09-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE								
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	14	U	16	U	14	U	16	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	14	UJ	16	UJ	14	UJ	16	UJ
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	14	U	16	U	14	U	16	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	14	U	16	U	14	U	16	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	14	U	16	U	14	U	16	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
Acetone	UG/KG	55	29%	200	0	17	58	8	J	16	U	8	J	16	U
Benzene	UG/KG	0	0%	60	0	0	58	14	U	16	U	14	U	16	U
Bromodichloromethane	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
Bromoform	UG/KG	0	0%		0	0	58	14	U	16	UJ	14	UJ	16	UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	14	U	16	U	14	U	16	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	14	U	16	U	14	U	16	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	14	U	16	UJ	14	UJ	16	UJ
Chlorodibromomethane	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
Chloroethane	UG/KG	0	0%	1900	0	0	58	14	U	16	U	14	U	16	U
Chloroform	UG/KG	0	0%	300	0	0	58	14	U	16	U	14	U	16	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	14	U	16	UJ	14	UJ	16	UJ
Methyl bromide	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
Methyl chloride	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	16	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	14	U	16	U	14	U	16	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	14	U	16	U	14	U	16	U
Methylene chloride	UG/KG	0	0%	100	0	0	58	14	U	16	U	14	U	16	U
Styrene	UG/KG	0	0%		0	0	58	14	U	16	UJ	14	UJ	16	UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	14	U	16	U	14	U	16	U
Toluene	UG/KG	14	10%	1500	0	6	58	14	U	16	U	14	U	16	U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	14	U	16	UJ	14	UJ	16	UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-49 SOIL	SEAD-12 SS12-50 SOIL	SEAD-12 SS12-51 SOIL	SEAD-12 SS12-52 SOIL	SEAD-12 SS12-53 SOIL				
									123246	123247	123248	123249	123250				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									09-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	14	U	16	U	14	U	14	U	16	U
Trichloroethene	UG/KG	0	0%	700	0	0	58	14	U	16	U	14	U	14	U	16	U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	14	U	16	U	14	U	14	U	16	U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	180	U	100	U	96	U	97	U	110	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	180	U	100	U	96	U	97	U	110	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	180	U	100	U	96	U	97	U	110	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	180	U	100	U	96	U	97	U	110	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	440	U	250	U	230	U	240	U	270	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	180	U	100	U	96	U	97	U	110	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	180	U	100	U	96	U	97	U	110	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	180	U	100	U	96	U	97	U	110	U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	440	U	250	UJ	230	UJ	240	UJ	270	UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	180	U	100	U	96	U	97	U	110	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	180	U	100	U	96	U	97	U	110	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	180	U	100	U	96	U	97	U	110	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	180	U	100	U	96	U	97	U	110	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	180	U	100	U	96	U	97	U	110	U
2-Methylphenol	UG/KG	36	3%	100	0	2	58	36	J	100	U	96	U	97	U	110	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	440	U	250	U	230	U	240	U	270	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	180	U	100	U	96	U	97	U	110	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	180	U	100	U	96	U	97	U	110	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	440	U	250	UJ	230	UJ	240	UJ	270	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	440	U	250	U	230	U	240	U	270	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	180	U	100	U	96	U	97	U	110	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	180	U	100	U	96	U	97	U	110	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	180	U	100	UJ	96	UJ	97	UJ	110	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	180	U	100	U	96	U	97	U	110	U
4-Methylphenol	UG/KG	930	7%	900	1	4	58	930	U	100	U	96	U	97	U	110	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	440	U	250	U	230	U	240	U	270	U
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	440	U	250	U	230	U	240	U	270	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-49 SOIL	SEAD-12 SS12-50 SOIL	SEAD-12 SS12-51 SOIL	SEAD-12 SS12-52 SOIL	SEAD-12 SS12-53 SOIL
									123246	123247	123248	123249	123250
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									09-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98
									SA	SA	SA	SA	SA
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	180 U	100 U	96 U	97 U	110 U	
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	180 U	100 U	10 J	97 U	110 U	
Anthracene	UG/KG	1500	16%	50000	0	9	58	180 U	100 U	7.9 J	97 U	110 U	
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	180 U	17 J	59 J	10 J	9.4 J	
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	180 U	22 J	52 J	11 J	12 J	
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	180 U	28 J	88 J	14 J	15 J	
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	180 U	23 J	47 J	11 J	12 J	
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	180 U	23 J	76 J	14 J	13 J	
3is(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	180 U	100 UJ	96 UJ	97 UJ	110 UJ	
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	180 U	100 UJ	96 UJ	97 UJ	110 UJ	
Carbazole	UG/KG	1100	22%	0	0	13	58	180 U	10 J	22 J	97 UJ	110 UJ	
Chrysene	UG/KG	3600	93%	400	3	54	58	14 J	29 J	85 J	15 J	16 J	
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	180 U	5.6 J	6.3 J	97 U	7.4 J	
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	180 U	100 UJ	96 UJ	97 UJ	110 UJ	
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	180 U	100 UJ	96 UJ	97 UJ	110 UJ	
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	180 U	100 U	96 U	97 U	110 U	
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	180 U	100 U	96 U	97 U	92 J	
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	180 U	100 U	96 U	97 U	110 U	
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	20 J	47 J	160 J	26 J	26 J	
Fluorene	UG/KG	830	9%	50000	0	5	58	180 U	100 U	96 U	97 U	110 U	
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	180 U	100 U	96 U	97 U	110 U	
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	
Hexachloroethane	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	180 U	20 J	48 J	10 J	10 J	
Isophorone	UG/KG	0	0%	4400	0	0	58	180 U	100 U	96 U	97 U	110 U	
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	58	180 U	100 U	96 U	97 U	110 U	

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								SS12-49	SS12-50	SS12-51	SS12-52	SS12-53
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123246	123247	123248	123249	123250
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								09-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98	11-Nov-98
QC_CODE								SA	SA	SA	SA	SA
STUDY_ID								RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE					
Naphthalene	UG/KG	540	9%	13000	0	5	58	180 U	100 U	96 U	97 U	110 U
Nitrobenzene	UG/KG	0	0%	200	0	0	58	180 U	100 U	96 U	97 U	110 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	440 U	250 U	230 U	240 U	270 U
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	13 J	26 J	32 J	14 J	14 J
Phenol	UG/KG	42	29%	30	2	17	58	42 J	100 U	96 U	97 U	16 J
Pyrene	UG/KG	7000	93%	50000	0	54	58	12 J	38 J	110 J	22 J	20 J
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
Aldrin	UG/KG	0	0%	41	0	0	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	45 U	51 U	48 U	48 U	55 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	92 U	100 U	97 U	98 U	110 U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	45 U	51 U	48 U	48 U	55 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	45 U	51 U	48 U	48 U	55 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	45 U	51 U	48 U	48 U	55 U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	45 U	51 U	48 U	48 U	55 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	45 U	51 U	48 U	48 U	55 U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
Endrin	UG/KG	5.8	5%	100	0	3	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
Endrin aldehyde	UG/KG	0	0%		0	0	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
Endrin ketone	UG/KG	0	0%		0	0	58	4.5 U	5.1 U	4.8 U	4.8 U	5.5 U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.3 U	2.6 U	2.5 U	2.5 U	2.8 U



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY																			
LOC_ID																			
MATRIX																			
SAMP_ID																			
DEPTH_TOP																			
DEPTH_BOT																			
SAMP_DATE																			
QC_CODE																			
STUDY_ID																			
PARAMETER	UNIT	MAXIMU	FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER												
Nitrate/Nitrite	MG/KG		OF	TAGM	ABOVE	OF	OF	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
pH	SU		DETECTION	4046	TAGM	DETECTS	ANALYSE												
TOC-Soil 9060	MG/KG																		
Percent Solids	%W/W																		
Percent Solids	MG/KG																		
Cation exchange capacity	meq/100g																		
SEAD-12 SS12-49 SOIL								123246		123247		123248		123249		123250			
								0		0		0		0		0			
								0.2		0.2		0.2		0.2		0.2			
								09-Nov-98		11-Nov-98		11-Nov-98		11-Nov-98		11-Nov-98			
								SA		SA		SA		SA		SA			
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-54 SOIL		SEAD-12 SS12-55 SOIL		SEAD-12 SS12-56 SOIL		SEAD-12 SS12-57 SOIL		SEAD-12 SS12-58 SOIL			
										123251	123106	123252	123253	123254						
										0	0	0	0	0						
										0.2	0.2	0.2	0.2	0.2						
										11-Nov-98	13-Oct-98	11-Nov-98	11-Nov-98	11-Nov-98						
										SA	SA	SA	SA	SA						
										RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE													
VOLATILE ORGANICS																				
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	12	U		12	U		13	U		12	U	14	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	12	U		12	U		13	U		12	UJ	14	U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	12	U		12	U		13	U		12	U	14	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	12	U		12	U		13	U		12	U	14	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	12	U		12	U		13	U		12	U	14	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
Acetone	UG/KG	55	29%	200	0	17	58	12	U		12	U		13	U		8	J	14	U
Benzene	UG/KG	0	0%	60	0	0	58	12	U		12	U		13	U		12	U	14	U
Bromodichloromethane	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
Bromoform	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	UJ	14	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	12	U		12	U		13	U		12	U	14	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	12	U		12	U		13	U		12	U	14	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	12	U		12	U		13	U		12	UJ	14	U
Chlorodibromomethane	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
Chloroethane	UG/KG	0	0%	1900	0	0	58	12	U		12	U		13	U		12	U	14	U
Chloroform	UG/KG	0	0%	300	0	0	58	12	U		12	U		13	U		12	U	14	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	12	U		12	U		13	U		12	UJ	14	U
Methyl bromide	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
Methyl chloride	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	U	14	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	12	U		12	U		13	U		12	U	14	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	12	U		12	U		13	U		12	U	14	U
Methylene chloride	UG/KG	0	0%	100	0	0	58	12	U		12	U		13	U		12	U	14	U
Styrene	UG/KG	0	0%		0	0	58	12	U		12	U		13	U		12	UJ	14	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	12	U		12	U		13	U		12	U	14	U
Toluene	UG/KG	14	10%	1500	0	6	58	12	U		12	U		13	U		12	U	14	U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	12	U		12	U		13	U		12	UJ	14	U



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-54 SOIL	SEAD-12 SS12-55 SOIL	SEAD-12 SS12-56 SOIL	SEAD-12 SS12-57 SOIL	SEAD-12 SS12-58 SOIL
									123251	123106	123252	123253	123254
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									11-Nov-98	13-Oct-98	11-Nov-98	11-Nov-98	11-Nov-98
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	12 U	12 U	13 U	12 U	14 U	
Trichloroethene	UG/KG	0	0%	700	0	0	58	12 U	12 U	13 U	12 U	14 U	
Vinyl chloride	UG/KG	0	0%	200	0	0	58	12 U	12 U	13 U	12 U	14 U	
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	80 U	80 UJ	86 U	77 U	80 U	
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	80 U	80 U	86 U	77 U	80 U	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	80 U	80 U	86 U	77 U	80 U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	80 U	80 U	86 U	77 U	80 U	
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	200 U	200 UJ	210 U	190 U	200 U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	80 U	80 U	86 U	77 U	80 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	80 U	80 U	86 U	77 U	80 U	
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	80 U	80 U	86 U	77 U	80 U	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	200 UJ	200 UJ	210 UJ	190 UJ	200 UJ	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	80 U	80 U	86 U	77 U	80 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	80 U	80 U	86 U	77 U	80 U	
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	80 U	80 U	86 U	77 U	80 U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	80 U	80 U	86 U	77 U	80 U	
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	80 U	80 U	86 U	77 U	80 U	
2-Methylphenol	UG/KG	36	3%	100	0	2	58	80 U	80 U	86 U	77 U	80 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	200 U	200 U	210 U	190 U	200 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	80 U	80 U	86 U	77 U	80 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	80 U	80 U	86 U	77 U	80 U	
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	200 UJ	200 UJ	210 UJ	190 UJ	200 UJ	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	200 U	200 U	210 U	190 U	200 UJ	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	80 U	80 U	86 U	77 U	80 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	80 U	80 U	86 U	77 U	80 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	80 UJ	80 U	86 UJ	77 UJ	80 UJ	
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	80 U	80 U	86 U	77 U	80 U	
4-Methylphenol	UG/KG	930	7%	900	1	4	58	80 U	80 U	86 U	9.9 J	80 U	
4-Nitroaniline	UG/KG	0	0%		0	0	58	200 U	200 UJ	210 U	190 U	200 UJ	
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	200 U	200 U	210 U	190 U	200 U	

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-54 SOIL	SEAD-12 SS12-55 SOIL	SEAD-12 SS12-56 SOIL	SEAD-12 SS12-57 SOIL	SEAD-12 SS12-58 SOIL				
									123251	123106	123252	123253	123254				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									11-Nov-98	13-Oct-98	11-Nov-98	11-Nov-98	11-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1			
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	80	U	80	U	86	U	77	U	80	U
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	80	U	80	U	86	U	77	U	80	U
Anthracene	UG/KG	1500	16%	50000	0	9	58	80	U	80	U	86	U	77	U	80	U
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	80	U	80	U	86	U	77	U	4.9	J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	4.5	J	80	UJ	86	U	77	U	5.1	J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	5.3	J	80	U	6.5	J	77	U	7.4	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	80	UJ	80	U	86	UJ	77	UJ	80	U
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	80	U	80	U	4.5	J	77	U	6.7	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58	80	U	80	U	86	U	77	U	80	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58	80	U	80	U	86	U	77	U	80	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58	80	U	80	U	86	U	77	U	80	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	80	UJ	80	U	86	UJ	77	UJ	80	UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	80	UJ	80	U	86	UJ	77	UJ	80	UJ
Carbazole	UG/KG	1100	22%		0	13	58	80	UJ	80	UJ	86	UJ	77	UJ	80	UJ
Chrysene	UG/KG	3600	93%	400	3	54	58	4.2	J	80	U	5.8	J	3.9	J	8.3	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	4.1	J	80	U	4.8	J	5	J	6.1	J
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	80	UJ	80	U	86	UJ	77	UJ	80	UJ
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	80	UJ	80	U	86	UJ	77	UJ	80	UJ
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	80	U	80	U	86	U	77	U	80	U
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	80	U	80	U	86	U	77	U	80	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	80	U	80	U	86	U	77	U	80	U
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	4.8	J	80	U	9.6	J	4	J	20	J
Fluorene	UG/KG	830	9%	50000	0	5	58	80	U	80	U	86	U	77	U	80	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	80	U	80	U	86	U	77	U	80	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	58	80	U	80	UJ	86	U	77	U	80	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58	80	U	80	UJ	86	U	77	U	80	UJ
Hexachloroethane	UG/KG	0	0%		0	0	58	80	U	80	U	86	U	77	U	80	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	80	UJ	80	U	86	UJ	77	UJ	80	U
Isophorone	UG/KG	0	0%	4400	0	0	58	80	U	80	U	86	U	77	U	80	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58	80	U	80	U	86	U	77	U	80	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58	80	U	80	U	86	U	77	U	80	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-54 SOIL	SEAD-12 SS12-55 SOIL	SEAD-12 SS12-56 SOIL	SEAD-12 SS12-57 SOIL	SEAD-12 SS12-58 SOIL
									123251	123106	123252	123253	123254
									0	0	0	0	0
									0.2	0.2	0.2	0.2	0.2
									11-Nov-98	13-Oct-98	11-Nov-98	11-Nov-98	11-Nov-98
									SA	SA	SA	SA	SA
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
									Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Naphthalene	UG/KG	540	9%	13000	0	5	58	80 U	80 U	86 U	77 U	80 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	58	80 U	80 U	86 U	77 U	80 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	200 U	200 UJ	210 U	190 U	200 U	
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	80 U	80 U	5 J	77 U	10 J	
Phenol	UG/KG	42	29%	30	2	17	58	10 J	80 U	86 U	12 J	20 J	
Pyrene	UG/KG	7000	93%	50000	0	54	58	4.3 J	80 U	8.2 J	77 UJ	14 J	
<b>PESTICIDES/PCBS</b>													
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4 U	4 U	4.3 U	3.9 U	4 U	
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4 U	4 U	4.3 U	3.9 U	4 U	
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4 U	4 U	4.3 U	3.9 U	4 U	
Aldrin	UG/KG	0	0%	41	0	0	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	40 U	40 U	43 U	39 U	40 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	82 U	82 U	88 U	79 U	82 U	
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	40 U	40 U	43 U	39 U	40 U	
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	40 U	40 U	43 U	39 U	40 U	
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	40 U	40 U	43 U	39 U	40 U	
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	40 U	40 U	43 U	39 U	40 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	40 U	40 U	43 U	39 U	40 U	
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4 U	4 U	4.3 U	3.9 U	4 U	
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	
Endosulfan II	UG/KG	3	3%	900	0	2	58	4 U	4 U	4.3 U	3.9 U	4 U	
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4 U	4 U	4.3 U	3.9 U	4 U	
Endrin	UG/KG	5.8	5%	100	0	3	58	4 U	4 U	4.3 U	3.9 U	4 U	
Endrin aldehyde	UG/KG	0	0%		0	0	58	4 U	4 U	4.3 U	3.9 U	4 U	
Endrin ketone	UG/KG	0	0%		0	0	58	4 U	4 U	4.3 U	3.9 U	4 U	
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U	

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								SS12-54	SS12-55	SS12-56	SS12-57	SS12-58
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123251	123106	123252	123253	123254
DEPTH_TOP								0	0	0	0	0
DEPTH_BOT								0.2	0.2	0.2	0.2	0.2
SAMP_DATE								11-Nov-98	13-Oct-98	11-Nov-98	11-Nov-98	11-Nov-98
QC_CODE								SA	SA	SA	SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE					
Heptachlor	UG/KG	0	0%	100	0	0	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.1 U	2.1 U	2.2 U	2 U	2.1 U
Methoxychlor	UG/KG	0	0%		0	0	58	21 U	21 U	22 U	20 U	21 U
Toxaphene	UG/KG	0	0%		0	0	58	210 U	210 U	220 U	200 U	210 U
<b>METALS</b>												
Aluminum	MG/KG	18700	100%	19520	0	58	58	11500 J	13300	15700 J	14800 J	12600 J
Antimony	MG/KG	1.6	3%	6	0	2	58	1.3 R	1 R	1.4 R	1.2 R	1.3 R
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	2.6	2.6	4.8	3.5	3.7
Barium	MG/KG	146	100%	300	0	58	58	60	46.6	80.4	77.3	99.9
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.51 J	0.56 J	0.56 J	0.6 J	0.49 J
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.06 U	0.05 U	0.07 U	0.06 U	0.06 U
Calcium	MG/KG	154000	100%	125300	1	58	58	25400	2520 J	3210	3490	6650
Chromium	MG/KG	26.8	100%	30	0	58	58	19.8	24.1	23.5	26.8	20
Cobalt	MG/KG	17.1	100%	30	0	58	58	12.6	12.1	11.9	16	11.5
Copper	MG/KG	35.4	100%	33	3	58	58	25.6	28.9	12.1	33.8	22.5
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.63 U	0.64 U	0.75 U	0.7 U	0.59 U
Iron	MG/KG	31500	100%	37410	0	58	58	22200 J	28000 J	28600 J	31500 J	24700 J
Lead	MG/KG	43.8	100%	24.4	16	58	58	12.8	20.6	13.5	23.2	12.7 J
Magnesium	MG/KG	15700	100%	21700	0	58	58	7630	5270	4220	6390	4900
Manganese	MG/KG	2370	100%	1100	4	58	58	377	384	691	436	541
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.06 U	0.1 J	0.08 J	0.06 U	0.06 J
Nickel	MG/KG	57.4	95%	50	2	55	58	32.4	42.8	26	37.4	33.2
Potassium	MG/KG	2970	100%	2623	2	58	58	1270	957	1020 J	1600	1560
Selenium	MG/KG	2.3	43%	2	2	25	58	0.98 U	0.78 U	1.3 J	0.92 U	1.7 J
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.26 U	0.2 U	0.27 U	0.24 U	0.25 U
Sodium	MG/KG	153	22%	188	0	13	58	53.9 U	42.7 U	57.5 U	53.8 J	52 U
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.1 U	0.88 U	1.2 U	1.2 J	1.5 J
Vanadium	MG/KG	33.1	100%	150	0	58	58	18.2	19	23.2	21	19.3
Zinc	MG/KG	197	100%	115	5	58	58	69.6 J	65.2 J	65.5 J	131 J	79.1 J
<b>WET CHEMISTRY</b>												
Nitrate/Nitrite	%V/V											

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-54 SOIL	SEAD-12 SS12-55 SOIL	SEAD-12 SS12-56 SOIL	SEAD-12 SS12-57 SOIL	SEAD-12 SS12-58 SOIL
									123251	123106	123252	123253	123254
				0	0.2	11-Nov-98			0	0.2	0	0.2	0
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
Nitrate/Nitrite	MG/KG												
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%W/W												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-59 SOIL	SEAD-12 SS12-60 SOIL	SEAD-12 SS12-61 SOIL	SEAD-12 SS12-62 SOIL	SEAD-12 SS12-63 SOIL		
									123255	123256	123257	123258	123259		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									11-Nov-98	12-Nov-98	10-Nov-98	11-Nov-98	10-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1		
									Step 1	Step 1	Step 1	Step 1	Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE								
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	12	U	13	U	14	U	13	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	12	U	13	UJ	14	UJ	13	UJ
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	12	U	13	U	14	U	13	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	12	U	13	U	14	U	13	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	12	U	13	U	14	U	13	U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
Acetone	UG/KG	55	29%	200	0	17	58	12	U	6	J	17	14	U	55
Benzene	UG/KG	0	0%	60	0	0	58	12	U	13	U	14	U	13	U
Bromodichloromethane	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
Bromoform	UG/KG	0	0%		0	0	58	12	U	13	UJ	14	UJ	13	UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	12	U	13	U	14	U	13	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	12	U	13	U	14	U	13	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	12	U	13	UJ	14	UJ	13	UJ
Chlorodibromomethane	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
Chloroethane	UG/KG	0	0%	1900	0	0	58	12	U	13	U	14	U	13	U
Chloroform	UG/KG	0	0%	300	0	0	58	12	U	13	U	14	U	13	U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	12	U	13	UJ	14	UJ	13	UJ
Methyl bromide	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
Methyl butyl ketone	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
Methyl chloride	UG/KG	0	0%		0	0	58	12	U	13	U	14	U	13	U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	12	U	13	U	14	U	13	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	12	U	13	U	14	U	13	U
Methylene chloride	UG/KG	0	0%	100	0	0	58	12	U	13	U	14	U	13	U
Styrene	UG/KG	0	0%		0	0	58	12	U	13	UJ	14	UJ	13	UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	12	U	13	U	14	U	13	U
Toluene	UG/KG	14	10%	1500	0	6	58	12	U	13	U	2	J	14	U
Total Xylenes	UG/KG	0	0%	1200	0	0	58	12	U	13	UJ	14	UJ	13	UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-59 SOIL	SEAD-12 SS12-60 SOIL	SEAD-12 SS12-61 SOIL	SEAD-12 SS12-62 SOIL	SEAD-12 SS12-63 SOIL				
									123255	123256	123257	123258	123259				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									11-Nov-98	12-Nov-98	10-Nov-98	11-Nov-98	10-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	12	U	13	U	12	U	14	U	13	U
Trichloroethene	UG/KG	0	0%	700	0	0	58	12	U	13	U	12	U	14	U	13	U
Vinyl chloride	UG/KG	0	0%	200	0	0	58	12	U	13	U	12	U	14	U	13	U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	81	U	85	U	78	U	87	U	82	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	81	U	85	U	78	U	87	U	82	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	81	U	85	U	78	U	87	U	82	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	81	U	85	U	78	U	87	U	82	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	200	U	200	U	190	U	210	U	200	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	81	U	85	U	78	U	87	U	82	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	81	U	85	U	78	U	87	U	82	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	81	U	85	U	78	U	87	U	82	U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	200	UJ	200	UJ	190	UJ	210	UJ	200	UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	81	U	85	U	78	U	87	U	82	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	81	U	85	U	78	U	87	U	82	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	81	U	85	U	78	U	87	U	82	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	81	U	85	U	78	U	87	U	82	U
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	81	U	85	U	78	U	87	U	82	U
2-Methylphenol	UG/KG	36	3%	100	0	2	58	81	U	85	U	78	U	87	U	82	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	200	U	200	U	190	U	210	U	200	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	81	U	85	U	78	U	87	U	82	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	81	U	85	U	78	U	87	U	82	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	200	UJ	200	UJ	190	UJ	210	UJ	200	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	200	U	200	U	190	U	210	U	200	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	81	U	85	U	78	U	87	U	82	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	81	U	85	U	78	U	87	U	82	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	81	UJ	85	UJ	78	UJ	87	UJ	82	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	81	U	85	U	78	U	87	U	82	U
4-Methylphenol	UG/KG	930	7%	900	1	4	58	4.3	J	85	U	78	U	87	U	82	U
4-Nitroaniline	UG/KG	0	0%		0	0	58	200	U	200	U	190	UJ	210	U	200	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	200	U	200	U	190	U	210	U	200	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-59 SOIL	SEAD-12 SS12-60 SOIL	SEAD-12 SS12-61 SOIL	SEAD-12 SS12-62 SOIL	SEAD-12 SS12-63 SOIL				
									123255	123256	123257	123258	123259				
									0	0	0	0	0				
									0.2	0.2	0.2	0.2	0.2				
									11-Nov-98	12-Nov-98	10-Nov-98	11-Nov-98	10-Nov-98				
									SA	SA	SA	SA	SA				
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1				
									Step 1	Step 1	Step 1	Step 1	Step 1				
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE										
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	81	U	85	U	78	U	87	U	82	U
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	81	U	85	U	78	U	87	U	82	U
Anthracene	UG/KG	1500	16%	50000	0	9	58	81	U	85	U	78	U	87	U	82	U
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	4.6	J	85	U	78	U	87	U	82	U
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	5.4	J	4.7	J	78	U	87	U	82	U
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	6.3	J	6	J	4.8	J	4.5	J	6.6	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	81	UJ	85	UJ	78	U	87	UJ	82	U
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	6.2	J	85	U	78	U	5	J	4.8	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	U	87	U	82	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	U	87	U	82	U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	U	87	U	82	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	81	UJ	85	UJ	78	UJ	87	UJ	82	UJ
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	81	UJ	85	UJ	78	UJ	87	UJ	82	UJ
Carbazole	UG/KG	1100	22%	0	0	13	58	81	UJ	85	UJ	78	UJ	87	UJ	82	UJ
Chrysene	UG/KG	3600	93%	400	3	54	58	7.2	J	5.4	J	4.5	J	5	J	6.3	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	81	U	85	U	78	U	87	U	82	U
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	81	UJ	85	UJ	78	UJ	87	UJ	82	UJ
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	81	UJ	85	UJ	78	UJ	87	UJ	82	UJ
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	81	U	85	U	78	U	87	U	82	U
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	81	U	85	U	78	U	87	U	82	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	81	U	85	U	78	U	87	U	82	U
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	11	J	10	J	6.2	J	8.2	J	9.8	J
Fluorene	UG/KG	830	9%	50000	0	5	58	81	U	85	U	78	U	87	U	82	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	81	U	85	U	78	U	87	U	82	U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	U	87	U	82	U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	UJ	87	U	82	UJ
Hexachloroethane	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	U	87	U	82	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	81	UJ	85	UJ	78	U	87	UJ	82	U
Isophorone	UG/KG	0	0%	4400	0	0	58	81	U	85	U	78	U	87	U	82	U
N-Nitrosodiphenylamine	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	U	87	U	82	U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	58	81	U	85	U	78	U	87	U	82	U



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-59 SOIL 123255	SEAD-12 SS12-60 SOIL 123256	SEAD-12 SS12-61 SOIL 123257	SEAD-12 SS12-62 SOIL 123258	SEAD-12 SS12-63 SOIL 123259		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Naphthalene	UG/KG	540	9%	13000	0	5	58	81	U	85	U	78	U	87	U
Nitrobenzene	UG/KG	0	0%	200	0	0	58	81	U	85	U	78	U	87	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	200	U	200	U	190	U	210	U
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	5.8	J	4.9	J	78	U	87	J
Phenol	UG/KG	42	29%	30	2	17	58	10	J	85	U	8.7	J	87	U
Pyrene	UG/KG	7000	93%	50000	0	54	58	9.2	J	7.6	J	5.2	J	6.6	J
<b>PESTICIDES/PCBS</b>															
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	4.1	U	4.2	U	3.9	U	4.3	U
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4.1	U	4.2	U	3.9	U	4.3	U
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	4.1	U	4.2	U	3.9	U	4.3	U
Aldrin	UG/KG	0	0%	41	0	0	58	2.1	U	2.2	U	2	U	2.2	U
Alpha-BHC	UG/KG	51	5%	110	0	3	58	2.1	U	2.2	U	2	U	2.2	U
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	2.1	U	1.2	J	2	U	2.2	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	41	U	42	U	39	U	43	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	82	U	86	U	80	U	88	U
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	41	U	42	U	39	U	43	U
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	41	U	42	U	39	U	43	U
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	41	U	42	U	39	U	43	U
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	41	U	42	U	39	U	43	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	41	U	42	U	39	U	43	U
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	2.1	U	2.2	U	2	U	2.2	U
Delta-BHC	UG/KG	0	0%	300	0	0	58	2.1	U	2.2	U	2	U	2.2	U
Dieldrin	UG/KG	3.2	2%	44	0	1	58	4.1	U	4.2	U	3.9	U	4.3	U
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	2.1	U	2.2	U	2	U	2.2	U
Endosulfan II	UG/KG	3	3%	900	0	2	58	4.1	U	4.2	U	3.9	U	4.3	U
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	4.1	U	4.2	U	3.9	U	4.3	U
Endrin	UG/KG	5.8	5%	100	0	3	58	4.1	U	4.2	U	3.9	U	4.3	U
Endrin aldehyde	UG/KG	0	0%		0	0	58	4.1	U	4.2	U	3.9	U	4.3	U
Endrin ketone	UG/KG	0	0%		0	0	58	4.1	U	4.2	U	3.9	U	4.3	U
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	2.1	U	2.2	U	2	U	2.2	U
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	2.1	U	2.2	U	2	U	2.2	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 SS12-59 SOIL	SEAD-12 SS12-60 SOIL	SEAD-12 SS12-61 SOIL	SEAD-12 SS12-62 SOIL	SEAD-12 SS12-63 SOIL		
									123255	123256	123257	123258	123259		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									11-Nov-98	12-Nov-98	10-Nov-98	11-Nov-98	10-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1		
									Step 1	Step 1	Step 1	Step 1	Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE								
Heptachlor	UG/KG	0	0%	100	0	0	58	2.1	U	2.2	U	2	U	2.1	U
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	2.1	U	2.2	U	2	U	2.1	U
Methoxychlor	UG/KG	0	0%	0	0	0	58	21	U	22	U	20	U	21	U
Toxaphene	UG/KG	0	0%	0	0	0	58	210	U	220	U	200	U	210	U
<b>METALS</b>															
Aluminum	MG/KG	18700	100%	19520	0	58	58	12300	J	13700	J	13200	J	13300	J
Antimony	MG/KG	1.6	3%	6	0	2	58	1.4	R	1.2	R	1.2	R	1.4	R
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	4.2		3.9		2.4		4.3	
Barium	MG/KG	146	100%	300	0	58	58	62		85		49.9		89.7	
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.5	J	0.48	J	0.48	J	0.49	J
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.07	U	0.06	U	0.06	U	0.07	U
Calcium	MG/KG	154000	100%	125300	1	58	58	13000		2800		2880		12000	
Chromium	MG/KG	26.8	100%	30	0	58	58	20.6		20.7		23.9		22.5	
Cobalt	MG/KG	17.1	100%	30	0	58	58	11	J	12.6		14.5		12.4	
Copper	MG/KG	35.4	100%	33	3	58	58	18.6		20.5		24.9		28.7	
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.64	U	0.71	U	0.62	U	0.78	U
Iron	MG/KG	31500	100%	37410	0	58	58	24200	J	25100	J	27300	J	27000	J
Lead	MG/KG	43.8	100%	24.4	16	58	58	8.9	J	21.3		15.4	J	20.1	J
Magnesium	MG/KG	15700	100%	21700	0	58	58	5360		4090		5640		5630	
Manganese	MG/KG	2370	100%	1100	4	58	58	386		717		573		740	
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.05	U	0.07	J	0.06	U	0.06	U
Nickel	MG/KG	57.4	95%	50	2	55	58	31.8		28.3		42.6		40.1	
Potassium	MG/KG	2970	100%	2623	2	58	58	1200		1160		1350		1900	
Selenium	MG/KG	2.3	43%	2	2	25	58	1.1	U	0.91	U	0.94	U	1.1	U
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.28	U	0.24	U	0.25	U	0.28	U
Sodium	MG/KG	153	22%	188	0	13	58	58.7	U	50	U	51.5	U	59.6	U
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.2	U	1.6	J	1.1	U	1.2	U
Vanadium	MG/KG	33.1	100%	150	0	58	58	17.9		22.1		17.3		21.7	
Zinc	MG/KG	197	100%	115	5	58	58	74.5	J	84.5	J	84.7	J	92.7	J
<b>WET CHEMISTRY</b>															
Nitrate/Nitrite	%WWW														

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY																	
LOC_ID																	
MATRIX																	
SAMP_ID																	
DEPTH_TOP																	
DEPTH_BOT																	
SAMP_DATE																	
QC_CODE																	
STUDY_ID																	
PARAMETER	UNIT	MAXIMU	FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
Nitrate/Nitrite	MG/KG		OF	TAGM	ABOVE	OF	OF	SS12-59	SS12-60	SS12-61	SS12-62	SS12-63	SS12-64	SS12-65	SS12-66	SS12-67	SS12-68
pH	SU		DETECTION	4046	TAGM	DETECTS	ANALYSE	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
TOC-Soil 9060	MG/KG							123255	123256	123257	123258	123259	123260	123261	123262	123263	123264
Percent Solids	%W/W							0	0	0	0	0	0	0	0	0	0
Percent Solids	MG/KG							0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Cation exchange capacity	meq/100g							11-Nov-98	12-Nov-98	10-Nov-98	11-Nov-98	10-Nov-98	11-Nov-98	10-Nov-98	11-Nov-98	10-Nov-98	11-Nov-98
								SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
								RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		SEAD-12	
LOC_ID								SS12-66		SS12-67		SS12-68	
MATRIX								SOIL		SOIL		SOIL	
SAMP_ID								123260		123108		123213	
DEPTH_TOP								0		0		0	
DEPTH_BOT								0.2		0.2		0.2	
SAMP_DATE								11-Nov-98		12-Oct-98		03-Nov-98	
QC_CODE								SA		SA		SA	
STUDY_ID								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE						
<b>VOLATILE ORGANICS</b>													
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	58	11	U	12	U	11	UJ
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	58	11	UJ	12	U	11	UJ
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	58	11	U	12	U	11	UJ
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	58	11	U	12	U	11	UJ
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	58	11	U	12	U	11	UJ
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	58	11	U	12	U	11	UJ
1,2-Dichloropropane	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
Acetone	UG/KG	55	29%	200	0	17	58	11	U	12	U	17	UJ
Benzene	UG/KG	0	0%	60	0	0	58	11	U	12	U	11	UJ
Bromodichloromethane	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
Bromoform	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	58	11	U	12	U	11	UJ
Carbon tetrachloride	UG/KG	0	0%	600	0	0	58	11	U	12	U	11	UJ
Chlorobenzene	UG/KG	0	0%	1700	0	0	58	11	UJ	12	U	11	UJ
Chlorodibromomethane	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
Chloroethane	UG/KG	0	0%	1900	0	0	58	11	U	12	U	11	UJ
Chloroform	UG/KG	0	0%	300	0	0	58	11	U	12	U	11	UJ
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
Ethyl benzene	UG/KG	0	0%	5500	0	0	58	11	UJ	12	U	11	UJ
Methyl bromide	UG/KG	0	0%		0	0	58	11	U	12	U	11	UJ
Methyl butyl ketone	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
Methyl chloride	UG/KG	0	0%		0	0	58	11	U	12	U	11	UJ
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	58	11	U	12	U	11	UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	58	11	UJ	12	U	11	UJ
Methylene chloride	UG/KG	0	0%	100	0	0	58	11	U	12	U	11	UJ
Styrene	UG/KG	0	0%		0	0	58	11	UJ	12	U	11	UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	58	11	UJ	12	U	11	UJ
Toluene	UG/KG	14	10%	1500	0	6	58	4	J	5	J	4	J
Total Xylenes	UG/KG	0	0%	1200	0	0	58	11	UJ	12	U	11	UJ

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	
LOC_ID								SS12-66	SS12-67	SS12-68	
MATRIX								SOIL	SOIL	SOIL	
SAMP_ID								123260	123108	123213	
DEPTH_TOP								0	0	0	
DEPTH_BOT								0.2	0.2	0.2	
SAMP_DATE								11-Nov-98	12-Oct-98	03-Nov-98	
QC_CODE								SA	SA	SA	
STUDY_ID								RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSE				
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	58	11 UJ	12 U	11 UJ	
Trichloroethene	UG/KG	0	0%	700	0	0	58	11 UJ	12 U	11 UJ	
Vinyl chloride	UG/KG	0	0%	200	0	0	58	11 U	12 U	11 UJ	
<b>SEMI VOLATILE ORGANICS</b>											
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	58	73 U	71 UJ	72 UJ	
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	58	73 U	71 U	72 UJ	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	58	73 U	71 U	72 UJ	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	58	73 U	71 U	72 UJ	
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	58	180 U	170 UJ	170 U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	58	73 U	71 U	72 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	58	73 U	71 U	72 U	
2,4-Dimethylphenol	UG/KG	0	0%		0	0	58	73 U	71 U	72 UJ	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	58	180 UJ	170 UJ	170 R	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	58	73 U	71 U	72 UJ	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	58	73 U	71 U	72 UJ	
2-Chloronaphthalene	UG/KG	0	0%		0	0	58	73 U	71 U	72 UJ	
2-Chlorophenol	UG/KG	0	0%	800	0	0	58	73 U	71 U	72 U	
2-Methylnaphthalene	UG/KG	160	10%	36400	0	6	58	73 U	71 U	72 UJ	
2-Methylphenol	UG/KG	36	3%	100	0	2	58	73 U	71 U	72 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	58	180 U	170 U	170 UJ	
2-Nitrophenol	UG/KG	0	0%	330	0	0	58	73 U	71 U	72 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	58	73 U	71 U	72 UJ	
3-Nitroaniline	UG/KG	0	0%	500	0	0	58	180 UJ	170 UJ	170 UJ	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	58	180 U	170 U	170 UJ	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	58	73 U	71 U	72 UJ	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	58	73 U	71 U	72 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	58	73 UJ	71 U	72 U	
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	58	73 U	71 U	72 UJ	
4-Methylphenol	UG/KG	930	7%	900	1	4	58	73 U	71 U	72 U	
4-Nitroaniline	UG/KG	0	0%		0	0	58	180 U	170 UJ	170 UJ	
4-Nitrophenol	UG/KG	0	0%	100	0	0	58	180 U	170 U	170 U	

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12		
LOC_ID									SS12-66	SS12-67	SS12-68		
MATRIX									SOIL	SOIL	SOIL		
SAMP_ID									123260	123108	123213		
DEPTH_TOP									0	0	0		
DEPTH_BOT									0.2	0.2	0.2		
SAMP_DATE									11-Nov-98	12-Oct-98	03-Nov-98		
QC_CODE									SA	SA	SA		
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF						
			DETECTION	4046	TAGM	DETECTS	ANALYSE						
Acenaphthene	UG/KG	1200	9%	50000	0	5	58	73	U	71	U	72	UJ
Acenaphthylene	UG/KG	22	5%	41000	0	3	58	73	U	71	U	72	UJ
Anthracene	UG/KG	1500	16%	50000	0	9	58	73	U	71	U	72	UJ
Benzo(a)anthracene	UG/KG	3500	72%	224	3	42	58	6.3	J	9.5	J	5.6	J
Benzo(a)pyrene	UG/KG	3200	78%	61	5	45	58	6	J	10	J	5.4	J
Benzo(b)fluoranthene	UG/KG	2800	90%	1100	1	52	58	13	J	16	J	8	J
Benzo(ghi)perylene	UG/KG	2000	57%	50000	0	33	58	73	UJ	8.5	J	5	J
Benzo(k)fluoranthene	UG/KG	2900	78%	1100	1	45	58	8	J	11	J	7.1	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	58	73	U	71	U	72	UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	58	73	U	71	U	72	UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	58	73	U	71	U	72	U
Bis(2-Ethylhexyl)phthalate	UG/KG	10000	14%	50000	0	8	58	73	UJ	71	U	7.9	J
Butylbenzylphthalate	UG/KG	23	3%	50000	0	2	58	73	UJ	71	U	72	UJ
Carbazole	UG/KG	1100	22%		0	13	58	3.8	J	71	UJ	72	UJ
Chrysene	UG/KG	3600	93%	400	3	54	58	13	J	17	J	12	J
Di-n-butylphthalate	UG/KG	23	55%	8100	0	32	58	3.8	J	23	J	3.8	J
Di-n-octylphthalate	UG/KG	15	3%	50000	0	2	58	73	UJ	71	U	72	U
Dibenz(a,h)anthracene	UG/KG	680	17%	14	5	10	58	73	UJ	71	U	72	U
Dibenzofuran	UG/KG	500	9%	6200	0	5	58	73	U	71	U	72	UJ
Diethyl phthalate	UG/KG	92	5%	7100	0	3	58	4.1	J	71	U	72	UJ
Dimethylphthalate	UG/KG	0	0%	2000	0	0	58	73	U	71	U	72	UJ
Fluoranthene	UG/KG	8500	97%	50000	0	56	58	17	J	18	J	17	J
Fluorene	UG/KG	830	9%	50000	0	5	58	73	U	71	U	72	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	58	73	U	71	U	72	UJ
Hexachlorobutadiene	UG/KG	0	0%		0	0	58	73	U	71	UJ	72	UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	58	73	U	71	UJ	72	U
Hexachloroethane	UG/KG	0	0%		0	0	58	73	U	71	U	72	U
Indeno(1,2,3-cd)pyrene	UG/KG	1700	57%	3200	0	33	58	73	UJ	7.6	J	3.8	J
Isophorone	UG/KG	0	0%	4400	0	0	58	73	U	71	U	72	UJ
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	58	73	U	71	U	72	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	58	73	U	71	U	72	U

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12	SEAD-12	SEAD-12
LOC_ID									SS12-66	SS12-67	SS12-68
MATRIX									SOIL	SOIL	SOIL
SAMP_ID									123260	123108	123213
DEPTH_TOP									0	0	0
DEPTH_BOT									0.2	0.2	0.2
SAMP_DATE									11-Nov-98	12-Oct-98	03-Nov-98
QC_CODE									SA	SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	RI Phase 1	RI Phase 1
			OF	TAGM	ABOVE	OF	OF		Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSE				
Naphthalene	UG/KG	540	9%	13000	0	5	58		73 U	71 U	72 UJ
Nitrobenzene	UG/KG	0	0%	200	0	0	58		73 U	71 U	72 UJ
Pentachlorophenol	UG/KG	0	0%	1000	0	0	58	180 U	170 UJ	170 U	
Phenanthrene	UG/KG	7500	86%	50000	0	50	58	9.7 J	11 J	14 J	
Phenol	UG/KG	42	29%	30	2	17	58	73 U	71 U	72 U	
Pyrene	UG/KG	7000	93%	50000	0	54	58	13 J	18 J	13 J	
<b>PESTICIDES/PCBS</b>											
4,4'-DDD	UG/KG	51	10%	2900	0	6	58	3.7 U	3.5 U	3.6 U	
4,4'-DDE	UG/KG	5	12%	2100	0	7	58	4	5	2.3 J	
4,4'-DDT	UG/KG	5.1	10%	2100	0	6	58	3.6 J	3.4 J	3.6 U	
Aldrin	UG/KG	0	0%	41	0	0	58	1.9 U	1.8 U	1.8 U	
Alpha-BHC	UG/KG	51	5%	110	0	3	58	1.9 U	1.8 U	1.8 U	
Alpha-Chlordane	UG/KG	2.8	3%		0	2	58	1.9 U	1.8 U	1.8 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	58	37 U	35 U	36 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	58	74 U	72 U	73 U	
Aroclor-1232	UG/KG	0	0%	10000	0	0	58	37 U	35 U	36 U	
Aroclor-1242	UG/KG	0	0%	10000	0	0	58	37 U	35 U	36 U	
Aroclor-1248	UG/KG	0	0%	10000	0	0	58	37 U	35 U	36 U	
Aroclor-1254	UG/KG	64	2%	10000	0	1	58	37 U	35 U	36 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	58	37 U	35 U	36 U	
Beta-BHC	UG/KG	6.1	5%	200	0	3	58	1.9 U	1.8 U	1.3 J	
Delta-BHC	UG/KG	0	0%	300	0	0	58	1.9 U	1.8 U	1.8 U	
Dieldrin	UG/KG	3.2	2%	44	0	1	58	3.7 U	3.5 U	3.6 U	
Endosulfan I	UG/KG	1.9	3%	900	0	2	58	1.9 U	1.8 U	1.8 U	
Endosulfan II	UG/KG	3	3%	900	0	2	58	3.7 U	3.5 U	3.6 U	
Endosulfan sulfate	UG/KG	5.6	5%	1000	0	3	58	3.7 U	3.5 U	3.6 U	
Endrin	UG/KG	5.8	5%	100	0	3	58	3.7 U	3.5 U	3.6 U	
Endrin aldehyde	UG/KG	0	0%		0	0	58	3.7 U	3.5 U	3.6 U	
Endrin ketone	UG/KG	0	0%		0	0	58	3.7 U	3.5 U	3.6 U	
Gamma-BHC/Lindane	UG/KG	17	2%	60	0	1	58	1.9 U	1.8 U	1.8 U	
Gamma-Chlordane	UG/KG	1.5	3%	540	0	2	58	1.9 U	1.8 U	1.8 U	

TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12
LOC_ID								SS12-66	SS12-67	SS12-68
MATRIX								SOIL	SOIL	SOIL
SAMP_ID								123260	123108	123213
DEPTH_TOP								0	0	0
DEPTH_BOT								0.2	0.2	0.2
SAMP_DATE								11-Nov-98	12-Oct-98	03-Nov-98
QC_CODE								SA	SA	SA
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	RI Phase 1
PARAMETER	UNIT	MAXIMU	OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	Step 1
			DETECTION	4046	TAGM	DETECTS	ANALYSE			
Heptachlor	UG/KG	0	0%	100	0	0	58	1.9 U	1.8 U	1.8 U
Heptachlor epoxide	UG/KG	6.5	3%	20	0	2	58	1.9 U	1.8 U	1.8 U
Methoxychlor	UG/KG	0	0%		0	0	58	19 U	18 U	18 U
Toxaphene	UG/KG	0	0%		0	0	58	190 U	180 U	180 U
<b>METALS</b>										
Aluminum	MG/KG	18700	100%	19520	0	58	58	9540 J	3040 J	8820
Antimony	MG/KG	1.6	3%	6	0	2	58	1.1 R	1.2 R	1.2 UJ
Arsenic	MG/KG	6.2	100%	8.9	0	58	58	4.7	3.4	4.1
Barium	MG/KG	146	100%	300	0	58	58	41.7	19.6 J	24.3 J
Beryllium	MG/KG	0.96	100%	1.13	0	58	58	0.41 J	0.14 J	0.39 J
Cadmium	MG/KG	0.86	2%	2.46	0	1	58	0.06 U	0.06 U	0.06 U
Calcium	MG/KG	154000	100%	125300	1	58	58	80400	154000 J	53900
Chromium	MG/KG	26.8	100%	30	0	58	58	17.9	6.1	17.9
Cobalt	MG/KG	17.1	100%	30	0	58	58	11.3	5.6 J	11.9
Copper	MG/KG	35.4	100%	33	3	58	58	25.8	17.7	
Cyanide	MG/KG	1.4	2%	0.35	1	1	58	0.63 U	0.53 U	0.54 U
Iron	MG/KG	31500	100%	37410	0	58	58	21600 J	8760 J	23200 J
Lead	MG/KG	43.8	100%	24.4	16	58	58	16	13.7	31
Magnesium	MG/KG	15700	100%	21700	0	58	58	7490	15700	6210
Manganese	MG/KG	2370	100%	1100	4	58	58	400	340	316 J
Mercury	MG/KG	0.17	53%	0.1	6	31	58	0.05 U	0.05 J	0.05 U
Nickel	MG/KG	57.4	95%	50	2	55	58	36.3	14.7	53.1
Potassium	MG/KG	2970	100%	2623	2	58	58	1270	743 J	1080
Selenium	MG/KG	2.3	43%	2	2	25	58	0.72 J	0.93 U	0.9 U
Silver	MG/KG	0.25	3%	0.8	0	2	58	0.22 U	0.24 U	0.25 J
Sodium	MG/KG	153	22%	188	0	13	58	65.5 J	132 J	55.8 J
Thallium	MG/KG	2.5	31%	0.855	18	18	58	1.1 J	1 U	1 U
Vanadium	MG/KG	33.1	100%	150	0	58	58	15.7	7.5 J	15.6
Zinc	MG/KG	197	100%	115	5	58	58	106 J	95.8 J	76.3 J
<b>WET CHEMISTRY</b>										
Nitrate/Nitrite	%W/W									



TABLE G-16  
 CLASS 3 METALS DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY													
LOC_ID													
MATRIX													
SAMP_ID													
DEPTH_TOP													
DEPTH_BOT													
SAMP_DATE													
QC_CODE													
STUDY_ID													
PARAMETER	UNIT	MAXIMU	FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Nitrate/Nitrite	MG/KG		OF	TAGM	ABOVE	OF	OF						
pH	SU		DETECTION	4046	TAGM	DETECTS	ANALYSE						
TOC-Soil 9060	MG/KG												
Percent Solids	%W/W												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												
SEAD-12													
SS12-66													
SOIL													
123260													
0													
0.2													
11-Nov-98													
SA													
SEAD-12													
SS12-67													
SOIL													
123108													
0													
0.2													
12-Oct-98													
SA													
SEAD-12													
SS12-68													
SOIL													
123213													
0													
0.2													
.03-Nov-98													
SA													




100-100000

100-100000





TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12A-1 SOIL	SEAD-12 MW12A-1 SOIL	SEAD-12 MW12-27 SOIL	SEAD-12 MW12-27 SOIL	SEAD-12 MW12-31 SOIL	SEAD-12 MW12-32 SOIL	
									MW12A-1-03	MW12A-1-05	123062	123063	123174	123177	
									4	8	2	4	2	2	
									6	9.5	4	6	4	3	
									6/10/1994	6/10/1994	10/4/1998	10/4/1998	26-Oct-98	26-Oct-98	
									SA	SA	SA	SA	SA	SA	
									ES1	ES1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES								
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	38	11	U	11	U	11	U	11	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	38	11	U	11	U	11	U	11	U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	38	11	U	11	U	11	U	11	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	38	11	U	11	U	11	U	11	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	38	11	U	11	U	11	U	11	U
1,2-Dichloroethene (total)	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Acetone	UG/KG	100	26%	200	0	10	38	11	U	11	U	11	U	10	J
Benzene	UG/KG	0	0%	60	0	0	38	11	U	11	U	11	U	11	U
Bromodichloromethane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Bromoform	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	38	11	U	11	U	11	U	11	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	38	11	U	11	U	11	U	11	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	38	11	U	11	U	11	U	11	U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Chloroethane	UG/KG	0	0%	1900	0	0	38	11	U	11	U	11	U	11	U
Chloroform	UG/KG	0	0%	300	0	0	38	11	U	11	U	11	U	11	U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	38	11	U	11	U	11	U	11	U
Methyl bromide	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Methyl chloride	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Methyl ethyl ketone	UG/KG	35	3%	300	0	1	38	11	U	11	U	11	U	11	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	38	11	U	11	U	11	U	11	U
Methylene chloride	UG/KG	0	0%	100	0	0	38	11	U	11	U	11	U	11	U
Styrene	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	38	11	U	11	U	11	U	11	U
Toluene	UG/KG	10	21%	1500	0	8	38	11	U	11	U	9	J	5	J
Total Xylenes	UG/KG	2	3%	1200	0	1	38	11	U	11	U	11	U	11	U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U
Trichloroethene	UG/KG	54	3%	700	0	1	38	11	U	11	U	11	U	11	U
Vinyl chloride	UG/KG	0	0%	200	0	0	38	11	U	11	U	11	U	11	U
<b>SEMI VOLATILE ORGANICS</b>															
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	38	370	U	350	U	74	U	73	U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12A-1 SOIL MW12A-1-03	SEAD-12 MW12A-1 SOIL MW12A-1-05	SEAD-12 MW12-27 SOIL 123062	SEAD-12 MW12-27 SOIL 123063	SEAD-12 MW12-31 SOIL 123174	SEAD-12 MW12-32 SOIL 123177
PARAMETER	UNIT	MAXIMU												6/10/1994 SA ESI	6/10/1994 SA ESI	10/4/1998 SA RI Phase 1 Step 1	10/4/1998 SA RI Phase 1 Step 1	26-Oct-98 SA RI Phase 1 Step 1	26-Oct-98 SA RI Phase 1 Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	38	370 U	350 U	74 UJ	73 UJ	74 U	72 U						
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	38	370 U	350 U	74 UJ	73 UJ	74 U	72 U						
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	38	370 U	350 U	74 UJ	73 UJ	74 U	72 U						
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	38	370 U	350 U	180 U	180 U	180 U	170 U						
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	38	890 U	860 U	74 U	73 U	74 U	72 U						
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	38	370 U	350 U	180 U	180 U	180 U	170 UJ						
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	38	890 U	860 U	74 U	73 U	74 U	72 U						
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
2-Chlorophenol	UG/KG	0	0%	800	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
2-Methylphenol	UG/KG	0	0%	100	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
2-Nitroaniline	UG/KG	0	0%	430	0	0	38	370 U	350 U	180 U	180 U	180 U	170 U						
2-Nitrophenol	UG/KG	0	0%	330	0	0	38	890 U	860 U	74 UJ	73 UJ	74 U	72 U						
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
3-Nitroaniline	UG/KG	0	0%	500	0	0	38	370 U	350 U	180 U	180 U	180 U	170 UJ						
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	38	890 U	860 U	180 U	180 U	180 U	170 UJ						
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	890 U	860 U	74 U	73 U	74 U	72 U						
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
4-Chloroaniline	UG/KG	0	0%	220	0	0	38	370 U	350 U	74 UJ	73 UJ	74 UJ	72 UJ						
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
4-Methylphenol	UG/KG	8.6	5%	900	0	2	38	370 U	350 U	74 U	73 U	74 U	72 U						
4-Nitroaniline	UG/KG	0	0%	0	0	0	38	370 U	350 U	180 U	180 U	180 U	170 UJ						
4-Nitrophenol	UG/KG	0	0%	100	0	0	38	890 U	860 U	180 U	180 U	180 U	170 U						
Acenaphthene	UG/KG	28	5%	50000	0	2	38	890 U	860 U	74 U	73 U	74 U	72 U						
Acenaphthylene	UG/KG	21	8%	41000	0	3	38	370 U	350 U	74 U	73 U	74 U	72 U						
Anthracene	UG/KG	74	16%	50000	0	6	38	370 U	350 U	74 U	73 U	74 U	72 U						
Benzo(e)anthracene	UG/KG	760	42%	224	1	16	38	370 U	350 U	74 U	73 U	74 U	5.9 J						
Benzo(a)pyrene	UG/KG	1000	45%	61	3	17	38	370 U	350 U	74 U	73 U	74 U	4.5 J						
Benzo(b)fluoranthene	UG/KG	1100	45%	1100	0	17	38	370 U	350 U	74 U	73 U	74 U	5.9 J						
Benzo(ghi)perylene	UG/KG	820	34%	50000	0	13	38	370 U	350 U	74 U	73 U	74 U	4.3 J						
Benzo(k)fluoranthene	UG/KG	1100	39%	1100	0	15	38	370 U	350 U	74 U	73 U	74 U	5.6 J						
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U						

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY							SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	
LOC_ID							MW12A-1	MW12A-1	MW12-27	MW12-27	MW12-31	MW12-32	
MATRIX							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
SAMP_ID							MW12A-1-03	MW12A-1-05	123062	123063	123174	123177	
DEPTH_TOP							4	8	2	4	2	2	
DEPTH_BOT							6	9.5	4	6	4	3	
SAMP_DATE							6/10/1994	6/10/1994	10/4/1998	10/4/1998	26-Oct-98	26-Oct-98	
QC_CODE							SA	SA	SA	SA	SA	SA	
STUDY_ID							ESI	ESI	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
Bis(2-Ethylhexyl)phthalate	UG/KG	73	24%	50000	0	9	38	73 J	350 U	13 J	16 J	74 U	72 UJ
Butylbenzylphthalate	UG/KG	6.2	5%	50000	0	2	38	370 U	350 U	74 UJ	73 UJ	74 U	72 UJ
Carbazole	UG/KG	120	13%		0	5	38	370 U	350 U	74 UJ	73 UJ	74 U	72 U
Chrysene	UG/KG	1000	53%	400	1	20	38	370 U	350 U	74 U	4.1 J	74 U	8.1 J
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
Di-n-octylphthalate	UG/KG	34	16%	50000	0	6	38	370 U	350 U	23 J	34 J	74 U	4.1 J
Dibenz(a,h)anthracene	UG/KG	300	18%	14	4	7	38	370 U	350 U	74 U	73 U	74 U	72 U
Dibenzofuran	UG/KG	16	5%	6200	0	2	38	370 U	350 U	74 U	73 U	74 U	72 U
Diethyl phthalate	UG/KG	4.3	3%	7100	0	1	38	370 U	350 U	74 U	73 U	74 U	72 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
Fluoranthene	UG/KG	1900	47%	50000	0	18	38	370 U	350 U	74 U	73 U	74 U	8.2 J
Fluorene	UG/KG	44	8%	50000	0	3	38	370 U	350 U	74 U	73 U	74 U	72 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	38	370 U	350 U	74 UJ	73 UJ	74 U	72 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	38	370 U	350 U	74 U	73 U	74 U	72 UJ
Hexachloroethane	UG/KG	0	0%		0	0	38	370 U	350 U	74 UJ	73 UJ	74 U	72 U
Indeno(1,2,3-cd)pyrene	UG/KG	830	34%	3200	0	13	38	370 U	350 U	74 U	73 U	74 U	72 U
Isophorone	UG/KG	0	0%	4400	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
Naphthalene	UG/KG	8.6	3%	13000	0	1	38	370 U	350 U	74 U	73 U	74 U	72 U
Nitrobenzene	UG/KG	0	0%	200	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	38	890 U	860 U	180 U	180 U	180 U	170 U
Phenanthrene	UG/KG	680	45%	50000	0	17	38	370 U	350 U	74 U	73 U	74 U	5.5 J
Phenol	UG/KG	0	0%	30	0	0	38	370 U	350 U	74 U	73 U	74 U	72 U
Pyrene	UG/KG	1500	47%	50000	0	18	38	370 U	350 U	74 U	73 U	74 U	6 J
<b>PESTICIDES/PCBS</b>													
4,4'-DDD	UG/KG	3.2	3%	2900	0	1	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.6 U
4,4'-DDE	UG/KG	2.1	3%	2100	0	1	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.6 U
4,4'-DDT	UG/KG	2.6	3%	2100	0	1	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.6 U
Aldrin	UG/KG	0	0%	41	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 U
Alpha-BHC	UG/KG	0	0%	110	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 U
Alpha-Chlordane	UG/KG	7.5	3%		0	1	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	38	37 U	35 U	37 U	37 U	37 U	36 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	38	74 U	72 U	75 U	74 U	75 U	73 U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12A-1 SOIL MW12A-1-03	SEAD-12 MW12A-1 SOIL MW12A-1-05	SEAD-12 MW12-27 SOIL 123062	SEAD-12 MW12-27 SOIL 123063	SEAD-12 MW12-31 SOIL 123174	SEAD-12 MW12-32 SOIL 123177	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	ESL	ESL	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
Aroclor-1232	UG/KG	0	0%	10000	0	0	38	37 U	35 U	37 U	37 U	37 U	37 U	36 U	
Aroclor-1242	UG/KG	0	0%	10000	0	0	38	37 U	35 U	37 U	37 U	37 U	37 U	36 U	
Aroclor-1248	UG/KG	0	0%	10000	0	0	38	37 U	35 U	37 U	37 U	37 U	37 U	36 U	
Aroclor-1254	UG/KG	0	0%	10000	0	0	38	37 U	35 U	37 U	37 U	37 U	37 U	36 U	
Aroclor-1260	UG/KG	0	0%	10000	0	0	38	37 U	35 U	37 U	37 U	37 U	37 U	36 U	
Beta-BHC	UG/KG	0	0%	200	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	
Delta-BHC	UG/KG	0	0%	300	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	
Dieldrin	UG/KG	0	0%	44	0	0	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U	
Endosulfan I	UG/KG	0	0%	900	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	
Endosulfan II	UG/KG	0	0%	900	0	0	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U	
Endosulfan sulfate	UG/KG	3	3%	1000	0	1	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U	
Endrin	UG/KG	20	3%	100	0	1	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U	
Endrin aldehyde	UG/KG	0	0%		0	0	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U	
Endrin ketone	UG/KG	0	0%		0	0	38	3.7 U	3.5 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U	
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	
Gamma-Chlordane	UG/KG	0	0%	540	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	
Heptachlor	UG/KG	0	0%	100	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	
Heptachlor epoxide	UG/KG	0	0%	20	0	0	38	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	
Methoxychlor	UG/KG	0	0%		0	0	38	19 U	18 U	19 U	19 U	19 U	19 U	18 U	
Toxaphene	UG/KG	0	0%		0	0	38	190 U	180 U	190 U	190 U	190 U	190 U	180 U	
<b>METALS</b>															
Aluminum	MG/KG	16700	100%	19520	0	38	38	11000	12400	14200	13600	9860	14800		
Antimony	MG/KG	0	0%	6	0	0	38	0.24 UJ	0.2 UJ	1 R	1.3 R	0.9 R	0.79 R		
Arsenic	MG/KG	9.8	100%	8.9	1	38	38	3.5	3.6	6.4	8.4	1.7	2.3		
Barium	MG/KG	186	100%	300	0	38	38	82.8	78.3	61	61.4	30.4	57.9		
Beryllium	MG/KG	1.1	97%	1.13	0	37	38	0.46 J	0.58 J	0.45 J	0.36 J	0.46 J	0.67		
Cadmium	MG/KG	13.3	8%	2.46	1	3	38	0.52 J	0.85	0.05 U	0.06 U	0.26 U	0.23 U		
Calcium	MG/KG	73300	100%	125300	0	38	38	71200	70300	21900	3510	1470	7850		
Chromium	MG/KG	26	100%	30	0	38	38	15.3	19.7	25.2	24.1	18.2 J	25.9 J		
Cobalt	MG/KG	19.6	100%	30	0	38	38	10.1	10.8	15.5	19.6	12.6	17		
Copper	MG/KG	34	100%	33	3	38	38	20.6	29.6	30.7	33.8	9.3	20.9		
Cyanide	MG/KG	0	0%	0.35	0	0	38	0.53 U	0.43 U	0.56 UJ	0.56 UJ	0.57 U	0.55 U		
Iron	MG/KG	53400	100%	37410	3	38	38	17400	22600	29200	30700	21900 J	32000		
Lead	MG/KG	284	100%	24.4	10	38	38	7.6	10.8	13.2	9.2	2.7 J	3.8 J		
Magnesium	MG/KG	19200	100%	21700	0	38	38	19200	12000	5830 J	5590 J	4500	6580		
Manganese	MG/KG	3200	100%	1100	3	38	38	414	409	696	706	383	550		



TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12A-1 SOIL MW12A-1-03	SEAD-12 MW12A-1 SOIL MW12A-1-05	SEAD-12 MW12-27 SOIL 123062	SEAD-12 MW12-27 SOIL 123063	SEAD-12 MW12-31 SOIL 123174	SEAD-12 MW12-32 SOIL 123177
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	ESI	ESI	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
Mercury	MG/KG	0.2	42%	0.1	8	16	38	0.02 J	0.03 J	0.05 U	0.05 U	0.05 U	0.05 U	
Nickel	MG/KG	51.3	95%	50	1	36	38	23.7	35.5	46.2	46	28.1 UJ	41.2 UJ	
Potassium	MG/KG	3460	100%	2623	2	38	38	3460 J	3460 J	1150	1010 J	531 J	1020	
Selenium	MG/KG	1.8	21%	2	0	8	38	0.5 U	0.41 U	0.75 U	0.96 U	0.34 U	0.7	
Silver	MG/KG	0.26	8%	0.8	0	3	38	0.09 U	0.08 U	0.2 J	0.25 U	0.18 U	0.15 U	
Sodium	MG/KG	748	47%	188	3	18	38	79.9 J	136 J	82.4 J	107 J	57.1 J	57.2 J	
Thallium	MG/KG	1.6	26%	0.855	10	10	38	0.35 U	0.29 U	0.85 U	1.1 U	0.77 UJ	1.3 J	
Vanadium	MG/KG	29.3	100%	150	0	38	38	21.7	20.2	20.2	16.6	12.4	19.8	
Zinc	MG/KG	3370	100%	115	4	38	38	41.4	82.1	91.8	143	70.9 J	98.7 J	
<b>WET CHEMISTRY</b>														
Nitrate/Nitrite	%WW													
Nitrate/Nitrite	MG/KG													
pH	SU													
TOC-Soil 9060	MG/KG													
Percent Solids	%WW													
Percent Solids	MG/KG													
Cation exchange capacity	meq/100g													

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL 123203		SEAD-12 MW12-38 SOIL 123204		SEAD-12 MW12-38 SOIL 123206		SEAD-12 MW12-39 SOIL 123207		SEAD-12 MW12-40 SOIL 123122		SEAD-12 MW12-40 SOIL 123123		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1		
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
1,2-Dichloroethene (total)	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Acetone	UG/KG	100	26%	200	0	10	38	14		30		45		11		11		11		11	
Benzene	UG/KG	0	0%	60	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Bromodichloromethane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Bromoform	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Chloroethane	UG/KG	0	0%	1900	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Chloroform	UG/KG	0	0%	300	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Methyl bromide	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Methyl chloride	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Methyl ethyl ketone	UG/KG	35	3%	300	0	1	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Methylene chloride	UG/KG	0	0%	100	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Styrene	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Toluene	UG/KG	10	21%	1500	0	8	38	11	U	2	J	11	U	11	U	5	J	11	U	11	U
Total Xylenes	UG/KG	2	3%	1200	0	1	38	11	U	2	J	11	U	11	U	11	U	11	U	11	U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Trichloroethene	UG/KG	54	3%	700	0	1	38	54		11	U	11	U	11	U	11	U	11	U	11	U
Vinyl chloride	UG/KG	0	0%	200	0	0	38	11	U	11	U	11	U	11	U	11	U	11	U	11	U
<b>SEMI VOLATILE ORGANICS</b>																					
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	38	72	U	71	U	76	U	69	U	72	U	71	U	71	U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL 123203	SEAD-12 MW12-38 SOIL 123204	SEAD-12 MW12-38 SOIL 123206	SEAD-12 MW12-39 SOIL 123207	SEAD-12 MW12-40 SOIL 123122	SEAD-12 MW12-40 SOIL 123123
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES		RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	38		170 U	170 U	180 U	170 U	170 U	170 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	38		72 U	71 UJ	76 U	69 U	72 UJ	71 UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	38		170 UJ	170 U	180 UJ	170 R	170 UJ	170 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2-Chlorophenol	UG/KG	0	0%	800	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2-Methylphenol	UG/KG	0	0%	100	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
2-Nitroaniline	UG/KG	0	0%	430	0	0	38		170 U	170 U	180 U	170 U	170 U	170 U
2-Nitrophenol	UG/KG	0	0%	330	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 UJ	72 U	71 U
3-Nitroaniline	UG/KG	0	0%	500	0	0	38		170 UJ	170 UJ	180 UJ	170 UJ	170 U	170 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	38		170 UJ	170 UJ	180 UJ	170 UJ	170 U	170 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
4-Chloroaniline	UG/KG	0	0%	220	0	0	38		72 UJ	71 UJ	76 UJ	69 U	72 UJ	71 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
4-Methylphenol	UG/KG	8.6	5%	900	0	2	38		72 U	71 U	76 U	69 U	72 U	71 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	38		170 U	170 U	180 U	170 UJ	170 UJ	170 UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	38		170 U	170 U	180 U	170 U	170 UJ	170 UJ
Acenaphthene	UG/KG	28	5%	50000	0	2	38		72 U	71 U	76 U	69 U	72 U	71 U
Acenaphthylene	UG/KG	21	8%	41000	0	3	38		72 U	71 U	76 U	69 U	72 U	71 U
Anthracene	UG/KG	74	16%	50000	0	6	38		72 U	71 U	76 U	69 U	72 U	71 U
Benzo(a)anthracene	UG/KG	760	42%	224	1	16	38		72 U	71 U	76 U	69 U	72 U	71 U
Benzo(a)pyrene	UG/KG	1000	45%	61	3	17	38		72 U	71 U	76 U	69 U	72 U	71 U
Benzo(b)fluoranthene	UG/KG	1100	45%	1100	0	17	38		72 U	71 U	76 U	69 U	72 U	71 U
Benzo(ghi)perylene	UG/KG	820	34%	50000	0	13	38		72 U	71 U	76 U	69 U	72 U	71 U
Benzo(k)fluoranthene	UG/KG	1100	39%	1100	0	15	38		72 U	71 U	76 U	69 U	72 U	71 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	38		72 U	71 U	76 U	69 U	72 U	71 U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-38 SOIL	SEAD-12 MW12-38 SOIL	SEAD-12 MW12-39 SOIL	SEAD-12 MW12-40 SOIL	SEAD-12 MW12-40 SOIL					
									123203	123204	123206	123207	123122	123123					
									2	1	3	1.5	2	4					
									4	1.2	4	2.4	4	6					
									01-Nov-98	01-Nov-98	01-Nov-98	01-Nov-98	14-Oct-98	14-Oct-98					
									SA	SA	SA	SA	SA	SA					
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1					
									Step 1	Step 1	Step 1	Step 1	Step 1	Step 1					
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES												
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Bis(2-Ethylhexyl)phthalate	UG/KG	73	24%	50000	0	9	38	72	UJ	71	UJ	76	UJ	69	UJ	72	UJ	71	UJ
Butylbenzylphthalate	UG/KG	6.2	5%	50000	0	2	38	72	U	71	U	76	U	69	UJ	72	UJ	71	UJ
Carbazole	UG/KG	120	13%		0	5	38	72	U	71	U	76	U	69	UJ	72	UJ	71	UJ
Chrysene	UG/KG	1000	53%	400	1	20	38	72	U	71	U	76	U	69	U	72	U	71	U
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Di-n-octylphthalate	UG/KG	34	16%	50000	0	6	38	72	U	3.9	J	76	U	69	U	7.3	J	8.7	J
Dibenz(a,h)anthracene	UG/KG	300	18%	14	4	7	38	72	UJ	71	UJ	76	UJ	69	U	72	U	71	U
Dibenzofuran	UG/KG	16	5%	6200	0	2	38	72	U	71	U	76	U	69	U	72	U	71	U
Diethyl phthalate	UG/KG	4.3	3%	7100	0	1	38	72	U	71	U	76	U	69	U	4.3	J	71	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Fluoranthene	UG/KG	1900	47%	50000	0	18	38	72	U	71	U	76	U	69	U	72	U	71	U
Fluorene	UG/KG	44	8%	50000	0	3	38	72	U	71	U	76	U	69	U	72	U	71	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	38	72	UJ	71	UJ	76	UJ	69	U	72	UJ	71	UJ
Hexachloroethane	UG/KG	0	0%		0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Indeno(1,2,3-cd)pyrene	UG/KG	830	34%	3200	0	13	38	72	U	71	U	76	U	69	U	72	U	71	U
Isophorone	UG/KG	0	0%	4400	0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Naphthalene	UG/KG	8.6	3%	13000	0	1	38	72	U	71	U	76	U	69	U	72	U	71	U
Nitrobenzene	UG/KG	0	0%	200	0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	38	170	U	170	U	180	U	170	U	170	UJ	170	UJ
Phenanthrene	UG/KG	680	45%	50000	0	17	38	3.7	J	71	U	76	U	69	U	72	U	6.1	J
Phenol	UG/KG	0	0%	30	0	0	38	72	U	71	U	76	U	69	U	72	U	71	U
Pyrene	UG/KG	1500	47%	50000	0	18	38	72	U	71	U	76	U	69	U	72	U	71	U
<b>PESTICIDES/PCBS</b>																			
4,4'-DDD	UG/KG	3.2	3%	2900	0	1	38	3.6	U	3.5	U	3.7	U	3.5	U	3.6	U	3.5	U
4,4'-DDE	UG/KG	2.1	3%	2100	0	1	38	3.6	U	3.5	U	3.7	U	3.5	U	3.6	U	3.5	U
4,4'-DDT	UG/KG	2.6	3%	2100	0	1	38	3.6	U	3.5	U	3.7	U	3.5	U	3.6	U	3.5	U
Aldrin	UG/KG	0	0%	41	0	0	38	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.8	U
Alpha-BHC	UG/KG	0	0%	110	0	0	38	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.8	U
Alpha-Chlordane	UG/KG	7.5	3%		0	1	38	1.8	U	1.8	U	1.9	U	1.8	U	1.8	U	1.8	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	38	36	U	35	U	37	U	35	U	36	U	35	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	38	73	U	72	U	75	U	70	U	73	U	72	U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-37 SOIL 123203	SEAD-12 MW12-38 SOIL 123204	SEAD-12 MW12-38 SOIL 123206	SEAD-12 MW12-39 SOIL 123207	SEAD-12 MW12-40 SOIL 123122	SEAD-12 MW12-40 SOIL 123123	
														RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU																		
Aroclor-1232	UG/KG	0	0%	10000	0	0	38	36 U	35 U	37 U	35 U	36 U	35 U							
Aroclor-1242	UG/KG	0	0%	10000	0	0	38	36 U	35 U	37 U	35 U	36 U	35 U							
Aroclor-1248	UG/KG	0	0%	10000	0	0	38	36 U	35 U	37 U	35 U	36 U	35 U							
Aroclor-1254	UG/KG	0	0%	10000	0	0	38	36 U	35 U	37 U	35 U	36 U	35 U							
Aroclor-1260	UG/KG	0	0%	10000	0	0	38	36 U	35 U	37 U	35 U	36 U	35 U							
Beta-BHC	UG/KG	0	0%	200	0	0	38	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U							
Delta-BHC	UG/KG	0	0%	300	0	0	38	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U							
Dieldrin	UG/KG	0	0%	44	0	0	38	3.6 U	3.5 U	3.7 U	3.5 U	3.6 U	3.5 U							
Endosulfan I	UG/KG	0	0%	900	0	0	38	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U							
Endosulfan II	UG/KG	0	0%	900	0	0	38	3.6 U	3.5 U	3.7 U	3.5 U	3.6 U	3.5 U							
Endosulfan sulfate	UG/KG	3	3%	1000	0	1	38	3.6 U	3.5 U	3.7 U	3.5 U	3.6 U	3.5 U							
Endrin	UG/KG	20	3%	100	0	1	38	3.6 U	3.5 U	3.7 U	3.5 U	3.6 U	3.5 U							
Endrin aldehyde	UG/KG	0	0%		0	0	38	3.6 U	3.5 U	3.7 U	3.5 U	3.6 U	3.5 U							
Endrin ketone	UG/KG	0	0%		0	0	38	3.6 U	3.5 U	3.7 U	3.5 U	3.6 U	3.5 U							
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	38	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U							
Gamma-Chlordane	UG/KG	0	0%	540	0	0	38	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U							
Heptachlor	UG/KG	0	0%	100	0	0	38	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U							
Heptachlor epoxide	UG/KG	0	0%	20	0	0	38	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U							
Methoxychlor	UG/KG	0	0%		0	0	38	18 U	18 U	19 U	18 U	18 U	18 U							
Toxaphene	UG/KG	0	0%		0	0	38	180 U	180 U	190 U	180 U	180 U	180 U							
<b>METALS</b>																				
Aluminum	MG/KG	16700	100%	19520	0	38	38	10600	3120	10700	9350	10100 J	10900 J							
Antimony	MG/KG	0	0%	6	0	0	38	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.3 R	1 R							
Arsenic	MG/KG	9.8	100%	8.9	1	38	38	3.2	1.8 J	2.7	2.8	2.9 J	3.5 J							
Barium	MG/KG	186	100%	300	0	38	38	74.7	24.1 J	76.7	37.8	60.2	66.5							
Beryllium	MG/KG	1.1	97%	1.13	0	37	38	0.46 J	0.05 J	0.54 J	0.26 J	0.48 J	0.5 J							
Cadmium	MG/KG	13.3	8%	2.46	1	3	38	0.06 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U							
Calcium	MG/KG	73300	100%	125300	0	38	38	49100	60800	20000	73300	30900 J	41700 J							
Chromium	MG/KG	26	100%	30	0	38	38	19.6	4.5	19	16.5	18.2	20							
Cobalt	MG/KG	19.6	100%	30	0	38	38	14.3	3.4 J	10.2	10.7	13.8	11.5							
Copper	MG/KG	34	100%	33	3	38	38	24.8	21.3	26.3	17.6	22.9	27							
Cyanide	MG/KG	0	0%	0.35	0	0	38	0.58 U	0.52 U	0.65 U	0.55 U	0.61 U	0.6 U							
Iron	MG/KG	53400	100%	37410	3	38	38	25300 J	7350 J	24000 J	20800 J	30900	25600							
Lead	MG/KG	284	100%	24.4	10	38	38	17.2 J	3.5 J	14.2 J	5.7 J	14.7 J	17.4 J							
Magnesium	MG/KG	19200	100%	21700	0	38	38	8150	14400	5760	18100	4820 J	7480 J							
Manganese	MG/KG	3200	100%	1100	3	38	38	422 J	349 J	387 J	612 J	364	307							

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 MW12-37 SOIL	SEAD-12 MW12-38 SOIL	SEAD-12 MW12-38 SOIL	SEAD-12 MW12-39 SOIL	SEAD-12 MW12-40 SOIL	SEAD-12 MW12-40 SOIL	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 SA	Step 1	RI Phase 1 SA	Step 1	RI Phase 1 SA	Step 1	RI Phase 1 SA	Step 1
								123203	123204	123206	123207	123122	123123		
								2	1	3	1.5	2	4		
								4	1.2	4	2.4	4	6		
								01-Nov-98	01-Nov-98	01-Nov-98	01-Nov-98	14-Oct-98	14-Oct-98		
								SA	SA	SA	SA	SA	SA		
Mercury	MG/KG	0.2	42%	0.1	8	16	38	0.05 U		0.05 U		0.05 U		0.05 U	
Nickel	MG/KG	51.3	95%	50	1	36	38	41.2		7.5 J		38.2		51.3 J	
Potassium	MG/KG	3460	100%	2623	2	38	38	876 J		597 J		635 J		817 J	
Selenium	MG/KG	1.8	21%	2	0	8	38	0.86 U		0.87 U		0.82 U		0.98 U	
Silver	MG/KG	0.26	8%	0.8	0	3	38	0.22 U		0.23 U		0.21 U		0.25 U	
Sodium	MG/KG	748	47%	188	3	18	38	71.3 J		53.5 J		201 J		399 J	
Thallium	MG/KG	1.6	26%	0.855	10	10	38	1.6 J		0.98 U		0.93 J		0.92 U	
Vanadium	MG/KG	29.3	100%	150	0	38	38	16.1		6.2 J		16.8		14.5	
Zinc	MG/KG	3370	100%	115	4	38	38	54.8 J		36.6 J		60.7 J		48.6 J	
<b>WET CHEMISTRY</b>															
Nitrate/Nitrite	%WW														
Nitrate/Nitrite	MG/KG														
pH	SU														
TOC-Soil 9060	MG/KG														
Percent Solids	%WW														
Percent Solids	MG/KG														
Cation exchange capacity	meq/100g														

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID							SEAD-12 TP12-9A SOIL	SEAD-12 TP12-9B SOIL	SEAD-12 TP12-9C SOIL	SEAD-12 TP12-10A SOIL	SEAD-12 TP12-10A SOIL	SEAD-12 TP12-10B SOIL
SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID			123124	123125	123126	123067	123055	123056
								0.5	1	2.5	1	1	2
								0.5	1	2.5	1	1	2
								15-Oct-98	15-Oct-98	15-Oct-98	10/4/1998	10/4/1998	10/4/1998
								SA	SA	SA	DU	SA	SA
								RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
								Step 1	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES						
<b>VOLATILE ORGANICS</b>													
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	38	13 U	12 U	12 U	12 U	12 UJ	13 UJ
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	38	13 U	12 U	12 U	12 UJ	12 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Acetone	UG/KG	100	26%	200	0	10	38	13 UJ	13 J	12 UJ	12 UJ	12 UJ	13 UJ
Benzene	UG/KG	0	0%	60	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Bromodichloromethane	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Bromoform	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 UJ	13 UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	38	13 U	12 U	12 U	12 U	12 UJ	13 UJ
Chlorodibromomethane	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Chloroethane	UG/KG	0	0%	1900	0	0	38	13 UJ	12 UJ	12 UJ	12 UJ	12 U	13 U
Chloroform	UG/KG	0	0%	300	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	38	13 U	12 U	12 U	12 U	12 UJ	13 UJ
Methyl bromide	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Methyl butyl ketone	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 UJ	13 UJ
Methyl chloride	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 UJ	12 U	13 U
Methyl ethyl ketone	UG/KG	35	3%	300	0	1	38	13 UJ	12 UJ	12 UJ	12 U	12 UJ	13 UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Methylene chloride	UG/KG	0	0%	100	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Styrene	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 UJ	13 UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Toluene	UG/KG	10	21%	1500	0	8	38	13 U	12 U	12 U	3 J	12 U	13 U
Total Xylenes	UG/KG	2	3%	1200	0	1	38	13 U	12 U	12 U	12 U	12 UJ	13 UJ
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	38	13 U	12 U	12 U	12 U	12 U	13 U
Trichloroethene	UG/KG	54	3%	700	0	1	38	13 U	12 U	12 U	12 U	12 U	13 U
Vinyl chloride	UG/KG	0	0%	200	0	0	38	13 U	12 U	12 U	12 UJ	12 U	13 U
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	38	86 U	76 U	78 U	78 UJ	77 U	81 U

TABLE G-17  
CLASS 3 METALS DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-9A SOIL 123124 0.5 0.5 15-Oct-98 SA		SEAD-12 TP12-9B SOIL 123125 1 1 15-Oct-98 SA		SEAD-12 TP12-9C SOIL 123126 2.5 2.5 15-Oct-98 SA		SEAD-12 TP12-10A SOIL 123067 1 1 10/4/1998 DU		SEAD-12 TP12-10A SOIL 123055 1 1 10/4/1998 SA		SEAD-12 TP12-10B SOIL 123056 2 2 10/4/1998 SA	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES		RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	38		86 U		76 U		78 U		78 UJ		77 U		81 U	
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	38		86 U		76 U		78 U		78 UJ		77 U		81 U	
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	38		86 U		76 U		78 U		78 UJ		77 U		81 U	
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	38		210 U		180 U		190 U		190 U		190 U		200 U	
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
2,4-Dimethylphenol	UG/KG	0	0%		0	0	38		86 UJ		76 UJ		78 UJ		78 U		77 UJ		81 UJ	
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	38		210 U		180 U		190 U		190 U		190 U		200 U	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
2-Chloronaphthalene	UG/KG	0	0%		0	0	38		86 UJ		76 UJ		78 UJ		78 U		77 U		81 U	
2-Chlorophenol	UG/KG	0	0%	800	0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	38		86 UJ		76 UJ		78 UJ		78 U		77 U		81 U	
2-Methylphenol	UG/KG	0	0%	100	0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
2-Nitroaniline	UG/KG	0	0%	430	0	0	38		210 U		180 U		190 U		190 U		190 U		200 U	
2-Nitrophenol	UG/KG	0	0%	330	0	0	38		86 U		76 U		78 U		78 UJ		77 U		81 U	
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
3-Nitroaniline	UG/KG	0	0%	500	0	0	38		210 U		180 U		190 U		190 U		190 UJ		200 U	
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	38		210 U		180 U		190 U		190 U		190 U		200 U	
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	38		86 UJ		76 UJ		78 UJ		78 U		77 U		81 U	
4-Chloroaniline	UG/KG	0	0%	220	0	0	38		86 UJ		76 UJ		78 UJ		78 UJ		77 UJ		81 UJ	
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
4-Methylphenol	UG/KG	8.6	5%	900	0	2	38		86 U		76 U		78 U		78 U		77 U		8.6 J	
4-Nitroaniline	UG/KG	0	0%		0	0	38		210 UJ		180 UJ		190 UJ		190 U		190 U		200 U	
4-Nitrophenol	UG/KG	0	0%	100	0	0	38		210 UJ		180 UJ		190 UJ		190 UJ		190 UJ		200 U	
Acenaphthene	UG/KG	28	5%	50000	0	2	38		86 U		76 U		78 U		78 U		77 U		81 U	
Acenaphthylene	UG/KG	21	8%	41000	0	3	38		86 U		76 U		78 U		78 U		77 U		81 U	
Anthracene	UG/KG	74	16%	50000	0	6	38		86 UJ		76 UJ		78 UJ		78 U		77 U		81 U	
Benzo(a)anthracene	UG/KG	760	42%	224	1	16	38		8.5 J		76 U		78 U		78 U		77 U		14 J	
Benzo(a)pyrene	UG/KG	1000	45%	61	3	17	38		9.1 J		76 UJ		78 UJ		78 U		77 U		15 J	
Benzo(b)fluoranthene	UG/KG	1100	45%	1100	0	17	38		10 J		76 U		78 U		78 U		77 U		19 J	
Benzo(ghi)perylene	UG/KG	820	34%	50000	0	13	38		86 U		76 U		78 U		78 U		77 U		14 J	
Benzo(k)fluoranthene	UG/KG	1100	39%	1100	0	15	38		86 U		76 U		78 U		78 U		77 U		17 J	
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	38		86 U		76 U		78 U		78 U		77 U		81 U	



TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-9A SOIL	SEAD-12 TP12-9B SOIL	SEAD-12 TP12-9C SOIL	SEAD-12 TP12-10A SOIL	SEAD-12 TP12-10A SOIL	SEAD-12 TP12-10B SOIL
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	38	86 U	76 U	78 U	78 U	77 U	81 U	
Bis(2-Ethylhexyl)phthalate	UG/KG	73	24%	50000	0	9	38	86 U	76 U	78 U	78 UJ	92 J	81 U	
Butylbenzylphthalate	UG/KG	6.2	5%	50000	0	2	38	86 U	76 U	78 U	78 UJ	6.2 J	5.2 J	
Carbazole	UG/KG	120	13%		0	5	38	86 UJ	76 UJ	78 UJ	78 UJ	77 UJ	81 UJ	
Chrysene	UG/KG	1000	53%	400	1	20	38	12 J	76 U	78 U	78 U	4.6 J	20 J	
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	38	86 U	76 U	78 U	78 U	77 U	81 U	
Di-n-octylphthalate	UG/KG	34	16%	50000	0	6	38	86 UJ	76 UJ	78 UJ	78 UJ	77 UJ	81 U	
Dibenz(a,h)anthracene	UG/KG	300	18%	14	4	7	38	86 U	76 U	78 U	78 U	77 U	6.7 J	
Dibenzofuran	UG/KG	16	5%	6200	0	2	38	86 UJ	76 UJ	78 UJ	78 U	77 U	81 U	
Diethyl phthalate	UG/KG	4.3	3%	7100	0	1	38	86 U	76 U	78 U	78 U	77 U	81 U	
Dimethylphthalate	UG/KG	0	0%	2000	0	0	38	86 U	76 U	78 U	78 U	77 U	81 U	
Fluoranthene	UG/KG	1900	47%	50000	0	18	38	16 J	76 U	78 U	78 U	4.9 J	28 J	
Fluorene	UG/KG	44	8%	50000	0	3	38	86 U	76 U	78 U	78 U	77 U	81 U	
Hexachlorobenzene	UG/KG	0	0%	410	0	0	38	86 U	76 U	78 U	78 U	77 U	81 U	
Hexachlorobutadiene	UG/KG	0	0%		0	0	38	86 UJ	76 UJ	78 UJ	78 UJ	77 U	81 UJ	
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	38	86 U	76 U	78 U	78 U	77 U	81 U	
Hexachloroethane	UG/KG	0	0%		0	0	38	86 U	76 U	78 U	78 UJ	77 U	81 U	
Indeno(1,2,3-cd)pyrene	UG/KG	830	34%	3200	0	13	38	86 U	76 U	78 U	78 U	77 U	12 J	
Isophorone	UG/KG	0	0%	4400	0	0	38	86 UJ	76 UJ	78 UJ	78 U	77 U	81 U	
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	38	86 UJ	76 UJ	78 UJ	78 U	77 U	81 U	
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	38	86 U	76 U	78 U	78 U	77 U	81 U	
Naphthalene	UG/KG	8.6	3%	13000	0	1	38	86 UJ	76 UJ	78 UJ	78 U	77 U	81 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	38	86 UJ	76 UJ	78 UJ	78 U	77 U	81 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	38	210 R	180 R	190 R	190 U	190 UJ	200 UJ	
Phenanthrene	UG/KG	680	45%	50000	0	17	38	12 J	76 U	78 U	78 U	77 U	17 J	
Phenol	UG/KG	0	0%	30	0	0	38	86 U	76 U	78 U	78 U	77 U	81 U	
Pyrene	UG/KG	1500	47%	50000	0	18	38	17 J	76 UJ	78 UJ	78 UJ	77 U	28 J	
<b>PESTICIDES/PCBS</b>														
4,4'-DDD	UG/KG	3.2	3%	2900	0	1	38	4.3 U	3.8 U	3.8 U	3.9 U	3.8 U	4.1 U	
4,4'-DDE	UG/KG	2.1	3%	2100	0	1	38	4.3 U	3.8 U	3.8 U	3.9 U	3.8 U	4.1 U	
4,4'-DDT	UG/KG	2.6	3%	2100	0	1	38	4.3 U	3.8 U	3.8 U	3.9 U	3.8 U	4.1 U	
Aldrin	UG/KG	0	0%	41	0	0	38	2.2 U	2 U	2 U	2 U	2 U	2.1 U	
Alpha-BHC	UG/KG	0	0%	110	0	0	38	2.2 U	2 U	2 U	2 U	2 U	2.1 U	
Alpha-Chlordane	UG/KG	7.5	3%		0	1	38	2.2 U	2 U	2 U	2 U	2 U	2.1 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	38	43 U	38 U	38 U	39 U	38 U	41 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	38	87 U	77 U	78 U	80 U	78 U	82 U	

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-9A SOIL 123124	SEAD-12 TP12-9B SOIL 123125	SEAD-12 TP12-9C SOIL 123126	SEAD-12 TP12-10A SOIL 123067	SEAD-12 TP12-10A SOIL 123055	SEAD-12 TP12-10B SOIL 123056
PARAMETER	UNIT	MAXIMU												RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Aroclor-1232	UG/KG	0	0%	10000	0	0	0	38	43 U	38 U	38 U	39 U	38 U	41 U					
Aroclor-1242	UG/KG	0	0%	10000	0	0	0	38	43 U	38 U	38 U	39 U	38 U	41 U					
Aroclor-1248	UG/KG	0	0%	10000	0	0	0	38	43 U	38 U	38 U	39 U	38 U	41 U					
Aroclor-1254	UG/KG	0	0%	10000	0	0	0	38	43 U	38 U	38 U	39 U	38 U	41 U					
Aroclor-1260	UG/KG	0	0%	10000	0	0	0	38	43 U	38 U	38 U	39 U	38 U	41 U					
Beta-BHC	UG/KG	0	0%	200	0	0	0	38	2.2 U	2 U	2 U	2 U	2.1 U						
Delta-BHC	UG/KG	0	0%	300	0	0	0	38	2.2 U	2 U	2 U	2 U	2.1 U						
Dieldrin	UG/KG	0	0%	44	0	0	0	38	4.3 U	3.8 U	3.8 U	3.9 U	4.1 U						
Endosulfan I	UG/KG	0	0%	900	0	0	0	38	2.2 U	2 U	2 U	2 U	2.1 U						
Endosulfan II	UG/KG	0	0%	900	0	0	0	38	4.3 U	3.8 U	3.8 U	3.9 U	4.1 U						
Endosulfan sulfate	UG/KG	3	3%	1000	0	1	1	38	4.3 U	3.8 U	3.8 U	3.9 U	4.1 U						
Endrin	UG/KG	20	3%	100	0	1	1	38	4.3 U	3.8 U	3.8 U	3.9 U	4.1 U						
Endrin aldehyde	UG/KG	0	0%	0	0	0	0	38	4.3 U	3.8 U	3.8 U	3.9 U	4.1 U						
Endrin ketone	UG/KG	0	0%	0	0	0	0	38	4.3 U	3.8 U	3.8 U	3.9 U	4.1 U						
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	0	38	2.2 U	2 U	2 U	2 U	2.1 U						
Gamma-Chlordane	UG/KG	0	0%	540	0	0	0	38	2.2 U	2 U	2 U	2 U	2.1 U						
Heptachlor	UG/KG	0	0%	100	0	0	0	38	2.2 U	2 U	2 U	2 U	2.1 U						
Heptachlor epoxide	UG/KG	0	0%	20	0	0	0	38	2.2 U	2 U	2 U	2 U	2.1 U						
Methoxychlor	UG/KG	0	0%	0	0	0	0	38	22 U	20 U	20 U	20 U	21 U						
Toxaphene	UG/KG	0	0%	0	0	0	0	38	220 U	200 U	200 U	200 U	210 U						
<b>METALS</b>																			
Aluminum	MG/KG	16700	100%	19520	0	38	38	13400 J	15500 J	16400 J	13400	13500	13100						
Antimony	MG/KG	0	0%	6	0	0	0	38	1.5 R	1.1 R	99 R	1 R	1.1 R						
Arsenic	MG/KG	9.8	100%	8.9	1	38	38	4.8	4.3	5.3	4.3	3	3.2						
Barium	MG/KG	186	100%	300	0	38	38	90.2 J	69.4 J	181 J	136	121	130						
Beryllium	MG/KG	1.1	97%	1.13	0	37	38	0.53 J	0.55 J	1.1	0.52 J	0.54 J	0.46 J						
Cadmium	MG/KG	13.3	8%	2.46	1	3	38	0.07 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U						
Calcium	MG/KG	73300	100%	125300	0	38	38	2940	1160	2780	5920	9190 J	4990 J						
Chromium	MG/KG	26	100%	30	0	38	38	17	19	20.3	20.3	18.6 J	15.7 J						
Cobalt	MG/KG	19.6	100%	30	0	38	38	8.9 J	7.5 J	12.7	11.3	12.6	11.7						
Copper	MG/KG	34	100%	33	3	38	38	15.2	15.4	26.1	24.6	27.4	16.1						
Cyanide	MG/KG	0	0%	0.35	0	0	0	38	0.69 U	0.61 U	0.64 U	0.59 UJ	0.61 U						
Iron	MG/KG	53400	100%	37410	3	38	38	22100 J	27700 J	28300 J	23500	26700	28600						
Lead	MG/KG	284	100%	24.4	10	38	38	23.1 J	12 J	11.1 J	13.5	13.8 J	67 J						
Magnesium	MG/KG	19200	100%	21700	0	38	38	3290 J	3940 J	5120 J	4540 J	5220	4010						
Manganese	MG/KG	3200	100%	1100	3	38	38	666	139	713	537	487 J	882 J						

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
LOC_ID								TP12-9A	TP12-9B	TP12-9C	TP12-10A	TP12-10A	TP12-10B
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMP_ID								123124	123125	123126	123067	123055	123056
DEPTH_TOP								0.5	1	2.5	1	1	2
DEPTH_BOT								0.5	1	2.5	1	1	2
SAMP_DATE								15-Oct-98	15-Oct-98	15-Oct-98	10/4/1998	10/4/1998	10/4/1998
QC_CODE								SA	SA	SA	DU	SA	SA
STUDY_ID		FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER		RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
		OF	TAGM	ABOVE	OF	OF		Step 1	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	DETECTION	4046	TAGM	DETECTS	ANALYSES						
Mercury	MG/KG	0.2	42%	0.1	8	16	38	0.07 J	0.06 U	0.06 U	0.05 U	0.06 UJ	0.05 UJ
Nickel	MG/KG	51.3	95%	50	1	36	38	18.8 J	20.2 J	32.5 J	32.5	35.4 J	25.2 J
Potassium	MG/KG	3460	100%	2623	2	38	38	905 J	771 J	1070	1080	1110	1170
Selenium	MG/KG	1.8	21%	2	0	8	38	1.1 J	0.79 UJ	0.75 UJ	0.79 U	0.42 U	0.43 J
Silver	MG/KG	0.26	8%	0.8	0	3	38	0.29 U	0.21 U	0.2 U	0.21 U	0.22 U	0.25 J
Sodium	MG/KG	748	47%	188	3	18	38	61.4 U	43.4 U	41 U	43.2 U	46.1 U	45.9 U
Thallium	MG/KG	1.6	26%	0.855	10	10	38	1.3 U	0.93 J	1.3 J	0.89 U	0.95 U	0.95 U
Vanadium	MG/KG	29.3	100%	150	0	38	38	22.8	24.7	24.5	19.7	19.7	21.3
Zinc	MG/KG	3370	100%	115	4	38	38	62.1 J	47.7 J	61.4 J	76	79.8 J	77.6 J
<b>WET CHEMISTRY</b>													
Nitrate/Nitrite	%WW												
Nitrate/Nitrite	MG/KG												
pH	SU												
TOC-Soil 9060	MG/KG												
Percent Solids	%WW												
Percent Solids	MG/KG												
Cation exchange capacity	meq/100g												

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-10C SOIL		SEAD-12 TP12-13A SOIL		SEAD-12 TP12-13B SOIL		SEAD-12 TP12-13C SOIL		SEAD-12 TP12-14A SOIL		SEAD-12 TP12-14B SOIL		
										123057	123052	123053	123054	123004	123005						
										5.5	0.8	5.5	1.5	0.5	1.5						
										5.5	0.8	5.5	1.5	0.5	1.5						
										10/4/1998	10/3/1998	10/3/1998	10/3/1998	9/30/1998	9/30/1998						
										SA	SA	SA	SA	SA	SA						
										RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1						
										Step 1	Step 1	Step 1	Step 1	Step 1	Step 1						
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES														
<b>VOLATILE ORGANICS</b>																					
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Acetone	UG/KG	100	26%	200	0	10	38			12 UJ		11 UJ		11 UJ		11 UJ		11 U		11 U	12 U
Benzene	UG/KG	0	0%	60	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Bromodichloromethane	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Bromoform	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Chlorodibromomethane	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Chloroethane	UG/KG	0	0%	1900	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Chloroform	UG/KG	0	0%	300	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Methyl bromide	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Methyl butyl ketone	UG/KG	0	0%		0	0	38			12 UJ		11 U		11 UJ		11 UJ		11 U		11 U	12 U
Methyl chloride	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Methyl ethyl ketone	UG/KG	35	3%	300	0	1	38			12 UJ		11 U		11 UJ		11 UJ		11 U		11 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Methylene chloride	UG/KG	0	0%	100	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Styrene	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Toluene	UG/KG	10	21%	1500	0	8	38			12 U		4 J		11 U		6 J		11 U		11 U	12 U
Total Xylenes	UG/KG	2	3%	1200	0	1	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Trichloroethene	UG/KG	54	3%	700	0	1	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
Vinyl chloride	UG/KG	0	0%	200	0	0	38			12 U		11 U		11 U		11 U		11 U		11 U	12 U
<b>SEMI VOLATILE ORGANICS</b>																					
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	38			66 U		76 U		76 U		73 U		78 UJ		78 UJ	78 UJ

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-10C SOIL 123057	SEAD-12 TP12-13A SOIL 123052	SEAD-12 TP12-13B SOIL 123053	SEAD-12 TP12-13C SOIL 123054	SEAD-12 TP12-14A SOIL 123004	SEAD-12 TP12-14B SOIL 123005						
														10/4/1998 SA	10/3/1998 SA	10/3/1998 SA	10/3/1998 SA	9/30/1998 SA	9/30/1998 SA						
														RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU																							
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	38	66	U	76	U	76	U	76	U	73	U	78	UJ	78	UJ				
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	38	66	U	76	U	76	U	76	U	73	U	78	UJ	78	UJ				
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	38	160	U	180	U	180	U	180	U	180	U	190	U	190	U				
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	UJ	78	UJ				
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	38	66	UJ	76	UJ	76	UJ	76	UJ	73	UJ	78	UJ	78	UJ				
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	38	160	U	180	U	180	U	180	U	180	U	190	R	190	R				
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	UJ	78	UJ				
2-Chlorophenol	UG/KG	0	0%	800	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
2-Methylphenol	UG/KG	0	0%	100	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
2-Nitroaniline	UG/KG	0	0%	430	0	0	38	160	U	180	U	180	U	180	U	180	U	190	U	190	U				
2-Nitrophenol	UG/KG	0	0%	330	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
3-Nitroaniline	UG/KG	0	0%	500	0	0	38	160	UJ	180	UJ	180	UJ	180	UJ	180	UJ	190	UJ	190	UJ				
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	38	160	U	180	U	180	U	180	U	180	U	190	UJ	190	UJ				
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
4-Chloroaniline	UG/KG	0	0%	220	0	0	38	66	UJ	76	UJ	76	UJ	76	UJ	73	UJ	78	UJ	78	UJ				
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
4-Methylphenol	UG/KG	86	5%	900	0	2	38	66	J	76	U	76	U	76	U	73	U	78	UJ	78	UJ				
4-Nitroaniline	UG/KG	0	0%	41000	0	0	38	160	U	180	U	180	U	180	U	180	U	190	UJ	190	UJ				
4-Nitrophenol	UG/KG	0	0%	100	0	0	38	160	UJ	180	UJ	180	UJ	180	UJ	180	UJ	190	UJ	190	UJ				
Acenaphthene	UG/KG	28	5%	50000	0	2	38	15	J	76	U	76	U	76	U	73	U	78	UJ	78	UJ				
Acenaphthylene	UG/KG	21	8%	41000	0	3	38	66	U	76	U	76	U	76	U	73	U	78	UJ	78	UJ				
Anthracene	UG/KG	74	16%	50000	0	6	38	21	J	48	J	17	J	17	J	58	J	78	UJ	78	UJ				
Benzo(a)anthracene	UG/KG	760	42%	224	1	16	38	60	J	27	J	78	J	38	J	38	J	78	UJ	78	UJ				
Benzo(a)pyrene	UG/KG	1000	45%	61	3	17	38	63	J	30	J	76	J	44	J	44	J	78	UJ	78	UJ				
Benzo(b)fluoranthene	UG/KG	1100	45%	1100	0	17	38	66	J	29	J	66	J	49	J	49	J	56	J	78	UJ				
Benzo(ghi)perylene	UG/KG	820	34%	50000	0	13	38	43	J	48	J	63	J	58	J	58	J	78	U	78	U				
Benzo(k)fluoranthene	UG/KG	1100	39%	1100	0	15	38	65	J	41	J	89	J	45	J	45	J	78	U	78	U				
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	38	66	U	76	U	76	U	76	U	73	U	78	U	78	U				

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-10C SOIL	SEAD-12 TP12-13A SOIL	SEAD-12 TP12-13B SOIL	SEAD-12 TP12-13C SOIL	SEAD-12 TP12-14A SOIL	SEAD-12 TP12-14B SOIL
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	38	66 U		76 U		73 U		78 U
Bis(2-Ethylhexyl)phthalate	UG/KG	73	24%	50000	0	9	38	66 UJ		12 J		9.8 J		8.5 J
Butylbenzylphthalate	UG/KG	6.2	5%	50000	0	2	38	66 UJ		76 U		76 UJ		73 UJ
Carbazole	UG/KG	120	13%		0	5	38	27 J		5.4 J		15 J		7.2 J
Chrysene	UG/KG	1000	53%	400	1	20	38	72		38 J		87		4 J
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	38	66 U		76 U		76 U		73 U
Di-n-octylphthalate	UG/KG	34	16%	50000	0	6	38	66 UJ		76 U		76 UJ		73 UJ
Dibenz(a,h)anthracene	UG/KG	300	18%	14	4	7	38	18 J		11 J		18 J		19 J
Dibenzofuran	UG/KG	16	5%	6200	0	2	38	7.1 J		76 U		76 U		73 U
Diethyl phthalate	UG/KG	4.3	3%	7100	0	1	38	66 U		76 U		76 U		73 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	38	66 U		76 U		76 U		73 U
Fluoranthene	UG/KG	1900	47%	50000	0	18	38	170		64 J		180		71 J
Fluorene	UG/KG	44	8%	50000	0	3	38	14 J		76 U		10 J		73 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	38	66 U		76 U		76 U		73 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	38	66 U		76 UJ		76 U		73 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	38	66 U		76 U		76 U		73 U
Hexachloroethane	UG/KG	0	0%		0	0	38	66 U		76 U		76 U		73 U
Indeno(1,2,3-cd)pyrene	UG/KG	830	34%	3200	0	13	38	45 J		27 J		62 J		45 J
Isophorone	UG/KG	0	0%	4400	0	0	38	66 U		76 U		76 U		73 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	38	66 U		76 U		76 U		73 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	38	66 U		76 U		76 U		73 U
Naphthalene	UG/KG	8.6	3%	13000	0	1	38	8.6 J		76 U		76 U		73 U
Nitrobenzene	UG/KG	0	0%	200	0	0	38	66 U		76 U		76 U		73 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	38	160 UJ		180 UJ		180 UJ		190 UJ
Phenanthrene	UG/KG	680	45%	50000	0	17	38	140		39 J		110		38 J
Phenol	UG/KG	0	0%	30	0	0	38	66 U		76 U		76 U		73 U
Pyrene	UG/KG	1500	47%	50000	0	18	38	160		64 J		180		81
<b>PESTICIDES/PCBS</b>														
4,4'-DDD	UG/KG	3.2	3%	2900	0	1	38	4.1 U		3.8 U		3.8 U		3.7 U
4,4'-DDE	UG/KG	2.1	3%	2100	0	1	38	4.1 U		3.8 U		3.8 U		3.7 U
4,4'-DDT	UG/KG	2.6	3%	2100	0	1	38	4.1 U		3.8 U		3.8 U		3.7 U
Aldrin	UG/KG	0	0%	41	0	0	38	2.1 U		2 U		1.9 U		1.9 U
Alpha-BHC	UG/KG	0	0%	110	0	0	38	2.1 U		2 U		1.9 U		1.9 U
Alpha-Chlordane	UG/KG	7.5	3%		0	1	38	2.1 U		2 U		1.9 U		1.9 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	38	41 U		38 U		38 U		37 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	38	83 U		77 U		77 U		74 U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-10C SOIL	SEAD-12 TP12-13A SOIL	SEAD-12 TP12-13B SOIL	SEAD-12 TP12-13C SOIL	SEAD-12 TP12-14A SOIL	SEAD-12 TP12-14B SOIL	
									123057	123052	123053	123054	123004	123005	
									5.5	0.8	5.5	1.5	0.5	1.5	
									5.5	0.8	5.5	1.5	0.5	1.5	
									10/4/1998	10/3/1998	10/3/1998	10/3/1998	9/30/1998	9/30/1998	
									SA	SA	SA	SA	SA	SA	
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	
									Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES								
Aroclor-1232	UG/KG	0	0%	10000	0	0	38	41	U	38	U	38	U	39	U
Aroclor-1242	UG/KG	0	0%	10000	0	0	38	41	U	38	U	38	U	39	U
Aroclor-1248	UG/KG	0	0%	10000	0	0	38	41	U	38	U	38	U	39	U
Aroclor-1254	UG/KG	0	0%	10000	0	0	38	41	U	38	U	38	U	39	U
Aroclor-1260	UG/KG	0	0%	10000	0	0	38	41	U	38	U	38	U	39	U
Beta-BHC	UG/KG	0	0%	200	0	0	38	2.1	U	2	U	1.9	U	2	U
Delta-BHC	UG/KG	0	0%	300	0	0	38	2.1	U	2	U	1.9	U	2	U
Dieldrin	UG/KG	0	0%	44	0	0	38	4.1	U	3.8	U	3.8	U	3.9	U
Endosulfan I	UG/KG	0	0%	900	0	0	38	2.1	U	2	U	1.9	U	2	U
Endosulfan II	UG/KG	0	0%	900	0	0	38	4.1	U	3.8	U	3.8	U	3.9	U
Endosulfan sulfate	UG/KG	3	3%	1000	0	1	38	4.1	U	3.8	U	3.8	U	3.9	U
Endrin	UG/KG	20	3%	100	0	1	38	4.1	U	3.8	U	3.8	U	3.9	U
Endrin aldehyde	UG/KG	0	0%		0	0	38	4.1	U	3.8	U	3.8	U	3.9	U
Endrin ketone	UG/KG	0	0%		0	0	38	4.1	U	3.8	U	3.8	U	3.9	U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	38	2.1	U	2	U	1.9	U	2	U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	38	2.1	U	2	U	1.9	U	2	U
Heptachlor	UG/KG	0	0%	100	0	0	38	2.1	U	2	U	1.9	U	2	U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	38	2.1	U	2	U	1.9	U	2	U
Methoxychlor	UG/KG	0	0%		0	0	38	2.1	U	20	U	19	U	20	U
Toxaphene	UG/KG	0	0%		0	0	38	210	U	200	U	190	U	200	U
<b>METALS</b>															
Aluminum	MG/KG	16700	100%	19520	0	38	38	11400		9630		8880		10000	
Antimony	MG/KG	0	0%	6	0	0	38	1.1	R	0.95	R	1.2	R	1.3	R
Arsenic	MG/KG	9.8	100%	8.9	1	38	38	1.8	J	3.9		3.2		4.2	
Barium	MG/KG	186	100%	300	0	38	38	87.4		86.6		79.7		99	
Beryllium	MG/KG	1.1	97%	1.13	0	37	38	0.58	J	0.29	J	0.32	J	0.34	J
Cadmium	MG/KG	13.3	8%	2.46	1	3	38	0.06	U	0.06	U	0.06	U	0.06	U
Calcium	MG/KG	73300	100%	125300	0	38	38	8680	J	11600	J	31800	J	7320	J
Chromium	MG/KG	26	100%	30	0	38	38	13.3	J	11.8	J	11.7	J	11.4	J
Cobalt	MG/KG	19.6	100%	30	0	38	38	9	J	10.4		8.5	J	9.4	J
Copper	MG/KG	34	100%	33	3	38	38	19.6		33.5		23.8		24.6	
Cyanide	MG/KG	0	0%	0.35	0	38	38	0.69	U	0.59	U	0.59	U	0.61	U
Iron	MG/KG	53400	100%	37410	3	38	38	20300		34500		17600		19300	
Lead	MG/KG	284	100%	24.4	10	38	38	16.8	J	284	J	151	J	10.7	J
Magnesium	MG/KG	19200	100%	21700	0	38	38	3920		5250		15200		4380	
Manganese	MG/KG	3200	100%	1100	3	38	38	296	J	792	J	430	J	541	J

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-10C SOIL 123057 5.5 5.5 10/4/1998 SA		SEAD-12 TP12-13A SOIL 123052 0.8 0.8 10/3/1998 SA		SEAD-12 TP12-13B SOIL 123053 5.5 5.5 10/3/1998 SA		SEAD-12 TP12-13C SOIL 123054 1.5 1.5 10/3/1998 SA		SEAD-12 TP12-14A SOIL 123004 0.5 0.5 9/30/1998 SA		SEAD-12 TP12-14B SOIL 123005 1.5 1.5 9/30/1998 SA	
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Mercury	MG/KG	0.2	42%	0.1	8	16	38	0.08	J	0.14	J	0.1	J	0.16	J	0.05	UJ	0.06	J
Nickel	MG/KG	51.3	95%	50	1	36	38	23.8	J	24.5	J	19	J	16.4	J	29.6		26.9	
Potassium	MG/KG	3460	100%	2623	2	38	38	1060		1470		1200		1630		1140		1000	J
Selenium	MG/KG	1.8	21%	2	0	8	38	0.43	U	0.36	U	0.45	U	0.52	J	0.96	U	0.98	U
Silver	MG/KG	0.26	8%	0.8	0	3	38	0.22	U	0.19	U	0.24	U	0.24	U	0.25	U	0.26	U
Sodium	MG/KG	748	47%	188	3	18	38	46.9	U	748	J	49.6	U	50.4	U	52.8	U	53.7	U
Thallium	MG/KG	1.6	26%	0.855	10	10	38	0.97	U	0.81	U	1	U	1	U	1.1	U	1.1	U
Vanadium	MG/KG	29.3	100%	150	0	38	38	18		17.2		15.3		17.5		24.2		24.7	
Zinc	MG/KG	3370	100%	115	4	38	38	74.9	J	3370	J	117	J	114	J	70.2		66	
<b>WET CHEMISTRY</b>																			
Nitrate/Nitrite	%WW																		
Nitrate/Nitrite	MG/KG																		
pH	SU																		
TOC-Soil 9060	MG/KG																		
Percent Solids	%WW																		
Percent Solids	MG/KG																		
Cation exchange capacity	meq/100g																		



TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID									
									SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
									TP12-14C	TP12-20A	TP12-20A	TP12-20B	TP12-20C	TP12-20C	TP12-20C	TP12-21A	TP12-21A
									SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
									123006	123000	123019	123020	123021	123021	123001	123001	123001
									2	0.5	0.5	2.5	6	6	0.7	0.7	0.7
									2	0.5	0.5	2.5	6	6	0.7	0.7	0.7
									9/30/1998	9/30/1998	9/30/1998	9/30/1998	9/30/1998	9/30/1998	9/29/1998	9/29/1998	9/29/1998
									SA	DU	SA	SA	SA	SA	SA	SA	SA
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1
									Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES										
<b>VOLATILE ORGANICS</b>																	
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	38	11	U	12	U	12	U	11	U	11	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	38	11	U	12	U	12	UJ	11	U	11	U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	38	11	U	12	U	12	U	11	U	11	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	38	11	U	12	U	12	U	11	U	11	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	38	11	U	12	U	12	U	11	U	11	U
1,2-Dichloroethene (total)	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Acetone	UG/KG	100	26%	200	0	10	38	11	U	12	U	12	U	11	U	4	J
Benzene	UG/KG	0	0%	60	0	0	38	11	U	12	U	12	U	11	U	11	U
Bromodichloromethane	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Bromoform	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	UJ	11	U	11	U
Carbon disulfide	UG/KG	0	0%	2700	0	0	38	11	U	12	U	12	U	11	U	11	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	38	11	U	12	U	12	U	11	U	11	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	38	11	U	12	U	12	UJ	11	U	11	U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Chloroethane	UG/KG	0	0%	1900	0	0	38	11	U	12	U	12	U	11	U	11	U
Chloroform	UG/KG	0	0%	300	0	0	38	11	U	12	U	12	U	11	U	11	U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Ethyl benzene	UG/KG	0	0%	5500	0	0	38	11	U	12	U	12	UJ	11	U	11	U
Methyl bromide	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Methyl chloride	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Methyl ethyl ketone	UG/KG	35	3%	300	0	1	38	11	U	12	U	12	U	11	U	11	U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	38	11	U	12	U	12	U	11	U	11	U
Methylene chloride	UG/KG	0	0%	100	0	0	38	11	U	12	U	12	U	11	U	11	U
Styrene	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	UJ	11	U	11	U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	38	11	U	12	U	12	U	11	U	11	U
Toluene	UG/KG	10	21%	1500	0	8	38	11	U	12	U	12	U	11	U	11	U
Total Xylenes	UG/KG	2	3%	1200	0	1	38	11	U	12	U	12	UJ	11	U	11	U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	38	11	U	12	U	12	U	11	U	11	U
Trichloroethene	UG/KG	54	3%	700	0	1	38	11	U	12	U	12	U	11	U	11	U
Vinyl chloride	UG/KG	0	0%	200	0	0	38	11	U	12	U	12	U	11	U	11	U
<b>SEMI VOLATILE ORGANICS</b>																	
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-14C SOIL 123006 2 2 9/30/1998 SA		SEAD-12 TP12-20A SOIL 123000 0.5 0.5 9/30/1998 DU		SEAD-12 TP12-20A SOIL 123019 0.5 0.5 9/30/1998 SA		SEAD-12 TP12-20B SOIL 123020 2.5 2.5 9/30/1998 SA		SEAD-12 TP12-20C SOIL 123021 6 6 9/30/1998 SA		SEAD-12 TP12-21A SOIL 123001 0.7 0.7 9/29/1998 SA	
								RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	38	180	U	190	U	190	U	180	U	180	U	180	U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	38	73	U	78	U	77	U	76	U	72	U	74	UJ
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	38	180	U	190	U	190	U	180	U	180	U	180	R
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
2-Chlorophenol	UG/KG	0	0%	800	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
2-Methylphenol	UG/KG	0	0%	100	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	38	180	U	190	U	190	U	180	U	180	U	180	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	38	180	U	190	U	190	UJ	180	UJ	180	UJ	180	UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	38	180	U	190	U	190	U	180	U	180	U	180	UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
4-Methylphenol	UG/KG	8.6	5%	900	0	2	38	73	U	78	U	77	U	76	U	72	U	74	UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	38	180	UJ	190	UJ	190	U	180	U	180	U	180	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	38	180	U	190	U	190	U	180	U	180	U	180	UJ
Acenaphthene	UG/KG	28	5%	50000	0	2	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
Acenaphthylene	UG/KG	21	8%	41000	0	3	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
Anthracene	UG/KG	74	16%	50000	0	6	38	73	UJ	78	UJ	77	UJ	76	UJ	72	UJ	74	UJ
Benzo(a)anthracene	UG/KG	760	42%	224	1	16	38	73	U	6.7	J	5.9	J	5.2	J	72	U	74	U
Benzo(a)pyrene	UG/KG	1000	45%	61	3	17	38	5.8	J	9.8	J	9.6	J	5.2	J	72	UJ	74	UJ
Benzo(b)fluoranthene	UG/KG	1100	45%	1100	0	17	38	6.6	J	13	J	15	J	76	U	72	U	74	UJ
Benzo(ghi)perylene	UG/KG	820	34%	50000	0	13	38	6.2	J	7.9	J	16	J	76	U	72	U	74	U
Benzo(k)fluoranthene	UG/KG	1100	39%	1100	0	15	38	5.9	J	11	J	14	J	76	U	72	U	74	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	38	73	U	78	U	77	U	76	U	72	U	74	U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID							SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12
MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID		TP12-14C	TP12-20A	TP12-20A	TP12-20B	TP12-20C	TP12-21A
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								123006	123000	123019	123020	123021	123001
								2	0.5	0.5	2.5	6	0.7
								2	0.5	0.5	2.5	6	0.7
								9/30/1998	9/30/1998	9/30/1998	9/30/1998	9/30/1998	9/29/1998
								SA	DU	SA	SA	SA	SA
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	38	73 U	78 U	77 U	76 U	72 U	74 U
Bis(2-Ethylhexyl)phthalate	UG/KG	73	24%	50000	0	9	38	73 U	78 U	77 U	76 U	72 U	74 UJ
Butylbenzylphthalate	UG/KG	6.2	5%	50000	0	2	38	73 U	78 U	77 U	76 U	72 U	74 UJ
Carbazole	UG/KG	120	13%		0	5	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Chrysene	UG/KG	1000	53%	400	1	20	38	5.1 J	12 J	14 J	5.4 J	72 UJ	74 UJ
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Di-n-octylphthalate	UG/KG	34	16%	50000	0	6	38	73 U	78 U	77 U	76 U	72 U	74 U
Dibenz(a,h)anthracene	UG/KG	300	18%	14	4	7	38	73 U	78 U	77 U	76 U	72 U	74 U
Dibenzofuran	UG/KG	16	5%	6200	0	2	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Diethyl phthalate	UG/KG	4.3	3%	7100	0	1	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Dimethylphthalate	UG/KG	0	0%	2000	0	0	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Fluoranthene	UG/KG	1900	47%	50000	0	18	38	4.9 J	15 J	15 J	76 UJ	72 UJ	74 UJ
Fluorene	UG/KG	44	8%	50000	0	3	38	73 U	78 U	77 U	76 U	72 U	74 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	38	73 U	78 U	77 U	76 U	72 U	74 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	38	73 U	78 U	77 U	76 U	72 U	74 UJ
Hexachloroethane	UG/KG	0	0%		0	0	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	830	34%	3200	0	13	38	5.5 J	7.2 J	10 J	5.7 J	72 U	74 U
Isophorone	UG/KG	0	0%	4400	0	0	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	38	73 U	78 U	77 U	76 U	72 U	74 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	38	73 U	78 U	77 U	76 U	72 U	74 U
Naphthalene	UG/KG	8.6	3%	13000	0	1	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Nitrobenzene	UG/KG	0	0%	200	0	0	38	73 UJ	78 UJ	77 UJ	76 UJ	72 UJ	74 UJ
Pentachlorophenol	UG/KG	0	0%	1000	0	0	38	180 U	190 U	190 R	180 R	180 R	180 UJ
Phenanthrene	UG/KG	680	45%	50000	0	17	38	73 U	8.8 J	8.9 J	76 U	72 U	74 U
Phenol	UG/KG	0	0%	30	0	0	38	73 U	78 U	77 U	76 U	72 U	74 U
Pyrene	UG/KG	1500	47%	50000	0	18	38	4.9 J	13 J	18 J	76 U	72 U	74 U
<b>PESTICIDES/PCBS</b>													
4,4'-DDD	UG/KG	3.2	3%	2900	0	1	38	3.7 U	3.9 U	3.8 U	3.8 U	3.6 U	3.7 U
4,4'-DDE	UG/KG	2.1	3%	2100	0	1	38	3.7 U	3.9 U	3.8 U	2.1 J	3.6 U	3.7 U
4,4'-DDT	UG/KG	2.6	3%	2100	0	1	38	3.7 U	3.9 U	3.8 U	3.8 U	3.6 U	3.7 U
Aldrin	UG/KG	0	0%	41	0	0	38	1.9 U	2 U	2 U	2 U	1.9 U	1.9 U
Alpha-BHC	UG/KG	0	0%	110	0	0	38	1.9 U	2 U	2 U	2 U	1.9 U	1.9 U
Alpha-Chlordane	UG/KG	7.5	3%		0	1	38	1.9 U	2 U	2 U	7.5	1.9 U	1.9 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	38	37 U	39 U	38 U	38 U	36 U	37 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	38	74 U	80 U	78 U	77 U	74 U	75 U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-14C SOIL	SEAD-12 TP12-20A SOIL	SEAD-12 TP12-20A SOIL	SEAD-12 TP12-20B SOIL	SEAD-12 TP12-20C SOIL	SEAD-12 TP12-21A SOIL
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Aroclor-1232	UG/KG	0	0%	10000	0	0	38	37 U	39 U	38 U	38 U	38 U	36 U	37 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	38	37 U	39 U	38 U	38 U	38 U	36 U	37 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	38	37 U	39 U	38 U	38 U	38 U	36 U	37 U
Aroclor-1254	UG/KG	0	0%	10000	0	0	38	37 U	39 U	38 U	38 U	38 U	36 U	37 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	38	37 U	39 U	38 U	38 U	38 U	36 U	37 U
Beta-BHC	UG/KG	0	0%	200	0	0	38	1.9 U	2 U	2 U	2 U	2 U	1.9 U	1.9 U
Delta-BHC	UG/KG	0	0%	300	0	0	38	1.9 U	2 U	2 U	2 U	2 U	1.9 U	1.9 U
Dieldrin	UG/KG	0	0%	44	0	0	38	3.7 U	3.9 U	3.8 U	3.8 U	3.8 U	3.6 U	3.7 U
Endosulfan I	UG/KG	0	0%	900	0	0	38	1.9 U	2 U	2 U	2 U	2 U	1.9 U	1.9 U
Endosulfan II	UG/KG	0	0%	900	0	0	38	3.7 U	3.9 U	3.8 U	3.8 U	3.8 U	3.6 U	3.7 U
Endosulfan sulfate	UG/KG	3	3%	1000	0	1	38	3.7 U	3.9 U	3.8 U	3.8 U	3.8 U	3.6 U	3.7 U
Endrin	UG/KG	20	3%	100	0	1	38	3.7 U	3.9 U	3.8 U	20 J	3.6 U	3.7 U	3.7 U
Endrin aldehyde	UG/KG	0	0%	0	0	0	38	3.7 U	3.9 U	3.8 U	3.8 U	3.6 U	3.7 U	3.7 U
Endrin ketone	UG/KG	0	0%	0	0	0	38	3.7 U	3.9 U	3.8 U	3.8 U	3.6 U	3.7 U	3.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	38	1.9 U	2 U	2 U	2 U	1.9 U	1.9 U	1.9 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	38	1.9 U	2 U	2 U	2 U	1.9 U	1.9 U	1.9 U
Heptachlor	UG/KG	0	0%	100	0	0	38	1.9 U	2 U	2 U	2 U	1.9 U	1.9 U	1.9 U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	38	1.9 U	2 U	2 U	2 U	1.9 U	1.9 U	1.9 U
Methoxychlor	UG/KG	0	0%	0	0	0	38	19 U	20 U	20 U	20 U	19 U	19 U	19 U
Toxaphene	UG/KG	0	0%	0	0	0	38	190 U	200 U	200 U	200 U	190 U	190 U	190 U
<b>METALS</b>														
Aluminum	MG/KG	16700	100%	19520	0	38	38	13000	10300	12000	12000	12000	10500	15800
Antimony	MG/KG	0	0%	6	0	0	38	1.1 R	1.4 R	1.3 R	1.3 R	1.2 R	1.3 R	
Arsenic	MG/KG	9.8	100%	8.9	1	38	38	2.7	3.4	3	3	3.6	4.9	
Barium	MG/KG	186	100%	300	0	38	38	47	109	113	186	78.6	60.8	
Beryllium	MG/KG	1.1	97%	1.13	0	37	38	0.41 J	0.52 J	0.52 J	0.02 U	0.41 J	0.64 J	
Cadmium	MG/KG	13.3	8%	2.46	1	3	38	0.05 U	0.07 U	0.06 U	0.06 U	0.06 U	0.06 U	
Calcium	MG/KG	73300	100%	125300	0	38	38	430 J	5170	4190	3970	66000	3730	
Chromium	MG/KG	26	100%	30	0	38	38	16.4	14	15.8	20.7	18.5	26	
Cobalt	MG/KG	19.6	100%	30	0	38	38	8.7	6.8 J	8.5 J	12	11.3	13.3	
Copper	MG/KG	34	100%	33	3	38	38	12.9	20.8	15.1	33	29.2	22	
Cyanide	MG/KG	0	0%	0.35	0	0	38	0.56 U	0.61 U	0.64 U	0.63 U	0.6 U	0.57 U	
Iron	MG/KG	53400	100%	37410	3	38	38	22200 J	19100 J	19900 J	41400 J	25000 J	33800 J	
Lead	MG/KG	284	100%	24.4	10	38	38	10.4	29.3	21.2	15.1	11.8	11.2	
Magnesium	MG/KG	19200	100%	21700	0	38	38	2970	2680	2890	4340	12300	5080	
Manganese	MG/KG	3200	100%	1100	3	38	38	371	419	605	3200	426	512	

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-14C SOIL		SEAD-12 TP12-20A SOIL		SEAD-12 TP12-20A SOIL		SEAD-12 TP12-20B SOIL		SEAD-12 TP12-20C SOIL		SEAD-12 TP12-21A SOIL													
								123006	2	0.5	123000	0.5	0.5	123019	0.5	2.5	123020	2.5	6	123021	6	0.7	123001	0.7							
PARAMETER								9/30/1998 SA	9/30/1998 DU	9/30/1998 SA	9/30/1998 SA	9/30/1998 SA	9/30/1998 SA	9/30/1998 SA	9/29/1998 SA	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1		
Mercury	MG/KG	0.2	42%	0.1	8	16	38	0.05	UJ	0.08	J	0.06	U	0.05	U	0.06	U	0.06	U	0.13	J										
Nickel	MG/KG	51.3	95%	50	1	36	38	18	J	16.6	J	18.2	J	40.5	J	36.4	J	38.3	J												
Potassium	MG/KG	3460	100%	2623	2	38	38	745	J	880	J	1090	J	908	J	1540	J	1290	J												
Selenium	MG/KG	1.8	21%	2	0	8	38	0.8	U	1.1	U	0.99	U	0.96	U	0.87	U	0.97	U												
Silver	MG/KG	0.26	8%	0.8	0	3	38	0.21	U	0.28	U	0.26	U	0.25	U	0.23	U	0.25	U												
Sodium	MG/KG	748	47%	188	3	18	38	43.6	U	59.1	UJ	54.9	J	70.2	J	78.1	J	53	U												
Thallium	MG/KG	1.6	26%	0.855	10	10	38	0.9	U	1.2	U	1.1	U	1.1	U	0.99	U	1.6	J												
Vanadium	MG/KG	29.3	100%	150	0	38	38	20.7	J	17.8	J	19.7	J	27.4	J	16.7	J	22.6	J												
Zinc	MG/KG	3370	100%	115	4	38	38	48.6	J	58.5	J	58.3	J	99.4	J	71.6	J	82.3	J												
<b>WET CHEMISTRY</b>																															
Nitrate/Nitrite	%WW																														
Nitrate/Nitrite	MG/KG																														
pH	SU																														
TOC-Soil 9060	MG/KG																														
Percent Solids	%WW																														
Percent Solids	MG/KG																														
Cation exchange capacity	meq/100g																														

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12		
LOC_ID								TP12-21B	TP12-21C	TP12-22AA	TP12-22BA	TP12-22BB	TP12-24A		
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
SAMP_ID								123002	123003	123058	123059	123060	123093		
DEPTH_TOP								3	5.5	0.5	0.5	1.5	0.5		
DEPTH_BOT								3	5.5	0.5	0.5	1.5	0.5		
SAMP_DATE								9/29/1998	9/29/1998	10/4/1998	10/4/1998	10/4/1998	13-Oct-98		
QC_CODE								SA	SA	SA	SA	SA	SA		
STUDY_ID								RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES								
<b>VOLATILE ORGANICS</b>															
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	38	12	U		14	U		12	U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	38	12	U		14	U		12	UJ
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	38	12	U		14	U		12	U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	38	12	U		14	U		12	U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	38	12	U		14	U		12	U
1,2-Dichloroethene (total)	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
Acetone	UG/KG	100	26%	200	0	10	38	12	U		100	12	UJ	12	UJ
Benzene	UG/KG	0	0%	60	0	0	38	12	U		14	U		12	U
Bromodichloromethane	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
Bromoform	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
Carbon disulfide	UG/KG	0	0%	2700	0	0	38	12	U		14	U		12	U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	38	12	U		14	U		12	U
Chlorobenzene	UG/KG	0	0%	1700	0	0	38	12	U		14	U		12	UJ
Chlorodibromomethane	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	U
Chloroethane	UG/KG	0	0%	1900	0	0	38	12	U		14	U		12	U
Chloroform	UG/KG	0	0%	300	0	0	38	12	U		14	U		12	U
Cis-1,3-Dichloropropane	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
Ethyl benzene	UG/KG	0	0%	5500	0	0	38	12	U		14	U		12	UJ
Methyl bromide	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
Methyl chloride	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	U
Methyl ethyl ketone	UG/KG	35	3%	300	0	1	38	12	U		35	12	UJ	12	UJ
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	38	12	U		14	U		12	UJ
Methylene chloride	UG/KG	0	0%	100	0	0	38	12	U		14	U		12	U
Styrene	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
Tetrachloroethene	UG/KG	0	0%	1400	0	0	38	12	U		14	U		12	UJ
Toluene	UG/KG	10	21%	1500	0	8	38	12	U		14	U		12	UJ
Total Xylenes	UG/KG	2	3%	1200	0	1	38	12	U		14	U		10	J
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	38	12	U		14	U		12	UJ
Trichloroethene	UG/KG	54	3%	700	0	1	38	12	U		14	U		12	UJ
Vinyl chloride	UG/KG	0	0%	200	0	0	38	12	U		14	U		12	U
<b>SEMI VOLATILE ORGANICS</b>															
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	38	77	UJ		280	UJ		80	U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-21B SOIL	SEAD-12 TP12-21C SOIL	SEAD-12 TP12-22AA SOIL	SEAD-12 TP12-22BA SOIL	SEAD-12 TP12-22BB SOIL	SEAD-12 TP12-24A SOIL					
									123002	123003	123058	123059	123060	123093					
									3	5.5	0.5	0.5	1.5	0.5					
									3	5.5	0.5	0.5	1.5	0.5					
									9/29/1998	9/29/1998	10/4/1998	10/4/1998	10/4/1998	13-Oct-98					
									SA	SA	SA	SA	SA	SA					
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1					
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES												
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	38	77	UJ	280	UJ	80	U	80	U	72	U	77	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	38	77	UJ	280	UJ	80	U	80	U	72	U	77	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	38	190	U	680	U	200	U	190	U	180	U	190	U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	38	77	UJ	280	U	80	U	80	U	72	U	77	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	38	77	UJ	280	UJ	80	UJ	80	UJ	72	UJ	77	U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	38	190	R	680	U	200	U	190	U	180	U	190	UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
2-Chloronaphthalene	UG/KG	0	0%		0	0	38	77	UJ	280	UJ	80	U	80	U	72	U	77	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	38	77	UJ	280	UJ	80	U	80	U	72	U	77	U
2-Methylphenol	UG/KG	0	0%	100	0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	38	190	U	680	U	200	U	190	U	180	U	190	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	80	U	72	U	77	UJ
3-Nitroaniline	UG/KG	0	0%	500	0	0	38	190	UJ	680	U	200	U	190	U	180	U	190	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	38	190	UJ	680	U	200	U	190	U	180	U	190	U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	38	77	UJ	280	UJ	80	UJ	80	UJ	72	UJ	77	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
4-Methylphenol	UG/KG	8.6	5%	900	0	2	38	77	UJ	280	U	80	U	80	U	72	U	77	U
4-Nitroaniline	UG/KG	0	0%		0	0	38	190	UJ	680	UJ	200	U	190	U	180	U	190	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	38	190	UJ	680	U	200	U	190	U	180	U	190	UJ
Acenaphthene	UG/KG	28	5%	50000	0	2	38	77	UJ	28	J	80	U	80	U	72	U	77	U
Acenaphthylene	UG/KG	21	8%	41000	0	3	38	4.4	J	21	J	80	U	80	U	72	U	77	U
Anthracene	UG/KG	74	16%	50000	0	6	38	4.2	J	74	J	80	U	80	U	72	U	77	U
Benzo(a)anthracene	UG/KG	760	42%	224	1	16	38	45	J	760	J	8.9	J	6.4	J	72	U	77	U
Benzo(a)pyrene	UG/KG	1000	45%	61	3	17	38	50	J	1000	J	10	J	8.5	J	72	U	77	UJ
Benzo(b)fluoranthene	UG/KG	1100	45%	1100	0	17	38	58	J	1100	J	12	J	12	J	72	U	77	U
Benzo(ghi)perylene	UG/KG	820	34%	50000	0	13	38	42	J	820	J	11	J	7.6	J	72	U	77	U
Benzo(k)fluoranthene	UG/KG	1100	39%	1100	0	15	38	42	J	1100	J	14	J	9.9	J	72	U	77	U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	80	U	72	U	77	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	80	U	72	U	77	U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	SEAD-12 TP12-21B SOIL	SEAD-12 TP12-21C SOIL	SEAD-12 TP12-22AA SOIL	SEAD-12 TP12-22BA SOIL	SEAD-12 TP12-22BB SOIL	SEAD-12 TP12-24A SOIL	
									123002	123003	123058	123059	123060	123093	
									3	5.5	0.5	0.5	1.5	0.5	
									3	5.5	0.5	0.5	1.5	0.5	
									9/29/1998	9/29/1998	10/4/1998	10/4/1998	10/4/1998	13-Oct-98	
									SA	SA	SA	SA	SA	SA	
									RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	RI Phase 1	
									Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES								
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	72	U
Bis(2-Ethylhexyl)phthalate	UG/KG	73	24%	50000	0	9	38	77	UJ	280	U	14	J	72	U
Butylbenzylphthalate	UG/KG	6.2	5%	50000	0	2	38	77	UJ	280	U	80	U	72	U
Carbazole	UG/KG	120	13%		0	5	38	77	UJ	120	J	80	UJ	72	UJ
Chrysene	UG/KG	1000	53%	400	1	20	38	55	J	1000	J	14	J	72	U
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	38	77	UJ	280	UJ	80	U	72	U
Di-n-octylphthalate	UG/KG	34	16%	50000	0	6	38	77	U	280	U	80	U	72	U
Dibenz(a,h)anthracene	UG/KG	300	18%	14	4	7	38	12	J	300	J	80	U	72	U
Dibenzofuran	UG/KG	16	5%	6200	0	2	38	77	UJ	16	J	80	U	72	U
Diethyl phthalate	UG/KG	4.3	3%	7100	0	1	38	77	UJ	280	UJ	80	U	72	U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	38	77	UJ	280	UJ	80	U	72	U
Fluoranthene	UG/KG	1900	47%	50000	0	18	38	71	J	1900	J	18	J	72	U
Fluorene	UG/KG	44	8%	50000	0	3	38	77	U	44	J	80	U	72	U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	38	77	U	280	U	80	U	72	U
Hexachlorobutadiene	UG/KG	0	0%		0	0	38	77	UJ	280	UJ	80	UJ	72	UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	38	77	UJ	280	U	80	U	72	U
Hexachloroethane	UG/KG	0	0%		0	0	38	77	UJ	280	UJ	80	U	72	U
Indeno(1,2,3-cd)pyrene	UG/KG	830	34%	3200	0	13	38	36	J	830	J	9.4	J	72	U
Isophorone	UG/KG	0	0%	4400	0	0	38	77	UJ	280	UJ	80	U	72	U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	72	U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	38	77	U	280	U	80	U	72	U
Naphthalene	UG/KG	8.6	3%	13000	0	1	38	77	UJ	280	UJ	80	U	72	U
Nitrobenzene	UG/KG	0	0%	200	0	0	38	77	UJ	280	UJ	80	U	72	U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	38	190	UJ	680	U	200	UJ	180	UJ
Phenanthrene	UG/KG	680	45%	50000	0	17	38	28	J	680	J	11	J	72	U
Phenol	UG/KG	0	0%	30	0	0	38	77	U	280	U	80	U	72	U
Pyrene	UG/KG	1500	47%	50000	0	18	38	90	J	1500	J	18	J	72	U
<b>PESTICIDES/PCBS</b>															
4,4'-DDD	UG/KG	3.2	3%	2900	0	1	38	3.8	U	4.2	U	3.2	J	3.9	U
4,4'-DDE	UG/KG	2.1	3%	2100	0	1	38	3.8	U	4.2	U	4	U	3.9	U
4,4'-DDT	UG/KG	2.6	3%	2100	0	1	38	3.8	U	4.2	U	4	U	3.9	U
Aldrin	UG/KG	0	0%	41	0	0	38	2	U	2.2	U	2	U	1.9	U
Alpha-BHC	UG/KG	0	0%	110	0	0	38	2	U	2.2	U	2	U	1.9	U
Alpha-Chlordane	UG/KG	7.5	3%		0	1	38	2	U	2.2	U	2	U	1.9	U
Aroclor-1016	UG/KG	0	0%	10000	0	0	38	38	U	42	U	40	U	39	U
Aroclor-1221	UG/KG	0	0%	10000	0	0	38	78	U	86	U	81	U	79	U



TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-21B SOIL		SEAD-12 TP12-21C SOIL		SEAD-12 TP12-22AA SOIL		SEAD-12 TP12-22BA SOIL		SEAD-12 TP12-22BB SOIL		SEAD-12 TP12-24A SOIL		
								9/29/1998 SA	RI Phase 1 Step 1	9/29/1998 SA	RI Phase 1 Step 1	10/4/1998 SA	RI Phase 1 Step 1	10/4/1998 SA	RI Phase 1 Step 1	10/4/1998 SA	RI Phase 1 Step 1	13-Oct-98 SA	RI Phase 1 Step 1	
PARAMETER																				
Aroclor-1232	UG/KG	0	0%	10000	0	0	38	38 U	42 U	40 U	39 U	36 U	38 U							
Aroclor-1242	UG/KG	0	0%	10000	0	0	38	38 U	42 U	40 U	39 U	36 U	38 U							
Aroclor-1248	UG/KG	0	0%	10000	0	0	38	38 U	42 U	40 U	39 U	36 U	38 U							
Aroclor-1254	UG/KG	0	0%	10000	0	0	38	38 U	42 U	40 U	39 U	36 U	38 U							
Aroclor-1260	UG/KG	0	0%	10000	0	0	38	38 U	42 U	40 U	39 U	36 U	38 U							
Beta-BHC	UG/KG	0	0%	200	0	0	38	2 U	2.2 U	2 U	2 U	1.9 U	2 U							
Delta-BHC	UG/KG	0	0%	300	0	0	38	2 U	2.2 U	2 U	2 U	1.9 U	2 U							
Dieldrin	UG/KG	0	0%	44	0	0	38	3.8 U	4.2 U	4 U	3.9 U	3.6 U	3.8 U							
Endosulfan I	UG/KG	0	0%	900	0	0	38	2 U	2.2 U	2 U	2 U	1.9 U	2 U							
Endosulfan II	UG/KG	0	0%	900	0	0	38	3.8 U	4.2 U	4 U	3.9 U	3.6 U	3.8 U							
Endosulfan sulfate	UG/KG	3	3%	1000	0	1	38	3.8 U	3 J	4 U	3.9 U	3.6 U	3.8 U							
Endrin	UG/KG	20	3%	100	0	1	38	3.8 U	4.2 U	4 U	3.9 U	3.6 U	3.8 U							
Endrin aldehyde	UG/KG	0	0%		0	0	38	3.8 U	4.2 U	4 U	3.9 U	3.6 U	3.8 U							
Endrin ketone	UG/KG	0	0%		0	0	38	3.8 U	4.2 U	4 U	3.9 U	3.6 U	3.8 U							
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	38	2 U	2.2 U	2 U	2 U	1.9 U	2 U							
Gamma-Chlordane	UG/KG	0	0%	540	0	0	38	2 U	2.2 U	2 U	2 U	1.9 U	2 U							
Heptachlor	UG/KG	0	0%	100	0	0	38	2 U	2.2 U	2 U	2 U	1.9 U	2 U							
Heptachlor epoxide	UG/KG	0	0%	20	0	0	38	2 U	2.2 U	2 U	2 U	1.9 U	2 U							
Methoxychlor	UG/KG	0	0%		0	0	38	20 U	22 U	20 U	20 U	19 U	20 U							
Toxaphene	UG/KG	0	0%		0	0	38	200 U	220 U	200 U	200 U	190 U	200 U							
<b>METALS</b>																				
Aluminum	MG/KG	16700	100%	19520	0	38	38	13200	12100	14800	13200	13100	14400							
Antimony	MG/KG	0	0%	6	0	0	38	1.2 R	1.6 R	1 R	1.4 R	1.2 R	1.2 R							
Arsenic	MG/KG	9.8	100%	8.9	1	38	38	5.5	4.1	3.1	2.8	3.7	3.8							
Barium	MG/KG	186	100%	300	0	38	38	105	73.8	128	135	70.9	91.5							
Beryllium	MG/KG	1.1	97%	1.13	0	37	38	0.29 J	0.46 J	0.76 J	0.09 J	0.59 J	0.64 J							
Cadmium	MG/KG	13.3	8%	2.46	1	3	38	0.06 U	0.08 U	0.05 U	0.07 U	0.06 U	0.06 U							
Calcium	MG/KG	73300	100%	125300	0	38	38	19100	18000	5610 J	3330 J	1550 J	7080 J							
Chromium	MG/KG	26	100%	30	0	38	38	21	18.7	13.1 J	15.9 J	23.4 J	23.4							
Cobalt	MG/KG	19.6	100%	30	0	38	38	15.1	10.2 J	7.8 J	16.6	9.6 J	11.6							
Copper	MG/KG	34	100%	33	3	38	38	29.8	24.7	29.2	12.8	14.7	25.1							
Cyanide	MG/KG	0	0%	0.35	0	0	38	0.59 U	0.66 U	0.62 U	0.64 U	0.56 U	0.59 U							
Iron	MG/KG	53400	100%	37410	3	38	38	30300 J	24200 J	20200	24800	24800	42500 J							
Lead	MG/KG	284	100%	24.4	10	38	38	84	25.4	21.1 J	42 J	10.3 J	13.7							
Magnesium	MG/KG	19200	100%	21700	0	38	38	5220	6110	3510	3160	4290	5100							
Manganese	MG/KG	3200	100%	1100	3	38	38	1230	492	558 J	2240 J	367 J	469							





TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOC_ID MATRIX SAMP_ID DEPTH_TOP DEPTH_BOT SAMP_DATE QC_CODE STUDY_ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-24B SOIL 123094 0.5 0.5 13-Oct-98 SA		SEAD-12 TP12-24C SOIL 123095 1 1 13-Oct-98 SA	
								Ri Phase 1	Step 1	Ri Phase 1	Step 1
PARAMETER	UNIT										
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	38	80 U		78 U	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	38	80 U		78 U	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	38	80 U		78 U	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	38	190 U		190 U	U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	38	80 U		78 U	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	38	80 U		78 U	U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	38	80 U		78 U	U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	38	190 UJ		190 UJ	UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	38	80 U		78 U	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	38	80 U		78 U	U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	38	80 U		78 U	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	38	80 U		78 U	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	38	80 U		78 U	U
2-Methylphenol	UG/KG	0	0%	100	0	0	38	80 U		78 U	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	38	190 U		190 U	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	38	80 U		78 U	U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	38	80 UJ		78 UJ	UJ
3-Nitroaniline	UG/KG	0	0%	500	0	0	38	190 U		190 U	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	38	190 U		190 U	U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	80 U		78 U	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	38	80 U		78 U	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	38	80 U		78 U	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	38	80 U		78 U	U
4-Methylphenol	UG/KG	8.6	5%	900	0	2	38	80 U		78 U	U
4-Nitroaniline	UG/KG	0	0%	0	0	0	38	190 UJ		190 UJ	UJ
4-Nitrophenol	UG/KG	0	0%	100	0	0	38	190 UJ		190 UJ	UJ
Acenaphthene	UG/KG	28	5%	50000	0	2	38	80 U		78 U	U
Acenaphthylene	UG/KG	21	8%	41000	0	3	38	80 U		78 U	U
Anthracene	UG/KG	74	16%	50000	0	6	38	80 U		78 U	U
Benzo(a)anthracene	UG/KG	760	42%	224	1	16	38	9.2 J		9.6 J	J
Benzo(a)pyrene	UG/KG	1000	45%	61	3	17	38	9.4 J		9.2 J	J
Benzo(b)fluoranthene	UG/KG	1100	45%	1100	0	17	38	14 J		15 J	J
Benzo(ghi)perylene	UG/KG	820	34%	50000	0	13	38	80 U		78 U	U
Benzo(k)fluoranthene	UG/KG	1100	39%	1100	0	15	38	13 J		17 J	J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	38	80 U		78 U	U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	38	80 U		78 U	U

TABLE G-17  
 CLASS 3 METALS DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY									SEAD-12		SEAD-12	
LOC_ID									TP12-24B		TP12-24C	
MATRIX									SOIL		SOIL	
SAMP_ID									123094		123095	
DEPTH_TOP									0.5		1	
DEPTH_BOT									0.5		1	
SAMP_DATE									13-Oct-98		13-Oct-98	
QC_CODE									SA		SA	
STUDY_ID									RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES					
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	38			80 U	78 U	
Bis(2-Ethylhexyl)phthalate	UG/KG	73	24%	50000	0	9	38			80 U	78 U	
Butylbenzylphthalate	UG/KG	6.2	5%	50000	0	2	38			80 U	78 U	
Carbazole	UG/KG	120	13%		0	5	38			80 U	78 U	
Chrysene	UG/KG	1000	53%	400	1	20	38			15 J	18 J	
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	38			80 U	78 U	
Di-n-octylphthalate	UG/KG	34	16%	50000	0	6	38			80 U	78 U	
Dibenz(a,h)anthracene	UG/KG	300	18%	14	4	7	38			80 U	78 U	
Dibenzofuran	UG/KG	16	5%	6200	0	2	38			80 U	78 U	
Diethyl phthalate	UG/KG	43	3%	7100	0	1	38			80 U	78 U	
Dimethylphthalate	UG/KG	0	0%	2000	0	0	38			80 U	78 U	
Fluoranthene	UG/KG	1900	47%	50000	0	18	38			16 J	26 J	
Fluorene	UG/KG	44	8%	50000	0	3	38			80 U	78 U	
Hexachlorobenzene	UG/KG	0	0%	410	0	0	38			80 U	78 U	
Hexachlorobutadiene	UG/KG	0	0%		0	0	38			80 U	78 U	
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	38			80 U	78 U	
Hexachloroethane	UG/KG	0	0%		0	0	38			80 U	78 U	
Indeno(1,2,3-cd)pyrene	UG/KG	830	34%	3200	0	13	38			80 U	78 U	
Isophorone	UG/KG	0	0%	4400	0	0	38			80 U	78 U	
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	38			80 U	78 U	
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	38			80 U	78 U	
Naphthalene	UG/KG	86	3%	13000	0	1	38			80 U	78 U	
Nitrobenzene	UG/KG	0	0%	200	0	0	38			80 U	78 U	
Pentachlorophenol	UG/KG	0	0%	1000	0	0	38			190 UJ	190 UJ	
Phenanthrene	UG/KG	680	45%	50000	0	17	38			6.3 J	14 J	
Phenol	UG/KG	0	0%	30	0	0	38			80 U	78 U	
Pyrene	UG/KG	1500	47%	50000	0	18	38			14 J	19 J	
<b>PESTICIDES/PCBS</b>												
4,4'-DDD	UG/KG	3.2	3%	2900	0	1	38			4 U	3.9 U	
4,4'-DDE	UG/KG	2.1	3%	2100	0	1	38			4 U	3.9 U	
4,4'-DDT	UG/KG	2.6	3%	2100	0	1	38			4 U	2.6 J	
Aldrin	UG/KG	0	0%	41	0	0	38			2 U	2 U	
Alpha-BHC	UG/KG	0	0%	110	0	0	38			2 U	2 U	
Alpha-Chlordane	UG/KG	7.5	3%		0	1	38			2 U	2 U	
Aroclor-1016	UG/KG	0	0%	10000	0	0	38			40 U	39 U	
Aroclor-1221	UG/KG	0	0%	10000	0	0	38			81 U	80 U	









TABLE G-18  
WASTE WATER TREATMENT PLANT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	RI Phase 1
LOC_ID								SS12-64	SS12-64	72117
MATRIX								SOIL	SOIL	SS12-65
SAMP_ID								123171	123170	123107
DEPTH_TOP								0	0	SA
DEPTH_BOT								0.5	0.5	0
SAMP_DATE								20-Oct-98	20-Oct-98	0.2
QC_CODE								DU	SA	SOIL
STUDY_ID								RI Phase 1 Step 1	RI Phase 1 Step 1	7-Jan-99
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES			
<b>VOLATILE ORGANICS</b>										
1,1,1-Trichloroethane	UG/KG	0	0%	800	0	0	3	14 U	17 U	26 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	600	0	0	3	14 U	17 U	26 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
1,1-Dichloroethane	UG/KG	0	0%	200	0	0	3	14 U	17 U	26 U
1,1-Dichloroethene	UG/KG	0	0%	400	0	0	3	14 U	17 U	26 U
1,2-Dichloroethane	UG/KG	0	0%	100	0	0	3	14 U	17 U	26 U
1,2-Dichloroethene (total)	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Acetone	UG/KG	110	33%	200	0	1	3	14 U	17 U	110
Benzene	UG/KG	0	0%	60	0	0	3	14 U	17 U	26 U
Bromodichloromethane	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Bromoform	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Carbon disulfide	UG/KG	0	0%	2700	0	0	3	14 U	17 U	26 U
Carbon tetrachloride	UG/KG	0	0%	600	0	0	3	14 U	17 U	26 U
Chlorobenzene	UG/KG	0	0%	1700	0	0	3	14 U	17 U	26 U
Chlorodibromomethane	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Chloroethane	UG/KG	0	0%	1900	0	0	3	14 U	17 U	26 U
Chloroform	UG/KG	0	0%	300	0	0	3	14 U	17 U	26 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Ethyl benzene	UG/KG	0	0%	5500	0	0	3	14 U	17 U	26 U
Methyl bromide	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Methyl butyl ketone	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Methyl chloride	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Methyl ethyl ketone	UG/KG	0	0%	300	0	0	3	14 U	17 U	26 U
Methyl isobutyl ketone	UG/KG	0	0%	1000	0	0	3	14 U	17 U	26 U
Methylene chloride	UG/KG	0	0%	100	0	0	3	14 U	17 U	26 U
Styrene	UG/KG	0	0%		0	0	3	14 U	17 U	26 U
Tetrachloroethene	UG/KG	0	0%	1400	0	0	3	14 U	17 U	26 U
Toluene	UG/KG	0	0%	1500	0	0	3	14 U	17 U	26 U
Total Xylenes	UG/KG	0	0%	1200	0	0	3	14 U	17 U	26 U

TABLE G-18  
WASTE WATER TREATMENT PLANT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12		SEAD-12		RI Phase 1	
LOC_ID								SS12-64		SS12-64		72117	
MATRIX								SOIL		SOIL		SS12-65	
SAMP_ID								123171		123170		123107	
DEPTH_TOP								0		0		SA	
DEPTH_BOT								0.5		0.5		0	
SAMP_DATE								20-Oct-98		20-Oct-98		0.2	
QC_CODE								DU		SA		SOIL	
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	7-Jan-99	
PARAMETER	UNIT	MAXIMUM	OF	TAGM	ABOVE	OF	OF						
			DETECTION	4046	TAGM	DETECTS	ANALYSES						
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	3	14	U	17	U	26	U
Trichloroethene	UG/KG	0	0%	700	0	0	3	14	U	17	U	26	U
Vinyl chloride	UG/KG	0	0%	200	0	0	3	14	U	17	U	26	U
<b>SEMI VOLATILE ORGANICS</b>													
1,2,4-Trichlorobenzene	UG/KG	0	0%	3400	0	0	3	100	U	110	U	150	U
1,2-Dichlorobenzene	UG/KG	0	0%	7900	0	0	3	100	U	110	U	150	U
1,3-Dichlorobenzene	UG/KG	0	0%	1600	0	0	3	100	U	110	U	150	U
1,4-Dichlorobenzene	UG/KG	0	0%	8500	0	0	3	100	U	110	U	150	U
2,4,5-Trichlorophenol	UG/KG	0	0%	100	0	0	3	250	U	270	U	370	U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	3	100	U	110	U	150	U
2,4-Dichlorophenol	UG/KG	0	0%	400	0	0	3	100	U	110	U	150	U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	3	100	UJ	110	UJ	150	U
2,4-Dinitrophenol	UG/KG	0	0%	200	0	0	3	250	UJ	270	UJ	370	U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	3	100	U	110	U	150	U
2,6-Dinitrotoluene	UG/KG	0	0%	1000	0	0	3	100	U	110	U	150	U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	3	100	U	110	U	150	U
2-Chlorophenol	UG/KG	0	0%	800	0	0	3	100	U	110	U	150	U
2-Methylnaphthalene	UG/KG	0	0%	36400	0	0	3	100	U	110	U	150	U
2-Methylphenol	UG/KG	0	0%	100	0	0	3	100	U	110	U	150	U
2-Nitroaniline	UG/KG	0	0%	430	0	0	3	250	U	270	U	370	U
2-Nitrophenol	UG/KG	0	0%	330	0	0	3	100	U	110	U	150	U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	3	100	U	110	UJ	150	U
3-Nitroaniline	UG/KG	0	0%	500	0	0	3	250	UJ	270	UJ	370	U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	3	250	U	270	U	370	U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	3	100	U	110	U	150	U
4-Chloro-3-methylphenol	UG/KG	0	0%	240	0	0	3	100	U	110	U	150	U
4-Chloroaniline	UG/KG	0	0%	220	0	0	3	100	U	110	U	150	U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	3	100	U	110	U	150	U
4-Methylphenol	UG/KG	0	0%	900	0	0	3	100	U	110	U	150	U
4-Nitroaniline	UG/KG	0	0%	0	0	0	3	250	UJ	270	UJ	370	U
4-Nitrophenol	UG/KG	0	0%	100	0	0	3	250	U	270	U	370	U

TABLE G-18  
WASTE WATER TREATMENT PLANT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	RI Phase 1
LOC_ID								SS12-64	SS12-64	72117
MATRIX								SOIL	SOIL	SS12-65
SAMP_ID								123171	123170	123107
DEPTH_TOP								0	0	SA
DEPTH_BOT								0.5	0.5	0
SAMP_DATE								20-Oct-98	20-Oct-98	0.2
QC_CODE								DU	SA	SOIL
STUDY_ID								RI Phase 1	Step 1	7-Jan-99
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES			
Acenaphthene	UG/KG	0	0%	50000	0	0	3	100 U	110 U	150 U
Acenaphthylene	UG/KG	0	0%	41000	0	0	3	100 U	110 U	150 U
Anthracene	UG/KG	0	0%	50000	0	0	3	100 U	110 U	150 U
Benzo(a)anthracene	UG/KG	14	67%	224	0	2	3	7.8 J	14 J	150 U
Benzo(a)pyrene	UG/KG	16	100%	61	0	3	3	9.3 J	16 J	14 J
Benzo(b)fluoranthene	UG/KG	21	67%	1100	0	2	3	12 J	21 J	25 UJ
Benzo(ghi)perylene	UG/KG	0	0%	50000	0	0	3	100 U	110 UJ	150 U
Benzo(k)fluoranthene	UG/KG	15	67%	1100	0	2	3	11 J	15 J	150 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	3	100 U	110 U	150 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	3	100 U	110 U	150 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	3	100 U	110 U	150 U
Bis(2-Ethylhexyl)phthalate	UG/KG	37	33%	50000	0	1	3	100 U	110 UJ	37 J
Butylbenzylphthalate	UG/KG	130	33%	50000	0	1	3	100 U	130 J	150 U
Carbazole	UG/KG	0	0%		0	0	3	100 U	110 U	150 U
Chrysene	UG/KG	20	67%	400	0	2	3	13 J	20 J	150 U
Di-n-butylphthalate	UG/KG	0	0%	8100	0	0	3	1400 UJ	770 UJ	150 U
Di-n-octylphthalate	UG/KG	12	33%	50000	0	1	3	100 U	110 UJ	12 J
Dibenz(a,h)anthracene	UG/KG	110	33%	14	1	1	3	100 U	110 J	150 U
Dibenzofuran	UG/KG	0	0%	6200	0	0	3	100 U	110 U	150 U
Diethyl phthalate	UG/KG	0	0%	7100	0	0	3	100 U	110 U	150 U
Dimethylphthalate	UG/KG	0	0%	2000	0	0	3	100 U	110 U	150 U
Fluoranthene	UG/KG	25	100%	50000	0	3	3	18 J	25 J	22 J
Fluorene	UG/KG	0	0%	50000	0	0	3	100 U	110 U	150 U
Hexachlorobenzene	UG/KG	0	0%	410	0	0	3	100 U	110 U	150 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	3	100 U	110 U	150 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	3	100 U	110 U	150 U
Hexachloroethane	UG/KG	0	0%		0	0	3	100 U	110 U	150 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	3200	0	0	3	100 U	110 UJ	150 U
Isophorone	UG/KG	0	0%	4400	0	0	3	100 U	110 U	150 U
N-Nitrosodiphenylamine	UG/KG	49	33%		0	1	3	49 J	110 U	150 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	3	100 U	110 U	150 U

TABLE G-18  
WASTE WATER TREATMENT PLANT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	RI Phase 1
LOC_ID								SS12-64	SS12-64	72117
MATRIX								SOIL	SOIL	SS12-65
SAMP_ID								123171	123170	123107
DEPTH_TOP								0	0	SA
DEPTH_BOT								0.5	0.5	0
SAMP_DATE								20-Oct-98	20-Oct-98	0.2
QC_CODE								DU	SA	SOIL
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	7-Jan-99
			OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	
PARAMETER	UNIT	MAXIMUM	DETECTION	4046	TAGM	DETECTS	ANALYSES			
Naphthalene	UG/KG	0	0%	13000	0	0	3	100 U	110 U	150 U
Nitrobenzene	UG/KG	0	0%	200	0	0	3	100 U	110 U	150 U
Pentachlorophenol	UG/KG	0	0%	1000	0	0	3	250 UJ	270 UJ	370 U
Phenanthrene	UG/KG	17	100%	50000	0	3	3	9.9 J	17 J	16 J
Phenol	UG/KG	0	0%	30	0	0	3	100 U	110 U	150 U
Pyrene	UG/KG	30	100%	50000	0	3	3	18 J	30 J	20 J
<b>PESTICIDES/PCBS</b>										
4,4'-DDD	UG/KG	0	0%	2900	0	0	3	5.2 U	5.5 U	7.7 U
4,4'-DDE	UG/KG	0	0%	2100	0	0	3	5.2 U	5.5 U	7.7 U
4,4'-DDT	UG/KG	0	0%	2100	0	0	3	5.2 U	5.5 U	7.7 U
Aldrin	UG/KG	0	0%	41	0	0	3	2.7 U	2.8 U	4 U
Alpha-BHC	UG/KG	0	0%	110	0	0	3	2.7 U	2.8 U	4 U
Alpha-Chlordane	UG/KG	0	0%		0	0	3	2.7 U	2.8 U	4 U
Aroclor-1016	UG/KG	0	0%	10000	0	0	3	52 U	55 U	77 U
Aroclor-1221	UG/KG	0	0%	10000	0	0	3	110 U	110 U	160 U
Aroclor-1232	UG/KG	0	0%	10000	0	0	3	52 U	55 U	77 U
Aroclor-1242	UG/KG	0	0%	10000	0	0	3	52 U	55 U	77 U
Aroclor-1248	UG/KG	0	0%	10000	0	0	3	52 U	55 U	77 U
Aroclor-1254	UG/KG	0	0%	10000	0	0	3	52 U	55 U	77 U
Aroclor-1260	UG/KG	0	0%	10000	0	0	3	52 U	55 U	77 U
Beta-BHC	UG/KG	0	0%	200	0	0	3	2.7 U	2.8 U	4 U
Delta-BHC	UG/KG	0	0%	300	0	0	3	2.7 U	2.8 U	4 U
Dieldrin	UG/KG	0	0%	44	0	0	3	5.2 U	5.5 U	7.7 U
Endosulfan I	UG/KG	0	0%	900	0	0	3	2.7 U	2.8 U	4 U
Endosulfan II	UG/KG	0	0%	900	0	0	3	5.2 U	5.5 U	7.7 U
Endosulfan sulfate	UG/KG	0	0%	1000	0	0	3	5.2 U	5.5 U	7.7 U
Endrin	UG/KG	0	0%	100	0	0	3	5.2 U	5.5 U	7.7 U
Endrin aldehyde	UG/KG	0	0%		0	0	3	5.2 U	5.5 U	7.7 U
Endrin ketone	UG/KG	0	0%		0	0	3	5.2 U	5.5 U	7.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	60	0	0	3	2.7 U	2.8 U	4 U
Gamma-Chlordane	UG/KG	0	0%	540	0	0	3	2.7 U	2.8 U	4 U

TABLE G-18  
WASTE WATER TREATMENT PLANT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOC_ID	MATRIX	SAMP_ID	DEPTH_TOP	DEPTH_BOT	SAMP_DATE	QC_CODE	STUDY_ID	FREQUENCY OF DETECTION	NYSDEC TAGM 4046	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	SEAD-12 SS12-64 SOIL 123171	SEAD-12 SS12-64 SOIL 123170	RI Phase 1 72117 SS12-65 123107 SA	
PARAMETER	UNIT	MAXIMUM												RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	7-Jan-99	
Heptachlor	UG/KG	0	0%	100	0	0	0	3	2.7	U				2.8	U		4	U
Heptachlor epoxide	UG/KG	0	0%	20	0	0	0	3	2.7	U				2.8	U		4	U
Methoxychlor	UG/KG	0	0%	0	0	0	0	3	27	U				28	U		40	U
Toxaphene	UG/KG	0	0%	0	0	0	0	3	270	U				280	U		400	U
<b>METALS</b>																		
Aluminum	MG/KG	13600	100%	19520	0	3	3	3	13100					11600			13600	
Antimony	MG/KG	0	0%	6	0	0	0	3	1.7	R				1.9	R		1.1	U
Arsenic	MG/KG	6.4	100%	8.9	0	3	3	3	4.6					3.5			6.4	
Barium	MG/KG	114	100%	300	0	3	3	3	114					114			55.1	J
Beryllium	MG/KG	0.54	100%	1.13	0	3	3	3	0.54	J				0.4	J		0.54	J
Cadmium	MG/KG	0	0%	2.46	0	0	0	3	0.51	U				0.09	U		0.07	U
Calcium	MG/KG	29000	100%	125300	0	3	3	3	25200					29000			21900	
Chromium	MG/KG	25	100%	30	0	3	3	3	23.2	J				19.3			25	
Cobalt	MG/KG	13.6	100%	30	0	3	3	3	13.6	J				10.7	J		13.4	J
Copper	MG/KG	60.3	100%	33	3	3	3	3									40.3	
Cyanide	MG/KG	0	0%	0.35	0	0	0	3	0.81	U				0.87	U		1.2	U
Iron	MG/KG	32100	100%	37410	0	3	3	3	27700	J				23300			32100	
Lead	MG/KG	34.4	100%	24.4	3	3	3	3	29.5	J				34.4	J		24.4	J
Magnesium	MG/KG	7320	100%	21700	0	3	3	3	5750					5910			7320	
Manganese	MG/KG	1240	100%	1100	1	3	3	3	1240					658			331	
Mercury	MG/KG	0.48	100%	0.1	3	3	3	3	0.48					0.34	J		0.15	J
Nickel	MG/KG	40.5	67%	50	0	2	3	3	29.7	UJ				33.5			40.5	
Potassium	MG/KG	1470	100%	2623	0	3	3	3	1400	J				1090	J		1470	J
Selenium	MG/KG	1.8	67%	2	0	2	3	3	1.6					1.8	J		1.3	U
Silver	MG/KG	0	0%	0.8	0	0	0	3	0.34	U				0.36	U		0.35	U
Sodium	MG/KG	243	100%	188	1	3	3	3	85.4	J				90.8	J		243	J
Thallium	MG/KG	1.5	33%	0.855	1	1	3	3	1.5	J				1.6	U		1.3	U
Vanadium	MG/KG	22.1	100%	150	0	3	3	3	22.1					17.8			21.1	
Zinc	MG/KG	246	100%	115	3	3	3	3	206	J				186			246	
<b>WET CHEMISTRY</b>																		
Nitrate/Nitrite	%WW																	

TABLE G-18  
WASTE WATER TREATMENT PLANT METALS DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY								SEAD-12	SEAD-12	RI Phase 1
LOC_ID								SS12-64	SS12-64	72117
MATRIX								SOIL	SOIL	SS12-65
SAMP_ID								123171	123170	123107
DEPTH_TOP								0	0	SA
DEPTH_BOT								0.5	0.5	0
SAMP_DATE								20-Oct-98	20-Oct-98	0.2
QC_CODE								DU	SA	SOIL
STUDY_ID			FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	RI Phase 1	RI Phase 1	7-Jan-99
		MAXIMUM	OF	TAGM	ABOVE	OF	OF	Step 1	Step 1	
PARAMETER	UNIT		DETECTION	4046	TAGM	DETECTS	ANALYSES			
Nitrate/Nitrite	MG/KG									
pH	SU									
TOC-Soil 9060	MG/KG									
Percent Solids	%W/W									
Percent Solids	MG/KG									
Cation exchange capacity	meq/100g									



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TABLE G-19  
 BACKGROUND RADIOLOGICAL DATA-SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-1		MW12-1		MW12-1		MW12-2	
MATRIX						SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						12507		12506		12508		12512	
DEPTH TO TOP OF SAMPLE						0		0.2		4		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		2		6		0.2	
SAMPLE DATE						05-Nov-97		05-Nov-97		05-Nov-97		06-Nov-97	
QC CODE						SA		SA		SA		SA	
STUDY ID						RI Phase 1		RI Phase 1		RI Phase 1		RI Phase 1	
						Step 1		Step 1		Step 1		Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N	
Bismuth-214	pCi/g	2.6	77%	27	35	1.3 UJ		1.2 J	+/-0.3	1.4 J	+/-0.3	1.1 J	+/-0.4
Cesium-137	pCi/g	0.7	34%	12	35	0.6	+/-0.2	0.2 U		0.2 U		0.7	+/-0.2
Cobalt-57	pCi/g	0.1	14%	5	35	0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.4	17%	6	35	0.2 U		0.2 U		0.3 U		0.4 U	
Lead-210	pCi/g	4.3	14%	5	35	23.2 U		21.6 U		1.2 U		25.9 U	
Lead-211	pCi/g	10	11%	4	35	13.8 U		4.5 U		2 U		11.6 U	
Lead-214	pCi/g	2.5	94%	33	35	1.3	+/-0.3	1.2	+/-0.2	1.2	+/-0.3	1.3	+/-0.2
Moisture (@ 104 deg. C)	%	38.2	100%	35	35	25.2		16.9		9.9		29.3	
Plutonium-239/240	pCi/g	0.2	23%	8	35	0.2 J	+/-0.3	0.2	+/-0.2	0.1	+/-0.1	0.3 U	+/-0.1
Promethium-147	pCi/g	17.8	34%	10	29	14.4 U	+/-5.1	13.3 U	+/-5.1	9.6 U	+/-5	10.3 U	+/-5
Radium-223	pCi/g	0.7	3%	1	35	0.3 U		0.4 U		0.4 U		0.4 U	
Radium-226	pCi/g	2.6	77%	27	35	1.3 UJ		1.2 J	+/-0.3	1.4 J	+/-0.3	1.1 J	+/-0.4
Radium-228	pCi/g	3.5	97%	34	35	1.8 J	+/-0.4	2 J	+/-0.5	2.1 J	+/-0.4	1.7 J	+/-0.4
Thorium-227	pCi/g	0.4	28%	8	29	0.6 U	+/-0.1	0.3 UJ	+/-0.1	0.4 UJ	+/-0.1	0.1 J	+/-0.2
Thorium-230	pCi/g	2.7	26%	9	35	1.8 U	+/-0.9	1.7 UJ	+/-0.8	1.8 UJ	+/-0.9	2.1 UJ	+/-1
Thorium-232	pCi/g	2	97%	34	35	1.3	+/-0.8	0.9 J	+/-0.5	1.1 J	+/-0.6	1.2 J	+/-0.7
Tritium	pCi/g	60.4	17%	6	35	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1
Uranium-233/234	pCi/g	1.9	49%	17	35	0.6 UJ	+/-0.3	1.1 UJ	+/-0.4	1.1 UJ	+/-0.4	1.6 UJ	+/-0.4
Uranium-235	pCi/g	0.4	54%	19	35	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.4	77%	27	35	0.7	+/-0.3	0.6 J	+/-0.3	1	+/-0.3	0.8	+/-0.3

TABLE G-19  
 BACKGROUND RADIOLOGICAL DATA-SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-2 SOIL		SEAD-12 MW12-3 SOIL		SEAD-12 MW12-3 SOIL		SEAD-12 MW12-3 SOIL	
						12513 2 4 06-Nov-97 SA	RI Phase 1 Step 1	12509 0 0.2 06-Nov-97 SA	RI Phase 1 Step 1	12510 0.2 2 06-Nov-97 SA	RI Phase 1 Step 1	12511 6 8 06-Nov-97 SA	RI Phase 1 Step 1
PARAMETER						N		N		N		N	
Bismuth-214	pCi/g	2.6	77%	27	35	1.6 UJ		1.4 J	+/-0.4	1.5 J	+/-0.4	1.5 J	+/-0.4
Cesium-137	pCi/g	0.7	34%	12	35	0.2 U		0.9 U		0.1 U		0.1 U	
Cobalt-57	pCi/g	0.1	14%	5	35	0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.4	17%	6	35	0.4 U		0.1 U		0.3 U		0.5 U	
Lead-210	pCi/g	4.3	14%	5	35	3.1 U		2.3 U		14.7 U		4.1 U	
Lead-211	pCi/g	10	11%	4	35	1.4 U		6.3 U		4.1 U		5.3 U	
Lead-214	pCi/g	2.5	94%	33	35	1.8	+/-0.4	1.3	+/-0.3	1.5	+/-0.3	1.1	+/-0.3
Moisture (@ 104 deg. C)	%	38.2	100%	35	35	13.1		22.2		16.9		9.4	
Plutonium-239/240	pCi/g	0.2	23%	8	35	0.3 UJ	+/-0.1	0.2 J	+/-0.2	0.3 UJ	+/-0.1	0.2	+/-0.2
Promethium-147	pCi/g	17.8	34%	10	29	5.1 U	+/-5	8.3 U	+/-5	5.6 U	+/-5	6.5 U	+/-5
Radium-223	pCi/g	0.7	3%	1	35	0.4 U		0.5 U		0.4 U		0.4 U	
Radium-226	pCi/g	2.6	77%	27	35	1.6 UJ		1.4 J	+/-0.4	1.5 J	+/-0.4	1.5 J	+/-0.4
Radium-228	pCi/g	3.5	97%	34	35	3.5 J	+/-0.6	1.4 J	+/-0.5	2.1 J	+/-0.5	1.7 J	+/-0.4
Thorium-227	pCi/g	0.4	28%	8	29	0.1	+/-0.2	0.1	+/-0.1	0.2 U	+/-0.1	0.2	+/-0.2
Thorium-230	pCi/g	2.7	26%	9	35	1 U	+/-0.6	1.5 U	+/-0.7	2.9 U	+/-1.1	1.1 U	+/-0.6
Thorium-232	pCi/g	2	97%	34	35	0.9	+/-0.5	1.1	+/-0.6	1.2	+/-0.6	0.8	+/-0.5
Tritium	pCi/g	60.4	17%	6	35	0.1 U	+/-0.1	0.4 UJ	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-233/234	pCi/g	1.9	49%	17	35	0.7 UJ	+/-0.3	0.7 UJ	+/-0.3	0.5 UJ	+/-0.2	1 UJ	+/-0.3
Uranium-235	pCi/g	0.4	54%	19	35	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.4	77%	27	35	0.7	+/-0.2	0.6 U	+/-0.2	0.6 U	+/-0.2	0.7	+/-0.3

TABLE G-19  
 BACKGROUND RADIOLOGICAL DATA-SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12											
LOCATION ID		MW12-4			MW12-4			MW12-4			MW12-5		
MATRIX		SOIL											
SAMPLE ID		12505			12501			12502			12504		
DEPTH TO TOP OF SAMPLE		0			4			6			0		
DEPTH TO BOTTOM OF SAMPLE		0.2			5.4			8			0.2		
SAMPLE DATE		05-Nov-97			04-Nov-97			04-Nov-97			05-Nov-97		
QC CODE		SA											
STUDY ID		RI Phase 1			Step 1			RI Phase 1			Step 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N	
Bismuth-214	pCi/g	2.6	77%	27	35	1.9 J	+/-0.4	1 J	+/-0.3	1 J	+/-0.3	1.5 J	+/-0.2
Cesium-137	pCi/g	0.7	34%	12	35	0.7	+/-0.2	0.1 U		0.3 U		0.9 U	
Cobalt-57	pCi/g	0.1	14%	5	35	0.2 U		0.1 U		0.1 U		0.2 U	
Cobalt-60	pCi/g	0.4	17%	6	35	0.3 U		0.1 U		0.2 U		0.1 U	
Lead-210	pCi/g	4.3	14%	5	35	1.3 U		17 U		1.2 U		3.9 U	
Lead-211	pCi/g	10	11%	4	35	9.7 U		0.8 U		2.2 U		10.7 U	
Lead-214	pCi/g	2.5	94%	33	35	1.1	+/-0.3	1	+/-0.2	1.3	+/-0.3	1.4	+/-0.4
Moisture (@ 104 deg. C)	%	38.2	100%	35	35	17.6		10.9		9.2		18.7	
Plutonium-239/240	pCi/g	0.2	23%	8	35	0.2	+/-0.1	0.1	+/-0.1	0.1 J	+/-0.1	0.3 UJ	+/-0.1
Promethium-147	pCi/g	17.8	34%	10	29	7.9 U	+/-5	3.2	+/-3.7	2.1	+/-3.7	8.9 U	+/-5
Radium-223	pCi/g	0.7	3%	1	35	0.6 U		0.3 U		0.3 U		0.6 U	
Radium-226	pCi/g	2.6	77%	27	35	1.9 J	+/-0.4	1 J	+/-0.3	1 J	+/-0.3	1.5 J	+/-0.2
Radium-228	pCi/g	3.5	97%	34	35	1.5 J	+/-0.4	1.5 J	+/-0.4	1 J	+/-0.4	1.6 J	+/-0.4
Thorium-227	pCi/g	0.4	28%	8	29	0.3 J	+/-0.3	0.5 UJ	+/-0.2	0.1	+/-0.3	0.3 U	+/-0.1
Thorium-230	pCi/g	2.7	26%	9	35	2.7 J	+/-1.3	1.8 UJ	+/-0.9	0.9 U	+/-0.5	1.5 U	+/-0.7
Thorium-232	pCi/g	2	97%	34	35	0.9 UJ	+/-0.6	2 J	+/-0.9	0.9	+/-0.5	1.2	+/-0.6
Tritium	pCi/g	60.4	17%	6	35	0.5 J	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.5 J	+/-0.1
Uranium-233/234	pCi/g	1.9	49%	17	35	0.9 UJ	+/-0.3	0.9 UJ	+/-0.3	1 UJ	+/-0.4	0.6 UJ	+/-0.2
Uranium-235	pCi/g	0.4	54%	19	35	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.4	77%	27	35	0.8	+/-0.3	0.6	+/-0.2	0.5 U	+/-0.2	0.9	+/-0.3

TABLE G-19  
 BACKGROUND RADIOLOGICAL DATA-SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID						SEAD-12 MW12-5 SOIL 12500 2 3.5 04-Nov-97 SA		SEAD-12 MW12-5 SOIL 12503 8 9.7 04-Nov-97 SA		SEAD-12 MW12-6 SOIL 123190 0 0.2 30-Oct-98 SA		SEAD-12 MW12-6 SOIL 123191 4 6 30-Oct-98 SA			
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	
Bismuth-214	pCi/g	2.6	77%	27	35		1.2 J		+/-0.3	1.1 J		+/-0.4	1.7		+/-0.4
Cesium-137	pCi/g	0.7	34%	12	35		0.1 U			0.1 U			0.6		+/-0.2
Cobalt-57	pCi/g	0.1	14%	5	35		0.1		+/-0.1	0.1 U			0.1 U		+/-0.1
Cobalt-60	pCi/g	0.4	17%	6	35		0.2 U			0.1 U			0.1		+/-0.1
Lead-210	pCi/g	4.3	14%	5	35		3.7 U			15.6 U			4.3 J		+/-2.4
Lead-211	pCi/g	10	11%	4	35		1.5 U			1.3 U			1.8 U		1.5 UJ
Lead-214	pCi/g	2.5	94%	33	35		1.5		+/-0.4	1			1.3		+/-0.3
Moisture (@ 104 deg. C)	%	38.2	100%	35	35		9.1			8.9			24.7		10.5
Plutonium-239/240	pCi/g	0.2	23%	8	35		0.2 U		+/-0.1	0.3 U			0.2 U		+/-0.1
Promethium-147	pCi/g	17.8	34%	10	29		10		+/-3.9	2.1					+/-3.7
Radium-223	pCi/g	0.7	3%	1	35		0.4 U			0.3 U			0.4 U		0.4 U
Radium-226	pCi/g	2.6	77%	27	35		1.2 J		+/-0.3	1.1 J			1.7		+/-0.4
Radium-228	pCi/g	3.5	97%	34	35		1.8 J		+/-0.4	1.1 J			1.2 J		+/-0.4
Thorium-227	pCi/g	0.4	28%	8	29		0.4 J		+/-0.4	0.3 J					+/-0.5
Thorium-230	pCi/g	2.7	26%	9	35		1.9 UJ		+/-0.9	1.7 UJ			1 J		+/-1.1
Thorium-232	pCi/g	2	97%	34	35		1.4 J		+/-0.7	0.8 J			1.1		+/-0.5
Tritium	pCi/g	60.4	17%	6	35		0.1 UJ		+/-0.1	0.1 UJ			14.2 J		+/-0.2
Uranium-233/234	pCi/g	1.9	49%	17	35		0.7 UJ		+/-0.3	1 UJ			1		+/-0.3
Uranium-235	pCi/g	0.4	54%	19	35		0.2 U		+/-0.1	0.1 U			0.1		+/-0.1
Uranium-238	pCi/g	1.4	77%	27	35		0.7		+/-0.3	0.9			1.2		+/-0.3





TABLE G-19  
 BACKGROUND RADIOLOGICAL DATA-SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX		SEAD-12 SS12-13 SOIL		SEAD-12 SS12-13 SOIL		SEAD-12 SS12-14 SOIL		SEAD-12 SS12-2 SOIL					
SAMPLE ID		12212		12543		12541		12535					
DEPTH TO TOP OF SAMPLE		0		0		0		0					
DEPTH TO BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2					
SAMPLE DATE		18-Nov-97		18-Nov-97		18-Nov-97		17-Nov-97					
QC CODE		DU		SA		SA		SA					
STUDY ID		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1					
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N	
Bismuth-214	pCi/g	2.6	77%	27	35	1.3 J	+/-0.3	1.6 UJ		1.5 UJ		1.7 J	+/-0.5
Cesium-137	pCi/g	0.7	34%	12	35	0.5 J	+/-0.1	0.6 UJ		0.3 U		0.2 U	
Cobalt-57	pCi/g	0.1	14%	5	35	0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.4	17%	6	35	0.3 U		0.4 U		0.3 U		0.3 U	
Lead-210	pCi/g	4.3	14%	5	35	21.7 U		4.3 U		3.7	+/-1.3	5 U	
Lead-211	pCi/g	10	11%	4	35	1.2 U		10 U		3.5 U		8.3 U	
Lead-214	pCi/g	2.5	94%	33	35	1.9	+/-0.5	2	+/-0.4	1.5	+/-0.5	2.5	+/-0.5
Moisture (@ 104 deg. C)	%	38.2	100%	35	35	29.8		27.2		28.2		22.4	
Plutonium-239/240	pCi/g	0.2	23%	8	35	0.3 UJ	+/-0.1	0.2 U	+/-0.1	0.3 UJ	+/-0.1	0.2 UJ	+/-0.2
Promethium-147	pCi/g	17.8	34%	10	29	10.5 U	+/-5.2	7.7 U	+/-5.1	9.5 U	+/-5.1	12.8	+/-5.2
Radium-223	pCi/g	0.7	3%	1	35	0.4 U		0.5 U		0.5 U		0.5 U	
Radium-226	pCi/g	2.6	77%	27	35	1.3 J	+/-0.3	1.6 UJ		1.5 UJ		1.7 J	+/-0.5
Radium-228	pCi/g	3.5	97%	34	35	1.4 J	+/-0.4	1.7 J	+/-0.6	2.3 J	+/-0.5	2.1 J	+/-0.7
Thorium-227	pCi/g	0.4	28%	8	29	0.3 U	+/-0.4	0.1 U	+/-0.2	0.6 UJ	+/-0.1	0.2 U	+/-0.2
Thorium-230	pCi/g	2.7	26%	9	35	1 UJ	+/-0.9	1.4 UJ	+/-0.9	0.8 UJ	+/-0.9	1.6 J	+/-0.8
Thorium-232	pCi/g	2	97%	34	35	0.9 J	+/-0.7	1.7 J	+/-0.8	0.5 J	+/-0.6	0.5	+/-0.4
Tritium	pCi/g	60.4	17%	6	35	60.4 J	+/-0.8	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.8 J	+/-0.1
Uranium-233/234	pCi/g	1.9	49%	17	35	0.7	+/-0.3	0.9	+/-0.3	0.7 J	+/-0.4	1.9 J	+/-0.8
Uranium-235	pCi/g	0.4	54%	19	35	0.1	+/-0.1	0.1	+/-0.1	0.4 J	+/-0.3	0.3 J	+/-0.3
Uranium-238	pCi/g	1.4	77%	27	35	0.7	+/-0.3	0.7	+/-0.3	1.2 J	+/-0.5	1.4 J	+/-0.6

TABLE G-19  
 BACKGROUND RADIOLOGICAL DATA-SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 SS12-3 SOIL	SEAD-12 SS12-4 SOIL	SEAD-12 SS12-5 SOIL	SEAD-12 SS12-6 SOIL	
									12537	12547	12538	12539	
									0	0	0	0	
									0.2	0.2	0.2	0.2	
									17-Nov-97	18-Nov-97	17-Nov-97	17-Nov-97	
									SA	SA	SA	SA	
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N							
Bismuth-214	pCi/g	2.6	77%	27	35	2.6 J	+/-0.4		1.3 J	+/-0.3	1.5 UJ	1.8 J	+/-0.5
Cesium-137	pCi/g	0.7	34%	12	35	1.1 U			1 U		0.6 U	0.8 U	
Cobalt-57	pCi/g	0.1	14%	5	35	0.1 U			0.2 U		0.1 U	0.1 U	
Cobalt-60	pCi/g	0.4	17%	6	35	0.1 U			0.2 U		0.1 U	0.1 U	
Lead-210	pCi/g	4.3	14%	5	35	3.9 U			23 U		25.9 U	3.7 U	
Lead-211	pCi/g	10	11%	4	35	12.1 U			1.3 U		4.8 U	2.5 U	
Lead-214	pCi/g	2.5	94%	33	35	2.4	+/-0.6		1.3	+/-0.3	1.2 U	1.4 U	
Moisture (@ 104 deg. C)	%	38.2	100%	35	35	29.7			28.3		22.3	30.1	
Plutonium-239/240	pCi/g	0.2	23%	8	35	0.3 UJ	+/-0.1		0.2 U	+/-0.1	0.2 U	0.2 U	+/-0.1
Promethium-147	pCi/g	17.8	34%	10	29	10.1 U	+/-5.1		15.5	+/-5.2	12	9.5 U	+/-5.1
Radium-223	pCi/g	0.7	3%	1	35	0.7	+/-0.3		0.4 U		0.3 U	0.5 U	
Radium-226	pCi/g	2.6	77%	27	35	2.6 J	+/-0.4		1.3 J	+/-0.3	1.5 UJ	1.8 J	+/-0.5
Radium-228	pCi/g	3.5	97%	34	35	2.2 J	+/-0.6		2 J	+/-0.5	1.2 J	1.4 J	+/-0.4
Thorium-227	pCi/g	0.4	28%	8	29	0.6 U	+/-0.5		0.5 U	+/-0.1	0.1 U	0.1 U	+/-0.1
Thorium-230	pCi/g	2.7	26%	9	35	0.5 UJ	+/-0.7		0.6 UJ	+/-0.6	0.5 UJ	1 UJ	+/-0.6
Thorium-232	pCi/g	2	97%	34	35	0.8	+/-0.6		1.2	+/-0.7	0.7	0.9	+/-0.5
Tritium	pCi/g	60.4	17%	6	35	0.1 UJ	+/-0.1		0.1 UJ	+/-0.1	0.1 UJ	0.1 UJ	+/-0.1
Uranium-233/234	pCi/g	1.9	49%	17	35	0.7 U	+/-0.3		0.7	+/-0.3	0.5 U	0.8	+/-0.3
Uranium-235	pCi/g	0.4	54%	19	35	0.1	+/-0.1		0.2 U	+/-0.1	0.1	0.1	+/-0.1
Uranium-238	pCi/g	1.4	77%	27	35	0.7 U	+/-0.3		1	+/-0.4	0.6 U	0.5 U	+/-0.2



TABLE G-19  
 BACKGROUND RADIOLOGICAL DATA-SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12			SEAD-12		SEAD-12			
LOCATION ID						SS12-7			SS12-8		SS12-9			
MATRIX						SOIL			SOIL		SOIL			
SAMPLE ID						12540			12548		12546			
DEPTH TO TOP OF SAMPLE						0			0		0			
DEPTH TO BOTTOM OF SAMPLE						0.2			0.2		0.2			
SAMPLE DATE						17-Nov-97			18-Nov-97		18-Nov-97			
QC CODE						SA			SA		SA			
STUDY ID			FREQUENCY	NUMBER	NUMBER	RI Phase 1	Step 1		RI Phase 1	Step 1	RI Phase 1	Step 1		
PARAMETER	UNIT	MAXIMU	OF	OF	OF	N			N		N			
Bismuth-214	pCi/g	2.6	77%	27	35	1.4	J	+/-0.5	1.6	J	+/-0.5	2.5	UJ	
Cesium-137	pCi/g	0.7	34%	12	35	0.2	U		0.4	U		1.1	U	
Cobalt-57	pCi/g	0.1	14%	5	35	0.1	U		0.2	U		0.1	U	
Cobalt-60	pCi/g	0.4	17%	6	35	0.1	U		0.1	U		0.4	U	
Lead-210	pCi/g	4.3	14%	5	35	23.1	U		17.9	U		6.3	U	
Lead-211	pCi/g	10	11%	4	35	5.8	U		9.9		+/-3.8	21.5	U	
Lead-214	pCi/g	2.5	94%	33	35	1.6		+/-0.3	1.7		+/-0.4	2.2		+/-0.4
Moisture (@ 104 deg. C)	%	38.2	100%	35	35	28.2			36			32.7		
Plutonium-239/240	pCi/g	0.2	23%	8	35	0.2	U	+/-0.1	0.2	U	+/-0.1	0.2	U	+/-0.1
Promethium-147	pCi/g	17.8	34%	10	29	16.8		+/-5.3	12.4	U	+/-5.2	11.5	U	+/-5.2
Radium-223	pCi/g	0.7	3%	1	35	0.5	U		0.5	U		0.4	U	
Radium-226	pCi/g	2.6	77%	27	35	1.4	J	+/-0.5	1.6	J	+/-0.5	2.5	UJ	
Radium-228	pCi/g	3.5	97%	34	35	1	J	+/-0.4	2.5	J	+/-0.6	2.3	UJ	
Thorium-227	pCi/g	0.4	28%	8	29	0.5	U	+/-0.5	1.1	UJ	+/-0.1	0.7	U	+/-0.1
Thorium-230	pCi/g	2.7	26%	9	35	1.4	UJ	+/-0.9	1.2	UJ	+/-1.3	1.5	UJ	+/-1
Thorium-232	pCi/g	2	97%	34	35	0.8		+/-0.6	1.8	J	+/-1.4	1		+/-0.7
Tritium	pCi/g	60.4	17%	6	35	0.1	UJ	+/-0.1	0.1	UJ	+/-0.1	9.6	J	+/-0.2
Uranium-233/234	pCi/g	1.9	49%	17	35	0.7	J	+/-0.4	0.9		+/-0.4	0.9		+/-0.3
Uranium-235	pCi/g	0.4	54%	19	35	0.3	J	+/-0.3	0.1		+/-0.1	0.2		+/-0.1
Uranium-238	pCi/g	1.4	77%	27	35	1	J	+/-0.5	0.9		+/-0.3	1		+/-0.4

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TABLE G-20  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-19		MW12-20		SS12-122		SS12-123		SS12-123	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123040		123046		123315		123320		123316	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						10/2/1998		10/3/1998		11/13/1998		11/13/1998		11/13/1998	
QC CODE						SA		SA		SA		DU		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Bismuth-214	pCi/g	2.8	100%	30	30	2.3 J	+/-0.6	1.8 J	+/-0.3	1.7	+/-0.4	1.2 J	+/-0.4	2.1 J	
Cesium-137	pCi/g	1.5	83%	25	30	0.2 J	+/-0.2	0.8	+/-0.3	0.5	+/-0.1	0.1 U		0.1 U	
Cobalt-57	pCi/g	0.1	40%	12	30	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.6	47%	14	30	0.2 J	+/-0.1	0.3	+/-0.1	0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	39.9	73%	22	30	39.9 J	+/-28.4	6.2 J	+/-3.9	5.4	+/-2.3	8.3 U		3.4 J	
Lead-211	pCi/g	17.6	33%	10	30	2.7 UJ		17.6 J	+/-4.5	2.5 U		1.3 UJ		3.1 UJ	
Lead-214	pCi/g	3.3	100%	30	30	1.8	+/-0.4	2.7	+/-0.5	1.9	+/-0.4	1.3	+/-0.2	1.7	
Plutonium-239/240	pCi/g	0.1	3%	1	30	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.2 U	
Radium-223	pCi/g	0.8	7%	2	30	0.4 U		0.6 U		0.4 U		0.4 U		0.5 U	
Radium-226	pCi/g	2.8	100%	30	30	2.3 J	+/-0.6	1.8 J	+/-0.3	1.7	+/-0.4	1.2 J	+/-0.4	2.1 J	
Radium-228	pCi/g	3.2	100%	30	30	2.1	+/-0.5	2.8	+/-0.6	1.6	+/-0.3	1.6 J	+/-0.5	3.2 J	
Thorium-230	pCi/g	2.3	13%	4	30	2	+/-0.9	2.3	+/-1	1 UJ	+/-0.5	1.5 UJ	+/-0.7	1 UJ	
Thorium-232	pCi/g	1.7	100%	30	30	0.8	+/-0.5	1.2	+/-0.7	1.2 J	+/-0.5	1.1 J	+/-0.5	0.9 J	
Tritium	pCi/g	23.9	80%	24	30	0.1 U	+/-179	0.1 U	+/-180	3.5	+/-0.1	9.4	+/-0.1	8.4	
Uranium-234	pCi/g	1.2	93%	28	30	0.7	+/-0.5	1	+/-0.6	0.8	+/-0.3	0.7	+/-0.3	0.9	
Uranium-235	pCi/g	0.2	43%	13	30	0.4 UJ	+/-0.1	0.2	+/-0.2	0.1 U	+/-0.1	0.1	+/-0.1	0.1	
Uranium-238	pCi/g	1.1	100%	30	30	1.1 J	+/-0.6	0.6 J	+/-0.4	0.9 J	+/-0.3	1 J	+/-0.3	0.9 J	

TABLE G-20  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID		SEAD-12 SS12-124 SOIL		SEAD-12 SS12-125 SOIL		SEAD-12 SS12-126 SOIL		SEAD-12 SS12-69 SOIL										
MATRIX		123317		123318		123319		123261										
SAMPLE ID		0		0		0		0										
DEPTH TO TOP OF SAMPLE		0.2		0.2		0.2		0.2										
DEPTH TO BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2										
SAMPLE DATE		11/13/1998		11/13/1998		11/13/1998		11/11/1998										
QC CODE		SA		SA		SA		SA										
STUDY ID		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1										
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N												
Bismuth-214	pCi/g	2.8	100%	30	30	+/-0.5												
Cesium-137	pCi/g	1.5	83%	25	30		0.1 U	+/-0.3		1.3	+/-0.3		2.2	+/-0.5		1.3 J	+/-0.3	
Cobalt-57	pCi/g	0.1	40%	12	30		0.1 U			0.6	+/-0.1		0.8	+/-0.2		0.2	+/-0.1	
Cobalt-60	pCi/g	0.6	47%	14	30		0.1 U			0.1 U			0.1 U			0.1	+/-0.1	
Lead-210	pCi/g	39.9	73%	22	30	+/-2.8	25.6 U			0.1 U			0.1 U			0.1	+/-0.1	
Lead-211	pCi/g	17.6	33%	10	30		1.8 U			3	+/-1.2		7.2	+/-3.4		17.2 UJ		
Lead-214	pCi/g	3.3	100%	30	30	+/-0.3	1.3	+/-0.3		3.4 U			3.1 U			0.5 UJ		
Plutonium-239/240	pCi/g	0.1	3%	1	30	+/-0.1	0.2 U	+/-0.1		1.7	+/-0.4		2	+/-0.4		1.1	+/-0.3	
Radium-223	pCi/g	0.8	7%	2	30		0.3 U	+/-0.1		0.2 U	+/-0.1		0.1 U	+/-0.1		0.1 U	+/-0.2	
Radium-226	pCi/g	2.8	100%	30	30	+/-0.5	1	+/-0.3		0.4 U			0.5 U			0.3 UJ		
Radium-228	pCi/g	3.2	100%	30	30	+/-0.6	1.7	+/-0.5		1.3	+/-0.3		2.2	+/-0.5		1.3 J	+/-0.3	
Thorium-230	pCi/g	2.3	13%	4	30	+/-0.5	0.8 U	+/-0.4		1.7	+/-0.5		2.3	+/-0.6		0.7 J	+/-0.2	
Thorium-232	pCi/g	1.7	100%	30	30	+/-0.4	0.9	+/-0.4		1.5 UJ	+/-0.7		1.1 UJ	+/-0.5		1.4 J	+/-0.5	
Tritium	pCi/g	23.9	80%	24	30	+/-0.1	2.8	+/-0.1		1.2 J	+/-0.6		1.7 J	+/-0.7		0.6	+/-0.3	
Uranium-234	pCi/g	1.2	93%	28	30	+/-0.3	0.5 U	+/-0.2		0.1	+/-0.1		0.8	+/-0.1		0.1 UJ	+/-0.1	
Uranium-235	pCi/g	0.2	43%	13	30	+/-0.1	0.1 U	+/-0.1		1	+/-0.4		1	+/-0.3		0.8 J	+/-0.3	
Uranium-238	pCi/g	1.1	100%	30	30	+/-0.3	0.7 J	+/-0.3		0.1	+/-0.1		0.1	+/-0.1		0.1 U	+/-0.1	
										1 J	+/-0.3		0.7 J	+/-0.3		0.7 J	+/-0.2	

TABLE G-20  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID		SEAD-12 SS12-70 SOIL 123262 0 0.2 11/16/1998 SA		SEAD-12 SS12-71 SOIL 123263 0 0.2 11/11/1998 SA		SEAD-12 SS12-72 SOIL 123264 0 0.2 11/11/1998 SA		SEAD-12 SS12-73 SOIL 123265 0 0.2 11/11/1998 SA		SEAD-12 SS12-74 SOIL 123266 0 0.2 11/11/1998 SA					
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Bismuth-214	pCi/g	2.8	100%	30	30	30	1.2 J	+/-0.3	2.1 J	+/-0.5	1.6 J	+/-0.4	1.2 J	+/-0.2	1.3
Cesium-137	pCi/g	1.5	83%	25	30	30	0.2	+/-0.1	1.4	+/-0.3	0.6	+/-0.1	0.5	+/-0.1	0.6
Cobalt-57	pCi/g	0.1	40%	12	30	30	0.1 U		0.1 U		0.1 U		0.1	+/-0.1	0.1
Cobalt-60	pCi/g	0.6	47%	14	30	30	0.1 U		0.3	+/-0.2	0.2	+/-0.1	0.1	+/-0.1	0.1
Lead-210	pCi/g	39.9	73%	22	30	30	1.2 U		5.2 J	+/-2.5	4.2 J	+/-1.7	17.6 J	+/-15.6	7.2
Lead-211	pCi/g	17.6	33%	10	30	30	1.8 U		2 UJ		2.3 UJ		1.2 UJ		2.5
Lead-214	pCi/g	3.3	100%	30	30	30	1.6 J	+/-0.3	1.9	+/-0.5	1.6	+/-0.5	1.1	+/-0.2	1.6
Plutonium-239/240	pCi/g	0.1	3%	1	30	30	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.2 U	+/-0.2	0.1 U	+/-0.1	0.2
Radium-223	pCi/g	0.8	7%	2	30	30	0.3 U		0.5 UJ		0.4 UJ		0.3 UJ		0.5
Radium-226	pCi/g	2.8	100%	30	30	30	1.2 J	+/-0.3	2.1 J	+/-0.5	1.6 J	+/-0.4	1.2 J	+/-0.2	1.3
Radium-228	pCi/g	3.2	100%	30	30	30	1.3	+/-0.4	1.1 J	+/-0.3	2 J	+/-0.5	2.2 J	+/-0.5	1.7
Thorium-230	pCi/g	2.3	13%	4	30	30	1.1 U	+/-0.4	1 UJ	+/-0.5	1.1 UJ	+/-0.4	1.2 UJ	+/-0.5	1.2
Thorium-232	pCi/g	1.7	100%	30	30	30	0.4	+/-0.2	1.1 J	+/-0.5	1	+/-0.4	1 J	+/-0.4	0.7
Tritium	pCi/g	23.9	80%	24	30	30	0.1 U	+/-0.1	0.3 J	+/-0.1	8.8 J	+/-0.2	0.4 J	+/-0.1	23.9
Uranium-234	pCi/g	1.2	93%	28	30	30	1.2 J	+/-0.4	0.8 J	+/-0.3	0.6 J	+/-0.2	0.7 J	+/-0.3	0.8
Uranium-235	pCi/g	0.2	43%	13	30	30	0.2	+/-0.2	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1
Uranium-238	pCi/g	1.1	100%	30	30	30	0.8	+/-0.3	0.7	+/-0.3	0.5	+/-0.2	0.9	+/-0.3	0.9





TABLE G-20  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 SS12-79 SOIL 123271	SEAD-12 SS12-80 SOIL 123272	SEAD-12 SS12-81 SOIL 123273	SEAD-12 SS12-82 SOIL 123274	SEAD-12 SS12-83 SOIL 123275
												11/11/1998 SA	11/11/1998 SA	11/11/1998 SA	11/11/1998 SA	11/11/1998 SA
												RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1
PARAMETER	UNIT	MAXIMUM										N	N	N	N	N
Bismuth-214	pCi/g	2.8	100%	30	30	1.5 J	+/-0.5	0.9 J	+/-0.3	1.7 J	+/-0.4	0.7 J	+/-0.2	1		
Cesium-137	pCi/g	1.5	83%	25	30	1	+/-0.2	0.9	+/-0.1	1.5	+/-0.3	0.3	+/-0.1	0.5		
Cobalt-57	pCi/g	0.1	40%	12	30	0.1 U		0.1	+/-0.1	0.1	+/-0.1	0.1 U		0.1		
Cobalt-60	pCi/g	0.6	47%	14	30	0.2	+/-0.1	0.1	+/-0.1	0.5	+/-0.2	0.1 U		0.1		
Lead-210	pCi/g	39.9	73%	22	30	5 J	+/-2.9	4.5 J	+/-1.9	5.7 J	+/-3.3	27.2 J	+/-21.8	2.2		
Lead-211	pCi/g	17.6	33%	10	30	0.5 UJ		2.4 UJ		3.7 UJ		3.7 J	+/-2.1	6.6		
Lead-214	pCi/g	3.3	100%	30	30	1.3	+/-0.4	1.1	+/-0.3	2.2	+/-0.6	1.1	+/-0.3	1		
Plutonium-239/240	pCi/g	0.1	3%	1	30	0.1 U	+/-0.2	0.3 UJ	+/-0.2	0.4 UJ	+/-0.4	0.1 U	+/-0.1	0.1		
Radium-223	pCi/g	0.8	7%	2	30	0.4 UJ		0.3 UJ		0.5 UJ		0.8 J	+/-0.3	0.3		
Radium-226	pCi/g	2.8	100%	30	30	1.5 J	+/-0.5	0.9 J	+/-0.3	1.7 J	+/-0.4	0.7 J	+/-0.2	1		
Radium-228	pCi/g	3.2	100%	30	30	1.3 J	+/-0.4	1.2 J	+/-0.4	2.8 J	+/-0.6	0.9 J	+/-0.3	1.3		
Thorium-230	pCi/g	2.3	13%	4	30	1.4 J	+/-0.6	0.8 UJ	+/-0.3	1.1 UJ	+/-0.5	0.3 UJ	+/-0.3	0.8		
Thorium-232	pCi/g	1.7	100%	30	30	0.7 J	+/-0.4	0.2	+/-0.2	1 J	+/-0.4	0.4 J	+/-0.3	0.3		
Tritium	pCi/g	23.9	80%	24	30	1 J	+/-0.1	0.4 J	+/-0.1	22.5 J	+/-0.2	0.1 J	+/-0.1	0.1		
Uranium-234	pCi/g	1.2	93%	28	30	0.7 J	+/-0.3	0.6 J	+/-0.2	1.1 J	+/-0.3	0.4 J	+/-0.2	0.7		
Uranium-235	pCi/g	0.2	43%	13	30	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2		
Uranium-238	pCi/g	1.1	100%	30	30	0.7	+/-0.3	0.6	+/-0.2	1.1	+/-0.3	0.6	+/-0.2	0.8		

TABLE G-20  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	tep 1	SEAD-12 SS12-84 SOIL	SEAD-12 SS12-85 SOIL	SEAD-12 SS12-86 SOIL	SEAD-12 SS12-87 SOIL					
													123276	123277	123278	123282					
													0	0	0	0					
													0.2	0.2	0.2	0.2					
													11/11/1998	11/11/1998	11/11/1998	11/12/1998					
													SA	SA	SA	DU					
													RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1					
PARAMETER	UNIT	MAXIMUM											N	N	N	N					
Bismuth-214	pCi/g	2.8	100%	30	30	J	+/-0.3		2.5	J	+/-0.6		1.2	J	+/-0.5	1.3	J	+/-0.5	2.3	J	+/-0.5
Cesium-137	pCi/g	1.5	83%	25	30		+/-0.1		1.5		+/-0.2		0.5		+/-0.2	1		+/-0.2	0.6		+/-0.3
Cobalt-57	pCi/g	0.1	40%	12	30	U			0.1	U			0.1		+/-0.1	0.1		+/-0.1	0.1	U	
Cobalt-60	pCi/g	0.6	47%	14	30		+/-0.1		0.6		+/-0.2		0.1		+/-0.1	0.2		+/-0.1	0.1	U	
Lead-210	pCi/g	39.9	73%	22	30	J	+/-2		3.8	J	+/-2.3		4.1	J	+/-2.3	3.7	J	+/-1.8	2.8	J	+/-2.6
Lead-211	pCi/g	17.6	33%	10	30	J	+/-4.3		9.3	J	+/-5.7		9	J	+/-2.9	4.2	J	+/-3.2	2.2	U	
Lead-214	pCi/g	3.3	100%	30	30		+/-0.4		1.6		+/-0.4		1.2		+/-0.3	1.3		+/-0.3	2.2	J	+/-0.3
Plutonium-239/240	pCi/g	0.1	3%	1	30	U	+/-0.1		0.1	UJ	+/-0.2		0.1	U	+/-0.2	0.2	UJ	+/-0.2	0.1	UJ	+/-0.1
Radium-223	pCi/g	0.8	7%	2	30	UJ			0.5	UJ			0.4	UJ		0.4	UJ		0.4	UJ	
Radium-226	pCi/g	2.8	100%	30	30	J	+/-0.3		2.5	J	+/-0.6		1.2	J	+/-0.5	1.3	J	+/-0.5	2.3	J	+/-0.5
Radium-228	pCi/g	3.2	100%	30	30	J	+/-0.3		1.7	J	+/-0.5		1.7	J	+/-0.4	1	J	+/-0.3	2	J	+/-0.5
Thorium-230	pCi/g	2.3	13%	4	30	UJ	+/-0.3		0.9	UJ	+/-0.4		0.7	UJ	+/-0.3	0.8	UJ	+/-0.3	0.9	U	+/-0.4
Thorium-232	pCi/g	1.7	100%	30	30		+/-0.2		1.1	J	+/-0.5		0.3		+/-0.2	0.5		+/-0.2	1.5	J	+/-0.6
Tritium	pCi/g	23.9	80%	24	30	UJ	+/-0.1		2.1	J	+/-0.1		0.2	J	+/-0.1	0.1	J	+/-0.1	19.2	J	+/-0.1
Uranium-234	pCi/g	1.2	93%	28	30	J	+/-0.3		0.8	J	+/-0.3		0.5	J	+/-0.2	0.5	J	+/-0.2	0.7		+/-0.3
Uranium-235	pCi/g	0.2	43%	13	30		+/-0.1		0.1	U	+/-0.1		0.1		+/-0.1	0.1		+/-0.1	0.1	J	+/-0.1
Uranium-238	pCi/g	1.1	100%	30	30		+/-0.3		1		+/-0.3		0.7		+/-0.3	0.5		+/-0.2	0.7	J	+/-0.3

TABLE G-20  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12			
LOCATION ID						SS12-87		SS12-88		SS12-89			
MATRIX						SOIL		SOIL		SOIL			
SAMPLE ID						123279		123280		123281			
DEPTH TO TOP OF SAMPLE						0		0		0			
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2			
SAMPLE DATE						11/12/1998		11/17/1998		11/17/1998			
QC CODE						SA		SA		SA			
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N			
Bismuth-214	pCi/g	2.8	100%	30	30	1.6 J	+/-0.3	0.9 J	+/-0.2	2.8		+/-0.3	
Cesium-137	pCi/g	1.5	83%	25	30	0.7	+/-0.2	0.1 U		0.7		+/-0.2	
Cobalt-57	pCi/g	0.1	40%	12	30	0.1 U		0.1	+/-0.1	0.1		+/-0.1	
Cobalt-60	pCi/g	0.6	47%	14	30	0.1 U		0.1 U		0.1 U			
Lead-210	pCi/g	39.9	73%	22	30	10.6 UJ		18 U		3.3 J		+/-2.2	
Lead-211	pCi/g	17.6	33%	10	30	1.5 U		1 UJ		2.6 UJ			
Lead-214	pCi/g	3.3	100%	30	30	1.4 J	+/-0.3	0.7 J	+/-0.2	3.3		+/-0.3	
Plutonium-239/240	pCi/g	0.1	3%	1	30	0.1 J	+/-0.1	0.1 U	+/-0.1	0.2 U		+/-0.1	
Radium-223	pCi/g	0.8	7%	2	30	0.4 J	+/-0.3	0.3 U		0.3 U			
Radium-226	pCi/g	2.8	100%	30	30	1.6 J	+/-0.3	0.9 J	+/-0.2	2.8		+/-0.3	
Radium-228	pCi/g	3.2	100%	30	30	1 J	+/-0.4	1.3 J	+/-0.4	0.8		+/-0.2	
Thorium-230	pCi/g	2.3	13%	4	30	0.8 U	+/-0.4	0.6 U	+/-0.3	0.9 U		+/-0.3	
Thorium-232	pCi/g	1.7	100%	30	30	0.8 J	+/-0.4	0.5	+/-0.2	0.6		+/-0.2	
Tritium	pCi/g	23.9	80%	24	30	10.4 J	+/-0.1	0.2	+/-0.1	6.7		+/-0.1	
Uranium-234	pCi/g	1.2	93%	28	30	0.9	+/-0.3	0.4	+/-0.2	0.8 J		+/-0.3	
Uranium-235	pCi/g	0.2	43%	13	30	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1 U		+/-0.1	
Uranium-238	pCi/g	1.1	100%	30	30	0.8 J	+/-0.3	0.4	+/-0.2	0.8 J		+/-0.2	





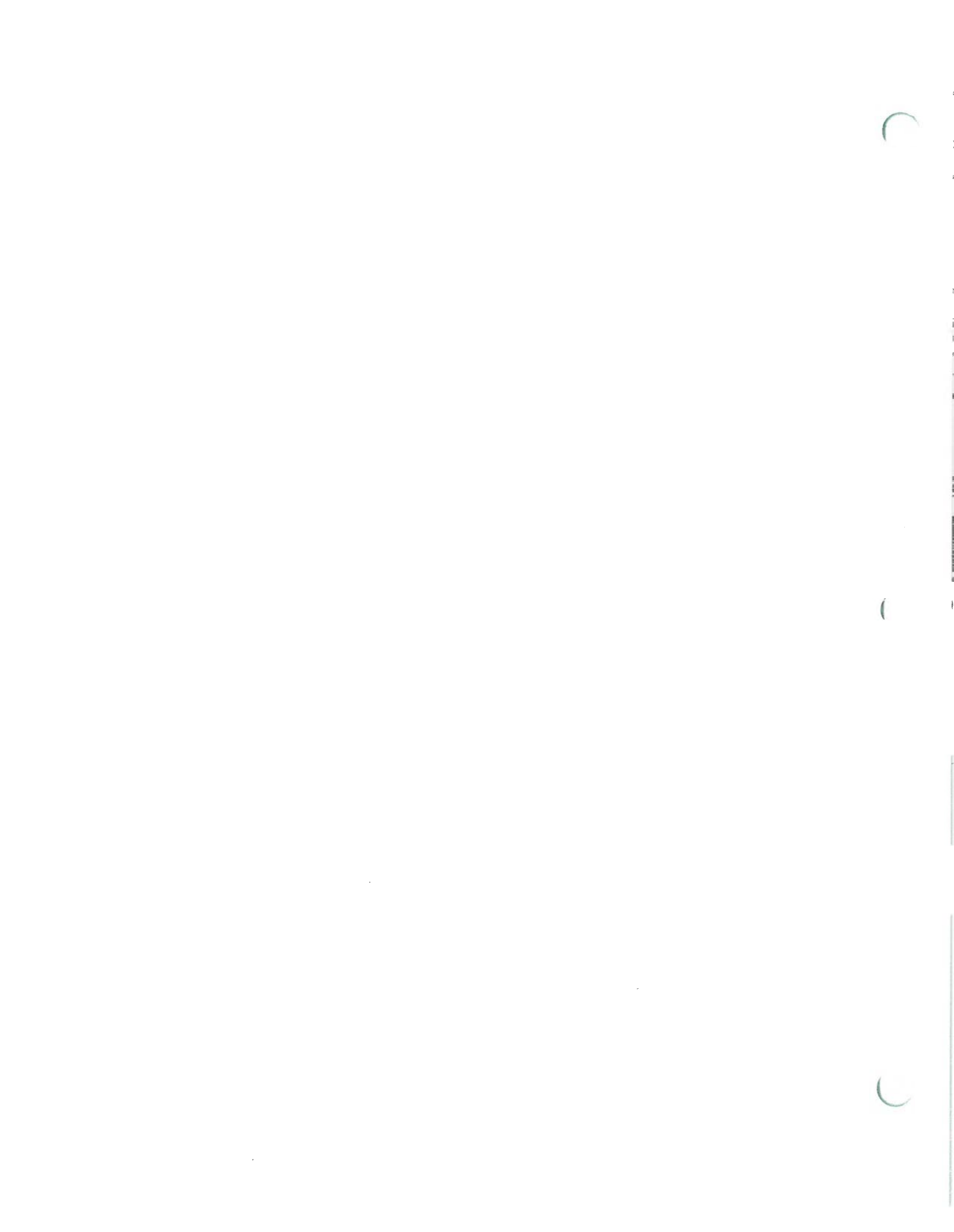




TABLE G-21  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF	NUMBER OF	NUMBER OF	SEAD-12 MW12-21 SOIL	SEAD-12 MW12-21 SOIL	SEAD-12 TP12-17A SOIL	SEAD-12 TP12-17B SOIL	SEAD-12 TP12-17C SOIL
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	N	RI Phase
Bismuth-214	pCi/g	2.8	100%	10	10	10	1.6	+/-0.7	1.5	+/-0.3	2.1	+/-0.4	2.3	+/-0.4	1.8	
Cesium-137	pCi/g	0.8	90%	9	10	10	0.1 J	+/-0.3	0.1 J	+/-0.1	0.4 J	+/-0.1	0.5 J	+/-0.2	0.4	
Cobalt-57	pCi/g	0.3	20%	2	10	10	0.1 U		0.1 U		0.1 U		0.1 U		0.1	
Cobalt-60	pCi/g	0.5	90%	9	10	10	0.1 UJ	+/-0.2	0.3 J	+/-0.1	0.4 J	+/-0.2	0.2 J	+/-0.1	0.2	
Lead-210	pCi/g	43.3	60%	6	10	10	43.3 J	+/-4.5	5.3 J	+/-3.1	29.3 UJ		3 J	+/-2.2	31.5	
Lead-211	pCi/g	20.6	60%	6	10	10	11.6 J	+/-3.1	16.2 J	+/-6.3	1.2 UJ		20.6 J	+/-4.9	8.9	
Lead-214	pCi/g	2.2	100%	10	10	10	1.3	+/-0.5	1.7	+/-0.4	1.6	+/-0.4	2.1	+/-0.5	1.4	
Plutonium-239/240	pCi/g	0	0%	0	10	10	0.2 U	+/-0.2	0.1 UJ	+/-0.2	0.2 U	+/-0.1	0.4 U	+/-0.2	0.1	
Radium-223	pCi/g	1.1	40%	4	10	10	0.4 UJ		0.7 J	+/-0.5	0.5 UJ		0.5 UJ		0.6	
Radium-226	pCi/g	2.8	70%	7	10	10	1.6	+/-0.7	1.5	+/-0.3	2.1 U	+/-0.4	2.3 U	+/-0.4	1.8	
Radium-228	pCi/g	2.7	100%	10	10	10	1.5	+/-0.6	2.5	+/-0.5	1.6	+/-0.5	2.2	+/-0.5	2.6	
Thorium-230	pCi/g	2.1	60%	6	10	10	1	+/-0.4	1	+/-0.3	1.4 U	+/-0.5	1.4 U	+/-0.5	1	
Thorium-232	pCi/g	1.3	90%	9	10	10	0.6	+/-0.4	0.6	+/-0.3	1.2	+/-0.5	1.3	+/-0.5	0.6	
Tritium	pCi/g	1.1	10%	1	10	10	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1	1.1	+/-0.1	0.1	
Uranium-234	pCi/g	1.4	40%	4	10	10	1.2	+/-0.4	1.1 UJ	+/-0.4	0.8 U	+/-0.3	0.7 U	+/-0.3	0.6	
Uranium-235	pCi/g	0.3	60%	6	10	10	0.3	+/-0.1	0.1 J	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1	
Uranium-238	pCi/g	1.5	100%	10	10	10	1.3 J	+/-0.6	1.5 J	+/-0.5	0.7 J	+/-0.3	0.9 J	+/-0.3	0.7	



TABLE G-21  
 BLDG 819/EM-27 RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF	NUMBER OF	NUMBER OF	Step 1
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES							
Bismuth-214	pCi/g	2.8	100%	10	10							+/-0.4
Cesium-137	pCi/g	0.8	90%	9	10	J						+/-0.1
Cobalt-57	pCi/g	0.3	20%	2	10	U						
Cobalt-60	pCi/g	0.5	90%	9	10	J						+/-0.1
Lead-210	pCi/g	43.3	60%	6	10	UJ						
Lead-211	pCi/g	20.6	60%	6	10	J						+/-3.1
Lead-214	pCi/g	2.2	100%	10	10							+/-0.4
Plutonium-239/240	pCi/g	0	0%	0	10	U						+/-0.1
Radium-223	pCi/g	1.1	40%	4	10	UJ						
Radium-226	pCi/g	2.8	70%	7	10	U						+/-0.4
Radium-228	pCi/g	2.7	100%	10	10							+/-0.7
Thorium-230	pCi/g	2.1	60%	6	10	U						+/-0.3
Thorium-232	pCi/g	1.3	90%	9	10							+/-0.2
Tritium	pCi/g	1.1	10%	1	10	U						+/-0.1
Uranium-234	pCi/g	1.4	40%	4	10	U						+/-0.2
Uranium-235	pCi/g	0.3	60%	6	10	U						+/-0.1
Uranium-238	pCi/g	1.5	100%	10	10	J						+/-0.2

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Population	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000
GDP	100	110	120	130	140	150	160	170	180	190	200
Unemployment	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%
Inflation	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%

Source: Bureau of Economic Analysis, U.S. Department of Commerce





TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-29		MW12-30		MW12-30		SS12-234		SS12-235	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123133		123148		123136		123404		123432	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						15-Oct-98		16-Oct-98		16-Oct-98		17-Nov-98		17-Nov-98	
QC CODE						SA		DU		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.8	1.5 J	+/-0.5	1.4 J	+/-0.5	1.5	+/-0.3	1.4 J	
Cesium-137	pCi/g	1.4	69%	33	48	1 J	+/-0.2	1	+/-0.3	1.1	+/-0.3	0.6	+/-0.2	0.1 U	
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.2	4%	2	48	0.2	+/-0.1	0.1 UJ		0.1 J		0.1 U		0.1 U	
Lead-210	pCi/g	88.5	63%	30	48	2.8 J	+/-2.6	7.1 J	+/-3.9	4.9 J	+/-2.3	4.9 J	+/-3.5	35.9 UJ	
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ		2.3 UJ		7.7 J	+/-4.6	1.3 UJ		0.8 UJ	
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.3	2.3	+/-0.3	2	+/-0.6	1.7	+/-0.3	1.3	
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.2	0.1 U	+/-0.1	0.1	
Promethium-147	pCi/g	1.4	17%	4	24										
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		0.5 UJ		1 J	+/-0.6	1.3	+/-0.6	0.5 U	
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.8	1.5 J	+/-0.5	1.4 J	+/-0.5	1.5	+/-0.3	1.4 J	
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.8	2.4	+/-0.6	2.7	+/-0.6	2.4	+/-0.8	2.2 J	
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.6	1.2 J	+/-0.4	1.1 J	+/-0.4	1.3 U	+/-0.5	1.5	
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.4	1 J	+/-0.3	0.8 J	+/-0.3	1.1	+/-0.5	0.9	
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.1	0.1 J	+/-0.1	0.5 J	+/-0.1	203	+/-0.8	78.5 J	
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.3	1 J	+/-0.3	1	+/-0.3	0.7	+/-0.2	0.9	
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.3	0.9 J	+/-0.3	1.1 J	+/-0.3	0.9	+/-0.3	1.1 J	

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-29 SOIL 123133 0 0.2 15-Oct-98 SA		SEAD-12 SS12-240 SOIL 123436 0 0.2 15-Nov-98 SA		SEAD-12 SS12-241 SOIL 123438 0 0.2 15-Nov-98 DU		SEAD-12 SS12-241 SOIL 123437 0 0.2 15-Nov-98 SA		SEAD-12 SS12-242 SOIL 123439 0 0.2 15-Nov-98 SA	
						RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER						N		N		N		N		N	
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.3	1.5	+/-0.5	1	+/-0.3	1.5	+/-0.3	1.2	
Cesium-137	pCi/g	1.4	69%	33	48	1 J		0.1 UJ		0.1 UJ		0.1 UJ		0.6	
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	88.5	63%	30	48	2.8 J		32.4 UJ		28.6 U		41.4	+/-37	23.1 UJ	
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ		2.5 UJ		1.7 U		1.3 U		6.9	
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.3	1.8	+/-0.4	1.4 J	+/-0.3	1.2 J	+/-0.3	1.6	
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.2 U	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1 U	
Promethium-147	pCi/g	1.4	17%	4	24			6.5 U		6.5 U	+/-3.7	6.5 U	+/-3.8		
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		0.4 U		0.7	+/-0.3	0.4 U		0.5 U	
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.3	1.5	+/-0.5	1	+/-0.3	1.5	+/-0.3	1.2	
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.6	1.6	+/-0.5	2.7	+/-0.6	2	+/-0.4	2.2	
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.5	1.3	+/-0.4	0.8 UJ	+/-0.5	0.6 UJ	+/-0.4	1.3	
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.4	1.1	+/-0.4	1.1 J	+/-0.5	1 J	+/-0.4	0.8	
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.5	0.1 UJ	+/-0.1	0.1 J	+/-0.1	0.1 UJ	+/-0.1	0.1 U	
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.3	0.6 J	+/-0.3	0.7	+/-0.3	0.6	+/-0.2	1 J	
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1	
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.3	0.8 J	+/-0.3	0.6	+/-0.2	0.9	+/-0.3	1	

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID		MW12-29		SS12-243		SS12-244		SS12-245		SS12-246	
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID		123133		123440		123441		123442		123443	
DEPTH TO TOP OF SAMPLE		0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE		15-Oct-98		15-Nov-98		15-Nov-98		15-Nov-98		15-Nov-98	
QC CODE		SA		SA		SA		SA		SA	
STUDY ID		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N	
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.4	2	+/-0.5	2	+/-0.6
Cesium-137	pCi/g	1.4	69%	33	48	1 J	+/-0.2	0.4	+/-0.3	0.6	+/-0.2
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U	
Lead-210	pCi/g	88.5	63%	30	48	2.8 J		6 J	+/-2.4	3.9 J	+/-2.8
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ	+/-3.5	3.1 U		3.4 U	
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.4	1.9	+/-0.6	2.3	+/-0.6
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.1 U	+/-0.2	0.2 U	+/-0.2
Promethium-147	pCi/g	1.4	17%	4	24					0.1 U	+/-0.1
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		1	+/-0.6	0.5 U	
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.4	2	+/-0.5	2.2	+/-0.6
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.6	2.1	+/-0.6	2.4	+/-0.7
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.4	0.9 U	+/-0.3	1.3	+/-0.5
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.3	0.9	+/-0.3	1	+/-0.4
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.1	5.7	+/-0.1	1.2	+/-0.1
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.3	0.7 J	+/-0.3	0.6 J	+/-0.2
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.3	+/-0.2	0.1 J	+/-0.1
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.3	1.2	+/-0.4	0.7 J	+/-0.2

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-29 SOIL	SEAD-12 SS12-247 SOIL	SEAD-12 SS12-248 SOIL	SEAD-12 SS12-249 SOIL	SEAD-12 SS12-250 SOIL		
			123133	0	0.2	15-Oct-98	SA		123444	123444	123445	123446	123447		
									0	0	0	0	0		
									0.2	0.2	0.2	0.2	0.2		
									15-Nov-98	15-Nov-98	15-Nov-98	15-Nov-98	15-Nov-98		
									SA	SA	SA	SA	SA		
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N			N		N	N	N		
Bismuth-214	pCi/g	3.8	100%	48	48	48	1.9	+/-0.4	1.7	+/-0.5	1.7	+/-0.4	2.5	+/-0.5	3.8
Cesium-137	pCi/g	1.4	69%	33	48	48	1 J	+/-0.2	0.1 U		0.1 UJ		1.4	+/-0.3	1.2 J
Cobalt-57	pCi/g	0.3	19%	9	48	48	0.1 U		0.1 U		0.1 U		0.1 U		0.1
Cobalt-60	pCi/g	0.2	4%	2	48	48	0.2		0.1 U		0.1 U		0.2 U		0.1 U
Lead-210	pCi/g	88.5	63%	30	48	48	2.8 J		7.7 J	+/-3.3	47.7 U		42.1 J	+/-34.1	6.5 J
Lead-211	pCi/g	15.2	17%	8	48	48	2.8 UJ		7	+/-3.6	1.8 U		2.9 U		15.2
Lead-214	pCi/g	3.6	100%	48	48	48	1.5 J	+/-0.4	2.2	+/-0.6	2		1.4	+/-0.4	3.6
Plutonium-239/240	pCi/g	0.1	2%	1	48	48	0.2 U	+/-0.1	0.2 U	+/-0.1	0.3 UJ		0.2 U	+/-0.2	0.3 U
Promethium-147	pCi/g	1.4	17%	4	24	24									
Radium-223	pCi/g	2.3	40%	19	48	48	0.6 UJ		0.7 U		1.1	+/-0.5	0.6	+/-0.5	1.5
Radium-226	pCi/g	3.8	100%	48	48	48	1.9	+/-0.4	1.7	+/-0.5	1.7	+/-0.4	2.5	+/-0.5	3.8
Radium-228	pCi/g	3.3	100%	48	48	48	2.3	+/-0.6	2.4	+/-0.6	1.9	+/-0.6	2.9	+/-0.8	1.6
Thorium-230	pCi/g	1.6	17%	8	48	48	1.6 J	+/-0.4	1.1 U	+/-0.4	1.2	+/-0.4	1.1 U	+/-0.4	1.1 U
Thorium-232	pCi/g	1.9	100%	48	48	48	1 J	+/-0.5	1	+/-0.4	1	+/-0.4	1.4	+/-0.5	1.6
Tritium	pCi/g	203	71%	34	48	48	0.1 U	+/-0.3	198	+/-0.7	0.3	+/-0.1	118	+/-0.6	27.5
Uranium-234	pCi/g	1.4	85%	41	48	48	0.8 U	+/-0.2	0.8 J	+/-0.3	1.1	+/-0.4	0.8 J	+/-0.3	0.6 J
Uranium-235	pCi/g	0.3	44%	21	48	48	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U
Uranium-238	pCi/g	1.2	94%	45	48	48	1.1 U	+/-0.3	0.9	+/-0.3	1.2	+/-0.4	0.5	+/-0.2	0.9



TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-29 SOIL 123133	SEAD-12 SS12-251 SOIL 123448	SEAD-12 SS12-252 SOIL 123449	SEAD-12 SS12-253 SOIL 123450	SEAD-12 SS12-254 SOIL 123451
PARAMETER	UNIT	MAXIMU	DETECTION	DETECTS	ANALYSES	N	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-1	1.7 J	+/-0.4	1.7 J	+/-0.5	1.7 J	+/-0.4	1.4 J	0.5	1.4 J
Cesium-137	pCi/g	1.4	69%	33	48	1 J	+/-0.4	0.1 U		0.1 U		0.8	+/-0.2	0.5	0.8	0.5
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U	+/-0.1	0.1 U		0.1 U	+/-0.1	0.1 U		0.1 U	0.1 U	0.1 U
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U		0.1 U		0.1 U	0.1 U	0.1 U
Lead-210	pCi/g	88.5	63%	30	48	2.8 J	+/-5.4	34.9 U		67.5	+/-39.9	4.4	+/-2.4	23.1	4.4	23.1
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ	+/-6.6	3.1 U		0.7 U		1.4 U		1.1 U	1.4 U	1.1 U
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.6	1.8 J	+/-0.4	1.5 J	+/-0.2	1.4 J	+/-0.4	1 J	1.4 J	1 J
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.2	0.4 U	+/-0.2	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.2 U	0.1 UJ	0.2 U
Promethium-147	pCi/g	1.4	17%	4	24											
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ	+/-0.7	0.5 U		0.4 U		0.4 U		0.4 U	0.4 U	0.4 U
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-1	1.7 J	+/-0.4	1.7 J	+/-0.5	1.7 J	+/-0.4	1.4 J	1.7 J	1.4 J
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.5	2.2	+/-0.6	1.8	+/-0.5	1.6	+/-0.5	1.5	1.6	1.5
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.4	1.5 U	+/-0.5	1.1 U	+/-0.3	1.2 U	+/-0.5	1.4 U	1.2 U	1.4 U
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.5	1.7	+/-0.6	1	+/-0.3	1.5	+/-0.5	0.8	1.5	0.8
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.3	0.1	+/-0.1	0.3	+/-0.1	10.3	+/-0.1	0.1	10.3	0.1
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.2	1.1 J	+/-0.3	0.7 J	+/-0.2	0.9 J	+/-0.3	0.4 UJ	0.9 J	0.4 UJ
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	0.1 U	0.1 U
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.3	1	+/-0.3	0.7	+/-0.2	0.8 J	+/-0.3	0.5	0.8 J	0.5

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID		SEAD-12 MW12-29 SOIL 123133 0 0.2 15-Oct-98 SA		SEAD-12 SS12-255 SOIL 123452 0 0.2 16-Nov-98 SA		SEAD-12 SS12-256 SOIL 123453 0 0.2 17-Nov-98 SA		SEAD-12 SS12-257 SOIL 123454 0 0.2 16-Nov-98 SA		SEAD-12 SS12-258 SOIL 123455 0 0.2 16-Nov-98 SA					
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI Phase 1 Step 1	N	RI Phase 1 Step 1	N	RI Phase 1 Step 1	N	RI Phase 1 Step 1	N	RI Phase 1 Step 1
Bismuth-214	pCi/g	3.8	100%	48	48	48	1.9 +/-0.3	1.1 J +/-0.3	2.4 +/-0.5	1.7 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5
Cesium-137	pCi/g	1.4	69%	33	48	48	1 J +/-0.2	0.1 U +/-0.3	0.9 +/-0.3	0.6 +/-0.2	1 +/-0.2	1 +/-0.2	1 +/-0.2	1 +/-0.2	1 +/-0.2
Cobalt-57	pCi/g	0.3	19%	9	48	48	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Cobalt-60	pCi/g	0.2	4%	2	48	48	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Lead-210	pCi/g	88.5	63%	30	48	48	2.8 J +/-16.4	20.4 U	5.4 J +/-2.1	4.8 +/-2.1	4.5 +/-2.1	4.5 +/-2.1	4.5 +/-2.1	4.5 +/-2.1	4.5 +/-2.1
Lead-211	pCi/g	15.2	17%	8	48	48	2.8 UJ	0.7 U	2.6 UJ	8.5 +/-4.5	2.6 U +/-4.5	2.6 U +/-4.5	2.6 U +/-4.5	2.6 U +/-4.5	2.6 U +/-4.5
Lead-214	pCi/g	3.6	100%	48	48	48	1.5 J +/-0.3	1.2 J +/-0.2	2.2 +/-0.4	1.9 J +/-0.4	1.4 J +/-0.4	1.4 J +/-0.4	1.4 J +/-0.4	1.4 J +/-0.4	1.4 J +/-0.4
Plutonium-239/240	pCi/g	0.1	2%	1	48	48	0.2 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1
Promethium-147	pCi/g	1.4	17%	4	24	24			7.7 UJ +/-4.5						
Radium-223	pCi/g	2.3	40%	19	48	48	0.6 UJ	0.4 U	0.5 U	1.2 +/-0.5	0.5 U +/-0.5	0.5 U +/-0.5	0.5 U +/-0.5	0.5 U +/-0.5	0.5 U +/-0.5
Radium-226	pCi/g	3.8	100%	48	48	48	1.9 +/-0.3	1.1 J +/-0.3	2.4 +/-0.5	1.7 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5	1.5 J +/-0.5
Radium-228	pCi/g	3.3	100%	48	48	48	2.3 +/-0.4	2 +/-0.5	2 +/-0.5	1.7 +/-0.8	2.5 +/-0.8	2.5 +/-0.8	2.5 +/-0.8	2.5 +/-0.8	2.5 +/-0.8
Thorium-230	pCi/g	1.6	17%	8	48	48	1.6 J +/-0.5	1.5 U +/-0.5	1.3 U +/-0.5	1.6 U +/-0.5	1.3 U +/-0.5	1.3 U +/-0.5	1.3 U +/-0.5	1.3 U +/-0.5	1.3 U +/-0.5
Thorium-232	pCi/g	1.9	100%	48	48	48	1 J +/-0.3	1.3 +/-0.4	1.5 +/-0.6	1.3 +/-0.6	1 +/-0.5	1 +/-0.5	1 +/-0.5	1 +/-0.5	1 +/-0.5
Tritium	pCi/g	203	71%	34	48	48	0.1 U +/-0.1	1 +/-0.1	30.4 +/-0.3	0.3 +/-0.1	1.1 +/-0.1	1.1 +/-0.1	1.1 +/-0.1	1.1 +/-0.1	1.1 +/-0.1
Uranium-234	pCi/g	1.4	85%	41	48	48	0.8 U +/-0.2	1.2 J +/-0.5	0.8 +/-0.3	1 J +/-0.4	0.6 UJ +/-0.4	0.6 UJ +/-0.4	0.6 UJ +/-0.4	0.6 UJ +/-0.4	0.6 UJ +/-0.4
Uranium-235	pCi/g	0.3	44%	21	48	48	0.1 U +/-0.1	0.3 J +/-0.3	0.1 UJ +/-0.1	0.2 +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1	0.1 U +/-0.1
Uranium-238	pCi/g	1.2	94%	45	48	48	1.1 U +/-0.2	0.9 J +/-0.4	1 +/-0.3	0.9 +/-0.3	0.7 +/-0.3	0.7 +/-0.3	0.7 +/-0.3	0.7 +/-0.3	0.7 +/-0.3

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	SEAD-12	SEAD-12	SEAD-12	SEAD-12	SEAD-12								
MATRIX	SAMPLE ID	MW12-29	SS12-259	SS12-260	SS12-260	SS12-261								
DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SOIL	SOIL	SOIL	SOIL	SOIL								
SAMPLE DATE	QC CODE	123133	123456	123458	123457	123459								
STUDY ID	STUDY ID	0	0	0	0	0								
PARAMETER	UNIT	0.2	0.2	0.2	0.2	0.2								
		15-Oct-98	16-Nov-98	18-Nov-98	18-Nov-98	18-Nov-98								
		SA	SA	DU	SA	SA								
		RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1								
		FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N								
		MAXIMU												
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.4	1.5 J	+/-0.3	1.1 J	+/-0.4	2.4 J	+/-0.5	1.6
Cesium-137	pCi/g	1.4	69%	33	48	1 J	+/-0.2	0.8	+/-0.2	0.5 J	+/-0.2	0.5 J	+/-0.3	0.1 UJ
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U	+/-0.1	0.1 U		0.1 UJ		0.1 J	+/-0.1	0.1 U
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U		0.1 U		0.1 U
Lead-210	pCi/g	88.5	63%	30	48	2.8 J	+/-2.2	35.3	+/-26.3	24.4 UJ		4.2 J	+/-2.2	4.2
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ		0.7 U		2.1 U		1.3 U		2.3 U
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.4	1 J	+/-0.3	1.3 J	+/-0.3	2 J	+/-0.4	1.8 J
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.2 U	+/-0.2	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ
Promethium-147	pCi/g	1.4	17%	4	24					1.2	+/-3.9	1.2	+/-3.9	6.5 U
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		0.4 U		0.9 J	+/-0.6	2 J	+/-0.7	0.4 U
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.4	1.5 J	+/-0.3	1.1 J	+/-0.4	2.4 J	+/-0.5	1.6
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.5	2	+/-0.5	2.6	+/-0.6	3	+/-0.6	1.7
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.4	1.2 U	+/-0.4	1.4 UJ	+/-0.6	1.8 UJ	+/-0.9	0.9 UJ
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.4	0.8	+/-0.3	1 J	+/-0.5	1.9 J	+/-0.9	0.5 J
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.1	0.1 U	+/-0.1	0.4 J	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.2	0.8 J	+/-0.3	1.4 J	+/-0.4	0.7 J	+/-0.2	0.5
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1	+/-0.1	0.1 J	+/-0.1	0.1 UJ	+/-0.1	0.1 U
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.2	0.8	+/-0.3	1	+/-0.3	0.7	+/-0.2	0.9

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12												
LOCATION ID		MW12-29		SS12-262		SS12-263		SS12-264		SS12-265				
MATRIX		SOIL												
SAMPLE ID		123133		123460		123461		123462		123463				
DEPTH TO TOP OF SAMPLE		0		0		0		0		0				
DEPTH TO BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2		0.2				
SAMPLE DATE		15-Oct-98		18-Nov-98		18-Nov-98		18-Nov-98		18-Nov-98				
QC CODE		SA												
STUDY ID		FREQUENCY OF DETECTION		NUMBER OF DETECTS		NUMBER OF ANALYSES		RI Phase 1 Step 1		RI Phase 1 Step 1				
PARAMETER	UNIT	MAXIMU			N		N		N		N			
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.4	1.6	+/-0.4	1.8	+/-0.6	1.7	+/-0.5	1.8
Cesium-137	pCi/g	1.4	69%	33	48	1 J		0.4 J	+/-0.1	0.3 J	+/-0.2	0.1 UJ		0.1 UJ
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U		0.1	+/-0.1	0.3	+/-0.1	0.1 U		0.1 U
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U		0.1 U		0.1 U
Lead-210	pCi/g	88.5	63%	30	48	2.8 J	+/-2.9	21.5 U		4.4	+/-2.1	33.8 U		5.3
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ		2 U		0.3 U		3 U		2.3 U
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.4	1.5 J	+/-0.4	1.8 J	+/-0.4	1.6 J	+/-0.3	2.1 J
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ
Promethium-147	pCi/g	1.4	17%	4	24		+/-3.8	6.5 U	+/-3.7	6.5 U	+/-3.8	1.3 U	+/-3.9	6.5 U
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		0.4 U		0.8	+/-0.5	0.4 U		0.5 U
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.4	1.6	+/-0.4	1.8	+/-0.6	1.7	+/-0.5	1.8
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.6	2.3	+/-0.5	2.1	+/-0.7	1.9	+/-0.6	2.4
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.4	1.4 U	+/-0.6	1.2 U	+/-0.5	1.2 UJ	+/-0.6	0.9 UJ
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.3	1.5	+/-0.6	1.2	+/-0.5	1.4 J	+/-0.7	1.7 J
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	1.2 J	+/-0.1	0.1 UJ
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.2	0.8	+/-0.3	0.9 J	+/-0.3	0.8	+/-0.3	0.7 J
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.3	1.1	+/-0.4	0.9 J	+/-0.3	1	+/-0.3	0.8 J

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-29 SOIL 123133		SEAD-12 SS12-266 SOIL 123464		SEAD-12 SS12-267 SOIL 123465		SEAD-12 SS12-268 SOIL 123466		SEAD-12 SS12-269 SOIL 123467	
						RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER					N			N		N		N		N	
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.5	1.7	+/-0.4	2.8	+/-0.5	2.2	+/-0.6	1.8	
Cesium-137	pCi/g	1.4	69%	33	48	1 J		0.5 J	+/-0.1	0.9 J	+/-0.2	0.4	+/-0.1	0.8 J	
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U		0.1 U		0.1 U		0.1 U		0.2	
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	88.5	63%	30	48	2.8 J	+/-2.9	26.9 U		4.4	+/-2.9	26.9 UJ		26.2 U	
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ		2.1 U		10.1	+/-2.7	1.4 UJ		0.7 U	
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.3	1.6 J	+/-0.3	2.7 J	+/-0.5	1.4	+/-0.5	1.5 J	
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1 UJ	
Promethium-147	pCi/g	1.4	17%	4	24		+/-3.8	1.4	+/-4	6.5 U	+/-2.8	7.7 UJ	+/-4.5	1 U	
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		0.4	+/-0.3	2.3	+/-1	0.5 U		0.4 U	
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.5	1.7	+/-0.4	2.8	+/-0.5	2.2	+/-0.6	1.8	
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.7	2	+/-0.6	3.3	+/-1	2.4	+/-0.7	1.9	
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.5	1.4 UJ	+/-0.6	1.6 UJ	+/-0.8	1.3 UJ	+/-0.5	1.1 UJ	
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.8	1.2 J	+/-0.5	1.5 J	+/-0.8	1.6 J	+/-0.6	1 J	
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.1	0.5 J	+/-0.1	0.1 UJ	+/-0.1	51.2	+/-0.4	5.8 J	
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.2	0.8	+/-0.3	0.8	+/-0.3	0.6 UJ	+/-0.2	0.8	
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1	
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.2	0.7	+/-0.2	0.8	+/-0.3	0.6 UJ	+/-0.2	0.7	

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-29 SOIL 123133		SEAD-12 SS12-270 SOIL 123468		SEAD-12 SS12-271 SOIL 123469		SEAD-12 SS12-272 SOIL 123470		SEAD-12 SS12-273 SOIL 123471	
						RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1	RI Phase	Step 1
PARAMETER					N			N		N		N		N	
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.3	1.6 J	+/-0.3	1.8	+/-0.5	1.9	+/-0.4	2.2	
Cesium-137	pCi/g	1.4	69%	33	48	1 J	+/-0.2	0.7	+/-0.2	1	+/-0.2	0.7	+/-0.2	1	
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U	+/-0.1	0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	88.5	63%	30	48	2.8 J		32.1 U		7 J	+/-3.5	78.1 J	+/-50.6	3.4 J	
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ		1 U		0.7 UJ		8.7 J	+/-2.6	2.5 UJ	
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.4	1.1 J	+/-0.3	1.7	+/-0.4	1.4	+/-0.2	1.7	
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.2 UJ	+/-0.2	0.1 U	+/-0.1	0.2 U	+/-0.1	0.2 U	
Promethium-147	pCi/g	1.4	17%	4	24		+/-3.9			7.7 UJ	+/-4.5	7.7 UJ	+/-4.5	0.4 J	
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		0.4 U		0.9	+/-0.5	0.4 U		0.4 U	
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.3	1.6 J	+/-0.3	1.8	+/-0.5	1.9	+/-0.4	2.2	
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.5	1.7	+/-0.4	1.9	+/-0.5	1.3	+/-0.4	2.3	
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.6	1.3 U	+/-0.5	1.2 U	+/-0.5	1.3 UJ	+/-0.8	1.3 U	
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.5	1	+/-0.4	0.8	+/-0.4	1.8 J	+/-0.9	1.1	
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.2	27.1	+/-0.3	0.3	+/-0.1	45.6	+/-0.3	95.8	
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.2	1.1 J	+/-0.3	0.7	+/-0.2	0.5 UJ	+/-0.2	1.1	
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2	
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.2	1	+/-0.3	0.9	+/-0.3	0.8 J	+/-0.3	1	

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-29		SS12-274		SS12-274		SS12-275		SS12-276	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123133		123473		123472		123474		123475	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						15-Oct-98		18-Nov-98		18-Nov-98		18-Nov-98		18-Nov-98	
QC CODE						SA		DU		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	+/-0.6	13	+/-0.3	2.5	+/-0.3	0.8	+/-0.2	2.2	
Cesium-137	pCi/g	1.4	69%	33	48	1 J	+/-0.3	0.9 J	+/-0.2	0.6 J	+/-0.2	0.3	+/-0.2	0.6 J	
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U		0.1 U		0.1 U		0.1 U		0.1	
Cobalt-60	pCi/g	0.2	4%	2	48	0.2		0.1 U		0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	88.5	63%	30	48	2.8 J	+/-2.7	40.1 U		4.5	+/-1.9	9.6 UJ		7.9	
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ		1.8 U		2.6 U		1.7 UJ		1.9 U	
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	+/-0.4	1.5 J	+/-0.3	1.6 J	+/-0.4	0.7	+/-0.1	2.5 J	
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1 UJ	
Promethium-147	pCi/g	1.4	17%	4	24		+/-4.6	6.5 U	+/-3.8	6.5 U	+/-3.8	7.7 UJ	+/-4.5	6.5 U	
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ		0.3 U		0.8	+/-0.4	0.3 U		1.6	
Radium-226	pCi/g	3.8	100%	48	48	1.9	+/-0.6	1.3	+/-0.3	2.5	+/-0.3	0.8	+/-0.2	2.2	
Radium-228	pCi/g	3.3	100%	48	48	2.3	+/-0.5	2.2	+/-0.5	1.5	+/-0.4	0.9	+/-0.2	1.8	
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	+/-0.5	1.4 UJ	+/-0.6	1.3 UJ	+/-0.6	0.4 U	+/-0.2	1.2 UJ	
Thorium-232	pCi/g	1.9	100%	48	48	1 J	+/-0.4	1.4 J	+/-0.6	0.8 J	+/-0.4	0.4	+/-0.2	1.1 J	
Tritium	pCi/g	203	71%	34	48	0.1 U	+/-0.5	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	22.6	+/-0.2	0.2 J	
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	+/-0.4	1	+/-0.3	0.7	+/-0.3	0.4 U	+/-0.2	0.7	
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	+/-0.4	0.5	+/-0.2	1.2	+/-0.4	0.3 U	+/-0.2	0.8	

TABLE G-22  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-29 SOIL 123133 0 0.2 15-Oct-98 SA		SEAD-12 SS12-277 SOIL 123476 0 0.2 18-Nov-98 SA		SEAD-12 SS12-278 SOIL 123477 0 0.2 18-Nov-98 SA		SEAD-12 SS12-279 SOIL 123478 0 0.2 18-Nov-98 SA	
						RI Phase 1 Step 1	N	RI Phase 1 Step 1	N	RI Phase 1 Step 1	N	RI Phase 1 Step 1	N
PARAMETER													
Bismuth-214	pCi/g	3.8	100%	48	48	1.9	1.9	2.1	2.1	3	3	1.6	1.6
Cesium-137	pCi/g	1.4	69%	33	48	1 J	1 J	0.5	0.5	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Cobalt-57	pCi/g	0.3	19%	9	48	0.1 U	0.1 U	0.1	0.1	0.1 U	0.1 U	0.1 U	0.1 U
Cobalt-60	pCi/g	0.2	4%	2	48	0.2	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Lead-210	pCi/g	88.5	63%	30	48	2.8 J	2.8 J	8.7 J	8.7 J	88.5 J	88.5 J	34.1	34.1
Lead-211	pCi/g	15.2	17%	8	48	2.8 UJ	2.8 UJ	2.2 UJ	2.2 UJ	3.7 UJ	3.7 UJ	5.3	5.3
Lead-214	pCi/g	3.6	100%	48	48	1.5 J	1.5 J	1.5	1.5	3.1	3.1	1.2 J	1.2 J
Plutonium-239/240	pCi/g	0.1	2%	1	48	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Promethium-147	pCi/g	1.4	17%	4	24			7.7 UJ	7.7 UJ	7.7 UJ	7.7 UJ	6.5 U	6.5 U
Radium-223	pCi/g	2.3	40%	19	48	0.6 UJ	0.6 UJ	0.5	0.5	1.2	1.2	0.4	0.4
Radium-226	pCi/g	3.8	100%	48	48	1.9	1.9	2.1	2.1	3	3	1.6	1.6
Radium-228	pCi/g	3.3	100%	48	48	2.3	2.3	1.6	1.6	2.5	2.5	2	2
Thorium-230	pCi/g	1.6	17%	8	48	1.6 J	1.6 J	1.2 UJ	1.2 UJ	1.1 U	1.1 U	1 U	1 U
Thorium-232	pCi/g	1.9	100%	48	48	1 J	1 J	1.1 J	1.1 J	1.2	1.2	1	1
Tritium	pCi/g	203	71%	34	48	0.1 U	0.1 U	151	151	132	132	0.1 UJ	0.1 UJ
Uranium-234	pCi/g	1.4	85%	41	48	0.8 U	0.8 U	0.6 U	0.6 U	0.9	0.9	0.7	0.7
Uranium-235	pCi/g	0.3	44%	21	48	0.1 U	0.1 U	0.1	0.1	0.1 U	0.1 U	0.1	0.1
Uranium-238	pCi/g	1.2	94%	45	48	1.1 U	1.1 U	0.8	0.8	0.9	0.9	0.9	0.9





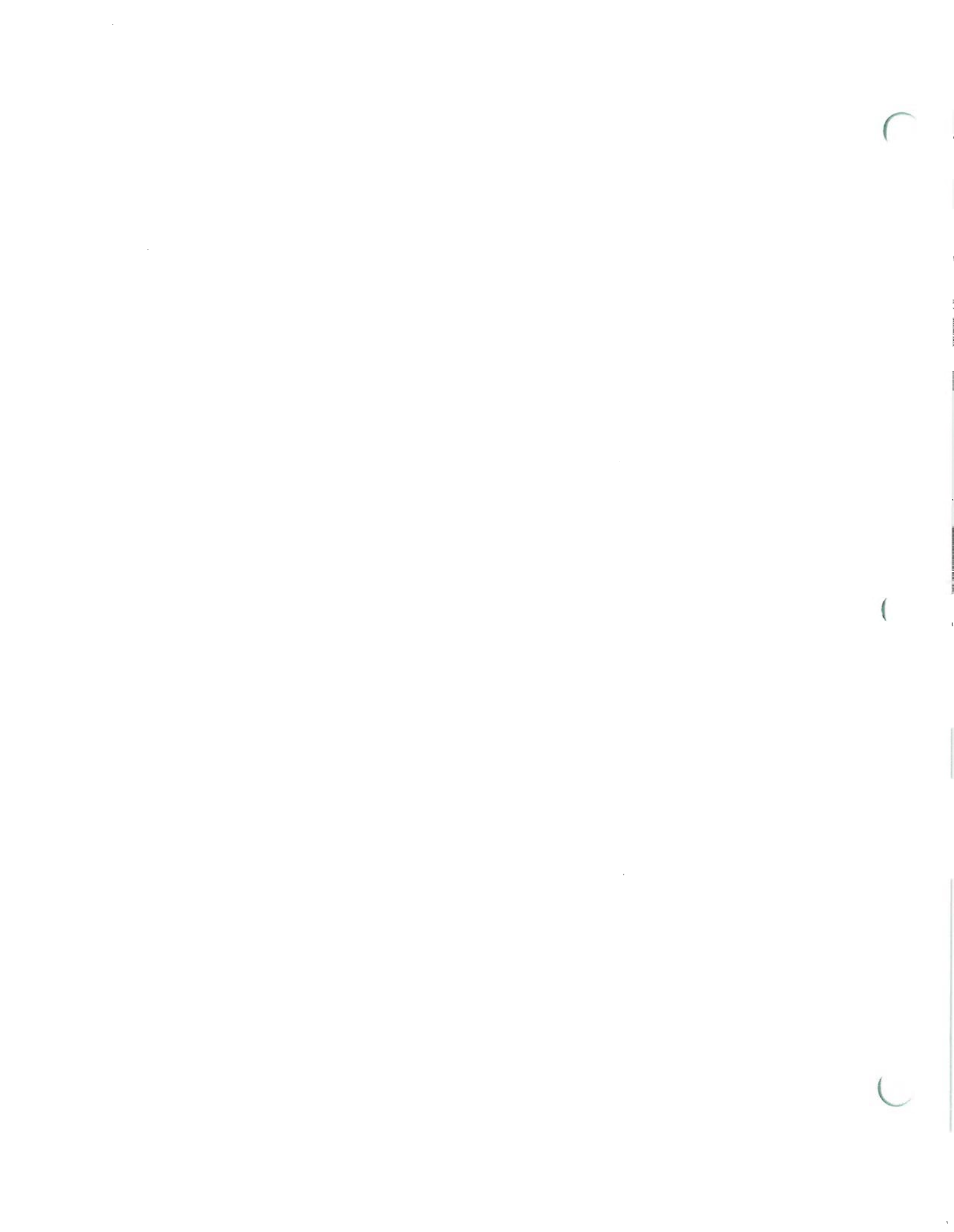


TABLE G-23  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA AMRY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	SEAD-12 TP12-18A SOIL	SEAD-12 TP12-18B SOIL	SEAD-12 TP12-18C SOIL	SEAD-12 TP12-19A SOIL
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	N											
Bismuth-214	pCi/g	3.3	100%	7	7	3.3	J	+/-0.5	N	1.4	+/-0.4						
Cesium-137	pCi/g	0.7	86%	6	7	0.7	J	+/-0.3		0.3	+/-0.1						
Cobalt-57	pCi/g	0.1	29%	2	7	0.1	U			0.1	+/-0.1						
Cobalt-60	pCi/g	0.4	57%	4	7	0.2	J	+/-0.1		0.1	U						
Lead-210	pCi/g	56.2	71%	5	7	5.7	J	+/-2.7		5.6	J	+/-2.8					
Lead-211	pCi/g	10.9	43%	3	7	10.9	J	+/-4.1		1.8	UJ						
Lead-214	pCi/g	2.3	100%	7	7	2.3	J	+/-0.6		2.1	J	+/-0.5					
Plutonium-239/240	pCi/g	0	0%	0	7	0.1	U	+/-0.1		0.4	UJ	+/-0.2					
Radium-223	pCi/g	1.4	14%	1	7	0.6	U			0.5	U						
Radium-226	pCi/g	3.3	100%	7	7	3.3	J	+/-0.5		1.4	J	+/-0.4					
Radium-228	pCi/g	3.4	100%	7	7	2.4	J	+/-0.7		0.9	J	+/-0.4					
Thorium-230	pCi/g	2	100%	7	7	1.2	J	+/-0.4		0.8	J	+/-0.6					
Thorium-232	pCi/g	2.5	100%	7	7	1.2	J	+/-0.4		2.5	J	+/-1.3					
Tritium	pCi/g	0	0%	0	7	0.1	U	+/-0.1		0.1	U	+/-0.1					
Uranium-234	pCi/g	1.1	100%	7	7	1	J	+/-0.3		1	J	+/-0.3					
Uranium-235	pCi/g	0.1	43%	3	7	0.1	U	+/-0.1		0.1	U	+/-0.1					
Uranium-238	pCi/g	1.1	100%	7	7	0.7	J	+/-0.3		0.7	J	+/-0.2					

TABLE G-23  
 BLDG 815/816/EM-28 RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA AMRY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-30 SOIL 123198 2 3.5 16-Oct-98 SA RI Phase 1 Step 1		SEAD-12 TP12-19B SOIL 123026 2 2 01-Oct-98 SA RI Phase 1 Step 1		SEAD-12 TP12-19C SOIL 123027 5.5 5.5 01-Oct-98 SA RI Phase 1 Step 1	
						N		N		N	
PARAMETER											
Bismuth-214	pCi/g	3.3	100%	7	7	3.3 J	+/-0.3	1.4	+/-0.5	1.5	+/-0.3
Cesium-137	pCi/g	0.7	86%	6	7	0.7	+/-0.1	0.3 J	+/-0.2	0.2 J	+/-0.1
Cobalt-57	pCi/g	0.1	29%	2	7	0.1 U		0.1 U		0.1	+/-0.1
Cobalt-60	pCi/g	0.4	57%	4	7	0.2 J		0.4	+/-0.1	0.3	+/-0.1
Lead-210	pCi/g	56.2	71%	5	7	5.7	+/-29.7	3.7 J	+/-2.3	33.6 UJ	
Lead-211	pCi/g	10.9	43%	3	7	10.9 J	+/-2.2	1.8 UJ		3.5 UJ	
Lead-214	pCi/g	2.3	100%	7	7	2.3	+/-0.4	1.3	+/-0.5	1.4	+/-0.3
Plutonium-239/240	pCi/g	0	0%	0	7	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.3 UJ	+/-0.3
Radium-223	pCi/g	1.4	14%	1	7	0.6 U		0.5 U		1.4	+/-0.7
Radium-226	pCi/g	3.3	100%	7	7	3.3 J	+/-0.3	1.4	+/-0.5	1.5	+/-0.3
Radium-228	pCi/g	3.4	100%	7	7	2.4	+/-0.5	2.8	+/-0.7	3.4	+/-0.7
Thorium-230	pCi/g	2	100%	7	7	1.2 J	+/-0.4	1.3 J	+/-0.5	2 J	+/-1
Thorium-232	pCi/g	2.5	100%	7	7	1.2 J	+/-0.4	1.3 J	+/-0.5	1.9 J	+/-1
Tritium	pCi/g	0	0%	0	7	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-234	pCi/g	1.1	100%	7	7	1	+/-0.2	0.8 J	+/-0.2	0.7	+/-0.2
Uranium-235	pCi/g	0.1	43%	3	7	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.1	100%	7	7	0.7 J	+/-0.3	1.1 J	+/-0.3	1	+/-0.3





TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12																			
LOCATION ID		MW12-10				MW12-11				MW12-12				MW12-13				MW12-8			
MATRIX		SOIL																			
SAMPLE ID		123007				123010				123013				123016				123183			
DEPTH TO TOP OF SAMPLE		0				0				0				0				0			
DEPTH TO BOTTOM OF SAMPLE		0.2				0.2				0.2				0.2				0.2			
SAMPLE DATE		9/29/1998				9/29/1998				9/30/1998				10/1/1998				10/28/1998			
QC CODE		SA																			
STUDY ID		RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N			N			N			N			N			
Bismuth-214	pCi/g	39.8	98%	48	49	1.4		+/-0.5	1.6		+/-0.4	1.7		+/-0.4	1.6		+/-0.4	2			
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J		+/-0.1	0.6 J		+/-0.4	0.5 J		+/-0.1	1 J		+/-0.3	0.9			
Cobalt-57	pCi/g	0.2	18%	9	49	0.1		+/-0.1	0.1 U			0.1		+/-0.1	0.1 U			0.1 U			
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U			0.2		+/-0.1	0.1 U			0.4		+/-0.1	0.1			
Lead-210	pCi/g	78.6	51%	25	49	19.4 U			3.3		+/-3.2	32.7 U			5.4		+/-3	4.4 J			
Lead-211	pCi/g	12.7	24%	12	49	1.4 U			10.7		+/-5.1	8.1		+/-3	7.5		+/-4.5	1 U			
Lead-214	pCi/g	44.4	100%	49	49	1.3		+/-0.3	1.7		+/-0.5	1.7		+/-0.4	2.1		+/-0.5	1.5			
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ		+/-0.1	0.3 UJ		+/-0.3	0.1 UJ		+/-0.1	0.2 UJ		+/-0.2	0.1 U			
Promethium-147	pCi/g	0	0%	0	1																
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ			1 J		+/-0.6	0.4 UJ			0.6 UJ			1.3			
Radium-226	pCi/g	39.8	98%	48	49	1.4		+/-0.5	1.6		+/-0.4	1.7		+/-0.4	1.6		+/-0.4	2			
Radium-228	pCi/g	3.6	96%	47	49	1.6		+/-0.4	2.7		+/-0.9	2.3		+/-0.6	1.2		+/-0.4	1.8 J			
Thorium-227	pCi/g	0.4	40%	2	5																
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U		+/-0.4	1.2 U		+/-0.5	2.3 UJ		+/-0.9	1.7 U		+/-0.6	0.5 J			
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U		+/-0.4	0.9 U		+/-0.4	1.2 UJ		+/-0.5	1.2 U		+/-0.5	0.9			
Tritium	pCi/g	53.3	53%	26	49	0.1 U		+/-0.1	0.1 U		+/-0.1	0.1 U		+/-0.1	0.2 U		+/-0.1	29.3 J			
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U		+/-0.2	0.8		+/-0.3	0.8		+/-0.3	0.6 U		+/-0.2	0.6			
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U		+/-0.1	0.1		+/-0.1	0.1 U		+/-0.1	0.1 U		+/-0.1	0.1			
Uranium-238	pCi/g	1	96%	47	49	0.5		+/-0.2	0.8		+/-0.3	0.9		+/-0.3	0.9		+/-0.3	0.9			





TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12																	
LOCATION ID		MW12-10			SB12-2			SB12-2B			SB12-3			SB12-4					
MATRIX		SOIL																	
SAMPLE ID		123007			123112			123064			12524			12530					
DEPTH TO TOP OF SAMPLE		0																	
DEPTH TO BOTTOM OF SAMPLE		0.2																	
SAMPLE DATE		9/29/1998			10/14/1998			10/4/1998			11/9/1997 10.55			11/10/1997 9.50					
QC CODE		SA																	
STUDY ID		RI Phase 1			Step 1			RI Phase 1			Step 1			RI Phase 1			Step 1		
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N					
Bismuth-214	pCi/g	39.8	98%	48	49	1.4		2.1	+/-0.5	2.1	+/-0.4	2.3	+/-0.5	1.3	U				
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J		0.1 U		0.8 J	+/-0.3	0.3 U		0.5	U				
Cobalt-57	pCi/g	0.2	18%	9	49	0.1		0.1	+/-0.1	0.1 J	+/-0.1	0.1 U		0.1	U				
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U		0.3 J	+/-0.1	0.5 J	+/-0.2	0.1 U		0.1	U				
Lead-210	pCi/g	78.6	51%	25	49	19.4 U		4.6 J	+/-2.7	32.7 U		6.1 U		18.4	U				
Lead-211	pCi/g	12.7	24%	12	49	1.4 U		9.9 J	+/-6.6	3 U		11.6 U		5.6	U				
Lead-214	pCi/g	44.4	100%	49	49	1.3		2.1	+/-0.4	1.4	+/-0.4	1.8	+/-0.4	1.5					
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ		0.1 U	+/-0.1	0.3 UJ	+/-0.3	0.2 J	+/-0.2	0.2	J				
Promethium-147	pCi/g	0	0%	0	1			3.7 UJ	+/-5.1										
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ		0.5 U		0.5 U		0.4 U		0.4	U				
Radium-226	pCi/g	39.8	98%	48	49	1.4		2.1	+/-0.5	2.1	+/-0.4	2.3	+/-0.5	1.3	U				
Radium-228	pCi/g	3.6	96%	47	49	1.6		1.4 J	+/-0.4	2.4	+/-0.7	2	+/-0.6	1.1					
Thorium-227	pCi/g	0.4	40%	2	5							0.3	+/-0.4	0.5	U				
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U		0.9 UJ	+/-0.4	1.3 J	+/-0.5	1.2 UJ	+/-0.7	1.3	UJ				
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U		0.6	+/-0.3	0.8 J	+/-0.4	0.4 UJ	+/-0.4	0.5	UJ				
Tritium	pCi/g	53.3	53%	26	49	0.1 U		0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1	U				
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U		0.5 U	+/-0.2	1 J	+/-0.5	0.8 U	+/-0.3	0.8	U				
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U		0.1	+/-0.1	0.4 UJ	+/-0.3	0.2 U	+/-0.1	0.1	U				
Uranium-238	pCi/g	1	96%	47	49	0.5		0.7	+/-0.3	0.8 J	+/-0.4	0.5 U	+/-0.2	0.7	U				

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID						SEAD-12 MW12-10 SOIL 123007 0 0.2 9/29/1998 SA		SEAD-12 SS12-15 SOIL 123211 0 0.2 11/3/1998 SA		SEAD-12 SS12-16 SOIL 123102 0 0.2 10/13/1998 SA		SEAD-12 SS12-167 SOIL 123431 0 0.2 11/16/1998 SA		SEAD-12 SS12-168 SOIL 123363 0 0.2 11/14/1998 SA	
						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Bismuth-214	pCi/g	39.8	98%	48	49	1.4		2 J	+/-0.3	1.9 J	+/-0.4	2.6 J	+/-0.6	1.3	
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J		0.3	+/-0.2	0.4 J	+/-0.2	0.3	+/-0.1	0.1	
Cobalt-57	pCi/g	0.2	18%	9	49	0.1		0.1 U		0.1 U		0.1	+/-0.1	0.2	
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U		0.2 J	+/-0.1	0.2 J	+/-0.1	0.1 U		0.1	
Lead-210	pCi/g	78.6	51%	25	49	19.4 U		2.6 J	+/-1.5	3.3 J	+/-1.7	2 UJ		5.1	
Lead-211	pCi/g	12.7	24%	12	49	1.4 U		1.8 UJ		9.7 J	+/-7	12.7 J	+/-3	3.3	
Lead-214	pCi/g	44.4	100%	49	49	1.3	+/-0.3	2.1	+/-0.4	1.7	+/-0.4	1.5	+/-0.4	1.8	
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ	+/-0.2	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1	
Promethium-147	pCi/g	0	0%	0	1										
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ		0.5 U		0.5 U		0.5 U		0.5	
Radium-226	pCi/g	39.8	98%	48	49	1.4		2 J	+/-0.3	1.9 J	+/-0.4	2.6 J	+/-0.6	1.3	
Radium-228	pCi/g	3.6	96%	47	49	1.6	+/-0.4	1.7 J	+/-0.5	1.7	+/-0.5	3.6 J	+/-0.6	1.5	
Thorium-227	pCi/g	0.4	40%	2	5		+/-0.1								
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U	+/-0.8	0.8 UJ	+/-0.5	1 U	+/-0.4	1	+/-0.4	1.2	
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U	+/-0.5	0.7 J	+/-0.4	1.1 J	+/-0.4	1.2	+/-0.4	1.2	
Tritium	pCi/g	53.3	53%	26	49	0.1 U	+/-0.1	0.4	+/-0.1	0.2 J	+/-0.1	22.5 J	+/-0.2	21.9	
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U	+/-0.3	0.6 U	+/-0.2	0.7 UJ	+/-0.3	0.7	+/-0.2	0.6	
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2	
Uranium-238	pCi/g	1	96%	47	49	0.5	+/-0.3	0.8	+/-0.3	0.8 J	+/-0.3	0.7 J	+/-0.2	0.6	

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12															
LOCATION ID		MW12-10				SS12-169				SS12-169				SS12-17			
MATRIX		SOIL															
SAMPLE ID		123007				123396				123364				123212			
DEPTH TO TOP OF SAMPLE		0				0				0				0			
DEPTH TO BOTTOM OF SAMPLE		0.2				0.2				0.2				0.2			
SAMPLE DATE		9/29/1998				11/14/1998				11/14/1998				11/3/1998			
QC CODE		SA				DU				SA				SA			
STUDY ID		RI Phase 1				RI Phase 1				RI Phase 1				RI Phase 1			
		FREQUENCY OF DETECTION		NUMBER OF DETECTS		NUMBER OF ANALYSES		N		N		N		N			
PARAMETER	UNIT	MAXIMUM															
Bismuth-214	pCi/g	39.8	98%	48	49	1.4			+/-0.5	1.2		+/-0.3	1.7		+/-0.4		
Cesium-137	pCi/g	1.3	63%	31	49	0.2	J	U		1		+/-0.2	1.2		+/-0.3		
Cobalt-57	pCi/g	0.2	18%	9	49	0.1			+/-0.1	0.1	U		0.1	U			
Cobalt-60	pCi/g	0.5	16%	8	49	0.1	U	U		0.1	U		0.1	U			
Lead-210	pCi/g	78.6	51%	25	49	19.4	U		+/-2.5	29.5	UJ		5.1	J	+/-2.7		
Lead-211	pCi/g	12.7	24%	12	49	1.4	U	U		1.9	U		2	UJ			
Lead-214	pCi/g	44.4	100%	49	49	1.3			+/-0.4	1.5		+/-0.4	1.5		+/-0.4		
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2	UJ	UJ	+/-0.1	0.2	UJ	+/-0.1	0.1	UJ	+/-0.2		
Promethium-147	pCi/g	0	0%	0	1												
Radium-223	pCi/g	1.5	8%	4	49	0.5	UJ	U		0.4	U		0.4	U			
Radium-226	pCi/g	39.8	98%	48	49	1.4			+/-0.5	1.2	J	+/-0.3	1.7	J	+/-0.4		
Radium-228	pCi/g	3.6	96%	47	49	1.6			+/-0.5	1.7		+/-0.5	1.5		+/-0.5		
Thorium-227	pCi/g	0.4	40%	2	5												
Thorium-230	pCi/g	2.3	53%	26	49	1.2	U	U	+/-0.5	0.9	U	+/-0.4	0.7	UJ	+/-0.4		
Thorium-232	pCi/g	2.1	88%	43	49	1.1	U		+/-0.5	0.8		+/-0.3	0.8	J	+/-0.4		
Tritium	pCi/g	53.3	53%	26	49	0.1	U	J	+/-0.3	5.6	J	+/-0.2	11.1		+/-0.2		
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4	U	J	+/-0.3	0.4	J	+/-0.3	0.6	J	+/-0.3		
Uranium-235	pCi/g	0.3	24%	12	49	0.1	U	U	+/-0.1	0.2	UJ	+/-0.1	0.1	J	+/-0.1		
Uranium-238	pCi/g	1	96%	47	49	0.5			+/-0.3	0.6		+/-0.3	0.5	J	+/-0.3		

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-10 SOIL 123007		SEAD-12 SS12-170 SOIL 123365		SEAD-12 SS12-172 SOIL 123366		SEAD-12 SS12-173 SOIL 123367		SEAD-12 SS12-174 SOIL 123368	
						9/29/1998 SA	RI Phase 1 Step 1	11/14/1998 SA	RI Phase 1 Step 1	11/16/1998 SA	RI Phase 1 Step 1	11/14/1998 SA	RI Phase 1 Step 1	11/14/1998 SA	RI Phase 1 Step 1
PARAMETER															
Bismuth-214	pCi/g	39.8	98%	48	49	1.4		1.8	+/-0.6	1	J	+/-0.3	2.5	+/-0.4	1.4
Cesium-137	pCi/g	1.3	63%	31	49	0.2	J	0.1	UJ	0.8		+/-0.2	1.3	+/-0.3	0.8
Cobalt-57	pCi/g	0.2	18%	9	49	0.1		0.1	U	0.1	U		0.1	U	0.1
Cobalt-60	pCi/g	0.5	16%	8	49	0.1	U	0.1	U	0.1	U		0.1	U	0.1
Lead-210	pCi/g	78.6	51%	25	49	19.4	U	23.8	UJ	36	U		6.3	+/-3.3	33.2
Lead-211	pCi/g	12.7	24%	12	49	1.4	U	0.9	U	7.4	J	+/-2.8	2.7	U	2
Lead-214	pCi/g	44.4	100%	49	49	1.3		1.6	+/-0.3	1.3	J	+/-0.4	1.7	+/-0.5	1.2
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2	UJ	0.1	+/-0.1	0.1		+/-0.1	0.2	UJ	+/-0.2
Promethium-147	pCi/g	0	0%	0	1										
Radium-223	pCi/g	1.5	8%	4	49	0.5	UJ	0.5	U	0.4		+/-0.4	0.6	U	0.4
Radium-226	pCi/g	39.8	98%	48	49	1.4		1.8	+/-0.6	1	J	+/-0.3	2.5	+/-0.4	1.4
Radium-228	pCi/g	3.6	96%	47	49	1.6		1.5	+/-0.5	1.7	J	+/-0.5	2.5	+/-0.5	1.4
Thorium-227	pCi/g	0.4	40%	2	5										
Thorium-230	pCi/g	2.3	53%	26	49	1.2	U	1.1	J	1.4	U	+/-0.5	1	U	+/-0.4
Thorium-232	pCi/g	2.1	88%	43	49	1.1	U	0.9	J	0.7		+/-0.3	0.7	+/-0.3	0.9
Tritium	pCi/g	53.3	53%	26	49	0.1	U	2	J	53.3		+/-0.4	3.1	J	+/-0.1
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4	U	0.6	+/-0.2	0.5		+/-0.2	0.6	J	+/-0.4
Uranium-235	pCi/g	0.3	24%	12	49	0.1	U	0.1	U	0.1	U	+/-0.1	0.2	U	+/-0.1
Uranium-238	pCi/g	1	96%	47	49	0.5		0.6	J	0.6		+/-0.2	0.8	+/-0.4	0.7

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-10		SS12-175		SS12-176		SS12-177		SS12-178	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123007		123369		123370		123371		123372	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						9/29/1998		11/14/1998		11/14/1998		11/14/1998		11/14/1998	
QC CODE						SA		SA		SA		SA		SA	
STUDY ID						RI Phase 1		RI Phase 1		RI Phase 1		RI Phase 1		RI Phase 1	
						Step 1		Step 1		Step 1		Step 1		Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Bismuth-214	pCi/g	39.8	98%	48	49	1.4	+/-0.3	1.7	+/-0.5	1.3	+/-0.5	2	+/-0.5	18	
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J	+/-0.2	1.2 J	+/-0.3	0.7 J	+/-0.2	0.9 J	+/-0.3	0.7	
Cobalt-57	pCi/g	0.2	18%	9	49	0.1		0.1 U		0.1 U		0.1 U		0.1	
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U		0.1 U		0.1 U		0.1 U		0.1	
Lead-210	pCi/g	78.6	51%	25	49	19.4 U		4.1 J	+/-1.6	3.7 J	+/-1.8	5.9	+/-3.4	24.1	
Lead-211	pCi/g	12.7	24%	12	49	1.4 U		3.1 U		3.7 U		2 U		1.6	
Lead-214	pCi/g	44.4	100%	49	49	1.3	+/-0.3	1.6	+/-0.4	1.9	+/-0.5	2.6	+/-0.5	1.8	
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.3	
Promethium-147	pCi/g	0	0%	0	1										
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ		0.4 U		0.4 U		0.5 U		0.5	
Radium-226	pCi/g	39.8	98%	48	49	1.4	+/-0.3	1.7	+/-0.5	1.3	+/-0.5	2	+/-0.5	1.8	
Radium-228	pCi/g	3.6	96%	47	49	1.6	+/-0.3	1.9	+/-0.4	1	+/-0.4	1.5	+/-0.4	1.4	
Thorium-227	pCi/g	0.4	40%	2	5										
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U	+/-0.4	1.2 J	+/-0.6	0.5 U	+/-0.3	1.1	+/-0.4	1.2	
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U	+/-0.4	0.8 J	+/-0.4	0.8	+/-0.3	1	+/-0.3	0.8	
Tritium	pCi/g	53.3	53%	26	49	0.1 U	+/-0.2	0.1 UJ	+/-0.1	1 J	+/-0.1	0.8	+/-0.1	4.7	
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U	+/-0.3	0.4	+/-0.2	0.5 J	+/-0.2	0.5 U	+/-0.2	1	
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2	
Uranium-238	pCi/g	1	96%	47	49	0.5	+/-0.3	0.6 J	+/-0.2	0.5 J	+/-0.2	1	+/-0.3	1	

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-10 SOIL 123007 0 0.2 9/29/1998 SA	SEAD-12 SS12-179 SOIL 123373 0 0.2 11/14/1998 SA	SEAD-12 SS12-180 SOIL 123374 0 0.2 11/14/1998 SA	SEAD-12 SS12-181 SOIL 123375 0 0.2 11/14/1998 SA							
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI Phase 1	Step 1	tep 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	
Bismuth-214	pCi/g	39.8	98%	48	49	49	1.4			+/-0.5	1.4		+/-0.4	1.3		+/-0.4	2.1		+/-0.5
Cesium-137	pCi/g	1.3	63%	31	49	49	0.2 J			+/-0.2	0.3 J		+/-0.1	0.4 J		+/-0.1	0.1 U		
Cobalt-57	pCi/g	0.2	18%	9	49	49	0.1	U			0.1 U			0.1 U			0.1	U	+/-0.1
Cobalt-60	pCi/g	0.5	16%	8	49	49	0.1 U	U			0.1 U			0.1 U			0.1 U		
Lead-210	pCi/g	78.6	51%	25	49	49	19.4 U	U			38.6 J		+/-32.4	3.5 J		+/-2.1	2.9		+/-1.6
Lead-211	pCi/g	12.7	24%	12	49	49	1.4 U	U			0.8 U			1.6 U			3.1 U		
Lead-214	pCi/g	44.4	100%	49	49	49	1.3			+/-0.3	1.2		+/-0.3	1.6		+/-0.3	1.5		+/-0.4
Plutonium-239/240	pCi/g	0.2	27%	13	49	49	0.2 UJ	UJ			0.1		+/-0.1	0.1 U		+/-0.1	0.2 UJ		+/-0.1
Promethium-147	pCi/g	0	0%	0	1														
Radium-223	pCi/g	1.5	8%	4	49	49	0.5 UJ	U			0.4 U			0.3 U			0.5 U		
Radium-226	pCi/g	39.8	98%	48	49	49	1.4			+/-0.5	1.4		+/-0.4	1.3		+/-0.4	2.1		+/-0.5
Radium-228	pCi/g	3.6	96%	47	49	49	1.6			+/-0.3	1.6		+/-0.5	1.4		+/-0.3	2.2		+/-0.5
Thorium-227	pCi/g	0.4	40%	2	5														
Thorium-230	pCi/g	2.3	53%	26	49	49	1.2 U	U		+/-0.4	1.4 J		+/-0.6	0.9		+/-0.3	0.7 U		+/-0.3
Thorium-232	pCi/g	2.1	88%	43	49	49	1.1 U			+/-0.3	1.5 J		+/-0.6	0.7		+/-0.3	0.7		+/-0.3
Tritium	pCi/g	53.3	53%	26	49	49	0.1 U	J		+/-0.1	0.2 J		+/-0.1	19.4 J		+/-0.2	5.5 J		+/-0.1
Uranium-233/234	pCi/g	1.4	76%	37	49	49	0.4 U	J		+/-0.5	1		+/-0.3	0.8		+/-0.2	0.5 J		+/-0.3
Uranium-235	pCi/g	0.3	24%	12	49	49	0.1 U			+/-0.2	0.1 U		+/-0.1	0.1 U		+/-0.1	0.3		+/-0.2
Uranium-238	pCi/g	1	96%	47	49	49	0.5			+/-0.5	0.9 J		+/-0.3	0.7 J		+/-0.2	0.6		+/-0.3

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-10 SOIL		SEAD-12 SS12-182 SOIL		SEAD-12 SS12-183 SOIL		SEAD-12 SS12-184 SOIL		SEAD-12 SS12-185 SOIL	
						9/29/1998 SA	11/14/1998 SA	11/17/1998 SA	11/14/1998 SA	11/14/1998 SA	11/14/1998 SA				
						RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Bismuth-214	pCi/g	39.8	98%	48	49	1.4		1.8	+/-0.4	2.9 J	+/-0.5	1.2	+/-0.2	2.3	
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J		0.1 UJ		0.6	+/-0.4	0.4 J	+/-0.1	0.1 U	
Cobalt-57	pCi/g	0.2	18%	9	49	0.1		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	78.6	51%	25	49	19.4 U		25.7 U		2.9 U		15.4 UJ		4.6	
Lead-211	pCi/g	12.7	24%	12	49	1.4 U		1.4 U		2.5 UJ		1.1 U		3.1 U	
Lead-214	pCi/g	44.4	100%	49	49	1.3		1.6	+/-0.3	1.8 J	+/-0.4	1.4	+/-0.3	1.7	
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ		0.1 U	+/-0.2	0.1	+/-0.1	0.2 U	+/-0.1	0.4 UJ	
Promethium-147	pCi/g	0	0%	0	1										
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ		0.3 U		0.6 U		0.3 U		0.4 U	
Radium-226	pCi/g	39.8	98%	48	49	1.4		1.8	+/-0.4	2.9 J	+/-0.5	1.2	+/-0.2	2.3	
Radium-228	pCi/g	3.6	96%	47	49	1.6		0.4 U		2.4 J	+/-0.6	1.6	+/-0.4	2	
Thorium-227	pCi/g	0.4	40%	2	5										
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U		1	+/-0.4	1.3 U	+/-0.4	1	+/-0.4	1.1 U	
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U		0.7	+/-0.3	1.2	+/-0.4	0.7	+/-0.3	0.9	
Tritium	pCi/g	53.3	53%	26	49	0.1 U		0.1 U	+/-0.1	0.1 U	+/-0.1	1.5 J	+/-0.1	11.4 J	
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U		0.5 U	+/-0.2	0.5 J	+/-0.2	0.6	+/-0.2	0.3 J	
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U		0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 U	
Uranium-238	pCi/g	1	96%	47	49	0.5		0.7	+/-0.2	0.7 J	+/-0.2	0.5 J	+/-0.2	0.5	

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID		SEAD-12 MW12-10 SOIL 123007 0 0.2 9/29/1998 SA		SEAD-12 SS12-186 SOIL 123380 0 0.2 11/14/1998 SA		SEAD-12 SS12-187 SOIL 123381 0 0.2 11/14/1998 SA		SEAD-12 SS12-188 SOIL 123382 0 0.2 11/14/1998 SA		SEAD-12 SS12-189 SOIL 123383 0 0.2 11/14/1998 SA									
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1		
Bismuth-214	pCi/g	39.8	98%	48	49	49	1.4		+/-0.5	1.2		+/-0.3	2.1		+/-0.4	1.7		+/-0.3	1.5
Cesium-137	pCi/g	1.3	63%	31	49	49	0.2 J			0.1 U			0.4 J		+/-0.3	0.1 UJ			0.1
Cobalt-57	pCi/g	0.2	18%	9	49	49	0.1			0.1 U			0.1 U			0.1 U			0.1
Cobalt-60	pCi/g	0.5	16%	8	49	49	0.1 U			0.1 U			0.1 U			0.1 U			0.1
Lead-210	pCi/g	78.6	51%	25	49	49	19.4 U		+/-2.4	26.7 U			5.5 J		+/-2.7	41.4 J		+/-33.8	5
Lead-211	pCi/g	12.7	24%	12	49	49	1.4 U			0.7 U			2.8 U			1.3 U			9.6
Lead-214	pCi/g	44.4	100%	49	49	49	1.3		+/-0.4	1.4		+/-0.2	2.5		+/-0.5	1.3		+/-0.2	2.1
Plutonium-239/240	pCi/g	0.2	27%	13	49	49	0.2 UJ		+/-0.1	0.4 UJ		+/-0.1	0.1		+/-0.1	0.1		+/-0.1	0.2
Promethium-147	pCi/g	0	0%	0	1	1													
Radium-223	pCi/g	1.5	8%	4	49	49	0.5 UJ			0.4 U			0.5 U			0.4 U			0.4
Radium-226	pCi/g	39.8	98%	48	49	49	1.4		+/-0.5	1.2		+/-0.3	2.1		+/-0.4	1.7		+/-0.3	1.5
Radium-228	pCi/g	3.6	96%	47	49	49	1.6		+/-0.5	1.6		+/-0.5	1.7		+/-0.4	1.8		+/-0.5	2
Thorium-227	pCi/g	0.4	40%	2	5	5													
Thorium-230	pCi/g	2.3	53%	26	49	49	1.2 U		+/-0.4	0.5 U		+/-0.3	1		+/-0.4	0.9		+/-0.3	1.4
Thorium-232	pCi/g	2.1	88%	43	49	49	1.1 U		+/-0.3	0.8		+/-0.3	0.9		+/-0.3	0.9		+/-0.3	1.1
Tritium	pCi/g	53.3	53%	26	49	49	0.1 U		+/-0.2	0.1 U		+/-0.1	10 J		+/-0.2	0.2 J		+/-0.1	0.1
Uranium-233/234	pCi/g	1.4	76%	37	49	49	0.4 U		+/-0.2	0.8 J		+/-0.4	0.7		+/-0.2	0.7		+/-0.3	0.7
Uranium-235	pCi/g	0.3	24%	12	49	49	0.1 U		+/-0.1	0.2 U		+/-0.1	0.1 U		+/-0.1	0.1		+/-0.1	0.1
Uranium-238	pCi/g	1	96%	47	49	49	0.5		+/-0.3	0.5		+/-0.3	0.9 J		+/-0.3	1 J		+/-0.3	0.7



TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	RI Phase 1	Step 1	tep 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1	N	RI Phase 1	Step 1
	SEAD-12		123007	0	0.2	9/29/1998																		
	SEAD-12		123384	0	0.2	11/14/1998																		
	SEAD-12		123385	0	0.2	11/14/1998																		
	SEAD-12		123386	0	0.2	11/14/1998																		
PARAMETER	UNIT	MAXIMUM																						
Bismuth-214	pCi/g	39.8	98%	48	49	1.4																		
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J																		
Cobalt-57	pCi/g	0.2	18%	9	49	0.1																		
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U																		
Lead-210	pCi/g	78.6	51%	25	49	19.4 U																		
Lead-211	pCi/g	12.7	24%	12	49	1.4 U																		
Lead-214	pCi/g	44.4	100%	49	49	1.3																		
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ																		
Promethium-147	pCi/g	0	0%	0	1																			
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ																		
Radium-226	pCi/g	39.8	98%	48	49	1.4																		
Radium-228	pCi/g	3.6	96%	47	49	1.6																		
Thorium-227	pCi/g	0.4	40%	2	5																			
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U																		
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U																		
Tritium	pCi/g	53.3	53%	26	49	0.1 U																		
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U																		
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U																		
Uranium-238	pCi/g	1	96%	47	49	0.5																		

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID				SEAD-12 MW12-10 SOIL	SEAD-12 SS12-193 SOIL	SEAD-12 SS12-194 SOIL	SEAD-12 SS12-195 SOIL	SEAD-12 SS12-196 SOIL			
MATRIX	SAMPLE ID				123007	123387	123388	123389	123390			
DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE				0	0	0	0	0			
SAMPLE DATE	QC CODE				9/29/1998	11/14/1998	11/14/1998	11/16/1998	11/14/1998			
STUDY ID					SA	SA	SA	SA	SA			
			FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMU			N	N	N	N	N			
Bismuth-214	pCi/g	39.8	98%	48	49	1.4	3.1	+/-0.7	1.3	+/-0.3	1.5	1.5
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J	0.6 J	+/-0.2	0.1 UJ		0.1 U	0.5 J
Cobalt-57	pCi/g	0.2	18%	9	49	0.1	0.1 U		0.1 U		0.2	0.1 U
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U	0.1 U		0.1 U		0.1 U	0.1 U
Lead-210	pCi/g	78.6	51%	25	49	19.4 U	2.5 U		21.8 U		39.1 U	3.4 J
Lead-211	pCi/g	12.7	24%	12	49	1.4 U	4.7	+/-4.7	0.8 U		2.7 UJ	2.2 U
Lead-214	pCi/g	44.4	100%	49	49	1.3	2.8	+/-0.6	1.5	+/-0.3	1.2 J	1.6
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ	0.2 U	+/-0.1	0.1 U	+/-0.1	0.2 U	0.2 U
Promethium-147	pCi/g	0	0%	0	1							
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ	0.5 U		0.4 U		0.5 U	0.4 U
Radium-226	pCi/g	39.8	98%	48	49	1.4	3.1	+/-0.7	1.3	+/-0.3	1.5 J	1.5
Radium-228	pCi/g	3.6	96%	47	49	1.6	1.9	+/-0.6	3.2	+/-0.7	1.6 J	1.6
Thorium-227	pCi/g	0.4	40%	2	5							
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U	0.9	+/-0.3	0.9	+/-0.3	1 U	1.3
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U	1	+/-0.4	0.6	+/-0.2	0.7	0.7
Tritium	pCi/g	53.3	53%	26	49	0.1 U	0.1 U	+/-0.1	0.1 U	+/-0.1	20.5	0.1 UJ
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U	0.5 U	+/-0.2	0.6 UJ	+/-0.2	0.5	0.4 J
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	0.1 J
Uranium-238	pCi/g	1	96%	47	49	0.5	0.3	+/-0.1	0.6 J	+/-0.2	0.7	0.6 J

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12																			
LOCATION ID		MW12-10				SS12-197				SS12-198				SS12-199				SS12-200			
MATRIX		SOIL																			
SAMPLE ID		123007				123391				123392				123393				123394			
DEPTH TO TOP OF SAMPLE		0																			
DEPTH TO BOTTOM OF SAMPLE		0.2																			
SAMPLE DATE		9/29/1998				11/14/1998				11/14/1998				11/14/1998				11/14/1998			
QC CODE		SA																			
STUDY ID		RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N				N				N				N			
Bismuth-214	pCi/g	39.8	98%	48	49	1.4		+/-0.3		1.2		+/-0.3		1.1		+/-0.3		1.6		+/-0.3	1.9
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J		+/-0.2		0.5 J		+/-0.1		0.5 J		+/-0.1		0.5 J		+/-0.1	1
Cobalt-57	pCi/g	0.2	18%	9	49	0.1				0.1 U				0.1 U				0.1 U			0.1
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U				0.1 U				0.1 U				0.1 U			0.1
Lead-210	pCi/g	78.6	51%	25	49	19.4 U		+/-1.6		24.2 UJ				3.7 J		+/-2.1		26.2 UJ			3.3
Lead-211	pCi/g	12.7	24%	12	49	1.4 U				0.6 U				2.7 U				4.3		+/-2.1	0.8
Lead-214	pCi/g	44.4	100%	49	49	1.3		+/-0.3		1.3		+/-0.3		1.3		+/-0.3		1.2		+/-0.2	1.5
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ		+/-0.1		0.1		+/-0.1		0.1 U		+/-0.1		0.1		+/-0.1	0.2
Promethium-147	pCi/g	0	0%	0	1																
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ				0.4 U				0.4 U				0.3 U			0.4
Radium-226	pCi/g	39.8	98%	48	49	1.4		+/-0.3		1.2		+/-0.3		1.1		+/-0.3		1.6		+/-0.3	1.9
Radium-228	pCi/g	3.6	96%	47	49	1.6		+/-0.5		1.6		+/-0.4		1.3		+/-0.3		1.4		+/-0.4	1.4
Thorium-227	pCi/g	0.4	40%	2	5																
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U		+/-0.4		0.9 J		+/-0.4		1.2		+/-0.5		1.3 J		+/-0.5	1.2
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U		+/-0.3		0.9 J		+/-0.4		0.6		+/-0.3		1.4 J		+/-0.6	1.3
Tritium	pCi/g	53.3	53%	26	49	0.1 U		+/-0.1		0.1 UJ		+/-0.1		24.1 J		+/-0.2		1.9 J		+/-0.1	0.5
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U		+/-0.2		0.9		+/-0.3		0.6		+/-0.2		0.6		+/-0.2	0.6
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U		+/-0.1		0.1 U		+/-0.1		0.1 U		+/-0.1		0.1		+/-0.1	0.1
Uranium-238	pCi/g	1	96%	47	49	0.5		+/-0.2		0.6 J		+/-0.2		0.6 J		+/-0.2		0.6 J		+/-0.2	0.8

TABLE G-24  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12			
LOCATION ID						MW12-10			
MATRIX						SOIL			
SAMPLE ID						123007			
DEPTH TO TOP OF SAMPLE						0			
DEPTH TO BOTTOM OF SAMPLE						0.2			
SAMPLE DATE						9/29/1998			
QC CODE						SA			
STUDY ID						RI Phase 1	Step 1	tep 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N			
Bismuth-214	pCi/g	39.8	98%	48	49	1.4			+/-0.4
Cesium-137	pCi/g	1.3	63%	31	49	0.2 J	J		+/-0.1
Cobalt-57	pCi/g	0.2	18%	9	49	0.1			+/-0.1
Cobalt-60	pCi/g	0.5	16%	8	49	0.1 U	U		
Lead-210	pCi/g	78.6	51%	25	49	19.4 U	J		+/-1.4
Lead-211	pCi/g	12.7	24%	12	49	1.4 U	U		
Lead-214	pCi/g	44.4	100%	49	49	1.3			+/-0.4
Plutonium-239/240	pCi/g	0.2	27%	13	49	0.2 UJ	U		+/-0.1
Promethium-147	pCi/g	0	0%	0	1				
Radium-223	pCi/g	1.5	8%	4	49	0.5 UJ	U		
Radium-226	pCi/g	39.8	98%	48	49	1.4			+/-0.4
Radium-228	pCi/g	3.6	96%	47	49	1.6			+/-0.4
Thorium-227	pCi/g	0.4	40%	2	5				
Thorium-230	pCi/g	2.3	53%	26	49	1.2 U	J		+/-0.5
Thorium-232	pCi/g	2.1	88%	43	49	1.1 U	J		+/-0.5
Tritium	pCi/g	53.3	53%	26	49	0.1 U	J		+/-0.1
Uranium-233/234	pCi/g	1.4	76%	37	49	0.4 U			+/-0.3
Uranium-235	pCi/g	0.3	24%	12	49	0.1 U			+/-0.1
Uranium-238	pCi/g	1	96%	47	49	0.5	J		+/-0.3



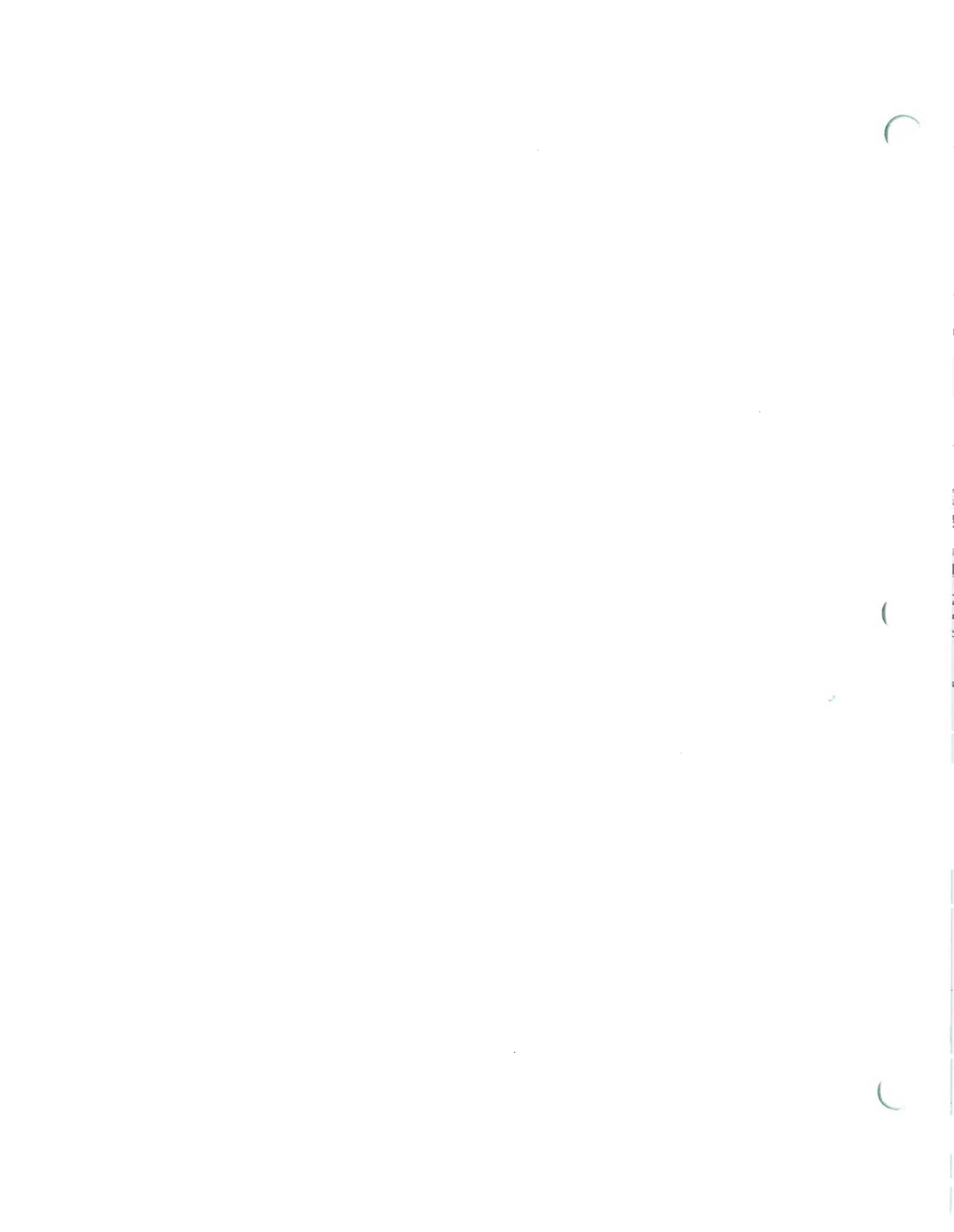


TABLE G-25  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 MW12-10 SOIL	SEAD-12 MW12-10 SOIL	SEAD-12 MW12-11 SOIL	SEAD-12 MW12-11 SOIL	SEAD-12 MW12-12 SOIL
									123008	123009	123011	123012	123014
									4	8	4	8	4
									57	98	56	10	6
									9/29/1998	9/29/1998	9/29/1998	9/29/1998	9/30/1998
									SA	SA	SA	SA	SA
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N			N		N		N
Actinium-228	pCi/g	0.91	100%	4	4								
Bismuth-214	pCi/g	25	96%	27	28	2.8	+/-0.6	1.5	+/-0.4	1.3	+/-0.3	2	+/-0.5
Cesium-137	pCi/g	0.4	58%	14	24	0.1 UJ		0.1 J	+/-0.1	0.1 J	+/-0.1	0.4 J	+/-0.3
Cobalt-57	pCi/g	0.3	38%	9	24	0.1	+/-0.1	0.1	+/-0.1	0.1 U		0.1 U	
Cobalt-60	pCi/g	0.6	50%	12	24	0.5	+/-0.1	0.1 U		0.1 U		0.3	+/-0.1
Gross Alpha	pCi/g	74	100%	4	4								
Gross Beta	pCi/g	52	100%	4	4								
Lead-210	pCi/g	20.4	63%	15	24	5.6	+/-3.4	16 U		19.5	+/-18.2	5.3	+/-3
Lead-211	pCi/g	13.4	38%	9	24	6.6	+/-2.7	3.7	+/-2.9	5.9	+/-2.2	2.6 U	+/-0.4
Lead-214	pCi/g	25	100%	28	28	2	+/-0.5	1	+/-0.3	1.4	+/-0.3	1.8	+/-0.4
Plutonium-239/240	pCi/g	0.2	8%	2	24	0.1 UJ	+/-0.1	0.3 UJ	+/-0.1	0.3 UJ	+/-0.2	0.1 UJ	+/-0.2
Promethium-147	pCi/g	0	0%	0	2								
Radium-223	pCi/g	2.1	17%	4	24	0.5 UJ		0.4 UJ		0.4 J	+/-0.3	0.5 UJ	
Radium-226	pCi/g	2.8	96%	23	24	2.8	+/-0.6	1.5	+/-0.4	1.3	+/-0.3	2	+/-0.5
Radium-228	pCi/g	2.5	100%	24	24	1.8	+/-0.6	1.4	+/-0.4	1.3	+/-0.5	1.9	+/-0.5
Thallium-208	pCi/g	0.88	100%	4	4								
Thorium-227	pCi/g	0.3	50%	3	6								
Thorium-230	pCi/g	1.7	38%	9	24	1.4 U	+/-0.5	1.3 UJ	+/-0.7	1.9 U	+/-0.6	1.4 UJ	+/-0.6
Thorium-232	pCi/g	1.2	63%	15	24	1 U	+/-0.4	0.4 UJ	+/-0.3	1 U	+/-0.4	1.6 UJ	+/-0.6
Thorium-234	pCi/g	1.6	100%	4	4								
Tritium	pCi/g	0	0%	0	24	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-233/234	pCi/g	1	67%	16	24	0.5 U	+/-0.2	0.6	+/-0.2	0.8	+/-0.3	0.9	+/-0.3
Uranium-235	pCi/g	0.1	25%	6	24	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.2	83%	20	24	0.4	+/-0.2	0.7	+/-0.2	0.7	+/-0.2	1.2	+/-0.3

TABLE G-25  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-12 SOIL 123015 9 11 9/30/1998 SA		SEAD-12 MW12-13 SOIL 123017 4 6 10/1/1998 SA		SEAD-12 MW12-13 SOIL 123018 8 9.6 10/1/1998 SA		SEAD-12 MW12-8 SOIL 123184 4 6 10/28/1998 SA		SEAD-12 MW12-8 SOIL 123185 8 10 10/28/1998 SA	
						RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER						N		N		N		N		N	
Actinium-228	pCi/g	0.91	100%	4	4										
Bismuth-214	pCi/g	25	96%	27	28	+/-0.5	1.7	+/-0.4	1.2	+/-0.2	2.8	+/-0.4	2.1	+/-0.5	1.5
Cesium-137	pCi/g	0.4	58%	14	24		0.3 J	+/-0.1	0.1 J	+/-0.1	0.1 UJ	+/-0.1	0.4	+/-0.2	0.1
Cobalt-57	pCi/g	0.3	38%	9	24	+/-0.2	0.1	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1 U		0.1
Cobalt-60	pCi/g	0.6	50%	12	24	+/-0.1	0.2	+/-0.1	0.1 U		0.6	+/-0.2	0.3	+/-0.1	0.1
Gross Alpha	pCi/g	74	100%	4	4										
Gross Beta	pCi/g	52	100%	4	4										
Lead-210	pCi/g	20.4	63%	15	24		32.2 U		20.4	+/-18	3.6	+/-1.6	3.2 J	+/-2.8	4.5
Lead-211	pCi/g	13.4	38%	9	24		13.4	+/-7.6	6.8	+/-2.1	12.5	+/-5.3	1.7	+/-1	2.1
Lead-214	pCi/g	25	100%	28	28	+/-0.5	1.5	+/-0.4	1	+/-0.2	2	+/-0.5	1.7	+/-0.4	1.7
Plutonium-239/240	pCi/g	0.2	8%	2	24	+/-0.1	0.2 U	+/-0.1	0.2 UJ	+/-0.2	0.2 UJ	+/-0.2	0.1 U	+/-0.1	0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	2.1	17%	4	24		0.6 UJ		0.3 UJ		1.3 J	+/-0.6	0.4 U		0.4
Radium-226	pCi/g	2.8	96%	23	24	+/-0.5	1.7	+/-0.4	1.2	+/-0.2	2.8	+/-0.4	2.1	+/-0.5	1.5
Radium-228	pCi/g	2.5	100%	24	24	+/-0.7	2.1	+/-0.6	0.7	+/-0.3	2.5	+/-0.5	1.3 J	+/-0.4	1.9
Thallium-208	pCi/g	0.88	100%	4	4										
Thorium-227	pCi/g	0.3	50%	3	6										
Thorium-230	pCi/g	1.7	38%	9	24	+/-0.6	1.1 U	+/-0.4	0.6 UJ	+/-0.3	1.3 UJ	+/-0.5	0.9 J	+/-0.6	0.7
Thorium-232	pCi/g	1.2	63%	15	24	+/-0.5	1.2 U	+/-0.4	0.7 UJ	+/-0.3	1.1 UJ	+/-0.5	0.5	+/-0.4	0.8
Thorium-234	pCi/g	1.6	100%	4	4										
Tritium	pCi/g	0	0%	0	24	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1
Uranium-233/234	pCi/g	1	67%	16	24	+/-0.2	0.6	+/-0.2	0.4 U	+/-0.2	1	+/-0.3	0.5	+/-0.2	0.7
Uranium-235	pCi/g	0.1	25%	6	24	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1
Uranium-238	pCi/g	1.2	83%	20	24	+/-0.2	1	+/-0.3	0.3	+/-0.2	0.9	+/-0.3	0.5	+/-0.2	0.7



TABLE G-25  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL	SEAD-12 SB12-2 SOIL
								12532	123113	12533	123114
								0.2	6	8	10
								2	8	10	12
								11/10/1997 10:55	10/14/1998	11/10/1997 12:15	10/14/1998
								SA	SA	SA	SA
								RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	Step 1		N	N	N	N
Actinium-228	pCi/g	0.91	100%	4	4						
Bismuth-214	pCi/g	25	96%	27	28		+/-0.4	2.4	+/-0.3	1.3	1.5 U
Cesium-137	pCi/g	0.4	58%	14	24 U			0.2 U	+/-0.1	0.2	0.2 U
Cobalt-57	pCi/g	0.3	38%	9	24 U			0.1 U	+/-0.1	0.1	0.1 U
Cobalt-60	pCi/g	0.6	50%	12	24 U			0.1 U	+/-0.2	0.6 J	0.3 U
Gross Alpha	pCi/g	74	100%	4	4						
Gross Beta	pCi/g	52	100%	4	4						
Lead-210	pCi/g	20.4	63%	15	24 J		+/-2.1	2.9 U		4.5 J	40.8 U
Lead-211	pCi/g	13.4	38%	9	24 U			2 U		0.8 UJ	5.4 U
Lead-214	pCi/g	25	100%	28	28		+/-0.4	3	+/-0.5	1.2	1.1
Plutonium-239/240	pCi/g	0.2	8%	2	24 U		+/-0.1	0.1 U	+/-0.1	0.1 U	0.2
Promethium-147	pCi/g	0	0%	0	2					3.9 UJ	+/-5.1
Radium-223	pCi/g	2.1	17%	4	24 U			0.4 U	+/-0.4	0.7	0.3 U
Radium-226	pCi/g	2.8	96%	23	24		+/-0.4	2.4	+/-0.3	1.3	1.5 U
Radium-228	pCi/g	2.5	100%	24	24 J		+/-0.4	1.6	+/-0.5	1.6 J	1.6
Thallium-208	pCi/g	0.88	100%	4	4						+/-0.5
Thorium-227	pCi/g	0.3	50%	3	6			0.1 J	+/-0.2		0.3 UJ
Thorium-230	pCi/g	1.7	38%	9	24 J		+/-0.5	1.7 J	+/-0.9	1 U	0.6 J
Thorium-232	pCi/g	1.2	63%	15	24		+/-0.5	0.5 J	+/-0.4	0.9	1.1 J
Thorium-234	pCi/g	1.6	100%	4	4						+/-0.7
Tritium	pCi/g	0	0%	0	24 UJ		+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	0.1 UJ
Uranium-233/234	pCi/g	1	67%	16	24		+/-0.2	0.7	+/-0.3	0.7	0.7
Uranium-235	pCi/g	0.1	25%	6	24 U		+/-0.1	0.1	+/-0.1	0.1 U	0.1
Uranium-238	pCi/g	1.2	83%	20	24		+/-0.2	0.8	+/-0.3	0.8	0.6



TABLE G-25  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-1A SOIL	SEAD-12 TP12-1B SOIL	SEAD-12 TP12-1C SOIL	SEAD-12 TP12-2A SOIL
												123142	123143	123144	123145
												0.5	3	6	3
												0.5	3	6	3
												10/16/1998	10/16/1998	10/16/1998	10/16/1998
												SA	SA	SA	SA
												RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMU										N	N	N	N
Actinium-228	pCi/g	0.91	100%	4	4										
Bismuth-214	pCi/g	25	96%	27	28	+/-0.4	2.4 J	+/-0.5	1.8 J	+/-0.4	1.9 J	+/-0.5	1.7 J		
Cesium-137	pCi/g	0.4	58%	14	24 U		0.3	+/-0.1	0.4	+/-0.1	0.3	+/-0.2	0.2 J		
Cobalt-57	pCi/g	0.3	38%	9	24 U		0.1 U		0.1 U	+/-0.1	0.1	+/-0.1	0.1 U		
Cobalt-60	pCi/g	0.6	50%	12	24 U		0.1 UJ		0.1 UJ		0.6 J	+/-0.2	0.2 J		
Gross Alpha	pCi/g	74	100%	4	4										
Gross Beta	pCi/g	52	100%	4	4										
Lead-210	pCi/g	20.4	63%	15	24 U		3.3	+/-2.2	4.9	+/-3	4.2	+/-4	6.2		
Lead-211	pCi/g	13.4	38%	9	24 U		2.1 UJ		0.7 UJ		1.8 UJ		6 J		
Lead-214	pCi/g	25	100%	28	28	+/-0.3	1.7	+/-0.5	1.9	+/-0.4	1.9	+/-0.5	1.2		
Plutonium-239/240	pCi/g	0.2	8%	2	24 UJ	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U		
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	2.1	17%	4	24 U		0.5 U		0.5 U		0.5 U		0.5 U		
Radium-226	pCi/g	2.8	96%	23	24	+/-0.4	2.4 J	+/-0.5	1.8 J	+/-0.4	1.9 J	+/-0.5	1.7 J		
Radium-228	pCi/g	2.5	100%	24	24	+/-0.4	1.2	+/-0.4	1.8	+/-0.5	2.3	+/-0.7	2.1		
Thallium-208	pCi/g	0.88	100%	4	4										
Thorium-227	pCi/g	0.3	50%	3	6 UJ	+/-0.3			0.8 J	+/-0.3	0.8 J	+/-0.3	1 J		
Thorium-230	pCi/g	1.7	38%	9	24 UJ	+/-0.8	1.1 J	+/-0.4	0.7 J	+/-0.3	0.8 J	+/-0.3	0.9 J		
Thorium-232	pCi/g	1.2	63%	15	24 UJ	+/-0.5	0.6 J	+/-0.2	0.7 J	+/-0.3	0.8 J	+/-0.3	0.9 J		
Thorium-234	pCi/g	1.6	100%	4	4										
Tritium	pCi/g	0	0%	0	24 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U		
Uranium-233/234	pCi/g	1	67%	16	24 UJ	+/-0.3	0.7 J	+/-0.2	0.5	+/-0.2	0.8	+/-0.3	0.6 J		
Uranium-235	pCi/g	0.1	25%	6	24 UJ	+/-0.1	0.1 J	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U		
Uranium-238	pCi/g	1.2	83%	20	24 UJ	+/-0.2	0.4 J	+/-0.2	0.8 J	+/-0.2	0.6 J	+/-0.2	0.5 J		

TABLE G-25  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 TP12-2B SOIL 123146 3.5 3.5 10/16/1998 SA RI Phase 1 Step 1	SEAD-12 TP12-2C SOIL 123147 6 6 10/16/1998 SA RI Phase 1 Step 1	SEAD-12 TP12A-1 SOIL TP12A-1-1 2.5 2.5 6/24/1994 SA ESI	SEAD-12 TP12A-1 SOIL TP12A-1-2 3 3 6/24/1994 SA ESI	SEAD-12 TP12A-2 SOIL TP12A-2- 5 5 6/22/1994 SA ESI
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N	N	N	N	N	N	N	N
Actinium-228	pCi/g	0.91	100%	4	4				0.74				
Bismuth-214	pCi/g	25	96%	27	28 +/-0.4	1.9 J	+/-0.5	2.2 J	+/-0.5	+/-0.33	0.91	+/-0.34	0.81
Cesium-137	pCi/g	0.4	58%	14	24 +/-0.1	0.2	+/-0.2	0.3	+/-0.2	+/-0.8	25	+/-2	1.8
Cobalt-57	pCi/g	0.3	38%	9	24	0.1 U		0.1 U					
Cobalt-60	pCi/g	0.6	50%	12	24 +/-0.1	0.2 J	+/-0.1	0.2 J	+/-0.1				
Gross Alpha	pCi/g	74	100%	4	4					17	+/-8	74	+/-14
Gross Beta	pCi/g	52	100%	4	4					33	+/-6	52	+/-7
Lead-210	pCi/g	20.4	63%	15	24 +/-3.2	5.5	+/-2.8	5.9	+/-2.7				
Lead-211	pCi/g	13.4	38%	9	24 +/-2.4	5.3 J	+/-4.3	1.9 UJ					
Lead-214	pCi/g	25	100%	28	28 +/-0.5	1.5	+/-0.6	1.5	+/-0.4	6.9	+/-0.8	25	+/-2
Plutonium-239/240	pCi/g	0.2	8%	2	24 +/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1				1.9
Promethium-147	pCi/g	0	0%	0	2								
Radium-223	pCi/g	2.1	17%	4	24	0.5 U		0.5 U					
Radium-226	pCi/g	2.8	96%	23	24 +/-0.4	1.9 J	+/-0.5	2.2 J	+/-0.5				
Radium-228	pCi/g	2.5	100%	24	24 +/-0.5	1.9	+/-0.6	1.4	+/-0.6				
Thallium-208	pCi/g	0.88	100%	4	4					0.43	+/-0.27	0.88	+/-1.4
Thorium-227	pCi/g	0.3	50%	3	6								
Thorium-230	pCi/g	1.7	38%	9	24 +/-0.3	0.9 J	+/-0.3	0.6 UJ	+/-0.2				
Thorium-232	pCi/g	1.2	63%	15	24 +/-0.3	0.7 J	+/-0.3	0.9 J	+/-0.3				
Thorium-234	pCi/g	1.6	100%	4	4					0.91	+/-0.48	1.6	+/-0.6
Tritium	pCi/g	0	0%	0	24 +/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1				
Uranium-233/234	pCi/g	1	67%	16	24 +/-0.2	0.6	+/-0.2	0.6 J	+/-0.2				
Uranium-235	pCi/g	0.1	25%	6	24 +/-0.1	0.1	+/-0.1	0.1 U	+/-0.1				
Uranium-238	pCi/g	1.2	83%	20	24 +/-0.2	0.8 J	+/-0.2	0.6 J	+/-0.2				

TABLE G-25  
DISPOSAL PIT A/B RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

			FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES			
FACILITY								
LOCATION ID							SEAD-12	
MATRIX							TP12A-2	
SAMPLE ID							SOIL	
DEPTH TO TOP OF SAMPLE							TP12A-2-1	
DEPTH TO BOTTOM OF SAMPLE							6	
SAMPLE DATE							6	
QC CODE							6/22/1994	
STUDY ID							SA	
							ESI	
PARAMETER	UNIT	MAXIMU					N	
Actinium-228	pCi/g	0.91	100%	4	4	+/-0.27	0.84	+/-0.23
Bismuth-214	pCi/g	25	96%	27	28	+/-0.2	1.7	+/-0.3
Cesium-137	pCi/g	0.4	58%	14	24			
Cobalt-57	pCi/g	0.3	38%	9	24			
Cobalt-60	pCi/g	0.6	50%	12	24			
Gross Alpha	pCi/g	74	100%	4	4	+/-7	21	+/-7
Gross Beta	pCi/g	52	100%	4	4	+/-6	28	+/-6
Lead-210	pCi/g	20.4	63%	15	24			
Lead-211	pCi/g	13.4	38%	9	24			
Lead-214	pCi/g	25	100%	28	28	+/-0.2	1.6	+/-0.2
Plutonium-239/240	pCi/g	0.2	8%	2	24			
Promethium-147	pCi/g	0	0%	0	2			
Radium-223	pCi/g	2.1	17%	4	24			
Radium-226	pCi/g	2.8	96%	23	24			
Radium-228	pCi/g	2.5	100%	24	24			
Thallium-208	pCi/g	0.88	100%	4	4	+/-0.74	0.35	+/-0.21
Thorium-227	pCi/g	0.3	50%	3	6			
Thorium-230	pCi/g	1.7	38%	9	24			
Thorium-232	pCi/g	1.2	63%	15	24			
Thorium-234	pCi/g	1.6	100%	4	4	+/-0.43	0.31	+/-0.29
Tritium	pCi/g	0	0%	0	24			
Uranium-233/234	pCi/g	1	67%	16	24			
Uranium-235	pCi/g	0.1	25%	6	24			
Uranium-238	pCi/g	1.2	83%	20	24			

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for the company's financial health and for providing reliable information to stakeholders.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps from identifying a transaction to entering it into the accounting system, ensuring that all necessary details are captured.

3. The third part of the document addresses the issue of reconciling accounts. It explains how to compare the company's records with bank statements and other external sources to identify and resolve any discrepancies.

4. The fourth part of the document discusses the role of internal controls in preventing errors and fraud. It highlights the importance of segregation of duties and regular audits to ensure the integrity of the financial data.

5. The fifth part of the document concludes by summarizing the key points and reiterating the commitment to high standards of financial reporting and transparency.

Accounting Department  
123 Main Street  
City, State, ZIP







TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-14		MW12-15		MW12-33		MW12-34		MW12-7	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE DATE						123099		123028		123195		123198		123180	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						14-Oct-98		01-Oct-98		31-Oct-98		31-Oct-98		28-Oct-98	
QC CODE						SA		SA		SA		SA		SA	
STUDY ID						FREQUENCY		NUMBER		NUMBER		NUMBER		NUMBER	
						OF		OF		OF		OF		OF	
PARAMETER						VALUE		VALUE		VALUE		VALUE		VALUE	
UNIT						(Q) error		(Q) error		(Q) error		(Q) error		(Q) error	
Bismuth-214	pCi/g	5.8	100%	56	56	1.9	+/-0.6	1.6	+/-0.4	2.1	+/-0.6	1.7	+/-0.4	1.8	+/-0.4
Cesium-137	pCi/g	1.3	59%	33	56	1.3	+/-0.3	0.6 J	+/-0.1	0.4 J	+/-0.1	0.3 J	+/-0.1	0.6	+/-0.2
Cobalt-57	pCi/g	0.2	18%	10	56	0.1 U		0.1 U		0.1	+/-0.1	0.1 U		0.1 U	
Cobalt-60	pCi/g	0.7	11%	6	56	0.1 UJ		0.7	+/-0.2	0.3 J	+/-0.2	0.3 J	+/-0.1	0.3	+/-0.1
Lead-210	pCi/g	68.9	52%	29	56	6.5 J	+/-4.4	3.8 J	+/-2.5	5 J	+/-2.9	3.9 J	+/-2.6	3.6 J	+/-2.2
Lead-211	pCi/g	20.3	13%	7	56	12.8 J	+/-5.9	13.5 J	+/-6.4	0.9 UJ		0.3 UJ		1.4 U	
Lead-214	pCi/g	3.4	100%	56	56	1.5	+/-0.5	1.8	+/-0.5	1.6 J	+/-0.5	1.9 J	+/-0.5	1.4	+/-0.5
Plutonium-239/240	pCi/g	0.2	13%	7	56	0.1 U	+/-0.1	0.1 UJ	+/-0.2	0.2 U	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	0	0%	0	1	6.9 UJ	+/-5.2								
Radium-223	pCi/g	1.7	13%	7	56	0.5 U		0.9	+/-0.6	0.9 J	+/-0.5	0.4 UJ		0.4 U	
Radium-226	pCi/g	5.8	100%	56	56	1.9	+/-0.6	1.6	+/-0.4	2.1	+/-0.6	1.7	+/-0.4	1.8	+/-0.4
Radium-228	pCi/g	3.5	95%	53	56	1.5 J	+/-0.7	1.9	+/-0.6	1.8	+/-0.5	2.2	+/-0.5	1.3 J	+/-0.4
Thorium-230	pCi/g	1.4	50%	28	56	1 U	+/-0.4	1	+/-0.4	1 J	+/-0.5	0.8 J	+/-0.4	0.4 J	+/-0.4
Thorium-232	pCi/g	1.3	98%	55	56	0.1	+/-0.1	0.8	+/-0.4	1.1 J	+/-0.5	1 J	+/-0.5	0.5	+/-0.3
Tritium	pCi/g	130	64%	36	56	5.1 J	+/-0.1	0.1 U	+/-0.1	101	+/-0.4	0.2	+/-0.1	0.5 UJ	+/-0.1
Uranium-234	pCi/g	1.2	79%	44	56	0.7	+/-0.2	0.5	+/-0.2	0.9 J	+/-0.4	1.2 J	+/-0.3	0.7	+/-0.3
Uranium-235	pCi/g	0.4	39%	22	56	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.3	98%	55	56	0.7	+/-0.3	0.3	+/-0.2	0.9	+/-0.4	0.7 J	+/-0.2	0.8	+/-0.3

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						SS12-147		SS12-148		SS12-149		SS12-150		SS12-151	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE DATE						123342		123343		123344		123345		123346	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						13-Nov-98		16-Nov-98		13-Nov-98		17-Nov-98		13-Nov-98	
QC CODE						SA		SA		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error
Bismuth-214	pCi/g	5.8	100%	56	56	1.8	+/-0.5	1.8 J	+/-0.5	1.5	+/-0.2	2.3 J	+/-0.4	1.8	+/-0.5
Cesium-137	pCi/g	1.3	59%	33	56	0.1 UJ		0.8	+/-0.2	0.1 U		0.1 U		1	+/-0.2
Cobalt-57	pCi/g	0.2	18%	10	56	0.1 U		0.1 U		0.1 U		0.1	+/-0.1	0.1	+/-0.1
Cobalt-60	pCi/g	0.7	11%	6	56	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	68.9	52%	29	56	20.8 U		19 U		1.2 U		4.1	+/-3.6	5	+/-2.1
Lead-211	pCi/g	20.3	13%	7	56	0.9 U		1.3 UJ		2.6 U		20.3 J	+/-4.7	1.5 U	
Lead-214	pCi/g	3.4	100%	56	56	1.2	+/-0.3	1.1 J	+/-0.3	1.7	+/-0.4	2 J	+/-0.4	1.4	+/-0.5
Plutonium-239/240	pCi/g	0.2	13%	7	56	0.2 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1
Promethium-147	pCi/g	0	0%	0	1										
Radium-223	pCi/g	1.7	13%	7	56	0.4 U		0.5 U		0.5 U		0.6 U		0.4 U	
Radium-226	pCi/g	5.8	100%	56	56	1.8	+/-0.5	1.8 J	+/-0.5	1.5	+/-0.2	2.3 J	+/-0.4	1.8	+/-0.5
Radium-228	pCi/g	3.5	95%	53	56	1.5	+/-0.4	2.5 J	+/-0.6	2.4	+/-0.5	0.1 UJ		2	+/-0.4
Thorium-230	pCi/g	1.4	50%	28	56	0.7 U	+/-0.3	1 U	+/-0.3	1.1 UJ	+/-0.6	1.1 U	+/-0.4	0.5 UJ	+/-0.3
Thorium-232	pCi/g	1.3	98%	55	56	0.8	+/-0.3	0.7	+/-0.3	1.3 J	+/-0.6	1	+/-0.3	1.2 J	+/-0.5
Tritium	pCi/g	130	64%	36	56	0.2	+/-0.1	87.4	+/-0.5	1.6	+/-0.1	11.1	+/-0.2	4.5	+/-0.1
Uranium-234	pCi/g	1.2	79%	44	56	0.8 U	+/-0.3	0.9	+/-0.3	0.6 U	+/-0.2	0.8	+/-0.3	0.7 J	+/-0.2
Uranium-235	pCi/g	0.4	39%	22	56	0.2	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 J	+/-0.1
Uranium-238	pCi/g	1.3	98%	55	56	0.6	+/-0.3	0.8	+/-0.3	0.8 J	+/-0.3	1	+/-0.3	0.7 J	+/-0.2

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID						SS12-152		SS12-153		SS12-154		SS12-155		SS12-155		
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE DATE						123348		123348		123349		123350		123479		
DEPTH TO TOP OF SAMPLE						0		0		0		0		0		
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2		
SAMPLE DATE						13-Nov-98		13-Nov-98		13-Nov-98		17-Nov-98		17-Nov-98		
QC CODE						SA		SA		SA		SA		SA		
STUDY ID						FREQUENCY		NUMBER		NUMBER		SA		SA		
						OF		OF		OF		RI Phase 1 Step 1		RI Phase 1 Step 1		
PARAMETER						UNIT		MAXIMUM		DETECTION		DETECTS		ANALYSES		
						VALUE		(Q) error		VALUE		(Q) error		VALUE		
Bismuth-214	pCi/g	5.8	100%	56	56	1	+/-0.2	1.7	+/-0.4	1.3	+/-0.3	1.9	J	+/-0.4	1.2	J
Cesium-137	pCi/g	1.3	59%	33	56	0.7	+/-0.1	0.1	U	0.5	+/-0.3	0.1	U		0.1	U
Cobalt-57	pCi/g	0.2	18%	10	56	0.1	U	0.1	U	0.1	U	0.1	+/-0.1	0.1	U	
Cobalt-60	pCi/g	0.7	11%	6	56	0.1	U	0.1	U	0.1	U	0.1	U		0.1	U
Lead-210	pCi/g	68.9	52%	29	56	27.8	U	2.2	+/-1.5	4.1	+/-2	31.7	U		25.5	J
Lead-211	pCi/g	20.3	13%	7	56	0.6	U	2	U	3.1	U	3	UJ		1.7	UJ
Lead-214	pCi/g	3.4	100%	56	56	1	+/-0.3	1.3	+/-0.3	1.5	+/-0.3	1.9	J	+/-0.4	1.3	J
Plutonium-239/240	pCi/g	0.2	13%	7	56	0.1	UJ	0.1	+/-0.1	0.2	UJ	0.1	+/-0.1	0.2	U	
Promethium-147	pCi/g	0	0%	0	1											
Radium-223	pCi/g	1.7	13%	7	56	1.5	+/-0.3	0.4	U	0.4	U	0.6	U		0.4	U
Radium-226	pCi/g	5.8	100%	56	56	1	+/-0.2	1.7	+/-0.4	1.3	+/-0.3	1.9	J	+/-0.4	1.2	J
Radium-228	pCi/g	3.5	95%	53	56	1.7	+/-0.4	1.4	+/-0.4	1.7	+/-0.6	1.6	J	+/-0.6	1.8	J
Thorium-230	pCi/g	1.4	50%	28	56	1.5	UJ	0.8	+/-0.4	1.1	U	1.3	U	+/-0.4	0.8	U
Thorium-232	pCi/g	1.3	98%	55	56	1.1	J	0.6	+/-0.3	0.8	+/-0.3	1.1	+/-0.4	0.8	U	
Tritium	pCi/g	130	64%	36	56	4.7	+/-0.2	0.1	+/-0.1	11.9	J	6.4	+/-0.1	6.8	J	
Uranium-234	pCi/g	1.2	79%	44	56	0.6	U	0.6	+/-0.2	0.9	J	1	+/-0.3	0.9	U	
Uranium-235	pCi/g	0.4	39%	22	56	0.1	U	0.1	+/-0.1	0.2	U	0.1	+/-0.1	0.1	U	
Uranium-238	pCi/g	1.3	98%	55	56	0.8	J	0.6	+/-0.2	1	+/-0.4	1	+/-0.3	1	J	

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12			SEAD-12			SEAD-12			SEAD-12					
LOCATION ID						SS12-156			SS12-157			SS12-158			SS12-159			SS12-160		
MATRIX						SOIL			SOIL			SOIL			SOIL			SOIL		
SAMPLE DATE						123351			123352			123353			123354			123355		
DEPTH TO TOP OF SAMPLE						0			0			0			0			0		
DEPTH TO BOTTOM OF SAMPLE						0.2			0.2			0.2			0.2			0.2		
SAMPLE DATE						13-Nov-98			13-Nov-98			16-Nov-98			13-Nov-98			13-Nov-98		
QC CODE						SA			SA			SA			SA			SA		
STUDY ID						FREQUENCY			NUMBER			NUMBER			NUMBER			NUMBER		
						OF			OF			OF			OF			OF		
						RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	
Bismuth-214	pCi/g	5.8	100%	56	56	+/-0.3	1.1		+/-0.2	1.4		+/-0.4	5.8	J	+/-0.8	1.8		+/-0.4	2.5	
Cesium-137	pCi/g	1.3	59%	33	56		0.1	U		0.3		+/-0.1	1		+/-0.3	0.1	UJ		0.6	
Cobalt-57	pCi/g	0.2	18%	10	56		0.1		+/-0.1	0.1	U		0.1	U		0.1	U		0.1	
Cobalt-60	pCi/g	0.7	11%	6	56		0.1	U		0.1	U		0.1	U		0.1	U		0.1	
Lead-210	pCi/g	68.9	52%	29	56	+/-25.2	24.2	U		4.4		+/-2.7	4.7		+/-4.5	33.5	U		2.2	
Lead-211	pCi/g	20.3	13%	7	56		0.7	U		2.8	U		5.7	J	+/-5.3	2.5	U		2.4	
Lead-214	pCi/g	3.4	100%	56	56	+/-0.2	0.9		+/-0.2	2		+/-0.4	3.4	J	+/-0.6	1.3		+/-0.2	2.6	
Plutonium-239/240	pCi/g	0.2	13%	7	56	+/-0.1	0.3	UJ	+/-0.1	0.2	UJ	+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1	0.2	
Promethium-147	pCi/g	0	0%	0	1															
Radium-223	pCi/g	1.7	13%	7	56		0.3	U		0.5	U		0.6	U		0.5	U		0.5	
Radium-226	pCi/g	5.8	100%	56	56	+/-0.3	1.1		+/-0.2	1.4		+/-0.4	5.8	J	+/-0.8	1.8		+/-0.4	2.5	
Radium-228	pCi/g	3.5	95%	53	56	+/-0.5	1.6		+/-0.4	2.4		+/-0.5	2.7	J	+/-0.6	2		+/-0.5	2.5	
Thorium-230	pCi/g	1.4	50%	28	56	+/-0.3	0.9	U	+/-0.4	1.3	U	+/-0.4	1	U	+/-0.3	1.4	U	+/-0.5	1	
Thorium-232	pCi/g	1.3	98%	55	56	+/-0.3	1		+/-0.4	1		+/-0.3	0.9		+/-0.3	1.2		+/-0.4	1	
Tritium	pCi/g	130	64%	36	56	+/-0.1	0.1	U	+/-0.1	0.1	J	+/-0.1	0.3		+/-0.1	1.1		+/-0.1	1.3	
Uranium-234	pCi/g	1.2	79%	44	56	+/-0.3	0.3	J	+/-0.3	0.6	J	+/-0.3	0.8		+/-0.3	1	U	+/-0.3	0.9	
Uranium-235	pCi/g	0.4	39%	22	56	+/-0.1	0.2		+/-0.2	0.2	U	+/-0.1	0.1		+/-0.1	0.1		+/-0.1	0.1	
Uranium-238	pCi/g	1.3	98%	55	56	+/-0.3	0.8		+/-0.4	0.6		+/-0.3	1		+/-0.3	0.5		+/-0.2	0.7	

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12				SEAD-12				SEAD-12				SEAD-12			
LOCATION ID						SS12-161				SS12-162				SS12-163				SS12-164			
MATRIX						SOIL				SOIL				SOIL				SOIL			
SAMPLE DATE						123356				123357				123358				123359			
DEPTH TO TOP OF SAMPLE						0				0				0				0			
DEPTH TO BOTTOM OF SAMPLE						0.2				0.2				0.2				0.2			
SAMPLE DATE						13-Nov-98				13-Nov-98				13-Nov-98				13-Nov-98			
QC CODE						SA				SA				SA				SA			
STUDY ID		FREQUENCY		NUMBER		NUMBER		OF		OF		OF		OF		OF		OF			
								RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error		
Bismuth-214	pCi/g	5.8	100%	56	56		+/-0.5	1.1		+/-0.3	1.3		+/-0.4	1.2		+/-0.3	1.7		+/-0.3		
Cesium-137	pCi/g	1.3	59%	33	56	J	+/-0.3	0.9		+/-0.2	0.7		+/-0.3	0.7		+/-0.2	0.1		U		
Cobalt-57	pCi/g	0.2	18%	10	56	U		0.1	U		0.1	U		0.1	U		0.1	U			
Cobalt-60	pCi/g	0.7	11%	6	56	U		0.1	U		0.1	U		0.1	U		0.1	U			
Lead-210	pCi/g	68.9	52%	29	56	U		43.3		+/-27.1	2.9		+/-1.8	19.9	U		16.4	U			
Lead-211	pCi/g	20.3	13%	7	56	U		1.5	U		2.4	U		1.3	U		2.2	U			
Lead-214	pCi/g	3.4	100%	56	56		+/-0.5	1.2		+/-0.3	1.4		+/-0.3	1.1		+/-0.2	1.3		+/-0.4		
Plutonium-239/240	pCi/g	0.2	13%	7	56	U	+/-0.1	0.1	UJ	+/-0.1	0.2	UJ	+/-0.1	0.1	UJ	+/-0.1	0.2	UJ	+/-0.1		
Promethium-147	pCi/g	0	0%	0	1																
Radium-223	pCi/g	1.7	13%	7	56	U		0.5	U		0.4	U		0.3	U		0.4	U			
Radium-226	pCi/g	5.8	100%	56	56		+/-0.5	1.1		+/-0.3	1.3		+/-0.4	1.2		+/-0.3	1.7		+/-0.3		
Radium-228	pCi/g	3.5	95%	53	56		+/-0.6	2		+/-0.6	2.1		+/-0.4	2.1		+/-0.4	0.1		U		
Thorium-230	pCi/g	1.4	50%	28	56	U	+/-0.3	0.9	U	+/-0.4	1.3	UJ	+/-0.6	1.2	UJ	+/-0.6	1.3		+/-0.5		
Thorium-232	pCi/g	1.3	98%	55	56		+/-0.3	0.9		+/-0.4	0.8	J	+/-0.4	1	J	+/-0.5	0.9		+/-0.4		
Tritium	pCi/g	130	64%	36	56		+/-0.1	1.3		+/-0.1	0.1	U	+/-0.1	0.4		+/-0.1	3.7	J	+/-0.1		
Uranium-234	pCi/g	1.2	79%	44	56	U	+/-0.3	0.8	J	+/-0.3	0.7		+/-0.2	0.7	J	+/-0.2	1	J	+/-0.5		
Uranium-235	pCi/g	0.4	39%	22	56		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	J	+/-0.1	0.1		+/-0.1		
Uranium-238	pCi/g	1.3	98%	55	56		+/-0.3	0.9	J	+/-0.3	0.6	UJ	+/-0.2	0.7	J	+/-0.2	0.8		+/-0.4		

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12			SEAD-12			SEAD-12			SEAD-12			SEAD-12		
LOCATION ID						SS12-165			SS12-166			SS12-18			SS12-201			SS12-201		
MATRIX						SOIL			SOIL			SOIL			SOIL			SOIL		
SAMPLE DATE						123360			123361			123103			123430			123395		
DEPTH TO TOP OF SAMPLE						0			0			0			0			0		
DEPTH TO BOTTOM OF SAMPLE						0.2			0.2			0.2			0.2			0.2		
SAMPLE DATE						13-Nov-98			13-Nov-98			13-Oct-98			16-Nov-98			14-Nov-98		
QC CODE						SA			SA			SA			DU			SA		
STUDY ID						RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error
Bismuth-214	pCi/g	5.8	100%	56	56	2		+/-0.5	1.5		+/-0.4	1.3	J	+/-0.4	1.4		+/-0.3	1.5		+/-0.4
Cesium-137	pCi/g	1.3	59%	33	56	0.1	UJ		0.9		+/-0.2	0.2	J	+/-0.2	0.7	J	+/-0.2	0.8	J	+/-0.2
Cobalt-57	pCi/g	0.2	18%	10	56	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
Cobalt-60	pCi/g	0.7	11%	6	56	0.1	U		0.1	U		0.4	J	+/-0.1	0.1	U		0.1	U	
Lead-210	pCi/g	68.9	52%	29	56	1.6	U		2.8		+/-2	3.3	J	+/-2	17.8	UJ		2.4	J	+/-2.3
Lead-211	pCi/g	20.3	13%	7	56	1.4	U		2	U		1.3	UJ		0.9	U		3.1	U	
Lead-214	pCi/g	3.4	100%	56	56	2		+/-0.4	1.2		+/-0.3	1.9		+/-0.4	1.1		+/-0.3	1.6		+/-0.5
Plutonium-239/240	pCi/g	0.2	13%	7	56	0.1	U	+/-0.1	0.1	UJ	+/-0.1	0.2	U	+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1
Promethium-147	pCi/g	0	0%	0	1															
Radium-223	pCi/g	1.7	13%	7	56	0.5	U		0.4	U		0.7	U	+/-0.4	0.4	U		0.5	U	
Radium-226	pCi/g	5.8	100%	56	56	2		+/-0.5	1.5		+/-0.4	1.3	J	+/-0.4	1.4		+/-0.3	1.5		+/-0.4
Radium-228	pCi/g	3.5	95%	53	56	2.4		+/-0.5	1.2		+/-0.3	1.3		+/-0.5	1.9		+/-0.6	2.3		+/-0.5
Thorium-230	pCi/g	1.4	50%	28	56	0.9	U	+/-0.3	1.1	U	+/-0.4	0.9	U	+/-0.4	1.3	J	+/-0.5	0.6	J	+/-0.3
Thorium-232	pCi/g	1.3	98%	55	56	0.7		+/-0.3	0.9		+/-0.4	0.7	J	+/-0.3	0.8		+/-0.3	1		+/-0.4
Tritium	pCi/g	130	64%	36	56	4.9		+/-0.1	0.1	U	+/-0.1	0.1	UJ	+/-0.1	0.1	UJ	+/-0.1	0.2	J	+/-0.1
Uranium-234	pCi/g	1.2	79%	44	56	0.8	U	+/-0.3	0.7	U	+/-0.3	1	UJ	+/-0.3	0.6	U	+/-0.2	0.8	J	+/-0.2
Uranium-235	pCi/g	0.4	39%	22	56	0.1		+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	UJ	+/-0.1
Uranium-238	pCi/g	1.3	98%	55	56	1		+/-0.4	0.6	J	+/-0.2	0.8	J	+/-0.2	0.7		+/-0.2	0.7	J	+/-0.2

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY					SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID					SS12-202		SS12-203		SS12-204		SS12-205		SS12-206		
MATRIX					SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE DATE					123398		123398		123399		123400		123401		
DEPTH TO TOP OF SAMPLE					0		0		0		0		0		
DEPTH TO BOTTOM OF SAMPLE					0.2		0.2		0.2		0.2		0.2		
SAMPLE DATE					14-Nov-98		14-Nov-98		14-Nov-98		14-Nov-98		14-Nov-98		
QC CODE					SA		SA		SA		SA		SA		
STUDY ID					RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		
					FREQUENCY		NUMBER		NUMBER		NUMBER		NUMBER		
					OF		OF		OF		OF		OF		
PARAMETER					UNIT		MAXIMUM		DETECTION		DETECTS		ANALYSES		
VALUE					(Q)		error		VALUE		(Q)		error		
Bismuth-214	pCi/g	5.8	100%	56	56	1.6	+/-0.5	1	+/-0.6	2	+/-0.5	1.4	+/-0.4	1.7	+/-0.5
Cesium-137	pCi/g	1.3	59%	33	56	0.3 J	+/-0.1	0.4 J	+/-0.1	0.3 J	+/-0.2	0.1 UJ		0.3 J	+/-0.2
Cobalt-57	pCi/g	0.2	18%	10	56	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.7	11%	6	56	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Lead-210	pCi/g	68.9	52%	29	56	20.8 U		1.6 U		1.2 U		53.9	+/-49	5.9	+/-3.6
Lead-211	pCi/g	20.3	13%	7	56	2.5 U		2.4 U		10.3	+/-3.5	3.1 U		2.9 U	
Lead-214	pCi/g	3.4	100%	56	56	1.4	+/-0.3	1.3	+/-0.3	1.2	+/-0.3	1.3	+/-0.3	1.6	+/-0.4
Plutonium-239/240	pCi/g	0.2	13%	7	56	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.4 UJ	+/-0.1
Promethium-147	pCi/g	0	0%	0	1										
Radium-223	pCi/g	1.7	13%	7	56	0.4 U		0.4 U		0.4 U		0.4 U		0.5 U	
Radium-226	pCi/g	5.8	100%	56	56	1.6	+/-0.5	1	+/-0.6	2	+/-0.5	1.4	+/-0.4	1.7	+/-0.5
Radium-228	pCi/g	3.5	95%	53	56	1.7	+/-0.5	1.1	+/-0.5	1.2	+/-0.5	1.8	+/-0.4	1.5	+/-0.5
Thorium-230	pCi/g	1.4	50%	28	56	0.6	+/-0.3	0.7	+/-0.3	0.8	+/-0.3	1.1	+/-0.4	0.9	+/-0.3
Thorium-232	pCi/g	1.3	98%	55	56	1.2	+/-0.4	0.9	+/-0.3	0.7	+/-0.3	0.9	+/-0.3	0.7	+/-0.3
Tritium	pCi/g	130	64%	36	56	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	130	+/-0.4
Uranium-234	pCi/g	1.2	79%	44	56	0.8	+/-0.3	0.6 U	+/-0.2	0.6 U	+/-0.2	0.7 J	+/-0.3	0.9	+/-0.3
Uranium-235	pCi/g	0.4	39%	22	56	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.3	98%	55	56	1	+/-0.3	0.6	+/-0.2	0.9	+/-0.3	0.7 J	+/-0.2	0.8	+/-0.3

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY					SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID					SS12-207		SS12-208		SS12-210		SS12-211		SS12-212		
MATRIX					SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE DATE					123402		123403		123405		123406		123407		
DEPTH TO TOP OF SAMPLE					0		0		0		0		0		
DEPTH TO BOTTOM OF SAMPLE					0.2		0.2		0.2		0.2		0.2		
SAMPLE DATE					17-Nov-98		14-Nov-98		15-Nov-98		15-Nov-98		15-Nov-98		
QC CODE					SA		SA		SA		SA		SA		
STUDY ID					RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	DETECTION	NUMBER OF	NUMBER OF	ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error
Bismuth-214	pCi/g	5.8	100%	56	56	56	2.6	J	+/-0.5	1.8	+/-0.4		1.9	J	+/-0.5
Cesium-137	pCi/g	1.3	59%	33	56	56	0.1	U		0.1	UJ		0.1	U	
Cobalt-57	pCi/g	0.2	18%	10	56	56	0.1	U		0.1	U		0.2	+/-0.1	
Cobalt-60	pCi/g	0.7	11%	6	56	56	0.1	U		0.1	U		0.3	+/-0.1	
Lead-210	pCi/g	68.9	52%	29	56	56	4.6		+/-2.2	31.6	U		1.8	UJ	
Lead-211	pCi/g	20.3	13%	7	56	56	3.5	UJ		0.9	U		2.4	U	
Lead-214	pCi/g	3.4	100%	56	56	56	2.1	J	+/-0.5	1.4	+/-0.4		1.8	J	+/-0.4
Plutonium-239/240	pCi/g	0.2	13%	7	56	56	0.2		+/-0.1	0.1	U	+/-0.1	0.1	UJ	+/-0.1
Promethium-147	pCi/g	0	0%	0	1	1									
Radium-223	pCi/g	1.7	13%	7	56	56	0.5	U		0.6	+/-0.3		0.5	UJ	
Radium-226	pCi/g	5.8	100%	56	56	56	2.6	J	+/-0.5	1.8	+/-0.4		1.9	J	+/-0.5
Radium-228	pCi/g	3.5	95%	53	56	56	2.2	J	+/-0.5	1.5	+/-0.5		2	+/-0.5	
Thorium-230	pCi/g	1.4	50%	28	56	56	1.4	U	+/-0.5	1	+/-0.4		0.9	J	+/-0.4
Thorium-232	pCi/g	1.3	98%	55	56	56	0.9		+/-0.4	0.8	+/-0.3		0.7	J	+/-0.4
Tritium	pCi/g	130	64%	36	56	56	0.1	U	+/-0.1	4.9	+/-0.2		0.1	UJ	+/-0.1
Uranium-234	pCi/g	1.2	79%	44	56	56	0.8		+/-0.3	0.7	+/-0.3		0.4	+/-0.2	
Uranium-235	pCi/g	0.4	39%	22	56	56	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-238	pCi/g	1.3	98%	55	56	56	0.5		+/-0.2	0.8	+/-0.3		0.8	+/-0.3	



TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12			SEAD-12			SEAD-12			SEAD-12			SEAD-12		
LOCATION ID						SS12-213			SS12-214			SS12-215			SS12-216			SS12-217		
MATRIX						SOIL			SOIL			SOIL			SOIL			SOIL		
SAMPLE DATE						123408			123409			123410			123411			123412		
DEPTH TO TOP OF SAMPLE						0			0			0			0			0		
DEPTH TO BOTTOM OF SAMPLE						0.2			0.2			0.2			0.2			0.2		
SAMPLE DATE						15-Nov-98			15-Nov-98			15-Nov-98			15-Nov-98			15-Nov-98		
QC CODE						SA			SA			SA			SA			SA		
STUDY ID			FREQUENCY	NUMBER	NUMBER	SA			SA			SA			SA			SA		
			OF	OF	OF	RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error
Bismuth-214	pCi/g	5.8	100%	56	56	1.6	J	+/-0.3	1.6	J	+/-0.3	2.1	J	+/-0.6	3.3	J	+/-0.5	2.2	J	+/-0.6
Cesium-137	pCi/g	1.3	59%	33	56	0.1	U		0.1	U		0.4	+/-0.2	0.3	+/-0.2	0.3	+/-0.1	0.3	+/-0.1	
Cobalt-57	pCi/g	0.2	18%	10	56	0.1	U		0.1	U	+/-0.1	0.1	U		0.1	U		0.1	U	+/-0.1
Cobalt-60	pCi/g	0.7	11%	6	56	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
Lead-210	pCi/g	68.9	52%	29	56	34.5	UJ		38.1	UJ		1.7	UJ		3.6	J	+/-2.2	4.7	J	+/-1.9
Lead-211	pCi/g	20.3	13%	7	56	4.3		+/-1.9	2.8	U		0.6	U		3.6	U		2.2	U	
Lead-214	pCi/g	3.4	100%	56	56	1	J	+/-0.3	1.3	J	+/-0.3	2.1	J	+/-0.5	2.2	J	+/-0.4	1.5	J	+/-0.4
Plutonium-239/240	pCi/g	0.2	13%	7	56	0.2	U	+/-0.1	0.2	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.2	U	+/-0.1
Promethium-147	pCi/g	0	0%	0	1															
Radium-223	pCi/g	1.7	13%	7	56	0.4	UJ		0.3	UJ		0.5	UJ		0.5	UJ		0.4	UJ	
Radium-226	pCi/g	5.8	100%	56	56	1.6	J	+/-0.3	1.6	J	+/-0.3	2.1	J	+/-0.6	3.3	J	+/-0.5	2.2	J	+/-0.6
Radium-228	pCi/g	3.5	95%	53	56	1.5		+/-0.5	1.5		+/-0.4	1.9		+/-0.5	2.1		+/-0.5	1.8		+/-0.4
Thorium-230	pCi/g	1.4	50%	28	56	1		+/-0.4	1.2	J	+/-0.5	0.9		+/-0.4	0.8		+/-0.3	0.9		+/-0.4
Thorium-232	pCi/g	1.3	98%	55	56	1.3		+/-0.5	1.1	J	+/-0.5	0.9		+/-0.4	0.9		+/-0.4	1		+/-0.4
Tritium	pCi/g	130	64%	36	56	0.7	J	+/-0.1	0.2	J	+/-0.1	0.1	J	+/-0.1	0.1	UJ	+/-0.1	0.1	UJ	+/-0.1
Uranium-234	pCi/g	1.2	79%	44	56	0.8		+/-0.3	0.7		+/-0.3	0.6		+/-0.3	0.8		+/-0.3	0.6		+/-0.2
Uranium-235	pCi/g	0.4	39%	22	56	0.1		+/-0.1	0.1		+/-0.1	0.4		+/-0.3	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-238	pCi/g	1.3	98%	55	56	0.6		+/-0.3	0.9		+/-0.3	0.9		+/-0.4	0.6		+/-0.2	0.9		+/-0.3

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12			SEAD-12			SEAD-12			SEAD-12					
LOCATION ID						SS12-218			SS12-219			SS12-220			SS12-222			SS12-223		
MATRIX						SOIL			SOIL			SOIL			SOIL					
SAMPLE DATE						123413			123414			123415			123417B			123418		
DEPTH TO TOP OF SAMPLE						0			0			0			0			0		
DEPTH TO BOTTOM OF SAMPLE						0.2			0.2			0.2			0.2			0.2		
SAMPLE DATE						17-Nov-98			15-Nov-98			15-Nov-98			15-Nov-98			15-Nov-98		
QC CODE						SA			SA			SA			SA			SA		
STUDY ID						FREQUENCY OF			NUMBER OF			NUMBER OF			RI Phase 1 Step 1			RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error
Bismuth-214	pCi/g	5.8	100%	56	56	1.7	J	+/-0.3	1.8	U	+/-0.3	0.9	J	+/-0.3	2.1	J	+/-0.5	4.8		
Cesium-137	pCi/g	1.3	59%	33	56	0.1	U		0.1	U		0.1	U		0.5		+/-0.1	0.9		
Cobalt-57	pCi/g	0.2	18%	10	56	0.1	U		0.1	U		0.1	U		0.1	U		0.1		
Cobalt-60	pCi/g	0.7	11%	6	56	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
Lead-210	pCi/g	68.9	52%	29	56	68.9		+/-47.5	32.7	UJ		28.8	UJ		37	UJ		3.6	J	
Lead-211	pCi/g	20.3	13%	7	56	1.1	UJ		0.8	U		2.3	U		0.8	U		2.5	U	
Lead-214	pCi/g	3.4	100%	56	56	1.5	J	+/-0.3	1.2		+/-0.3	1.4	J	+/-0.3	1.6	J	+/-0.4	3.1		
Plutonium-239/240	pCi/g	0.2	13%	7	56	0.2		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.2	U	+/-0.1	0.1	U	
Promethium-147	pCi/g	0	0%	0	1															
Radium-223	pCi/g	1.7	13%	7	56	0.4	U		0.4	U		1.7	J	+/-0.5	1.6	J	+/-0.7	0.5	U	
Radium-226	pCi/g	5.8	100%	56	56	1.7	J	+/-0.3	1.8		+/-0.3	0.9	J	+/-0.3	2.1	J	+/-0.5	4.8		
Radium-228	pCi/g	3.5	95%	53	56	2.1	J	+/-0.5	0.2	U		2.5		+/-0.7	2.3		+/-0.5	2.5		
Thorium-230	pCi/g	1.4	50%	28	56	0.9	U	+/-0.3	1.1	U	+/-0.4	0.9	J	+/-0.4	1.2		+/-0.4	1.1	U	
Thorium-232	pCi/g	1.3	98%	55	56	0.7		+/-0.3	1.2		+/-0.4	0.7	J	+/-0.3	0.8		+/-0.4	1		
Tritium	pCi/g	130	64%	36	56	0.1	U	+/-0.1	3.6		+/-0.1	6.6	J	+/-0.2	0.1	J	+/-0.1	20.2		
Uranium-234	pCi/g	1.2	79%	44	56	0.7		+/-0.2	0.5	J	+/-0.2	0.5		+/-0.2	1.1		+/-0.3	0.7	J	
Uranium-235	pCi/g	0.4	39%	22	56	0.1	U	+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.1	U	
Uranium-238	pCi/g	1.3	98%	55	56	0.6		+/-0.2	0.7		+/-0.3	0.6		+/-0.2	0.7		+/-0.3	0.6		

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12			SEAD-12			SEAD-12			SEAD-12																																															
LOCATION ID						SS12-224			SS12-225			SS12-226			SS12-227			SS12-228																																												
MATRIX						SOIL			SOIL			SOIL			SOIL			SOIL																																												
SAMPLE DATE						123419			123420			123421			123422			123423																																												
DEPTH TO TOP OF SAMPLE						0			0			0			0			0																																												
DEPTH TO BOTTOM OF SAMPLE						0.2			0.2			0.2			0.2			0.2																																												
SAMPLE DATE						15-Nov-98			15-Nov-98			15-Nov-98			15-Nov-98			17-Nov-98																																												
QC CODE						SA			SA			SA			SA			SA																																												
STUDY ID						FREQUENCY OF			NUMBER OF			NUMBER OF			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1																																									
PARAMETER						UNIT			MAXIMUM			DETECTION			DETECTS			ANALYSES			error			VALUE			(Q)			error			VALUE			(Q)			error			VALUE			(Q)			error			VALUE			(Q)			error			VALUE		
Bismuth-214						pCi/g			5.8			100%			56			56			+/-0.6			1.8			J			+/-0.5			1.4			+/-0.5			1.9			+/-0.5			1.6			J			+/-0.3			2.8								
Cesium-137						pCi/g			1.3			59%			33			56			+/-0.3			1			+/-0.3			1			+/-0.3			0.5			+/-0.1			0.1			U			0.1			U			0.1			U			0.1		
Cobalt-57						pCi/g			0.2			18%			10			56			+/-0.1			0.2			+/-0.2			0.1			U			0.1			U			0.1			U			0.1			U			0.1								
Cobalt-60						pCi/g			0.7			11%			6			56						0.1			U			0.1			U			0.1			U			0.1			U			0.1			U			0.1								
Lead-210						pCi/g			68.9			52%			29			56			+/-1.4			8.1			J			+/-3.4			8.7			J			+/-4			61			J			+/-57.7			31.7			UJ			2.4					
Lead-211						pCi/g			20.3			13%			7			56						1.8			U			7.2			+/-5.9			2.2			U			2			U			3.9														
Lead-214						pCi/g			3.4			100%			56			56			+/-0.5			2.2			J			+/-0.4			2.3			+/-0.5			1.5			+/-0.3			1.4			J			+/-0.3			2.2								
Plutonium-239/240						pCi/g			0.2			13%			7			56			+/-0.2			0.1			U			+/-0.1			0.2			UJ			+/-0.2			0.1			U			+/-0.1			0.2			U			+/-0.1			0.1		
Promethium-147						pCi/g			0			0%			0			1																																												
Radium-223						pCi/g			1.7			13%			7			56						1.1			J			+/-0.6			0.6			U			0.5			U			0.4			UJ			0.7											
Radium-226						pCi/g			5.8			100%			56			56			+/-0.6			1.8			J			+/-0.5			1.4			+/-0.5			1.9			+/-0.5			1.6			J			+/-0.3			2.8								
Radium-228						pCi/g			3.5			95%			53			56			+/-0.5			3.1			+/-0.6			3.5			+/-0.8			1.8			+/-0.4			2			+/-0.6			1.9														
Thorium-230						pCi/g			1.4			50%			28			56			+/-0.4			1.3			+/-0.5			1.1			U			+/-0.4			1.4			+/-0.5			1			+/-0.4			1.1											
Thorium-232						pCi/g			1.3			98%			55			56			+/-0.4			1.2			+/-0.5			1.1			+/-0.4			0.9			+/-0.3			1			+/-0.4			0.8														
Tritium						pCi/g			130			64%			36			56			+/-0.2			17			J			+/-0.3			122			+/-0.6			18			+/-0.2			0.1			UJ			+/-0.1			0.1								
Uranium-234						pCi/g			1.2			79%			44			56			+/-0.3			0.8			+/-0.4			0.9			J			+/-0.3			0.7			J			+/-0.3			0.7			+/-0.3			0.7								
Uranium-235						pCi/g			0.4			39%			22			56			+/-0.1			0.2			U			+/-0.1			0.1			+/-0.1			0.1			J			+/-0.1			0.1			U			+/-0.1			0.1					
Uranium-238						pCi/g			1.3			98%			55			56			+/-0.2			1.3			+/-0.4			1			+/-0.3			0.9			J			+/-0.3			0.8			+/-0.3			0.6											

TABLE G-26  
DISPOSAL PIT C RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY							SEAD-12			SEAD-12		
LOCATION ID							SS12-229			SS12-230		
MATRIX							SOIL			SOIL		
SAMPLE DATE							123424			123425		
DEPTH TO TOP OF SAMPLE							0			0		
DEPTH TO BOTTOM OF SAMPLE							0.2			0.2		
SAMPLE DATE							15-Nov-98			15-Nov-98		
QC CODE							SA			SA		
STUDY ID							RI Phase 1 Step 1			RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	(Q) error	VALUE	(Q) error	VALUE	(Q) error		
Bismuth-214	pCi/g	5.8	100%	56	56	J +/-0.6	2.2	+/-0.6	1.6	J +/-0.5		
Cesium-137	pCi/g	1.3	59%	33	56	U	0.6	+/-0.2	0.8	+/-0.3		
Cobalt-57	pCi/g	0.2	18%	10	56	U	0.1	U	0.1	U		
Cobalt-60	pCi/g	0.7	11%	6	56	U	0.1	U	0.1	U		
Lead-210	pCi/g	68.9	52%	29	56	U	8.7	J +/-4.4	5.8	J +/-2.9		
Lead-211	pCi/g	20.3	13%	7	56	UJ	3.4	UJ	3.3	U		
Lead-214	pCi/g	3.4	100%	56	56	J +/-0.5	1.8	+/-0.5	1.5	J +/-0.4		
Plutonium-239/240	pCi/g	0.2	13%	7	56	+/-0.1	0.2	U +/-0.1	0.1	U +/-0.2		
Promethium-147	pCi/g	0	0%	0	1							
Radium-223	pCi/g	17	13%	7	56	U	0.5	U	0.5	UJ		
Radium-226	pCi/g	5.8	100%	56	56	J +/-0.6	2.2	+/-0.6	1.6	J +/-0.5		
Radium-228	pCi/g	3.5	95%	53	56	J +/-0.5	2.5	+/-0.6	1.6	+/-0.4		
Thorium-230	pCi/g	1.4	50%	28	56	U +/-0.4	0.9	U +/-0.4	1	+/-0.4		
Thorium-232	pCi/g	1.3	98%	55	56	+/-0.3	0.8	+/-0.3	0.9	+/-0.4		
Tritium	pCi/g	130	64%	36	56	U +/-0.1	27.4	+/-0.3	1.3	J +/-0.1		
Uranium-234	pCi/g	1.2	79%	44	56	+/-0.2	0.8	J +/-0.3	0.6	+/-0.2		
Uranium-235	pCi/g	0.4	39%	22	56	+/-0.1	0.1	+/-0.1	0.1	+/-0.1		
Uranium-238	pCi/g	1.3	98%	55	56	+/-0.2	0.9	+/-0.3	0.8	+/-0.3		



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TABLE G-27  
DISPOSAL PIT C RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-14		MW12-14		MW12-15		MW12-15		MW12-33	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123100		123101		123029		123030		123196	
DEPTH TO TOP OF SAMPLE						8		10		6		8		6	
DEPTH TO BOTTOM OF SAMPLE						10		12		8		10		8	
SAMPLE DATE						14-Oct-98		14-Oct-98		01-Oct-98		01-Oct-98		31-Oct-98	
QC CODE						SA		SA		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error
Actinium-228	pCi/g	1.2	100%	9	9										
Bismuth-214	pCi/g	2.4	100%	42	42	1.7	+/-0.5	1.3	+/-0.4	1.3	+/-0.4	1.8	+/-0.4	1.9	+/-0.5
Cesium-137	pCi/g	0.7	67%	22	33	0.1 U		0.1 U		0.3 J	+/-0.1	0.3 J	+/-0.1	0.4 J	+/-0.2
Cobalt-57	pCi/g	0.7	30%	10	33	0.1 U		0.1 U		0.1 U		0.1 U		0.1	+/-0.1
Cobalt-60	pCi/g	0.5	79%	26	33	0.2 J	+/-0.1	0.5 J	+/-0.1	0.1 U		0.5	+/-0.1	0.1 J	+/-0.1
Gross Alpha	pCi/g	21	100%	9	9										
Gross Beta	pCi/g	30	100%	9	9										
Lead-210	pCi/g	40.5	88%	29	33	2.4 J	+/-1.8	3.9 J	+/-2.2	38.1 J	+/-34	1.7 UJ		2 J	+/-1.2
Lead-211	pCi/g	19	55%	18	33	6.6 J	+/-2.6	8.7 J	+/-6.3	1.2 UJ		0.7 UJ		2.3 UJ	
Lead-214	pCi/g	2.3	100%	42	42	1.7	+/-0.4	1.5	+/-0.4	1.4	+/-0.4	1.9	+/-0.4	2 J	+/-0.4
Plutonium-239/240	pCi/g	0.1	18%	6	33	0.1 U	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.2	0.2 U	+/-0.1
Promethium-147	pCi/g	0	0%	0	2	3.3 UJ	+/-5.1	3 UJ	+/-5.1						
Radium-223	pCi/g	1.2	9%	3	33	0.4 U		0.4	+/-0.4	0.3 U		0.3 U		0.4 UJ	
Radium-226	pCi/g	2.2	88%	29	33	1.7	+/-0.5	1.3	+/-0.4	1.3	+/-0.4	1.8	+/-0.4	1.9	+/-0.5
Radium-228	pCi/g	5	100%	33	33	1.5 J	+/-0.4	1.8 J	+/-0.6	1.5	+/-0.4	2.1	+/-0.6	1	+/-0.3
Thallium-208	pCi/g	1.8	100%	9	9										
Thorium-230	pCi/g	4.8	52%	17	33	0.8 U	+/-0.3	0.6 U	+/-0.3	0.8	+/-0.3	1.1	+/-0.4	0.4 J	+/-0.5
Thorium-232	pCi/g	4.1	100%	33	33	0.7	+/-0.3	0.8	+/-0.3	0.7	+/-0.3	1	+/-0.4	1.4 J	+/-0.7
Thorium-234	pCi/g	1.1	100%	9	9										
Tritium	pCi/g	5.7	24%	8	33	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1
Uranium-234	pCi/g	1.2	79%	26	33	1	+/-0.4	0.7	+/-0.2	0.6	+/-0.2	0.7	+/-0.3	1 J	+/-0.4
Uranium-235	pCi/g	0.1	21%	7	33	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1
Uranium-238	pCi/g	1.1	91%	30	33	0.5	+/-0.3	0.6	+/-0.2	0.5	+/-0.2	1.1	+/-0.3	0.6 J	+/-0.3

TABLE G-27  
DISPOSAL PIT C RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-33 SOIL		SEAD-12 MW12-34 SOIL		SEAD-12 MW12-34 SOIL		SEAD-12 MW12-7 SOIL		SEAD-12 MW12-7 SOIL	
						123197	123199	123200	123181	123182	31-Oct-98	31-Oct-98	31-Oct-98	28-Oct-98	28-Oct-98
PARAMETER						VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error
Actinium-228	pCi/g	1.2	100%	9	9										
Bismuth-214	pCi/g	2.4	100%	42	42	1.9	+/-0.5	1.8	+/-0.5	1.5	+/-0.3	1.4	+/-0.5	1.9	+/-0.4
Cesium-137	pCi/g	0.7	87%	22	33	0.1 J	+/-0.1	0.2 J	+/-0.1	0.1 UJ		0.1 U		0.1 U	
Cobalt-57	pCi/g	0.7	30%	10	33	0.1	+/-0.1	0.2	+/-0.1	0.2 U		0.1 U		0.1	+/-0.1
Cobalt-60	pCi/g	0.8	79%	26	33	0.1 UJ		0.3 J	+/-0.1	0.4 J	+/-0.1	0.2	+/-0.1	0.1	+/-0.1
Gross Alpha	pCi/g	21	100%	9	9										
Gross Beta	pCi/g	30	100%	9	9										
Lead-210	pCi/g	40.5	68%	29	33	6.2 J	+/-2.4	4.6 J	+/-2.5	3 J	+/-2.5	5.8 J	+/-2.8	4.8 J	+/-2.7
Lead-211	pCi/g	19	55%	18	33	11.3 J	+/-3.2	8.1 J	+/-3	12.8 J	+/-4.7	2.3 U		8.5	+/-2.5
Lead-214	pCi/g	2.3	100%	42	42	2 J	+/-0.3	1.9 J	+/-0.4	1.7 J	+/-0.4	1.6	+/-0.4	1.6	+/-0.3
Plutonium-239/240	pCi/g	0.1	18%	6	33	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.2	9%	3	33	0.5 UJ		0.5 UJ		0.4 UJ		0.6 U		0.4 U	
Radium-226	pCi/g	2.2	88%	29	33	1.9	+/-0.5	1.8	+/-0.5	1.5	+/-0.3	1.4	+/-0.6	1.9	+/-0.4
Radium-228	pCi/g	5	100%	33	33	2	+/-0.5	1.5	+/-0.4	2.9	+/-0.5	2.3 J	+/-0.5	1.8 J	+/-0.4
Thallium-208	pCi/g	1.6	100%	9	9										
Thorium-230	pCi/g	4.8	52%	17	33	0.9 J	+/-0.6	0.8	+/-0.4	1.2 J	+/-0.6	0.2 J	+/-0.5	0.2 J	+/-0.3
Thorium-232	pCi/g	4.1	100%	33	33	0.8 J	+/-0.4	0.5	+/-0.3	1 J	+/-0.5	0.3	+/-0.3	0.5	+/-0.3
Thorium-234	pCi/g	1.1	100%	9	9										
Tritium	pCi/g	5.7	24%	8	33	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.2	79%	26	33	0.8 J	+/-0.3	0.6 J	+/-0.3	1.2 J	+/-0.5	0.8	+/-0.3	0.7	+/-0.3
Uranium-235	pCi/g	0.1	21%	7	33	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.2	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.1	91%	30	33	0.9	+/-0.3	0.6	+/-0.3	1 J	+/-0.5	0.7	+/-0.3	0.7	+/-0.2



TABLE G-27  
DISPOSAL PIT C RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF	NUMBER OF	NUMBER OF	RI Phase 1 Step 1	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error
	SEAD-12																							
	TP12-3A	SOIL	123085	0.8	0.8	07-Oct-98	DU																	
	SEAD-12																							
	TP12-3A	SOIL	123082	0.8	0.8	07-Oct-98	SA																	
	SEAD-12																							
	TP12-3B	SOIL	123083	5.5	5.5	07-Oct-98	SA																	
	SEAD-12																							
	TP12-3C	SOIL	123084	4	4	07-Oct-98	SA																	
	SEAD-12																							
	TP12-4A	SOIL	123086	0.5	0.5	12-Oct-98	SA																	
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	
Actinium-228	pCi/g	1.2	100%	9	9																			
Bismuth-214	pCi/g	2.4	100%	42	42	1.6	J	+/-0.3	2.4	J	+/-0.4	1.6	J	+/-0.4	1.4	J	+/-0.5	2.2	J	+/-0.3	2.2	J	+/-0.3	+/-0.3
Cesium-137	pCi/g	0.7	67%	22	33	0.2	J	+/-0.1	0.2	UJ		0.3	J	+/-0.1	0.2	J	+/-0.1	0.5	UJ		0.5	UJ		+/-0.2
Cobalt-57	pCi/g	0.7	30%	10	33	0.1	U		0.1	U		0.1	U		0.2	J	+/-0.1	0.1	U		0.1	U		
Cobalt-60	pCi/g	0.5	79%	26	33	0.1	UJ		0.2	J	+/-0.1	0.1	UJ		0.2	J	+/-0.1	0.1	U		0.1	U		
Gross Alpha	pCi/g	21	100%	9	9																			
Gross Beta	pCi/g	30	100%	9	9																			
Lead-210	pCi/g	40.5	88%	29	33	40.5	J	+/-29.5	3.1	J	+/-1.6	38	UJ		3.5	J	+/-2.3	4.5	J	+/-2.9	4.5	J	+/-2.9	+/-2.9
Lead-211	pCi/g	19	55%	18	33	5.1	J	+/-3	5.2	J	+/-4.1	19	J	+/-6.3	3	UJ		6.5	UJ		6.5	UJ		+/-3.9
Lead-214	pCi/g	2.3	100%	42	42	1.3	J	+/-0.4	1.5	J	+/-0.5	1.2	J	+/-0.3	1.4	J	+/-0.4	2.3	J	+/-0.5	2.3	J	+/-0.5	+/-0.5
Plutonium-239/240	pCi/g	0.1	18%	6	33	0.2	U	+/-0.1	0.2	U	+/-0.1	0.2	U	+/-0.1	0.1	U	+/-0.1	0.1	U		0.1	U		+/-0.1
Promethium-147	pCi/g	0	0%	0	2																			
Radium-223	pCi/g	1.2	9%	3	33	0.5	UJ		1.5	UJ	+/-0.7	0.7	UJ	+/-0.5	0.6	UJ		0.5	U		0.5	U		
Radium-226	pCi/g	2.2	88%	29	33	1.6	U	+/-0.3	2.4	U	+/-0.4	1.6	U	+/-0.4	1.4	U	+/-0.5	2.2	U		2.2	U		+/-0.3
Radium-228	pCi/g	5	100%	33	33	2.1	J	+/-0.5	1.5	J	+/-0.4	5	J	+/-0.8	2.2	J	+/-0.6	2	J		2	J		+/-0.5
Thallium-208	pCi/g	1.8	100%	9	9																			
Thorium-230	pCi/g	4.8	52%	17	33	0.9	U	+/-0.3	1.3	U	+/-0.5	4.8	J	+/-1.2	1.3	UJ	+/-0.5	1.3	U		1.3	U		+/-0.4
Thorium-232	pCi/g	4.1	100%	33	33	1.1	J	+/-0.4	0.9	J	+/-0.4	4.1	J	+/-1.1	0.8	J	+/-0.4	0.8	J		0.8	J		+/-0.3
Thorium-234	pCi/g	1.1	100%	9	9																			
Tritium	pCi/g	5.7	24%	8	33	0.1	UJ	+/-0.1	0.3	J	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U		0.1	U		+/-0.1
Uranium-234	pCi/g	1.2	79%	26	33	0.8	U	+/-0.3	0.7	U	+/-0.3	0.7	U	+/-0.2	0.5	U	+/-0.2	0.8	U		0.8	U		+/-0.3
Uranium-235	pCi/g	0.1	21%	7	33	0.1	J	+/-0.1	0.1	J	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U		0.1	U		+/-0.1
Uranium-238	pCi/g	1.1	91%	30	33	0.9	J	+/-0.3	0.7	J	+/-0.3	0.7	J	+/-0.2	0.7	J	+/-0.2	1.2	U		1.2	U		+/-0.3

TABLE G-27  
DISPOSAL PIT C RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12																			
LOCATION ID		TP12-4B				TP12-4C				TP12-5A				TP12-5B							
MATRIX		SOIL																			
SAMPLE ID		123087				123088				123092				123089				123090			
DEPTH TO TOP OF SAMPLE		6				8				0.5				0.5				2			
DEPTH TO BOTTOM OF SAMPLE		6				8				0.5				0.5				2			
SAMPLE DATE		12-Oct-98				12-Oct-98				13-Oct-98				13-Oct-98				13-Oct-98			
QC CODE		SA				SA				DU				SA				SA			
STUDY ID		RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1				RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMUM	DETECTION OF	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	
Actinium-228	pCi/g	1.2	100%	9	9							1.7		+/-0.3	1.6		+/-0.4	2		+/-0.6	
Bismuth-214	pCi/g	2.4	100%	42	42	1.4		+/-0.3	1.8		+/-0.5	0.4	J	+/-0.1	0.5	J	+/-0.1	0.6	J	+/-0.3	
Cesium-137	pCi/g	0.7	67%	22	33	0.3	UJ	+/-0.1	0.1	UJ		0.1	J	+/-0.1	0.7	J	+/-0.4	0.1	U		
Cobalt-57	pCi/g	0.7	30%	10	33	0.1	U		0.1		+/-0.1	0.1	UJ		0.1	J	+/-0.1	0.1	U		
Cobalt-60	pCi/g	0.5	79%	26	33	0.1	U		0.3		+/-0.1	0.1	J	+/-0.1	0.1	UJ		0.2		+/-0.1	
Gross Alpha	pCi/g	21	100%	9	9																
Gross Beta	pCi/g	30	100%	9	9																
Lead-210	pCi/g	40.5	88%	29	33	35.8	J	+/-24.5	3.8	J	+/-2	23.8	J	+/-17.8	34.5	UJ		17.8	J	+/-15.1	
Lead-211	pCi/g	19	55%	18	33	3	UJ	+/-2.4	11.8	J	+/-6.5	1.3	UJ		1.1	UJ		1.8	UJ		
Lead-214	pCi/g	2.3	100%	42	42	1.5		+/-0.4	2.1		+/-0.5	1.4		+/-0.3	1.5		+/-0.3	1.8		+/-0.4	
Plutonium-239/240	pCi/g	0.1	18%	6	33	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1	
Promethium-147	pCi/g	0	0%	0	2																
Radium-223	pCi/g	1.2	9%	3	33	0.4	U		0.5	U		0.4	U		0.5	U		0.8		+/-0.4	
Radium-226	pCi/g	2.2	88%	29	33	1.4		+/-0.3	1.8		+/-0.5	1.7		+/-0.3	1.6		+/-0.4	2		+/-0.6	
Radium-228	pCi/g	5	100%	33	33	2		+/-0.5	2.2		+/-0.7	2		+/-0.5	1.9		+/-0.6	1.8		+/-0.5	
Thallium-208	pCi/g	1.6	100%	9	9																
Thorium-230	pCi/g	4.8	52%	17	33	0.8	U	+/-0.3	0.7	U	+/-0.3	1.5		+/-0.5	1	UJ	+/-0.4	1	U	+/-0.4	
Thorium-232	pCi/g	4.1	100%	33	33	0.6		+/-0.3	1		+/-0.4	1.2		+/-0.5	1	J	+/-0.4	1		+/-0.4	
Thorium-234	pCi/g	1.1	100%	9	9																
Tritium	pCi/g	5.7	24%	8	33	0.1	U	+/-0.1	0.1	U	+/-0.1	5.7	J	+/-0.1	0.1	UJ	+/-0.1	0.1	U	+/-0.1	
Uranium-234	pCi/g	1.2	79%	26	33	0.7	U	+/-0.2	0.6	UJ	+/-0.2	0.9	J	+/-0.3	0.7	J	+/-0.3	0.7		+/-0.2	
Uranium-235	pCi/g	0.1	21%	7	33	0.1		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	
Uranium-238	pCi/g	1.1	91%	30	33	0.6	U	+/-0.2	0.8	UJ	+/-0.3	0.9	J	+/-0.3	0.6	J	+/-0.2	0.7		+/-0.2	

TABLE G-27  
DISPOSAL PIT C RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	SEAD-12																			
LOCATION ID	TP12-5C				TP12-6A				TP12-6B				TP12-6C				TP12-7AA			
MATRIX	SOIL																			
SAMPLE ID	123091				123158				123159				123160				123128			
DEPTH TO TOP OF SAMPLE	8				2.5				3				3.5				1			
DEPTH TO BOTTOM OF SAMPLE	8				2.5				3				3.5				1			
SAMPLE DATE	13-Oct-98				17-Oct-98				17-Oct-98				17-Oct-98				15-Oct-98			
QC CODE	SA																			
STUDY ID	FREQUENCY OF				NUMBER OF				NUMBER OF				RI Phase 1 Step 1				RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error
Actinium-228	pCi/g	1.2	100%	9	9															
Bismuth-214	pCi/g	2.4	100%	42	42	1.9		+/-0.5	1.7		+/-0.4	2		+/-0.3	1.7		+/-0.5	2		+/-0.5
Cesium-137	pCi/g	0.7	67%	22	33	0.1	UJ		0.6		+/-0.3	0.7		+/-0.2	0.2	U		0.7	J	+/-0.1
Cobalt-57	pCi/g	0.7	30%	10	33	0.1		+/-0.1	0.1	U		0.1	U		0.1		+/-0.1	0.1	U	
Cobalt-60	pCi/g	0.5	79%	26	33	0.2		+/-0.1	0.5	J		0.4	J		0.3	J		0.3		+/-0.1
Gross Alpha	pCi/g	21	100%	9	9															
Gross Beta	pCi/g	30	100%	9	9															
Lead-210	pCi/g	40.5	88%	29	33	2.9	J	+/-2.1	1.9		+/-1.6	5.8		+/-2.7	2.3		+/-1.5	3	J	+/-2.4
Lead-211	pCi/g	19	55%	18	33	11.9	J	+/-6.6	1.3	UJ		1.7	UJ		0.9	UJ		2.6	J	+/-1.7
Lead-214	pCi/g	2.3	100%	42	42	1.6		+/-0.4	1.4		+/-0.4	1.9		+/-0.4	1.4		+/-0.4	1.7	J	+/-0.5
Plutonium-239/240	pCi/g	0.1	18%	6	33	0.1	J	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Promethium-147	pCi/g	0	0%	0	2															
Radium-223	pCi/g	1.2	9%	3	33	0.5	U		0.5	U		0.4	U		0.5	U		0.5	UJ	
Radium-226	pCi/g	2.2	88%	29	33	1.9		+/-0.5	1.7		+/-0.4	2		+/-0.3	1.7		+/-0.5	2		+/-0.5
Radium-228	pCi/g	5	100%	33	33	2.4		+/-0.5	2		+/-0.8	1.4		+/-0.5	2		+/-0.4	1.8		+/-0.5
Thallium-208	pCi/g	1.8	100%	9	9															
Thorium-230	pCi/g	4.8	52%	17	33	0.8	UJ	+/-0.4	0.8	J	+/-0.3	1	J	+/-0.4	0.9	J	+/-0.3	0.9	U	+/-0.3
Thorium-232	pCi/g	4.1	100%	33	33	0.9	J	+/-0.4	0.8		+/-0.3	0.8		+/-0.3	0.9		+/-0.3	0.6		+/-0.3
Thorium-234	pCi/g	1.1	100%	9	9															
Tritium	pCi/g	5.7	24%	8	33	0.1	U	+/-0.1	2.1		+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.9		+/-0.1
Uranium-234	pCi/g	1.2	79%	26	33	0.8		+/-0.3	0.5	J	+/-0.2	0.7		+/-0.2	0.4	J	+/-0.2	0.8	J	+/-0.3
Uranium-235	pCi/g	0.1	21%	7	33	0.1		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-238	pCi/g	1.1	91%	30	33	0.6		+/-0.2	0.7	J	+/-0.2	0.8	J	+/-0.3	0.6	J	+/-0.2	0.9	J	+/-0.3

TABLE G-27  
DISPOSAL PIT C RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12					
LOCATION ID		TP12-7BA		TP12-7BB		TP12-8A		TP12-8B		TP12-8C					
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL					
SAMPLE ID		123127		123128		123130		123132		123131					
DEPTH TO TOP OF SAMPLE		1		2		1		3		2					
DEPTH TO BOTTOM OF SAMPLE		1		2		1		3		2					
SAMPLE DATE		15-Oct-98		15-Oct-98		15-Oct-98		15-Oct-98		15-Oct-98					
QC CODE		SA		SA		SA		SA		SA					
STUDY ID		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1					
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error	VALUE	(Q) error
Actinium-228	pCi/g	1.2	100%	9	9										
Bismuth-214	pCi/g	2.4	100%	42	42	0.9	+/-0.4	1.3	+/-0.4	1.1	+/-0.3	1.1	+/-0.3	1.3	+/-0.4
Cesium-137	pCi/g	0.7	87%	22	33	0.3 J	+/-0.1	0.7 J	+/-0.2	0.2 J	+/-0.1	0.5 J	+/-0.1	0.6 J	+/-0.1
Cobalt-57	pCi/g	0.7	30%	10	33	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.5	79%	26	33	0.3	+/-0.1	0.3	+/-0.1	0.5	+/-0.2	0.2	+/-0.1	0.4	+/-0.1
Gross Alpha	pCi/g	21	100%	9	9										
Gross Beta	pCi/g	30	100%	9	9										
Lead-210	pCi/g	40.5	88%	29	33	19.2 UJ		36.8 J	+/-30.5	35 J	+/-27.1	35.2 J	+/-25.8	4 J	+/-2.7
Lead-211	pCi/g	19	55%	18	33	9.8 J	+/-3.1	6.3 J	+/-2.2	1.1 UJ		1.9 J	+/-1.2	12.6 J	+/-2.8
Lead-214	pCi/g	2.3	100%	42	42	1.1 J	+/-0.3	1.5 J	+/-0.4	1.1 J	+/-0.3	1 J	+/-0.3	1.5 J	+/-0.5
Plutonium-239/240	pCi/g	0.1	18%	6	33	0.1	+/-0.1	0.1 UJ	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.2	9%	3	33	0.3 UJ		0.4 UJ		0.4 UJ		0.2 UJ		0.4 UJ	
Radium-226	pCi/g	2.2	88%	29	33	0.9	+/-0.4	1.3	+/-0.4	1.1	+/-0.3	1.1	+/-0.3	1.3	+/-0.4
Radium-228	pCi/g	5	100%	33	33	1.4	+/-0.4	1.8	+/-0.5	1.6	+/-0.5	1.8	+/-0.4	1.9	+/-0.5
Thallium-208	pCi/g	1.6	100%	9	9										
Thorium-230	pCi/g	4.8	52%	17	33	1 U	+/-0.4	1.5	+/-0.5	1.1 U	+/-0.4	1 U	+/-0.4	1.1 UJ	+/-0.5
Thorium-232	pCi/g	4.1	100%	33	33	0.7	+/-0.3	1.3	+/-0.5	1	+/-0.3	0.9	+/-0.3	0.7 J	+/-0.3
Thorium-234	pCi/g	1.1	100%	9	9										
Tritium	pCi/g	5.7	24%	8	33	0.1 U	+/-0.1	0.1	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.4 U	+/-0.1
Uranium-234	pCi/g	1.2	79%	26	33	0.7	+/-0.2	1	+/-0.3	0.9	+/-0.3	0.8	+/-0.3	0.7	+/-0.2
Uranium-235	pCi/g	0.1	21%	7	33	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.1	91%	30	33	0.7	+/-0.2	1	+/-0.3	1	+/-0.3	0.7	+/-0.2	0.5	+/-0.2

TABLE G-27  
DISPOSAL PIT C RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	
	SEAD-12		TP12A-3	2.5	2.5	22-Jun-94	SA																				
	SEAD-12		TP12A-3	6	6	22-Jun-94	SA																				
	SEAD-12		TP12A-4	4	4	21-Jun-94	SA																				
	SEAD-12		TP12A-4	4	4	21-Jun-94	SA																				
	SEAD-12		TP12A-5	3	3	23-Jun-94	SA																				
	SEAD-12		TP12A-6	1	1	23-Jun-94	SA																				
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	
Actinium-228	pCi/g	1.2	100%	9	9	1.2		+/-0.3	0.96		+/-0.26	0.93		+/-0.29	0.75		+/-0.21	0.72		+/-0.25	0.98		+/-0.3			+/-0.3	
Bismuth-214	pCi/g	2.4	100%	42	42	0.93		+/-0.12	0.84		+/-0.28	0.92		+/-0.31	0.73		+/-0.1	0.61		+/-0.1	0.86		+/-0.29			+/-0.29	
Cesium-137	pCi/g	0.7	67%	22	33																						
Cobalt-57	pCi/g	0.7	30%	10	33																						
Cobalt-60	pCi/g	0.5	79%	26	33																						
Gross Alpha	pCi/g	21	100%	9	9	21		+/-8	10		+/-6	12		+/-6	7		+/-5	8		+/-6	14		+/-7			+/-7	
Gross Beta	pCi/g	30	100%	9	9	30		+/-6	27		+/-6	17		+/-6	21		+/-6	22		+/-6	29		+/-6			+/-6	
Lead-210	pCi/g	40.5	88%	29	33																						
Lead-211	pCi/g	19	55%	18	33																						
Lead-214	pCi/g	2.3	100%	42	42	1		+/-0.2	0.85		+/-0.15	0.84		+/-0.15	0.77		+/-0.1	0.72		+/-0.1	0.88		+/-0.16			+/-0.16	
Plutonium-239/240	pCi/g	0.1	18%	6	33																						
Promethium-147	pCi/g	0	0%	0	2																						
Radium-223	pCi/g	1.2	9%	3	33																						
Radium-226	pCi/g	2.2	88%	29	33																						
Radium-228	pCi/g	5	100%	33	33																						
Thallium-208	pCi/g	1.6	100%	9	9	0.49		0.23	0.89		0.66	1.6		0.7	0.55		0.22	0.24		0.05	0.49		0.23			0.23	
Thorium-230	pCi/g	4.8	52%	17	33																						
Thorium-232	pCi/g	4.1	100%	33	33																						
Thorium-234	pCi/g	1.1	100%	9	9	0.58		+/-0.28	0.52		+/-0.39	0.88		+/-0.41	0.24		+/-0.24	0.36		+/-0.24	1.1		+/-0.4			+/-0.4	
Tritium	pCi/g	5.7	24%	8	33																						
Uranium-234	pCi/g	1.2	79%	26	33																						
Uranium-235	pCi/g	0.1	21%	7	33																						
Uranium-238	pCi/g	1.1	91%	30	33																						







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TABLE G-28  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12																	
LOCATION ID						MW12-16		MW12-17		MW12-18		MW12-18		MW12-35																	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL																	
SAMPLE ID						123149		123152		123043		123037		123186																	
DEPTH TO TOP OF SMPLE						0		0		0		0		0																	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2																	
SAMPLE DATE						17-Oct-98		16-Oct-98		02-Oct-98		02-Oct-98		29-Oct-98																	
QC CODE						SA		SA		DU		SA		SA																	
STUDY ID				FREQUENCY		NUMBER		NUMBER		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1																	
PARAMETER		UNIT		MAXIMUM		DETECTION		DETECTS		ANALYSES		VALUE		(Q) error		VALUE		(Q) error		VALUE		(Q) error		VALUE		(Q) error		VALUE		(Q) error	
Bismuth-214	pCi/g	3.5	100%	28	28	1.8	J	+/-0.6	1.2	J	+/-0.4	1.8	J	+/-0.4	1.2	J	+/-0.3	1.7	J	+/-0.7											
Cesium-137	pCi/g	1.1	82%	23	28	0.9		+/-0.3	0.5		+/-0.2	0.5	J	+/-0.3	0.4		+/-0.2	0.2		+/-0.1											
Cobalt-57	pCi/g	0.2	29%	8	28	0.2		+/-0.1	0.1	U		0.1	U		0.1	U		0.1	U	+/-0.1											
Cobalt-60	pCi/g	0.4	21%	6	28	0.3	J	+/-0.1	0.1	UJ		0.1	J	+/-0.1	0.2		+/-0.1	0.4		+/-0.2											
Lead-210	pCi/g	70.8	68%	19	28	4.8		+/-2.6	6.8		+/-2.4	5.9	J	+/-3.3	3.2	J	+/-2.3	5.6	J	+/-2.7											
Lead-211	pCi/g	19.4	36%	10	28	0.9	UJ		2.7	UJ		12.4	J	+/-7.3	1.3	UJ		12.5		+/-5											
Lead-214	pCi/g	2.8	100%	28	28	1.8		+/-0.3	1.6		+/-0.4	1.6		+/-0.4	1.4		+/-0.3	2.8		+/-0.3											
Plutonium-239/240	pCi/g	1	36%	10	28	0.2	U	+/-0.1	0.1	U	+/-0.1	0.2	U	+/-0.1	0.1	U	+/-0.1	0.2	U	+/-0.1											
Promethium-147	pCi/g	0	0%	0	1																										
Radium-223	pCi/g	0.4	11%	3	28	0.5	U		0.5	U		0.5	U		0.4	U		0.4	U												
Radium-226	pCi/g	3.5	100%	28	28	1.8	J	+/-0.6	1.2	J	+/-0.4	1.8	J	+/-0.4	1.2	J	+/-0.3	1.7		+/-0.7											
Radium-228	pCi/g	3.3	100%	28	28	2.1		+/-0.5	1.3		+/-0.4	2.5		+/-0.6	2.1		+/-0.5	1.9	J	+/-0.4											
Thorium-230	pCi/g	2.1	25%	7	28	1.1	J	+/-0.4	1.2	J	+/-0.4	2		+/-0.9	2.1		+/-1.1	0.9	J	+/-0.5											
Thorium-232	pCi/g	1.2	100%	28	28	0.7	J	+/-0.3	1.2	J	+/-0.4	0.6		+/-0.5	0.6		+/-0.5	0.9		+/-0.4											
Tritium	pCi/g	17.3	57%	16	28	0.6		+/-0.1	0.4		+/-0.1	0.1	U	+/-170	0.1	U	+/-176	0.1	UJ	+/-0.1											
Uranium-233/234	pCi/g	0.9	50%	14	28	0.7		+/-0.2	0.6		+/-0.2	0.7	J	+/-0.5	0.8		+/-0.5	0.6		+/-0.2											
Uranium-235	pCi/g	0.3	50%	14	28	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	J	+/-0.2	0.1		+/-0.2	0.1		+/-0.1											
Uranium-238	pCi/g	1	100%	28	28	0.8	J	+/-0.3	0.8	J	+/-0.3	0.7	J	+/-0.5	0.7	J	+/-0.5	0.7	J	+/-0.5											

TABLE G-28  
FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12					
LOCATION ID				MW12-9		SB12-5A		SS12-127		SS12-128		SS12-129		SS12-129		SS12-130					
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL					
SAMPLE ID				123155		123096		123321		123322		123322		123324		123324					
DEPTH TO TOP OF SMAPLE				0		0		0		0		0		0		0					
DEPTH TO BOTTOM OF SAMPLE				0.2		0.2		0.2		0.2		0.2		0.2		0.2					
SAMPLE DATE				17-Oct-98		14-Oct-98		13-Nov-98		13-Nov-98		16-Nov-98		13-Nov-98		13-Nov-98					
QC CODE				SA		SA		SA		SA		SA		SA		SA					
STUDY ID				FREQUENCY	RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1				
PARAMETER	UNIT	MAXIMUM	DETECTION	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error			
Bismuth-214	pCi/g	3.5	100%	1.9		+/-0.5	1.2	J	+/-0.4	1.6		+/-0.5	1.8		+/-0.3	3.5	J	+/-0.6	1.3		+/-0.3
Cesium-137	pCi/g	1.1	82%	0.4		+/-0.2	0.3	J	+/-0.2	0.7	J	+/-0.2	0.6	J	+/-0.1	0.6		+/-0.2	0.6		+/-0.1
Cobalt-57	pCi/g	0.2	29%	0.2		+/-0.1	0.1	U		0.1		+/-0.1	0.1	U		0.1	U		0.1	U	
Cobalt-60	pCi/g	0.4	21%	0.2	J	+/-0.1	0.2	J	+/-0.1	0.1	U		0.1	U		0.1	U		0.1	U	
Lead-210	pCi/g	70.8	68%	4.4		+/-2.6	2.6	J	+/-1.7	49.8		+/-34.5	18.2	U		4.6		+/-2.1	22.7	U	
Lead-211	pCi/g	19.4	36%	19.4	J	+/-4.1	14	J	+/-7.2	3.9		+/-2.2	0.7	U		2.9	UJ		1.6	U	
Lead-214	pCi/g	2.8	100%	1.6		+/-0.5	1.7		+/-0.4	1		+/-0.3	1.3		+/-0.3	2.8	J	+/-0.5	1.3		+/-0.4
Plutonium-239/240	pCi/g	1	36%	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.2	UJ	+/-0.2
Promethium-147	pCi/g	0	0%				1.3	UJ	+/-5												
Radium-223	pCi/g	0.4	11%	0.6	U		0.5	U		0.4	U		0.4	U		0.6	U		0.4	U	
Radium-226	pCi/g	3.5	100%	1.9		+/-0.5	1.2	J	+/-0.4	1.6		+/-0.5	1.8		+/-0.3	3.5	J	+/-0.6	1.3		+/-0.3
Radium-228	pCi/g	3.3	100%	0.9		+/-0.4	1.9		+/-0.5	1.2		+/-0.4	1.5		+/-0.5	2.6	J	+/-0.8	1.9		+/-0.4
Thorium-230	pCi/g	2.1	25%	1.6	J	+/-0.6	1	U	+/-0.4	1	U	+/-0.3	1	U	+/-0.4	1.3	U	+/-0.4	1.2	U	+/-0.4
Thorium-232	pCi/g	1.2	100%	0.5		+/-0.3	0.9	J	+/-0.4	0.9		+/-0.3	0.7		+/-0.3	1		+/-0.4	0.8		+/-0.3
Tritium	pCi/g	17.3	57%	0.1	U	+/-0.1	0.1	UJ	+/-0.1	15.4		+/-0.2	0.1	U	+/-0.1	5.5		+/-0.1	0.8	J	+/-0.1
Uranium-233/234	pCi/g	0.9	50%	0.5	J	+/-0.2	0.7	UJ	+/-0.3	0.9	U	+/-0.4	0.4	U	+/-0.2	0.8	J	+/-0.3	0.8	J	+/-0.5
Uranium-235	pCi/g	0.3	50%	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.3	U	+/-0.1
Uranium-238	pCi/g	1	100%	0.6	J	+/-0.2	0.9	J	+/-0.3	0.8		+/-0.3	0.6		+/-0.2	0.7	J	+/-0.2	1		+/-0.6

TABLE G-28  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12				
LOCATION ID				SS12-131		SS12-132		SS12-133		SS12-134		SS12-135		SS12-136				
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL				
SAMPLE ID				123325		123326		123327		123328		123329		123330				
DEPTH TO TOP OF SMAPLE				0		0		0		0		0		0				
DEPTH TO BOTTOM OF SAMPLE				0.2		0.2		0.2		0.2		0.2		0.2				
SAMPLE DATE				13-Nov-98		13-Nov-98		13-Nov-98		13-Nov-98		13-Nov-98		13-Nov-98				
QC CODE				SA		SA		SA		SA		SA		SA				
STUDY ID				FREQUENCY	RI Phase 1 Step 1	RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1				
PARAMETER	UNIT	MAXIMUM	DETECTION	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error
Bismuth-214	pCi/g	3.5	100%	1.5		+/-0.5	1.8		+/-0.4	1.3		+/-0.3	2.9		+/-0.6	1.5		+/-0.3
Cesium-137	pCi/g	1.1	82%	0.8	J	+/-0.2	0.7	J	+/-0.2	0.1	UJ		0.7	J	+/-0.3	0.9	J	+/-0.2
Cobalt-57	pCi/g	0.2	29%	0.1	U		0.1	U		0.1		+/-0.1	0.1		+/-0.1	0.1		+/-0.1
Cobalt-60	pCi/g	0.4	21%	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
Lead-210	pCi/g	70.8	68%	23.1	U		3.1		+/-1.9	27.3	U		5.6		+/-2.3	70.8		+/-39.8
Lead-211	pCi/g	19.4	36%	0.6	U		1.2	U		3.3		+/-2.1	2.2	U		5.2		+/-2.1
Lead-214	pCi/g	2.8	100%	1.3		+/-0.3	1.7		+/-0.3	1.4		+/-0.3	2.2		+/-0.5	1.2		+/-0.3
Plutonium-239/240	pCi/g	1	36%	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.1		+/-0.1
Promethium-147	pCi/g	0	0%															
Radium-223	pCi/g	0.4	11%	0.4	U		0.4	U		0.4		+/-0.3	0.5	U		0.4	U	
Radium-226	pCi/g	3.5	100%	1.5		+/-0.5	1.8		+/-0.4	1.3		+/-0.3	2.9		+/-0.6	1.5		+/-0.3
Radium-228	pCi/g	3.3	100%	1.4		+/-0.5	1.9		+/-0.4	1.7		+/-0.3	1.9		+/-0.6	1.6		+/-0.5
Thorium-230	pCi/g	2.1	25%	1	U	+/-0.4	0.9	U	+/-0.4	0.9	U	+/-0.3	1.1	U	+/-0.4	1.3	U	+/-0.4
Thorium-232	pCi/g	1.2	100%	0.7		+/-0.3	0.9		+/-0.3	0.8		+/-0.3	1		+/-0.4	1		+/-0.3
Tritium	pCi/g	17.3	57%	0.5		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	6		+/-0.2	0.1	U	+/-0.1
Uranium-233/234	pCi/g	0.9	50%	0.8	U	+/-0.3	0.7	U	+/-0.3	1.1	U	+/-0.4	0.7	U	+/-0.2	0.7	U	+/-0.2
Uranium-235	pCi/g	0.3	50%	0.2		+/-0.1	0.1		+/-0.1	0.3		+/-0.2	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-238	pCi/g	1	100%	0.9		+/-0.4	0.4		+/-0.2	0.8		+/-0.3	0.7		+/-0.2	0.5		+/-0.2

TABLE G-28  
FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12							
LOCATION ID				SS12-137		SS12-138		SS12-139		SS12-140		SS12-141		SS12-141							
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL							
SAMPLE ID				123331		123332		123333		123334		123336		123335							
DEPTH TO TOP OF SMAPLE				0		0		0		0		0		0							
DEPTH TO BOTTOM OF SAMPLE				0.2		0.2		0.2		0.2		0.2		0.2							
SAMPLE DATE				16-Nov-98		13-Nov-98		13-Nov-98		13-Nov-98		13-Nov-98		13-Nov-98							
QC CODE				SA		SA		SA		SA		DU		SA							
STUDY ID			FREQUENCY OF	RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1							
PARAMETER	UNIT	MAXIMUM	DETECTION	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error			
Bismuth-214	pCi/g	3.5	100%	1.5	J	+/-0.4	1.5	+/-0.4		1.8	+/-0.5		1.2	+/-0.4		1.6	+/-0.4		1	+/-0.3	
Cesium-137	pCi/g	1.1	82%	0.2		+/-0.1	1.1	+/-0.3		0.6	J	+/-0.3	0.4	J	+/-0.2	0.6	J	+/-0.2	0.5	+/-0.2	
Cobalt-57	pCi/g	0.2	29%	0.1	U		0.1	+/-0.1		0.1	U		0.1	U		0.1	U		0.1	U	
Cobalt-60	pCi/g	0.4	21%	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
Lead-210	pCi/g	70.8	68%	39.9	U		8.6	+/-4.5		5.4	+/-3.4		3.6	+/-1.7		5.3	+/-2.8		4.1	+/-2	
Lead-211	pCi/g	19.4	36%	1.3	UJ		9.3	+/-2.9		2.4	U		1.6	U		3.8	+/-2.9		2.1	U	
Lead-214	pCi/g	2.8	100%	1.7	J	+/-0.5	1.3	+/-0.3		1.9	+/-0.4		1.5	+/-0.3		2.3	+/-0.5		1.5	+/-0.3	
Plutonium-239/240	pCi/g	1	36%	0.1		+/-0.1	0.3	UJ	+/-0.1	1	+/-0.6		0.1	+/-0.1		0.2	+/-0.1		0.2	UJ	+/-0.1
Promethium-147	pCi/g	0	0%																		
Radium-223	pCi/g	0.4	11%	0.5	U		0.4	U		0.4	+/-0.3		0.3	U		0.4	U		0.4	U	
Radium-226	pCi/g	3.5	100%	1.5	J	+/-0.4	1.5	+/-0.4		1.8	+/-0.5		1.2	+/-0.4		1.6	+/-0.4		1	+/-0.3	
Radium-228	pCi/g	3.3	100%	2.2	J	+/-0.5	3.3	+/-0.6		1.7	+/-0.4		1.5	+/-0.4		1.7	+/-0.4		1.3	+/-0.4	
Thorium-230	pCi/g	2.1	25%	1.5	U	+/-0.5	1.2	U	+/-0.4	1	U	+/-0.4	1	U	+/-0.4	1	U	+/-0.3	1.4	+/-0.5	
Thorium-232	pCi/g	1.2	100%	1		+/-0.4	0.7	+/-0.3		0.9	+/-0.3		0.7	+/-0.3		0.9	+/-0.3		0.8	+/-0.3	
Tritium	pCi/g	17.3	57%	1.6		+/-0.1	10.5	J	+/-0.2	0.2	+/-0.1		0.1	+/-0.1		5	+/-0.1		17.3	J	+/-0.2
Uranium-233/234	pCi/g	0.9	50%	0.9		+/-0.3	0.9	J	+/-0.6	0.7	UJ	+/-0.3	0.7	UJ	+/-0.2	0.7	U	+/-0.3	0.9	J	+/-0.4
Uranium-235	pCi/g	0.3	50%	0.1	U	+/-0.1	0.1	+/-0.2		0.2	J	+/-0.2	0.1	J	+/-0.1	0.1	U	+/-0.1	0.1	+/-0.1	
Uranium-238	pCi/g	1	100%	0.7		+/-0.2	0.9	+/-0.5		1	J	+/-0.4	0.8	J	+/-0.3	0.9	+/-0.3		0.7	+/-0.4	

TABLE G-28  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY			SEAD-12			SEAD-12			SEAD-12			SEAD-12						
LOCATION ID			SS12-142			SS12-143			SS12-144			SS12-145						
MATRIX			SOIL			SOIL			SOIL			SOIL						
SAMPLE ID			123337			123338			123339			123340						
DEPTH TO TOP OF SMAPLE			0			0			0			0						
DEPTH TO BOTTOM OF SAMPLE			0.2			0.2			0.2			0.2						
SAMPLE DATE			13-Nov-98			13-Nov-98			17-Nov-98			17-Nov-98						
QC CODE			SA			SA			SA			SA						
STUDY ID			FREQUENCY RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1						
PARAMETER			UNIT	MAXIMUM	DETECTION	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	VALUE	(Q)	error	
Bismuth-214	pCi/g	3.5	100%	1.9		1.2		+/-0.5	1.2		+/-0.2	1		+/-0.2	2.8		J +/-0.4	
Cesium-137	pCi/g	1.1	82%	0.1	UJ	0.4			0.4		+/-0.1	0.1	U		0.1	U		
Cobalt-57	pCi/g	0.2	29%	0.1	U	0.1	U		0.1	U		0.1	U		0.1	U		
Cobalt-60	pCi/g	0.4	21%	0.1	U	0.1	U		0.1	U		0.1	U		0.1	U		
Lead-210	pCi/g	70.8	68%	2.7		22.2	U		23.2	J		+/-18.8	1.9	U		14.2	UJ	
Lead-211	pCi/g	19.4	36%	0.5	U	0.6	U		0.5	UJ			3.8	UJ		6.7	J +/-2	
Lead-214	pCi/g	2.8	100%	1.2		1		+/-0.2	1		+/-0.3	1.2		+/-0.3	2.2	J	+/-0.5	
Plutonium-239/240	pCi/g	1	36%	0.1	U	0.3	UJ		+/-0.1	0.1	U		+/-0.1	0.1		+/-0.1	0.2	U +/-0.1
Promethium-147	pCi/g	0	0%															
Radium-223	pCi/g	0.4	11%	0.3	U	0.3	U		0.3	U			0.5	U		0.2	+/-0.2	
Radium-226	pCi/g	3.5	100%	1.9		1.2		+/-0.5	1.2		+/-0.2	1		+/-0.2	2.8	J	+/-0.4	
Radium-228	pCi/g	3.3	100%	0.8		1.4		+/-0.3	1.4		+/-0.4	1.7		+/-0.4	1.9	J	+/-0.5	
Thorium-230	pCi/g	2.1	25%	0.6	U	1.1	U		+/-0.2	1.1	U		+/-0.4	1.1	UJ		+/-0.4	
Thorium-232	pCi/g	1.2	100%	0.2		0.9		+/-0.1	0.9		+/-0.4	1	J		+/-0.4	0.9	+/-0.4	
Tritium	pCi/g	17.3	57%	0.1	U	0.6	J		+/-0.1	0.6	J		+/-0.1	0.8		+/-0.1	0.1	U +/-0.1
Uranium-233/234	pCi/g	0.9	50%	0.8	U	0.5	J		+/-0.3	0.5	J		+/-0.2	0.6	J		+/-0.2	
Uranium-235	pCi/g	0.3	50%	0.1		0.1		+/-0.1	0.1		+/-0.1	0.1		0.1		+/-0.1	0.1	+/-0.1
Uranium-238	pCi/g	1	100%	0.4		0.4		+/-0.2	0.4		+/-0.2	0.9		+/-0.3	0.5	J	+/-0.2	







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TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID					SEAD-12 MW12-16 SOIL					SEAD-12 MW12-16 SOIL					SEAD-12 MW12-17 SOIL					SEAD-12 MW12-17 SOIL					SEAD-12 MW12-18 SOIL							
					123150					123151					123153						123154					123038						
					4					6					6						10					6						
					6					8					8						12					8						
					17-Oct-98					17-Oct-98					16-Oct-98						16-Oct-98					02-Oct-98						
QC CODE					SA					SA					SA						SA					SA						
STUDY ID			FREQUENCY OF	NUMBER OF	NUMBER OF	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error			
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES																											
Actinium-228	pCi/g	0.81	100%	8	8																											
Bismuth-214	pCi/g	2.5	89%	33	37	1.8	J	+/-0.5	1.9	J	+/-0.4	1.5	J	+/-0.4	1.6	J	+/-0.4	1.7	J	+/-0.5	1.7	J	+/-0.5	0.3	J	+/-0.2	0.3	J	+/-0.2	0.3	J	+/-0.2
Cesium-137	pCi/g	0.4	59%	17	29	0.3	J	+/-0.2	0.3	J	+/-0.1	0.3	J	+/-0.1	0.3	J	+/-0.1	0.3	J	+/-0.1	0.3	J	+/-0.1	0.3	J	+/-0.1	0.3	J	+/-0.1	0.3	J	+/-0.1
Cobalt-57	pCi/g	0.2	21%	6	29	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
Cobalt-60	pCi/g	0.6	55%	16	29	0.2	J	+/-0.1	0.1	J	+/-0.1	0.1	UJ		0.2	J	+/-0.1	0.2	J	+/-0.1	0.2	J	+/-0.1	0.2	J	+/-0.1	0.2	J	+/-0.1	0.2	J	+/-0.1
Gross Alpha	pCi/g	12	100%	8	8																											
Gross Beta	pCi/g	28	100%	8	8																											
Lead-210	pCi/g	38.2	59%	17	29	2.9	J	+/-1.5	2.9	J	+/-1.7	2.2	J	+/-1.4	3.8	J	+/-1.8	2.3	J	+/-1.9	2.3	J	+/-1.9	8.1	J	+/-5.3	8.1	J	+/-5.3	8.1	J	+/-5.3
Lead-211	pCi/g	12.3	38%	11	29	2.6	UJ		7.3	J	+/-2.7	12.3	J	+/-8	8.8	J	+/-5.7	1.2	J	+/-0.3	1.2	J	+/-0.3	1.2	J	+/-0.3	1.2	J	+/-0.3	1.2	J	+/-0.3
Lead-214	pCi/g	1.9	86%	32	37	1.1	J	+/-0.4	1.4	J	+/-0.4	1.7	J	+/-0.3	1.7	J	+/-0.4	1.2	J	+/-0.3	1.2	J	+/-0.3	1.2	J	+/-0.3	1.2	J	+/-0.3	1.2	J	+/-0.3
Plutonium-239/240	pCi/g	0	0%	0	29	0.1	U	+/-0.1	0.1	U	+/-0.1	0.2	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Promethium-147	pCi/g	95.7	75%	9	12																											
Radium-223	pCi/g	1	24%	7	29	0.5	U		0.4	U		0.4	U		0.4	U		0.9	U	+/-0.6	0.9	U	+/-0.6	0.9	U	+/-0.6	0.9	U	+/-0.6	0.9	U	+/-0.6
Radium-226	pCi/g	2.5	86%	25	29	1.8	J	+/-0.5	1.9	J	+/-0.4	1.5	J	+/-0.4	1.6	J	+/-0.4	1.7	J	+/-0.5	1.7	J	+/-0.5	1.7	J	+/-0.5	1.7	J	+/-0.5	1.7	J	+/-0.5
Radium-228	pCi/g	3.3	93%	27	29	1.6	J	+/-0.4	1	J	+/-0.4	2.3	J	+/-0.5	2	J	+/-0.6	1.5	J	+/-0.4	1.5	J	+/-0.4	1.5	J	+/-0.4	1.5	J	+/-0.4	1.5	J	+/-0.4
Thallium-208	pCi/g	0.46	100%	8	8																											
Thorium-227	pCi/g	0	0%	0	9																											
Thorium-230	pCi/g	1.8	69%	20	29	1.1	J	+/-0.4	1.1	J	+/-0.4	0.9	J	+/-0.3	1.1	J	+/-0.4	0.8	J	+/-0.3	0.8	J	+/-0.3	0.8	J	+/-0.3	0.8	J	+/-0.3	0.8	J	+/-0.3
Thorium-232	pCi/g	1.6	97%	28	29	0.9	J	+/-0.3	0.9	J	+/-0.3	0.7	J	+/-0.3	1	J	+/-0.4	0.8	J	+/-0.3	0.8	J	+/-0.3	0.8	J	+/-0.3	0.8	J	+/-0.3	0.8	J	+/-0.3
Thorium-234	pCi/g	0.39	100%	8	8																											
Tritium	pCi/g	0.1	31%	9	29	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-233/234	pCi/g	1.2	69%	20	29	0.6	J	+/-0.2	0.6	J	+/-0.2	0.5	J	+/-0.2	0.5	J	+/-0.2	0.8	J	+/-0.5	0.8	J	+/-0.5	0.8	J	+/-0.5	0.8	J	+/-0.5	0.8	J	+/-0.5
Uranium-235	pCi/g	0.1	31%	9	29	0.1	J	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.4	U	+/-0.1	0.4	U	+/-0.1	0.4	U	+/-0.1	0.4	U	+/-0.1	0.4	U	+/-0.1
Uranium-238	pCi/g	1.1	83%	27	29	0.9	J	+/-0.3	0.6	J	+/-0.2	0.8	J	+/-0.3	0.6	J	+/-0.2	0.7	J	+/-0.3	0.7	J	+/-0.3	0.7	J	+/-0.3	0.7	J	+/-0.3	0.7	J	+/-0.3

TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	SEAD-12 MW12-18	SEAD-12 MW12-35	SEAD-12 MW12-35	SEAD-12 MW12-9	SEAD-12 MW12-9															
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL															
SAMPLE ID		123039	123187	123188	123156	123157															
DEPTH TO TOP OF SMAPLE		10	10	14	6	10															
DEPTH TO BOTTOM OF SAMPLE		12	12	15.5	8	12															
SAMPLE DATE		02-Oct-98	29-Oct-98	29-Oct-98	17-Oct-98	17-Oct-98															
QC CODE		SA	SA	SA	SA	SA															
STUDY ID		FREQUENCY OF	NUMBER OF	NUMBER OF	RI Phase 1 Step 1	RI Phase 1 Step 1															
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	Value	(Q)	error	
Actinium-228	pCi/g	0.81	100%	8	8																
Bismuth-214	pCi/g	2.5	89%	33	37	2.5 J		+/-0.6	2.1		+/-0.6	1.4		+/-0.3	1.4		+/-0.4	2.2		+/-0.5	
Cesium-137	pCi/g	0.4	59%	17	29	0.1 U			0.2		+/-0.1	0.3		+/-0.2	0.1		+/-0.1	0.4		+/-0.1	
Cobalt-57	pCi/g	0.2	21%	6	29	0.1		+/-0.1	0.2		+/-0.1	0.1 U			0.1 U			0.1 U			
Cobalt-60	pCi/g	0.6	55%	16	29	0.2		+/-0.1	0.3		+/-0.2	0.1 U			0.2 J		+/-0.1	0.3 J		+/-0.2	
Gross Alpha	pCi/g	12	100%	8	8																
Gross Beta	pCi/g	28	100%	8	8																
Lead-210	pCi/g	38.2	59%	17	29	4 J		+/-2.3	1.7 J		+/-1.4	2.2 J		+/-2	3.5		+/-2.3	3.9		+/-3.1	
Lead-211	pCi/g	12.3	38%	11	29	1.2 UJ			2.2 U			1.5 U			3.8 J		+/-2.6	8 J		+/-5.1	
Lead-214	pCi/g	1.9	86%	32	37	1.6		+/-0.4	1.4		+/-0.4	1.4		+/-0.4	1.5		+/-0.4	1.9		+/-0.4	
Plutonium-239/240	pCi/g	0	0%	0	29	0.1 U		+/-0.1	0.1 U		+/-0.1	0.2 U		+/-0.1	0.1 UJ		+/-0.1	0.1 U		+/-0.1	
Promethium-147	pCi/g	95.7	75%	9	12																
Radium-223	pCi/g	1	24%	7	29	1		+/-0.5	0.5		+/-0.4	0.5		+/-0.3	0.4 U			0.7		+/-0.4	
Radium-226	pCi/g	2.5	86%	25	29	2.5 J		+/-0.6	2.1		+/-0.6	1.4		+/-0.3	1.4		+/-0.4	2.2		+/-0.5	
Radium-228	pCi/g	3.3	93%	27	29	2		+/-0.6	2.2 J		+/-0.5	2 J		+/-0.4	1.8		+/-0.5	1.4		+/-0.4	
Thallium-208	pCi/g	0.46	100%	8	8																
Thorium-227	pCi/g	0	0%	0	9																
Thorium-230	pCi/g	1.8	69%	20	29	1.4		+/-0.8	1 J		+/-0.6	1.8 J		+/-0.8	0.8 J		+/-0.3	1.2 J		+/-0.4	
Thorium-232	pCi/g	1.6	97%	28	29	0.8		+/-0.6	0.8		+/-0.5	0.9		+/-0.5	0.7		+/-0.3	0.7		+/-0.3	
Thorium-234	pCi/g	0.39	100%	8	8																
Tritium	pCi/g	0.1	31%	9	29	0.1 U		+/-174	0.1 UJ		+/-0.1	0.1 UJ		+/-0.1	0.1 U		+/-0.1	0.1 U		+/-0.1	
Uranium-233/234	pCi/g	1.2	69%	20	29	1.2 J		+/-0.6	0.6		+/-0.2	0.7 J		+/-0.2	0.8		+/-0.3	0.5		+/-0.2	
Uranium-235	pCi/g	0.1	31%	9	29	0.1 J		+/-0.1	0.1		+/-0.1	0.1 U		+/-0.1	0.1 U		+/-0.1	0.1 U		+/-0.1	
Uranium-238	pCi/g	1.1	93%	27	29	0.7 J		+/-0.4	0.8		+/-0.3	0.7 J		+/-0.2	0.7 J		+/-0.2	0.6 J		+/-0.2	

TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID				MW12B-1		MW12B-1		MW12B-1		SB12-5A		SB12-5A	
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID				MW12B-1-20		MW12B-1-03		MW12B-1-07		12519		12520	
DEPTH TO TOP OF SMPLE				4		4		12		0		3	
DEPTH TO BOTTOM OF SAMPLE				6		6		13.5		3		6	
SAMPLE DATE				13-Jun-94		13-Jun-94		13-Jun-94		08-Nov-97		08-Nov-97	
QC CODE				DU		SA		SA		SA		SA	
STUDY ID				ESI		ESI		ESI		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	Value	(Q) error	Value	(Q) error	Value	(Q) error	Value	(Q) error
Actinium-228	pCi/g	0.81	100%	8	8	0.81	+/-0.26	0.67	+/-0.25	0.63	+/-0.2		
Bismuth-214	pCi/g	2.5	89%	33	37	0.85	+/-0.26	0.91	+/-0.27	0.93	+/-0.32	2.1 J	+/-0.5
Cesium-137	pCi/g	0.4	59%	17	29							0.5 U	0.4 U
Cobalt-57	pCi/g	0.2	21%	6	29							0.1 U	0.1 U
Cobalt-60	pCi/g	0.6	55%	16	29							0.1 U	0.2 U
Gross Alpha	pCi/g	12	100%	8	8	6	+/-4	3	+/-3	7	+/-5		
Gross Beta	pCi/g	28	100%	8	8	18	+/-5	22	+/-5	25	+/-6		
Lead-210	pCi/g	38.2	59%	17	29							2.1	+/-1
Lead-211	pCi/g	12.3	38%	11	29							2.2 U	6.8 U
Lead-214	pCi/g	1.9	86%	32	37	0.79	+/-0.14	0.76	+/-0.13	0.74	+/-0.13	1.9 U	+/-0.4
Plutonium-239/240	pCi/g	0	0%	0	29							0.3 UJ	+/-0.1
Promethium-147	pCi/g	95.7	75%	9	12							1.7	+/-3.7
Radium-223	pCi/g	1	24%	7	29							0.5 U	0.4 U
Radium-226	pCi/g	2.5	86%	25	29							2.1 J	+/-0.5
Radium-228	pCi/g	3.3	93%	27	29							1.7	+/-0.7
Thallium-208	pCi/g	0.46	100%	8	8	0.19	+/-0.04	0.32	+/-0.2	0.38	+/-0.23		1.9
Thorium-227	pCi/g	0	0%	0	9							0.2 UJ	+/-0.1
Thorium-230	pCi/g	1.8	69%	20	29							1 UJ	+/-0.5
Thorium-232	pCi/g	1.6	97%	28	29							1.3 J	+/-0.6
Thorium-234	pCi/g	0.39	100%	8	8	0.27	+/-0.25	0.23	+/-0.24	0.38	+/-0.38		
Tritium	pCi/g	0.1	31%	9	29							0.1	+/-0.1
Uranium-233/234	pCi/g	1.2	69%	20	29							0.7 U	+/-0.3
Uranium-235	pCi/g	0.1	31%	9	29							0.1	+/-0.1
Uranium-238	pCi/g	1.1	93%	27	29							0.4 U	+/-0.2

TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID		SB12-5A		SB12-5A		SB12-5A		SB12-5A		SB12-5A	
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID		123097		12521		12522		12523		123098	
DEPTH TO TOP OF SMPLE		6		6		9		12		12	
DEPTH TO BOTTOM OF SAMPLE		8		9		12		14		14	
SAMPLE DATE		14-Oct-98		08-Nov-97		08-Nov-97		08-Nov-97		14-Oct-98	
QC CODE		SA		SA		SA		SA		SA	
STUDY ID		FREQUENCY OF		NUMBER OF		NUMBER OF		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	Value	(Q) error	Value	(Q) error	Value	(Q) error
Actinium-228	pCi/g	0.81	100%	8	8						
Bismuth-214	pCi/g	2.5	89%	33	37	1.7 J	+/-0.6	1.3 J	+/-0.4	1.5 J	+/-0.4
Cesium-137	pCi/g	0.4	59%	17	29	0.3 J	+/-0.1	0.4 U		0.2 U	+/-0.4
Cobalt-57	pCi/g	0.2	21%	6	29	0.1	+/-0.1	0.1 U		0.1 U	
Cobalt-60	pCi/g	0.6	55%	16	29	0.6 J	+/-0.1	0.3 U		0.1 U	
Gross Alpha	pCi/g	12	100%	8	8						
Gross Beta	pCi/g	28	100%	8	8						
Lead-210	pCi/g	38.2	59%	17	29	1.4 UJ		2.8 U		39.9 U	
Lead-211	pCi/g	12.3	38%	11	29	1.1 UJ		7.9 U		2.4 U	
Lead-214	pCi/g	1.9	86%	32	37	1.6	+/-0.4	2 U	+/-0.5	1.6 U	+/-0.3
Plutonium-239/240	pCi/g	0	0%	0	29	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.2
Promethium-147	pCi/g	95.7	75%	9	12	2 UJ	+/-5	4.7	+/-3.8	4.5	+/-3.8
Radium-223	pCi/g	1	24%	7	29	0.5 U		0.4 U		0.4 U	
Radium-226	pCi/g	2.5	86%	25	29	1.7 J	+/-0.6	1.3 J	+/-0.4	1.5 J	+/-0.4
Radium-228	pCi/g	3.3	93%	27	29	1.3	+/-0.5	1.7 U		1.4	+/-0.4
Thallium-208	pCi/g	0.46	100%	8	8					1.6	+/-0.4
Thorium-227	pCi/g	0	0%	0	9			0.3 UJ	+/-0.1		
Thorium-230	pCi/g	1.8	69%	20	29	1.1 U	+/-0.4	1.2 UJ	+/-0.6	1.5 UJ	+/-0.9
Thorium-232	pCi/g	1.6	97%	28	29	0.7 J	+/-0.3	1 J	+/-0.5	0.7 J	+/-0.5
Thorium-234	pCi/g	0.39	100%	8	8					0.1 UJ	+/-0.2
Tritium	pCi/g	0.1	31%	9	29	0.1 UJ	+/-0.1	0.1	+/-0.1	0.1	+/-0.1
Uranium-233/234	pCi/g	1.2	69%	20	29	0.8 UJ	+/-0.3	0.8 U	+/-0.3	0.6 UJ	+/-0.2
Uranium-235	pCi/g	0.1	31%	9	29	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.1	93%	27	29	0.7 J	+/-0.2	0.8	+/-0.3	0.8 J	+/-0.3

TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12					
LOCATION ID		SB12-6		SB12-6		SB12-6		SB12-6		SB12-6					
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL					
SAMPLE ID		12514		12515		12516		12517		12518					
DEPTH TO TOP OF SMAPLE		0		3		6		9		12					
DEPTH TO BOTTOM OF SAMPLE		3		6		9		12		14.3					
SAMPLE DATE		08-Nov-97		08-Nov-97		08-Nov-97		08-Nov-97		08-Nov-97					
QC CODE		SA		SA		SA		SA		SA					
STUDY ID		FREQUENCY OF		NUMBER OF		NUMBER OF		RI Phase 1 Step 1		RI Phase 1 Step 1					
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	Value	(Q) error	Value	(Q) error	Value	(Q) error	Value	(Q) error	Value	(Q) error
Actinium-228	pCi/g	0.81	100%	8	8										
Bismuth-214	pCi/g	2.5	89%	33	37	1.3	UJ	1.6	J +/-0.4	1.9	UJ	2.1	J +/-0.5	1	UJ
Cesium-137	pCi/g	0.4	59%	17	29	0.3	U	0.3	U	0.1	U	0.1	U	0.3	U
Cobalt-57	pCi/g	0.2	21%	6	29	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Cobalt-60	pCi/g	0.6	55%	16	29	0.2	U	0.1	U	0.3	U	0.1	U	0.1	U
Gross Alpha	pCi/g	12	100%	8	8										
Gross Beta	pCi/g	28	100%	8	8										
Lead-210	pCi/g	38.2	59%	17	29	18	U	3.6	U	4.2	U	1.4	U	12.2	U
Lead-211	pCi/g	12.3	38%	11	29	3.9	U	1.3	U	17.8	U	9.7	U	1.1	U
Lead-214	pCi/g	1.9	86%	32	37	1.3	+/-0.3	1.6	+/-0.3	1.8	+/-0.4	1.4	+/-0.4	0.9	+/-0.2
Plutonium-239/240	pCi/g	0	0%	0	29	0.1	UJ +/-0.1	0.1	U +/-0.1	0.1	U +/-0.1	0.1	U +/-0.1	0.1	U +/-0.1
Promethium-147	pCi/g	95.7	75%	9	12	5.1	+/-3.8	95.7	+/-6.1	1.4	+/-3.7	7	+/-3.8	4.6	+/-3.8
Radium-223	pCi/g	1	24%	7	29	0.3	U	0.8	+/-0.4	0.4	U	0.5	U	0.4	U
Radium-226	pCi/g	2.5	86%	25	29	1.3	UJ	1.6	J +/-0.4	1.9	UJ	2.1	J +/-0.5	1	UJ
Radium-228	pCi/g	3.3	93%	27	29	1.6	J +/-0.5	1.9	+/-0.4	3.3	+/-0.6	1.7	U	1	+/-0.4
Thallium-208	pCi/g	0.46	100%	8	8										
Thorium-227	pCi/g	0	0%	0	9	0.2	UJ +/-0.1	0.1	UJ +/-0.1	0.1	UJ +/-0.2	0.3	UJ +/-0.1	0.3	UJ +/-0.1
Thorium-230	pCi/g	1.8	69%	20	29	1.6	J +/-0.6	0.6	UJ +/-0.5	1.1	J +/-0.6	0.9	J +/-0.6	1.4	J +/-0.7
Thorium-232	pCi/g	1.6	97%	28	29	1.3	J +/-0.6	1.2	J +/-0.7	0.9	J +/-0.5	1.6	J +/-0.8	1.3	J +/-0.6
Thorium-234	pCi/g	0.39	100%	8	8										
Tritium	pCi/g	0.1	31%	9	29	0.1	+/-0.1	0.1	U +/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1	+/-0.1
Uranium-233/234	pCi/g	1.2	69%	20	29	0.7	U +/-0.2	0.6	UJ +/-0.2	0.8	J +/-0.3	0.7	+/-0.3	0.5	J +/-0.2
Uranium-235	pCi/g	0.1	31%	9	29	0.1	U +/-0.1	0.1	U +/-0.1	0.1	J +/-0.1	0.1	+/-0.1	0.1	U +/-0.1
Uranium-238	pCi/g	1.1	93%	27	29	0.8	+/-0.3	0.8	+/-0.3	0.7	J +/-0.2	0.5	+/-0.2	0.6	J +/-0.2

TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID		SB12B-1		TP12-25A		TP12-25A		TP12-25B		TP12-25C	
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID		SB12B-1-1		123077		123071		123072		123073	
DEPTH TO TOP OF SMPLE		18		0.5		0.5		1		2	
DEPTH TO BOTTOM OF SAMPLE		21		0.5		0.5		1		2	
SAMPLE DATE		29-Jun-94		05-Oct-98		05-Oct-98		05-Oct-98		05-Oct-98	
QC CODE		SA		DU		SA		SA		SA	
STUDY ID		FREQUENCY OF DETECTION		NUMBER OF DETECTS		NUMBER OF ANALYSES		ESI		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	OF	Value	(Q) error	Value	(Q) error	Value	(Q) error
Actinium-228	pCi/g	0.81	100%	8	8	0.74	+/-0.25				
Bismuth-214	pCi/g	2.5	89%	33	37	0.76	+/-0.11	1.5	+/-0.4	1.7	+/-0.5
Cesium-137	pCi/g	0.4	59%	17	29			0.3 J	+/-0.2	0.1 J	+/-0.1
Cobalt-57	pCi/g	0.2	21%	6	29			0.1 J	+/-0.1	0.1 UJ	+/-0.1
Cobalt-60	pCi/g	0.6	55%	16	29			0.2 J	+/-0.1	0.2 J	+/-0.1
Gross Alpha	pCi/g	12	100%	8	8	12	+/-5				
Gross Beta	pCi/g	28	100%	8	8	26	+/-5				
Lead-210	pCi/g	38.2	59%	17	29			6 J	+/-2.9	2.4 J	+/-2.2
Lead-211	pCi/g	12.3	38%	11	29			10.6 J	+/-4.2	1.3 UJ	+/-0.3
Lead-214	pCi/g	1.9	86%	32	37	0.78	+/-0.1	1.2 J	+/-0.3	1.7 J	+/-0.5
Plutonium-239/240	pCi/g	0	0%	0	29			0.2 U	+/-0.2	0.3 UJ	+/-0.1
Promethium-147	pCi/g	95.7	75%	9	12						
Radium-223	pCi/g	1	24%	7	29			0.3 U		0.4 U	
Radium-226	pCi/g	2.5	86%	25	29			1.5	+/-0.4	1.7	+/-0.5
Radium-228	pCi/g	3.3	93%	27	29			1.4	+/-0.4	1.6	+/-0.3
Thallium-208	pCi/g	0.46	100%	8	8	0.33	+/-0.78				
Thorium-227	pCi/g	0	0%	0	9						
Thorium-230	pCi/g	1.8	69%	20	29			0.8	+/-0.3	0.6	+/-0.3
Thorium-232	pCi/g	1.6	97%	28	29			0.5	+/-0.2	0.6	+/-0.3
Thorium-234	pCi/g	0.39	100%	8	8	0.36	+/-0.25				
Tritium	pCi/g	0.1	31%	9	29			0.1 UJ	+/-0.1	0.1 UJ	+/-0.1
Uranium-233/234	pCi/g	1.2	69%	20	29			0.6 J	+/-0.3	0.7 J	+/-0.3
Uranium-235	pCi/g	0.1	31%	9	29			0.1 U	+/-0.1	0.1 UJ	+/-0.1
Uranium-238	pCi/g	1.1	93%	27	29			0.5	+/-0.2	0.7 J	+/-0.3

TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID				TP12-26A		TP12-26B		TP12-26C		TP12B-1		TP12B-2	
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID				123074		123075		123076		TP12B-1-1		TP12B-2-1	
DEPTH TO TOP OF SMPLE				0.5		1.3		3		4		2.5	
DEPTH TO BOTTOM OF SAMPLE				0.5		1.3		3		4		2.5	
SAMPLE DATE				05-Oct-98		05-Oct-98		05-Oct-98		25-Jun-94		24-Jun-94	
QC CODE				SA		SA		SA		SA		SA	
STUDY ID				RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		ESI		ESI	
PARAMETER	UNIT	MAXIMUM	DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	Value	(Q) error	Value	(Q) error	Value	(Q) error	Value	(Q) error
Actinium-228	pCi/g	0.81	100%	8	8							0.63	+/-0.19
Bismuth-214	pCi/g	2.5	89%	33	37	1.6	+/-0.3	2	+/-0.5	1	+/-0.3	0.69	+/-0.24
Cesium-137	pCi/g	0.4	59%	17	29	0.2 J	+/-0.1	0.4 J	+/-0.3	0.1 UJ			
Cobalt-57	pCi/g	0.2	21%	6	29	0.1 UJ		0.1 UJ		0.1 J	+/-0.1		
Cobalt-60	pCi/g	0.6	55%	16	29	0.1 UJ		0.6 J	+/-0.1	0.4 J	+/-0.2		
Gross Alpha	pCi/g	12	100%	8	8							8	+/-6
Gross Beta	pCi/g	28	100%	8	8							25	+/-6
Lead-210	pCi/g	38.2	59%	17	29	19.9 U		2.9	+/-2.1	38.2	+/-37.2		
Lead-211	pCi/g	12.3	38%	11	29	4.2	+/-1.5	1.6 U		9.2	+/-2.7		
Lead-214	pCi/g	1.9	86%	32	37	1.1	+/-0.2	1.9	+/-0.5	1.2	+/-0.3	0.72	+/-0.1
Plutonium-239/240	pCi/g	0	0%	0	29	0.1 UJ	+/-0.3	0.3 UJ	+/-0.1	0.2 UJ	+/-0.2		
Promethium-147	pCi/g	95.7	75%	9	12								
Radium-223	pCi/g	1	24%	7	29	0.4 U		0.5 U		0.4 U			
Radium-226	pCi/g	2.5	86%	25	29	1.6	+/-0.3	2	+/-0.5	1	+/-0.3		
Radium-228	pCi/g	3.3	93%	27	29	1.1	+/-0.4	1.2	+/-0.3	2.1	+/-0.6		
Thallium-208	pCi/g	0.46	100%	8	8							0.35	+/-0.2
Thorium-227	pCi/g	0	0%	0	9								
Thorium-230	pCi/g	1.8	69%	20	29	1.1 J	+/-0.5	0.8	+/-0.3	0.9	+/-0.4		
Thorium-232	pCi/g	1.6	97%	28	29	0.4 J	+/-0.3	0.5	+/-0.3	0.8	+/-0.3		
Thorium-234	pCi/g	0.39	100%	8	8							0.21	+/-0.16
Tritium	pCi/g	0.1	31%	9	29	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1		
Uranium-233/234	pCi/g	1.2	69%	20	29	0.5 UJ	+/-0.2	1 J	+/-0.3	1 J	+/-0.4		
Uranium-235	pCi/g	0.1	31%	9	29	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1		
Uranium-238	pCi/g	1.1	93%	27	29	0.4	+/-0.2	0.8	+/-0.3	0.7	+/-0.3		



TABLE G-29  
 FORMER DRY WASTE DISPOSAL PIT RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

PARAMETER	UNIT	MAXIMUM	DETECTION	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	Value	(Q)	error	Value	(Q)	error
Actinium-228	pCi/g	0.81	100%		8	8	0.52		+/-0.17	0.56		+/-0.18
Bismuth-214	pCi/g	2.5	89%		33	37	0.52		+/-0.1	0.49		+/-0.09
Cesium-137	pCi/g	0.4	59%		17	29						
Cobalt-57	pCi/g	0.2	21%		6	29						
Cobalt-60	pCi/g	0.6	55%		16	29						
Gross Alpha	pCi/g	12	100%		8	8	7		+/-6	6		+/-6
Gross Beta	pCi/g	28	100%		8	8	14		+/-5	20		+/-6
Lead-210	pCi/g	38.2	59%		17	29						
Lead-211	pCi/g	12.3	38%		11	29						
Lead-214	pCi/g	1.9	86%		32	37	0.54		+/-0.12	0.56		+/-0.12
Plutonium-239/240	pCi/g	0	0%		0	29						
Promethium-147	pCi/g	95.7	75%		9	12						
Radium-223	pCi/g	1	24%		7	29						
Radium-226	pCi/g	2.5	86%		25	29						
Radium-228	pCi/g	3.3	93%		27	29						
Thallium-208	pCi/g	0.46	100%		8	8	0.46		+/-0.22	0.21		+/-0.7
Thorium-227	pCi/g	0	0%		0	9						
Thorium-230	pCi/g	1.8	69%		20	29						
Thorium-232	pCi/g	1.6	97%		28	29						
Thorium-234	pCi/g	0.39	100%		8	8	0.39		+/-0.41	0.38		+/-0.31
Tritium	pCi/g	0.1	31%		9	29						
Uranium-233/234	pCi/g	1.2	69%		20	29						
Uranium-235	pCi/g	0.1	31%		9	29						
Uranium-238	pCi/g	1.1	93%		27	29						







TABLE G-30  
EM-5 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 MW12-22 SOIL	SEAD-12 SS12-102 SOIL	SEAD-12 SS12-103 SOIL	SEAD-12 SS12-104 SOIL
												123068	123296	123297	123298
												0	0	0	0
												0.2	0.2	0.2	0.2
												10/4/1998	11/12/1998	11/12/1998	11/12/1998
												SA	SA	SA	SA
												RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES										
Bismuth-214	pCi/g	2.6	100%	21	21	1.2	+/-0.3	1.6 J	+/-0.3	1.4 J	+/-0.4	2.3 J	+/-0.5		
Cesium-137	pCi/g	1	86%	18	21	0.7 J	+/-0.2	0.4 J	+/-0.1	0.7	+/-0.2	0.5 J	+/-0.2		
Cobalt-57	pCi/g	0.2	24%	5	21	0.1 UJ		0.1	+/-0.1	0.1 U		0.1 U			
Cobalt-60	pCi/g	0.4	24%	5	21	0.1 J	+/-0.1	0.1	+/-0.1	0.1 U		0.2	+/-0.1		
Lead-210	pCi/g	55.9	62%	13	21	38	+/-35.8	25.7 U		19.2 U		4.2	+/-2.6		
Lead-211	pCi/g	11.7	33%	7	21	11.7	+/-4.8	3.1 J	+/-1.6	0.8 U		1.8 UJ			
Lead-214	pCi/g	2.3	100%	21	21	1.4	+/-0.3	1	+/-0.2	1.8 J	+/-0.4	1.7	+/-0.4		
Plutonium-239/240	pCi/g	0.2	10%	2	21	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.2	+/-0.2	0.1 U	+/-0.1		
Radium-223	pCi/g	1.5	14%	3	21	0.5 U		1.3	+/-0.7	0.5 U		0.4 U			
Radium-226	pCi/g	2.6	100%	21	21	1.2	+/-0.3	1.6 J	+/-0.3	1.4 J	+/-0.4	2.3 J	+/-0.5		
Radium-228	pCi/g	3.4	95%	20	21	0.7	+/-0.3	1.9 J	+/-0.4	1.1 J	+/-0.4	1.9 J	+/-0.4		
Thorium-230	pCi/g	1.9	24%	5	21	1.6	+/-0.6	1 UJ	+/-0.4	1.4 J	+/-0.6	1.2 UJ	+/-0.5		
Thorium-232	pCi/g	1.5	100%	21	21	1	+/-0.4	0.9 J	+/-0.3	1.3 J	+/-0.5	0.8 J	+/-0.3		
Tritium	pCi/g	105	90%	19	21	7.2 J	+/-0.3	3.1 J	+/-0.1	2.7	+/-0.1	0.1 U	+/-0.1		
Uranium-234	pCi/g	1.6	95%	20	21	0.7 J	+/-0.3	0.7	+/-0.3	0.9	+/-0.3	1	+/-0.3		
Uranium-235	pCi/g	0.5	52%	11	21	0.1 U	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1		
Uranium-238	pCi/g	1.3	100%	21	21	0.8	+/-0.3	0.8	+/-0.3	0.9 J	+/-0.3	1	+/-0.3		

TABLE G-30  
EM-5 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID				SS12-105		SS12-106		SS12-107		SS12-108		SS12-109	
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPE ID				123299		123300		123301		123302		123303	
DEPTH TO TOP OF SAMPLE				0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE				0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE				11/16/1998		11/12/1998		11/12/1998		11/12/1998		11/17/1998	
QC CODE				SA		SA		SA		SA		SA	
STUDY ID				RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION										
Bismuth-214	pCi/g	2.6	100%	1.2 J	+/-0.3	1.4 J	+/-0.3	1.2 J	+/-0.3	1.9 J	+/-0.4	1.6	
Cesium-137	pCi/g	1	86%	0.6	+/-0.2	0.8 J	+/-0.2	0.7	+/-0.2	0.4 J	+/-0.1	0.5	
Cobalt-57	pCi/g	0.2	24%	0.1 U		0.1 U		0.1 U		0.1	+/-0.1	0.1 U	
Cobalt-60	pCi/g	0.4	24%	0.1 U		0.1 U		0.1 U		0.3	+/-0.1	0.1 U	
Lead-210	pCi/g	55.9	62%	2 U		19.6 U		55.9	+/-35.2	50.6	+/-32.8	23.1 UJ	
Lead-211	pCi/g	11.7	33%	8.4	+/-4.3	0.9 U		2.6 U		3.8 J	+/-2.1	1.9 UJ	
Lead-214	pCi/g	2.3	100%	1.3 J	+/-0.4	1.5 J	+/-0.3	1.6 J	+/-0.5	1.5	+/-0.2	1.1	
Plutonium-239/240	pCi/g	0.2	10%	0.3 U	+/-0.2	0.2 U	+/-0.2	0.2 U	+/-0.1	0.2 U	+/-0.1	0.1 U	
Radium-223	pCi/g	1.5	14%	0.3 U		1.5	+/-0.6	0.4 U		0.4 U		0.4 U	
Radium-226	pCi/g	2.6	100%	1.2 J	+/-0.3	1.4 J	+/-0.3	1.2 J	+/-0.3	1.9 J	+/-0.4	1.6	
Radium-228	pCi/g	3.4	95%	2.1	+/-0.4	2.5 J	+/-0.5	1.9 J	+/-0.6	2.4 J	+/-0.6	1.5	
Thorium-230	pCi/g	1.9	24%	0.8 U	+/-0.3	1.3 J	+/-0.6	1.2 U	+/-0.5	1 UJ	+/-0.4	0.9 UJ	
Thorium-232	pCi/g	1.5	100%	0.9	+/-0.3	1.4 J	+/-0.6	1.1	+/-0.5	1 J	+/-0.4	0.9 J	
Tritium	pCi/g	105	90%	5	+/-0.1	4.5	+/-0.1	7.6	+/-0.2	0.1 U	+/-0.1	105	
Uranium-234	pCi/g	1.6	95%	1.6 J	+/-0.7	0.6	+/-0.2	0.8	+/-0.3	0.7	+/-0.3	0.7 UJ	
Uranium-235	pCi/g	0.5	52%	0.5 J	+/-0.3	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1	
Uranium-238	pCi/g	1.3	100%	1 J	+/-0.5	0.9 J	+/-0.3	1 J	+/-0.3	0.8	+/-0.3	0.8	

TABLE G-30  
EM-5 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12			SEAD-12			SEAD-12			SEAD-12
LOCATION ID				SS12-110			SS12-111			SS12-112			SS12-113
MATRIX				SOIL			SOIL			SOIL			SOIL
SAMPLER ID				123304			123305			123306			123307
DEPTH TO TOP OF SAMPLE				0			0			0			0
DEPTH TO BOTTOM OF SAMPLE				0.2			0.2			0.2			0.2
SAMPLE DATE				11/12/1998			11/12/1998			11/12/1998			11/12/1998
QC CODE				SA			SA			SA			SA
STUDY ID				RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION										
Bismuth-214	pCi/g	2.6	100% +/-0.3	2.2 J	+/-0.5	2.3 J	+/-0.5	2 J	+/-0.4	1.8 J	+/-0.6	2.6	
Cesium-137	pCi/g	1	86% +/-0.1	0.3 J	+/-0.1	0.5 J	+/-0.3	0.7 J	+/-0.3	0.9 J	+/-0.2	0.1	
Cobalt-57	pCi/g	0.2	24%	0.1 U		0.1	+/-0.1	0.1 U		0.2	+/-0.1	0.1	
Cobalt-60	pCi/g	0.4	24%	0.1 U		0.4	+/-0.3	0.1 U		0.1 U		0.1	
Lead-210	pCi/g	55.9	62%	3.1	+/-1.7	3.2	+/-1.9	6.6	+/-2.6	6.8	+/-3.4	8.4	
Lead-211	pCi/g	11.7	33%	5.3 J	+/-2.5	1.9 UJ		1.4 U		1 UJ		4	
Lead-214	pCi/g	2.3	100% +/-0.2	2	+/-0.4	2.3	+/-0.4	1.8 J	+/-0.4	1.9	+/-0.4	2.2	
Plutonium-239/240	pCi/g	0.2	10% +/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1	
Radium-223	pCi/g	1.5	14%	0.4 U		0.5 U		0.5 U		0.6 U		0.8	
Radium-226	pCi/g	2.6	100% +/-0.3	2.2 J	+/-0.5	2.3 J	+/-0.5	2 J	+/-0.4	1.8 J	+/-0.6	2.6	
Radium-228	pCi/g	3.4	95% +/-0.4	2.1 J	+/-0.6	1.2 J	+/-0.5	2 J	+/-0.5	2.4 J	+/-0.6	2	
Thorium-230	pCi/g	1.9	24% +/-0.4	0.8 UJ	+/-0.3	1.4 UJ	+/-0.6	1 UJ	+/-0.5	1.3 UJ	+/-0.5	1.3	
Thorium-232	pCi/g	1.5	100% +/-0.4	0.9 J	+/-0.3	1.2 J	+/-0.5	1.1 J	+/-0.6	0.9 J	+/-0.4	1.3	
Tritium	pCi/g	105	90% +/-0.6	16.2 J	+/-0.2	7.5 J	+/-0.2	5	+/-0.2	0.4 J	+/-0.1	0.1	
Uranium-234	pCi/g	1.6	95% +/-0.2	1.2	+/-0.4	1.1	+/-0.3	0.7	+/-0.2	0.8	+/-0.3	0.6	
Uranium-235	pCi/g	0.5	52% +/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1	
Uranium-238	pCi/g	1.3	100% +/-0.3	1.3	+/-0.4	0.8	+/-0.3	0.8 J	+/-0.2	0.8	+/-0.3	0.8	

TABLE G-30  
EM-5 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID						SEAD-12 SS12-115 SOIL 123309 0 0.2 11/17/1998 SA RI Phase 1 Step 1		SEAD-12 SS12-116 SOIL 123310 0 0.2 11/12/1998 SA RI Phase 1 Step 1		SEAD-12 SS12-117 SOIL 123311 0 0.2 11/12/1998 SA RI Phase 1 Step 1		SEAD-12 SS12-118 SOIL 123312 0 0.2 11/12/1998 SA RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	tep 1										
Bismuth-214	pCi/g	2.6	100%	J	+/-0.7	1.6	+/-0.4	1.7 J	+/-0.4	2 J	+/-0.4	2.1 J	+/-0.5	
Cesium-137	pCi/g	1	86%	U		0.1 U		0.5	+/-0.3	0.9	+/-0.2	0.4	+/-0.1	
Cobalt-57	pCi/g	0.2	24%	U		0.1 U		0.1 U		0.1 U		0.1 U		
Cobalt-60	pCi/g	0.4	24%	U		0.1 U		0.1 U		0.1 U		0.1 U		
Lead-210	pCi/g	55.9	62%		+/-5.3	6.7 J	+/-4.2	3.6	+/-2.4	53.2	+/-36.2	32.7 U		
Lead-211	pCi/g	11.7	33%	UJ		8.6 J	+/-2.7	2 U		1.9 U		0.9 U		
Lead-214	pCi/g	2.3	100%	J	+/-0.6	1.8	+/-0.5	1.8 J	+/-0.4	1.5 J	+/-0.3	2.1 J	+/-0.4	
Plutonium-239/240	pCi/g	0.2	10%	U	+/-0.1	0.2 U	+/-0.1	0.3 U	+/-0.1	0.2 UJ	+/-0.1	0.3 U	+/-0.1	
Radium-223	pCi/g	1.5	14%	U		0.5 U		0.5 U		0.4 U		0.5 U		
Radium-226	pCi/g	2.6	100%	J	+/-0.7	1.6	+/-0.4	1.7 J	+/-0.4	2 J	+/-0.4	2.1 J	+/-0.5	
Radium-228	pCi/g	3.4	95%	J	+/-0.6	3.4	+/-0.6	1.9 J	+/-0.4	1.9 J	+/-0.4	2.2 J	+/-0.6	
Thorium-230	pCi/g	1.9	24%	U	+/-0.4	1.7 U	+/-0.6	1.4 J	+/-0.6	1.9	+/-0.7	1 U	+/-0.4	
Thorium-232	pCi/g	1.5	100%		+/-0.5	1.5	+/-0.6	0.9 J	+/-0.4	1.5	+/-0.6	0.8	+/-0.3	
Tritium	pCi/g	105	90%		+/-0.1	3.1	+/-0.1	7.7	+/-0.2	3.7	+/-0.1	4.8	+/-0.1	
Uranium-234	pCi/g	1.6	95%		+/-0.2	0.8 J	+/-0.3	1	+/-0.3	0.9	+/-0.3	0.6	+/-0.2	
Uranium-235	pCi/g	0.5	52%	U	+/-0.1	0.1 UJ	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	
Uranium-238	pCi/g	1.3	100%		+/-0.3	0.8	+/-0.2	0.7 J	+/-0.3	0.9 J	+/-0.3	0.8 J	+/-0.3	

TABLE G-30  
EM-5 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12		SEAD-12		SEAD-12				
LOCATION ID				SS12-119		SS12-120		SS12-121				
MATRIX				SOIL		SOIL		SOIL				
SAMPE ID				123313		123362		123314				
DEPTH TO TOP OF SAMPLE				0		0		0				
DEPTH TO BOTTOM OF SAMPLE				0.2		0.2		0.2				
SAMPLE DATE				11/12/1998		11/16/1998		11/12/1998				
QC CODE				SA		SA		SA				
STUDY ID				RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1				
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION									
Bismuth-214	pCi/g	2.6	100%	1.4	J	+/-0.3	1.2	J	+/-0.3	1.6	J	+/-0.3
Cesium-137	pCi/g	1	86%	1		+/-0.2	0.5		+/-0.1	0.1	U	
Cobalt-57	pCi/g	0.2	24%	0.1	U		0.1	U		0.1		+/-0.1
Cobalt-60	pCi/g	0.4	24%	0.1	U		0.1	U		0.1	U	
Lead-210	pCi/g	55.9	62%	50.4		+/-32.2	24.2	U		20.4	U	
Lead-211	pCi/g	11.7	33%	1.7	U		1.6	U		11.5		+/-5.4
Lead-214	pCi/g	2.3	100%	1.6	J	+/-0.3	1.2	J	+/-0.2	1.6	J	+/-0.3
Plutonium-239/240	pCi/g	0.2	10%	0.2	U	+/-0.1	0.1	U	+/-0.1	0.2	U	+/-0.1
Radium-223	pCi/g	1.5	14%	0.5	U		0.4		+/-0.3	0.4	U	
Radium-226	pCi/g	2.6	100%	1.4	J	+/-0.3	1.2	J	+/-0.3	1.6	J	+/-0.3
Radium-228	pCi/g	3.4	95%	2.5	J	+/-0.6	1.6		+/-0.4	0.3	UJ	
Thorium-230	pCi/g	1.9	24%	1.3	UJ	+/-0.5	1.2	U	+/-0.4	0.8	U	+/-0.3
Thorium-232	pCi/g	1.5	100%	1.1	J	+/-0.5	0.7		+/-0.3	0.7		+/-0.3
Tritium	pCi/g	105	90%	14		+/-0.2	2		+/-0.1	7.9		+/-0.2
Uranium-234	pCi/g	1.6	95%	0.4		+/-0.2	0.9	J	+/-0.3	1.1		+/-0.4
Uranium-235	pCi/g	0.5	52%	0.1		+/-0.1	0.1	U	+/-0.1	0.2		+/-0.1
Uranium-238	pCi/g	1.3	100%	0.7	J	+/-0.2	0.8		+/-0.3	1.1	J	+/-0.4

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TABLE G-31  
EM-5 RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID				MW12-22		MW12-23		MW12-23		TP12-15A		TP12-15B		
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPE ID				123069		123079		123080		123031		123032		
DEPTH TO TOP OF SAMPLE				2		0		2		3.5		2		
DEPTH TO BOTTOM OF SAMPLE				4		2		4		3.5		2		
SAMPLE DATE				10/4/1998		10/5/1998		10/5/1998		10/2/1998		10/2/1998		
QC CODE				SA		SA		SA		SA		SA		
STUDY ID				RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES									
Bismuth-214	pCi/g	2.6	100%	9	9	1.7	+/-0.3	2	+/-0.5	1.6	+/-0.3	1.5 J	+/-0.4	2.6 J
Cesium-137	pCi/g	0.6	89%	8	9	0.2 UJ		0.6 J	+/-0.2	0.2 J	+/-0.1	0.4	+/-0.1	0.5
Cobalt-57	pCi/g	0.1	22%	2	9	0.1 UJ		0.1 UJ		0.1 UJ		0.1 U		0.1 U
Cobalt-60	pCi/g	0.5	89%	8	9	0.4 J	+/-0.2	0.3 J	+/-0.1	0.2 J	+/-0.1	0.5	+/-0.2	0.5
Lead-210	pCi/g	76.9	89%	8	9	38.9	+/-31.7	6.6	+/-3.5	23.1 U		50.2 J	+/-49.4	5.9 J
Lead-211	pCi/g	12	67%	6	9	7.5	+/-4.6	7.8	+/-3.9	3.7	+/-3.2	0.7 UJ		2.7 UJ
Lead-214	pCi/g	2.1	100%	9	9	1.7	+/-0.4	2.1	+/-0.6	1.5	+/-0.2	1.4	+/-0.3	1.7
Plutonium-239/240	pCi/g	0	0%	0	9	0.1 UJ	+/-0.2	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U
Radium-223	pCi/g	1.6	11%	1	9	0.5 U		0.5 U		0.5 U		0.5 U		1.6
Radium-226	pCi/g	2.6	100%	9	9	1.7	+/-0.3	2	+/-0.5	1.6	+/-0.3	1.5 J	+/-0.4	2.6 J
Radium-228	pCi/g	2.7	100%	9	9	2.3	+/-0.6	2.7	+/-0.6	2.5	+/-0.6	2.1	+/-0.6	1.9
Thorium-230	pCi/g	3.3	89%	8	9	1.5 J	+/-0.6	1	+/-0.4	1.5	+/-0.5	1.8	+/-0.8	3.3
Thorium-232	pCi/g	1.9	100%	9	9	1.9 J	+/-0.7	0.6	+/-0.3	1	+/-0.4	0.5	+/-0.4	0.9
Tritium	pCi/g	0.4	33%	3	9	0.1 UJ	+/-0.1	0.4 J	+/-0.1	0.1 UJ	+/-0.1	0.1 ND	+/-175	0.1
Uranium-234	pCi/g	1.2	100%	9	9	0.9 J	+/-0.4	0.8 J	+/-0.4	0.7 J	+/-0.3	1	+/-0.6	1.2
Uranium-235	pCi/g	0.1	44%	4	9	0.1 U	+/-0.1	0.2 UJ	+/-0.2	0.1 U	+/-0.1	0.4 U	+/-0.1	0.1
Uranium-238	pCi/g	1.1	100%	9	9	0.7	+/-0.3	0.7 J	+/-0.4	1	+/-0.3	0.8 J	+/-0.5	0.4 J

TABLE G-31  
EM-5 RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	SEAD-12 TP12-15C SOIL 123033 0.8 0.8 10/2/1998 SA		SEAD-12 TP12-16A SOIL 123044 0.6 0.6 10/3/1998 SA		SEAD-12 TP12-16B SOIL 123045 2 2 10/3/1998 SA		SEAD-12 TP12-16C SOIL 123078 0.5 2 10/3/1998 SA	
						RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER													
Bismuth-214	pCi/g	2.6	100%	9	9 +/-0.6	1.9 J	+/-0.4	1.7 J	+/-0.3	2.6 J	+/-0.4	1.3	+/-0.4
Cesium-137	pCi/g	0.6	89%	8	9 +/-0.2	0.3	+/-0.1	0.6	+/-0.2	0.3	+/-0.2	0.3 J	+/-0.1
Cobalt-57	pCi/g	0.1	22%	2	9	0.1	+/-0.1	0.1 U		0.1 U		0.1 J	+/-0.1
Cobalt-60	pCi/g	0.5	89%	8	9 +/-0.3	0.3	+/-0.1	0.1 U		0.2	+/-0.1	0.5 J	+/-0.2
Lead-210	pCi/g	76.9	89%	8	9 +/-2	76.9 J	+/-48.6	43.5 J	+/-42.9	3.5 J	+/-1.6	27.4	+/-18.5
Lead-211	pCi/g	12	67%	6	9	6.4 J	+/-2.4	1.8 UJ		12 J	+/-9.1	4.1	+/-2.4
Lead-214	pCi/g	2.1	100%	9	9 +/-0.5	1.5	+/-0.3	1.4	+/-0.3	2.1	+/-0.5	1.4	+/-0.2
Plutonium-239/240	pCi/g	0	0%	0	9 +/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.2	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1
Radium-223	pCi/g	1.6	11%	1	9 +/-0.7	0.5 U		0.4 U		0.5 U		0.5 U	
Radium-226	pCi/g	2.6	100%	9	9 +/-0.6	1.9 J	+/-0.4	1.7	+/-0.3	2.6 J	+/-0.4	1.3	+/-0.4
Radium-228	pCi/g	2.7	100%	9	9 +/-0.6	2.1	+/-0.6	1.7 J	+/-0.5	2.7	+/-0.6	2.2	+/-0.6
Thorium-230	pCi/g	3.3	89%	8	9 +/-1.4	1.6	+/-0.8	2.2	+/-0.9	1.1 U	+/-0.7	1.1 J	+/-0.5
Thorium-232	pCi/g	1.9	100%	9	9 +/-0.7	1.6	+/-0.8	1.1	+/-0.6	1.1	+/-0.6	1 J	+/-0.4
Tritium	pCi/g	0.4	33%	3	9 +/-188	0.2	+/-239	0.1 U	+/-179	0.1 U	+/-178	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.2	100%	9	9 +/-0.7	0.7	+/-0.5	0.9	+/-0.5	1.1	+/-0.6	0.8 J	+/-0.3
Uranium-235	pCi/g	0.1	44%	4	9 +/-0.3	0.1	+/-0.1	0.1	+/-0.2	0.1	+/-0.2	0.1 U	+/-0.1
Uranium-238	pCi/g	1.1	100%	9	9 +/-0.4	1.1 J	+/-0.6	0.4 J	+/-0.4	0.9 J	+/-0.5	0.8	+/-0.3



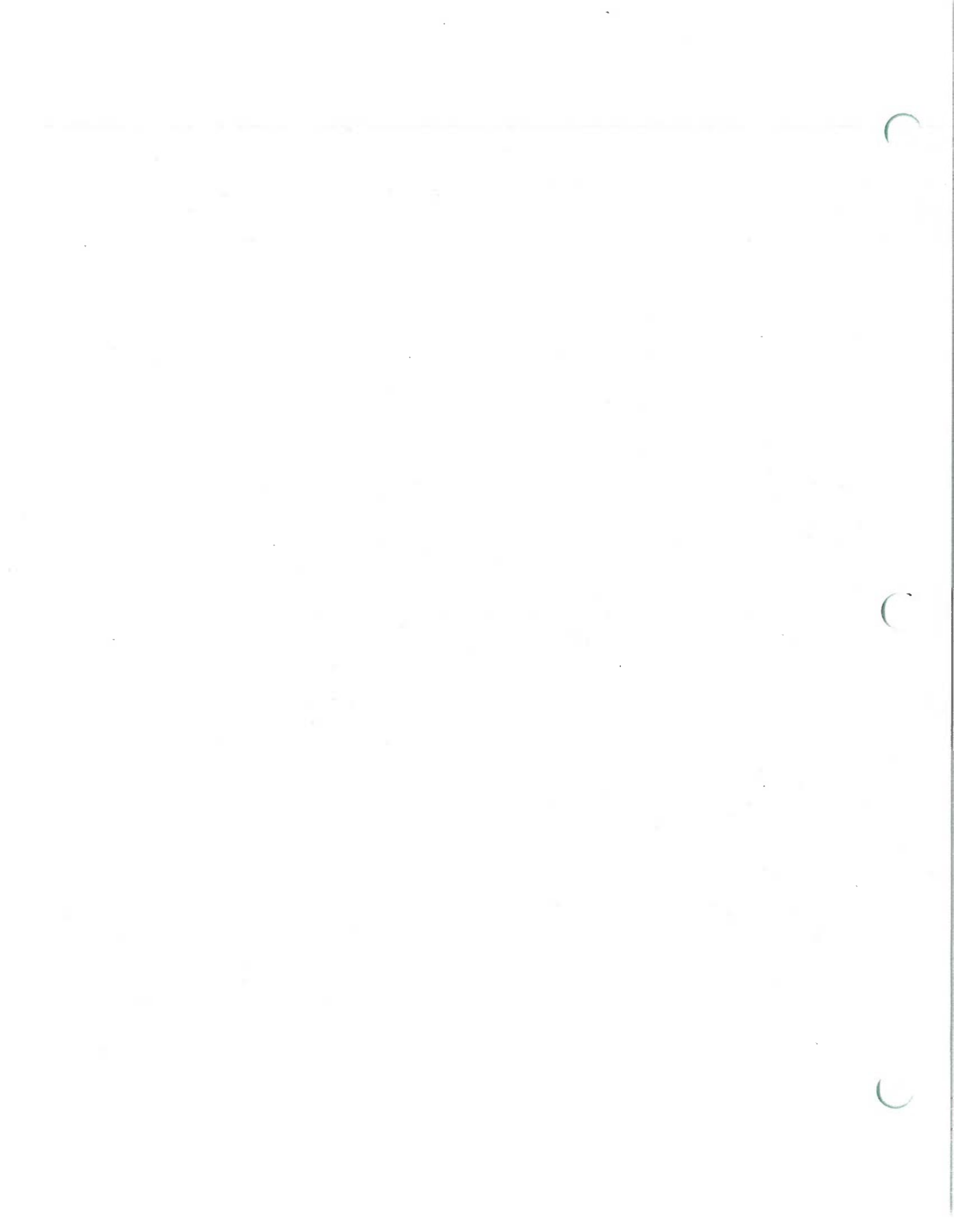


TABLE G-32  
EM-6 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-24		MW12-25		MW12-26		SS12-100		SS12-101	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123161		123164		123167		123294		123295	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						19-Oct-98		18-Oct-98		18-Oct-98		12-Nov-98		12-Nov-98	
QC CODE						SA		SA		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Bismuth-214	pCi/g	2.4	100%	16	16	16	+/-0.4	1.6	+/-0.6	1.7	+/-0.5	1.3 J	+/-0.4	1.4 J	
Cesium-137	pCi/g	0.5	56%	9	16	0.1 UJ		0.5	+/-0.3	0.1	+/-0.1	0.3	+/-0.1	0.4 J	
Cobalt-57	pCi/g	0.1	25%	4	16	0.1 UJ		0.1	+/-0.1	0.1 U		0.1 U		0.1	
Cobalt-60	pCi/g	0.7	50%	8	16	0.4	+/-0.1	0.4 J	+/-0.1	0.1 J	+/-0.1	0.1 U		0.7	
Lead-210	pCi/g	6.7	50%	8	16	3 J	+/-1.7	6.7	+/-3.2	3.4	+/-2.3	3.5	+/-1.8	3.3	
Lead-211	pCi/g	13.3	44%	7	16	10 J	+/-4	2.7 UJ		13.3 J	+/-5.4	2.1 U		4 J	
Lead-214	pCi/g	2	100%	16	16	1.4	+/-0.4	1.7	+/-0.4	1.6	+/-0.4	1.1 J	+/-0.4	1.6	
Plutonium-239/240	pCi/g	0.2	19%	3	16	0.2 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.1	0.2 U	+/-0.1	0.1 U	
Radium-223	pCi/g	1	13%	2	16	0.5 U		0.5 U		0.6 U		0.4 U		1	
Radium-226	pCi/g	2.4	100%	16	16	1.6	+/-0.4	1.6	+/-0.6	1.7	+/-0.5	1.3 J	+/-0.4	1.4 J	
Radium-228	pCi/g	3.5	100%	16	16	1.6	+/-0.3	2.1	+/-0.5	3.5	+/-0.8	1.8 J	+/-0.4	3.3 J	
Thorium-230	pCi/g	1.9	31%	5	16	1.2 J	+/-0.5	1 J	+/-0.4	1.9 J	+/-0.7	1 U	+/-0.4	1.3 UJ	
Thorium-232	pCi/g	3.2	100%	16	16	1.5 J	+/-0.6	0.9 J	+/-0.4	3.2	+/-1	1.2	+/-0.4	1.4 J	
Tritium	pCi/g	1.5	50%	8	16	0.1 U	+/-0.1	0.6	+/-0.1	0.1 U	+/-0.1	1	+/-0.1	0.1 J	
Uranium-234	pCi/g	1.1	100%	16	16	1.1 J	+/-0.3	0.7	+/-0.2	0.6	+/-0.2	0.9	+/-0.3	0.6	
Uranium-235	pCi/g	0.1	19%	3	16	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	
Uranium-238	pCi/g	1	100%	16	16	0.9	+/-0.3	0.6 J	+/-0.2	0.7 J	+/-0.2	1 J	+/-0.4	0.8	

TABLE G-32  
EM-6 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	SEAD-12 SS12-90 SOIL	SEAD-12 SS12-91 SOIL	SEAD-12 SS12-92 SOIL	SEAD-12 SS12-93 SOIL	SEAD-12 SS12-94 SOIL							
									123283	123284	123285	123286	123288							
				0	0.2	12-Nov-98	SA													
									RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1							
PARAMETER	UNIT	MAXIMU	FREQUENCY OF DETECTION																	
Bismuth-214	pCi/g	2.4	100%	+/-0.3	1.8	J		+/-0.6	2.4	J	+/-0.4	1.3	J	+/-0.4	1	J	+/-0.4	1.6	J	+/-0.3
Cesium-137	pCi/g	0.5	56%	+/-0.2	0.1	U			0.1	U		0.2	J	+/-0.1	0.1	UJ		0.1	U	
Cobalt-57	pCi/g	0.1	25%	+/-0.1	0.1	U			0.1	U		0.1	U		0.1		+/-0.1	0.1	U	
Cobalt-60	pCi/g	0.7	50%	+/-0.2	0.1	U			0.1	U		0.2		+/-0.1	0.3		+/-0.1	0.1	U	
Lead-210	pCi/g	6.7	50%	+/-1.8	4.2			+/-3.3	4.4		+/-2.5	36.4	U		28.1	U		12.1	U	
Lead-211	pCi/g	13.3	44%	+/-1.8	3.3	U			1.9	U		0.8	UJ		7.3	J	+/-5.6	0.6	U	
Lead-214	pCi/g	2	100%	+/-0.4	2	J		+/-0.4	1.6	J	+/-0.3	1.5		+/-0.4	1.5		+/-0.4	1.2	J	+/-0.3
Plutonium-239/240	pCi/g	0.2	19%	+/-0.1	0.2	J		+/-0.2	0.2	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1		+/-0.2
Radium-223	pCi/g	1	13%	+/-0.7	0.9			+/-0.5	0.5	U		0.4	U		0.5	U		0.4	U	
Radium-226	pCi/g	2.4	100%	+/-0.3	1.8	J		+/-0.6	2.4	J	+/-0.4	1.3	J	+/-0.4	1	J	+/-0.4	1.6	J	+/-0.3
Radium-228	pCi/g	3.5	100%	+/-0.6	1.9	J		+/-0.5	2.6		+/-0.5	2.5	J	+/-0.5	2.1	J	+/-0.5	2.1	J	+/-0.6
Thorium-230	pCi/g	1.9	31%	+/-0.7	1.5	J		+/-0.6	1.1	U	+/-0.4	1.6	UJ	+/-0.6	0.9	UJ	+/-0.4	1.1	UJ	+/-0.6
Thorium-232	pCi/g	3.2	100%	+/-0.8	1.3	J		+/-0.5	1.6		+/-0.5	1.4	J	+/-0.5	0.8	J	+/-0.3	1.9	J	+/-0.8
Tritium	pCi/g	1.5	50%	+/-0.1	1.5			+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.4		+/-0.1
Uranium-234	pCi/g	1.1	100%	+/-0.2	0.9			+/-0.4	1	J	+/-0.3	0.8		+/-0.3	0.9		+/-0.3	0.9		+/-0.3
Uranium-235	pCi/g	0.1	19%	+/-0.1	0.1			+/-0.1	0.1	J	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-238	pCi/g	1	100%	+/-0.3	0.9	J		+/-0.4	1	J	+/-0.3	1		+/-0.3	0.9		+/-0.3	0.7	J	+/-0.2



TABLE G-32  
EM-6 RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY				SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID				SS12-94		SS12-95		SS12-96		SS12-97		SS12-98		SS12-99		
MATRIX				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE ID				123287		123289		123290		123291		123292		123293		
DEPTH TO TOP OF SAMPLE				0		0		0		0		0		0		
DEPTH TO BOTTOM OF SAMPLE				0.2		0.2		0.2		0.2		0.2		0.2		
SAMPLE DATE				12-Nov-98		12-Nov-98		16-Nov-98		12-Nov-98		12-Nov-98		12-Nov-98		
QC CODE				SA		SA		SA		SA		SA		SA		
STUDY ID				FREQUENCY		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		
PARAMETER				OF												
UNIT				DETECTION												
MAXIMU																
Bismuth-214	pCi/g	2.4	100%	1.4	J	+/-0.4	1.2	J	+/-0.4	1.8	J	+/-0.4	1.6	J	+/-0.2	1.6
Cesium-137	pCi/g	0.5	56%	0.1	U		0.4	J	+/-0.2	0.2		+/-0.1	0.2	J	+/-0.1	0.3
Cobalt-57	pCi/g	0.1	25%	0.1	U		0.1	U		0.1	U		0.1	U	+/-0.1	0.1
Cobalt-60	pCi/g	0.7	50%	0.1	U		0.4		+/-0.1	0.1	U		0.1		+/-0.1	0.1
Lead-210	pCi/g	6.7	50%	18.1	U		26	U		1.7	U		29.3	U		2.8
Lead-211	pCi/g	13.3	44%	2.7	U		5.2	J	+/-2.3	0.8	U		6.8	J	+/-2.1	1.4
Lead-214	pCi/g	2	100%	1.7	J	+/-0.3	1.2		+/-0.4	1.7	J	+/-0.4	1.4		+/-0.3	1.5
Plutonium-239/240	pCi/g	0.2	19%	0.2	U	+/-0.1	0.3	U	+/-0.2	0.1	U	+/-0.1	0.2	U	+/-0.1	0.2
Radium-223	pCi/g	1	13%	0.4	U		0.4	U		0.5	U		0.5	U		0.4
Radium-226	pCi/g	2.4	100%	1.4	J	+/-0.4	1.2	J	+/-0.4	1.8	J	+/-0.4	1.6	J	+/-0.3	1.6
Radium-228	pCi/g	3.5	100%	1.7	J	+/-0.4	1.9	J	+/-0.5	3.2		+/-0.6	2.1	J	+/-0.6	2.3
Thorium-230	pCi/g	1.9	31%	1.2	UJ	+/-0.6	1	UJ	+/-0.4	1.1	U	+/-0.4	1.2	UJ	+/-0.4	1.4
Thorium-232	pCi/g	3.2	100%	1.7	J	+/-0.6	1	J	+/-0.4	1.3		+/-0.5	0.9	J	+/-0.4	1.2
Tritium	pCi/g	1.5	50%	0.6		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.9
Uranium-234	pCi/g	1.1	100%	0.8		+/-0.3	0.7		+/-0.3	1	J	+/-0.3	0.5		+/-0.2	0.8
Uranium-235	pCi/g	0.1	19%	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1
Uranium-238	pCi/g	1	100%	0.6	J	+/-0.2	0.7		+/-0.2	0.9		+/-0.3	0.8		+/-0.3	0.9

TABLE G-32  
 EM-6 RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF Step 1 OF DETECTION	
PARAMETER	UNIT	MAXIMU								
Bismuth-214	pCi/g	2.4							100% J	+/-0.6
Cesium-137	pCi/g	0.5							56% J	+/-0.1
Cobalt-57	pCi/g	0.1							25% U	
Cobalt-60	pCi/g	0.7							50% U	
Lead-210	pCi/g	6.7							50% U	+/-1.7
Lead-211	pCi/g	13.3							44% U	
Lead-214	pCi/g	2							100% J	+/-0.4
Plutonium-239/240	pCi/g	0.2							19% J	+/-0.2
Radium-223	pCi/g	1							13% U	
Radium-226	pCi/g	2.4							100% J	+/-0.6
Radium-228	pCi/g	3.5							100% J	+/-0.5
Thorium-230	pCi/g	1.9							31% J	+/-0.5
Thorium-232	pCi/g	3.2							100% J	+/-0.5
Tritium	pCi/g	1.5							50% U	+/-0.1
Uranium-234	pCi/g	1.1							100% J	+/-0.3
Uranium-235	pCi/g	0.1							19% U	+/-0.1
Uranium-238	pCi/g	1							100% J	+/-0.3



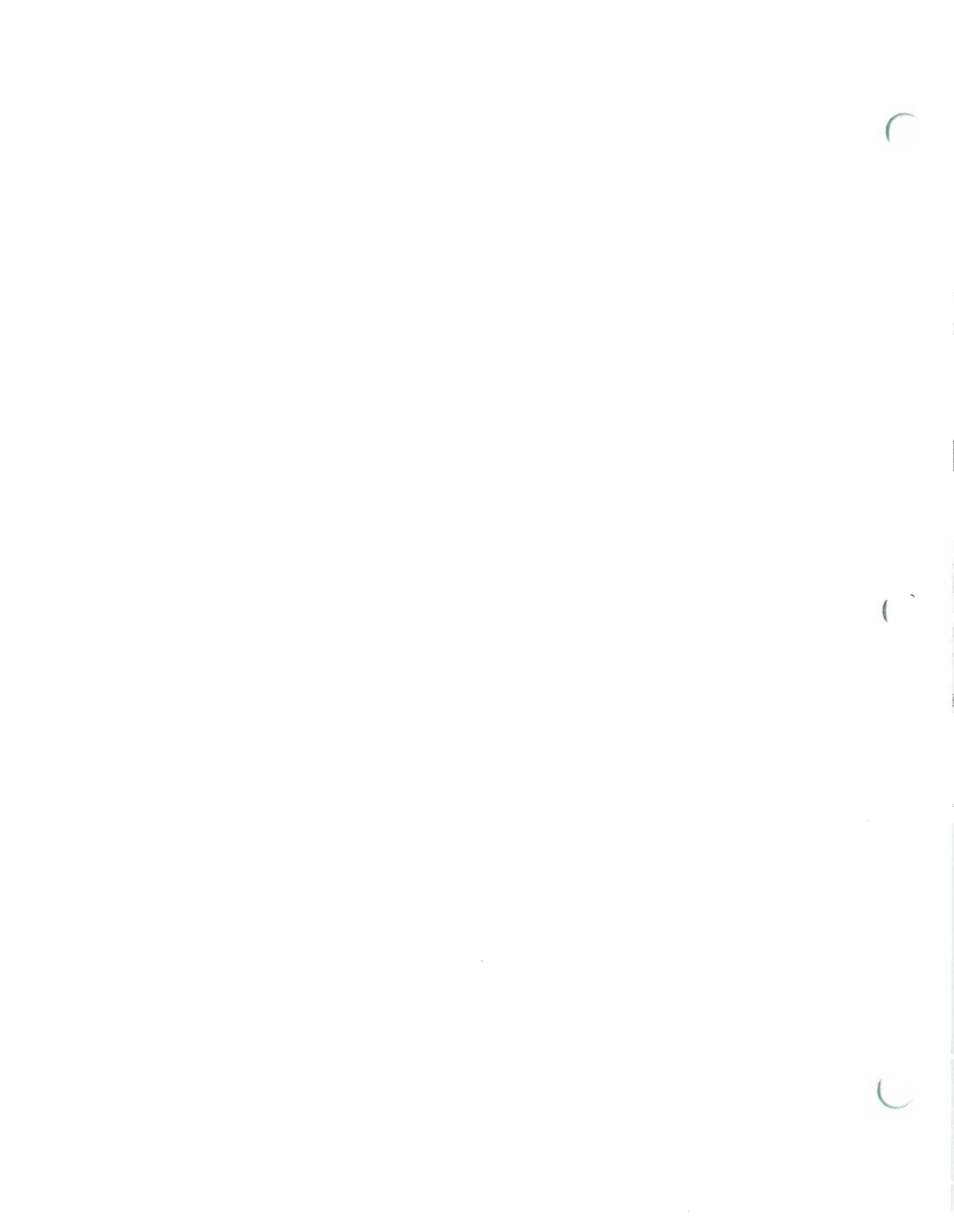


TABLE G-33  
EM-6 RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12															
LOCATION ID		MW12-24				MW12-24				MW12-25				MW12-25			
MATRIX		SOIL															
SAMPLE ID		123162				123163				123165				123166			
DEPTH TO TOP OF SAMPLE		2				6				2				6			
DEPTH TO BOTTOM OF SAMPLE		4				8				4				8			
SAMPLE DATE		19-Oct-98				19-Oct-98				18-Oct-98				18-Oct-98			
QC CODE		SA															
STUDY ID		FREQUENCY OF DETECTION		NUMBER OF DETECTS		NUMBER OF ANALYSES		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMU	DETECTION	DETECTS	ANALYSES												
Bismuth-214	pCi/g	2.4	100%	12	12	1.6		+/-0.4		1.8		+/-0.5		1.8		+/-0.6	
Cesium-137	pCi/g	0.7	83%	10	12	0.2 J		+/-0.1		0.5 J		+/-0.3		0.5		+/-0.3	
Cobalt-57	pCi/g	0.2	50%	6	12	0.1 UJ				0.1 J		+/-0.1		0.1 U			
Cobalt-60	pCi/g	0.8	67%	8	12	0.1		+/-0.1		0.1 U				0.1 UJ			+/-0.1
Lead-210	pCi/g	6.2	50%	6	12	1.6 UJ				1.9 UJ				1.5 U			+/-1.8
Lead-211	pCi/g	16.7	75%	9	12	9.3 J		+/-2.5		3.9 J		+/-1.8		10.6 J		+/-4.8	
Lead-214	pCi/g	2.3	100%	12	12	1.4		+/-0.4		1.6		+/-0.5		2		+/-0.4	
Plutonium-239/240	pCi/g	0	0%	0	12	0.1 U		+/-0.1		0.1 U		+/-0.1		0.1 U		+/-0.1	
Promethium-147	pCi/g	0	0%	0	6												
Radium-223	pCi/g	0.4	8%	1	12	0.4 U				0.4 U				0.4 U			0.5 U
Radium-226	pCi/g	2.4	100%	12	12	1.6		+/-0.4		1.8		+/-0.5		1.8		+/-0.6	
Radium-228	pCi/g	3.1	100%	12	12	1.6		+/-0.4		2.9		+/-0.7		2.1		+/-0.6	
Thorium-230	pCi/g	1.7	67%	8	12	0.9 J		+/-0.4		1.5 J		+/-0.6		1.3 J		+/-0.5	
Thorium-232	pCi/g	2	100%	12	12	1.1		+/-0.4		1.7 J		+/-0.7		1.5 J		+/-0.6	
Tritium	pCi/g	4.1	8%	1	12	0.1 U		+/-0.1		0.1 U		+/-0.1		0.1 U		+/-0.1	
Uranium-234	pCi/g	1.2	92%	11	12	0.7 J		+/-0.3		1.2 J		+/-0.4		0.5		+/-0.2	
Uranium-235	pCi/g	0.1	42%	5	12	0.1		+/-0.1		0.1		+/-0.1		0.1 U		+/-0.1	
Uranium-238	pCi/g	1.3	100%	12	12	0.5		+/-0.2		1.3		+/-0.4		0.7 J		+/-0.2	



TABLE G-33  
EM-6 RADIOLOGICAL DATA-SUBSURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	Step 1	SEAD-12 TP12-12B SOIL 123119	SEAD-12 TP12-12C SOIL 123120		
													1.5	4		
													1.5	4		
						14-Oct-98	SA						14-Oct-98	SA		
												RI Phase 1	RI Phase 1	RI Phase 1		
												Step 1	Step 1	Step 1		
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES											
Bismuth-214	pCi/g	2.4	100%	12	12							+/-0.7	1.9	+/-0.6	2.3	+/-0.6
Cesium-137	pCi/g	0.7	83%	10	12							+/-0.2	0.6	+/-0.2	0.2 U	
Cobalt-57	pCi/g	0.2	50%	6	12							+/-0.1	0.1	+/-0.1	0.2	+/-0.1
Cobalt-60	pCi/g	0.8	67%	8	12	J						+/-0.2	0.3 J	+/-0.1	0.8 J	+/-0.2
Lead-210	pCi/g	6.2	50%	6	12	J						+/-4.3	2 UJ		4.5 J	+/-3.7
Lead-211	pCi/g	16.7	75%	9	12	UJ							10 J	+/-8.8	16.7 J	+/-7.6
Lead-214	pCi/g	2.3	100%	12	12							+/-0.5	1.7	+/-0.5	1.9	+/-0.5
Plutonium-239/240	pCi/g	0	0%	0	12	U						+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	0	0%	0	6	UJ						+/-5	2 UJ	+/-5	2.8 UJ	+/-5.1
Radium-223	pCi/g	0.4	8%	1	12	U							0.6 U		0.6 U	
Radium-226	pCi/g	2.4	100%	12	12							+/-0.7	1.9	+/-0.6	2.3	+/-0.6
Radium-228	pCi/g	3.1	100%	12	12	J						+/-0.7	2.8 J	+/-0.6	2 J	+/-0.5
Thorium-230	pCi/g	1.7	67%	8	12							+/-0.5	1.2 UJ	+/-0.5	1.1 U	+/-0.4
Thorium-232	pCi/g	2	100%	12	12							+/-0.5	1.2 J	+/-0.5	1	+/-0.4
Tritium	pCi/g	4.1	8%	1	12	UJ						+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.2	92%	11	12							+/-0.3	0.7 J	+/-0.2	0.7	+/-0.3
Uranium-235	pCi/g	0.1	42%	5	12	U						+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1
Uranium-238	pCi/g	1.3	100%	12	12							+/-0.3	0.3 J	+/-0.1	0.8	+/-0.3

The image shows a large rectangular area in the center of the page, enclosed by a thin border. Inside this area, there is very faint and illegible text that appears to be bleed-through from the reverse side of the paper. The text is arranged in several lines and is difficult to decipher due to its low contrast and blurriness. The rest of the page is mostly blank, with three circular punch holes visible along the right edge.







TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12		
LOCATION ID						MW12-27		SS12-236		SS12-237		MW12-31		MW12-32		
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL		
SAMPLE ID						123061		123433		123417		123172		123178		
DEPTH TO TOP OF SAMPLE						0		0		0		0		0		
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2		
SAMPLE DATE						10/4/1998		11/17/1998		11/17/1998		26-Oct-98		26-Oct-98		
QC CODE						SA		SA		SA		SA		DU		
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		
PARAMTER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N			N			N			N	
Actinium-228	pCi/g	0.78	100%	1	1											
Bismuth-214	pCi/g	3	94%	61	65	2.5	+/-0.4		1.6 J	+/-0.5	1.7	+/-0.6	1.2	+/-0.4	1.9	+/-0.5
Cesium-137	pCi/g	1.5	92%	59	64	1 J	+/-0.4		0.6	+/-0.2	0.8 J	+/-0.2	0.7 J	+/-0.3	0.8 J	+/-0.2
Cobalt-57	pCi/g	0.2	39%	25	64	0.1 J	+/-0.1		0.2	+/-0.1	0.1 U		0.1 J	+/-0.1	0.1 J	+/-0.1
Cobalt-60	pCi/g	0.7	69%	44	64	0.7 J	+/-0.2		0.1 U		0.1 U		0.5	+/-0.2	0.5	+/-0.2
Gross Alpha	pCi/g	13	100%	1	1											
Gross Beta	pCi/g	27	100%	1	1											
Lead-210	pCi/g	72.3	63%	40	64	2.2 U			38.1 UJ		8.4	+/-4.4	5.7 J	+/-2.2	4.7 J	+/-2.4
Lead-211	pCi/g	20.1	55%	35	64	2.7 U			3.1 UJ		2.7 U		3.2 UJ		1.1 UJ	
Lead-214	pCi/g	2.9	95%	62	65	2.4	+/-0.6		1.6	+/-0.3	1.4 J	+/-0.4	1.4	+/-0.4	2.1	+/-0.4
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.2 U	+/-0.2		0.2	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	0	0%	0	2						6.5 U	+/-3.7				
Radium-223	pCi/g	1.7	13%	8	64	0.7 U			0.6 U		0.5 ND		0.5 U		0.5 U	
Radium-226	pCi/g	3	89%	57	64	2.5	+/-0.4		1.6 J	+/-0.5	1.7	+/-0.6	1.2 U	+/-0.4	1.9 U	+/-0.5
Radium-228	pCi/g	3.6	88%	56	64	2.6	+/-0.6		1.8 J	+/-0.6	2.2	+/-0.7	1.9	+/-0.6	2.5	+/-0.5
Thallium-208	pCi/g	0.26	100%	1	1											
Thorium-230	pCi/g	2.2	48%	31	64	0.9	+/-0.4		0.6 UJ	+/-0.3	1.2 U	+/-0.5	1.5 UJ	+/-0.6	1.1 UJ	+/-0.5
Thorium-232	pCi/g	1.8	98%	63	64	0.8	+/-0.4		1.2 J	+/-0.5	1.1	+/-0.4	1.4	+/-0.5	0.8 J	+/-0.4
Thorium-234	pCi/g	0.76	100%	1	1											
Tritium	pCi/g	418	84%	54	64	1.8 J	+/-0.1		146 J	+/-0.6	7.2 J	+/-0.2	0.1 U	+/-0.1	26.7	+/-0.2
Uranium-234	pCi/g	1.9	81%	52	64	0.7 J	+/-0.3		0.9	+/-0.3	1.1 J	+/-0.3	1 UJ	+/-0.3	1.1 UJ	+/-0.3
Uranium-235	pCi/g	0.2	28%	18	64	0.1 U	+/-0.1		0.1 U	+/-0.1	0.1 ND	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1
Uranium-238	pCi/g	1.8	98%	63	64	0.8	+/-0.3		0.8 J	+/-0.3	0.9 J	+/-0.3	0.8	+/-0.3	1	+/-0.3

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-32		SS12-238		SS12-239		MW12-37		MW12-37	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123175		123434		123435		123201		123210	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						26-Oct-98		17-Nov-98		17-Nov-98		11/1/1998		11/1/1998	
QC CODE						SA		SA		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMTER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N									
Actinium-228	pCi/g	0.78	100%	1	1										
Bismuth-214	pCi/g	3	94%	61	65	1.2	+/-0.5	2.9 J	+/-0.6	1.6	+/-0.5	1.8	+/-0.4	1.2	+/-0.3
Cesium-137	pCi/g	1.5	92%	59	64	0.9 J	+/-0.3	0.3	+/-0.3	0.4	+/-0.2	0.5 UJ	+/-0.1	0.6 UJ	+/-0.2
Cobalt-57	pCi/g	0.2	39%	25	64	0.1 UJ		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.7	69%	44	64	0.3	+/-0.1	0.1 U		0.1 U		0.3 UJ	+/-0.1	0.5 UJ	+/-0.1
Gross Alpha	pCi/g	13	100%	1	1										
Gross Beta	pCi/g	27	100%	1	1										
Lead-210	pCi/g	72.3	63%	40	64	4.7 J	+/-2.4	6.4 J	+/-2.8	17.3 UJ		2.7 J	+/-1.8	1.6 UJ	
Lead-211	pCi/g	20.1	55%	35	64	10.8 J	+/-6.3	2 UJ		0.7 UJ		1.4 UJ		2.4 J	+/-1.8
Lead-214	pCi/g	2.9	95%	62	65	1.4	+/-0.4	2.2	+/-0.5	1.2	+/-0.3	1.4 UJ	+/-0.4	1.4 UJ	+/-0.4
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.7	13%	8	64	0.5 U		0.6 U		0.4 U		0.4 UJ		0.3 UJ	
Radium-226	pCi/g	3	89%	57	64	1.2 U	+/-0.5	2.9 J	+/-0.6	1.6	+/-0.5	1.8	+/-0.4	1.2	+/-0.3
Radium-228	pCi/g	3.6	88%	56	64	2	+/-0.5	3.3 J	+/-0.7	1.9	+/-0.5	2.3	+/-0.5	1.3	+/-0.5
Thallium-208	pCi/g	0.26	100%	1	1										
Thorium-230	pCi/g	2.2	48%	31	64	0.8 UJ	+/-0.4	1.2	+/-0.5	1 U	+/-0.4	0.3 J	+/-0.2	0.6 J	+/-0.4
Thorium-232	pCi/g	1.8	98%	63	64	1.4 J	+/-0.6	1.2	+/-0.5	1.2	+/-0.4	0.7 J	+/-0.3	0.6 J	+/-0.4
Thorium-234	pCi/g	0.76	100%	1	1										
Tritium	pCi/g	418	84%	54	64	0.1 U	+/-0.1	117 J	+/-0.6	38	+/-0.3	0.1 U	+/-0.1	0.6 U	+/-0.1
Uranium-234	pCi/g	1.9	81%	52	64	1.1 UJ	+/-0.3	1	+/-0.3	0.9	+/-0.3	0.4 UJ	+/-0.2	0.9 J	+/-0.6
Uranium-235	pCi/g	0.2	28%	18	64	0.1 J	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.4 UJ	+/-0.1
Uranium-238	pCi/g	1.8	98%	63	64	0.9	+/-0.3	1.1 J	+/-0.3	1.1	+/-0.3	0.5	+/-0.2	0.5 J	+/-0.3

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-40		MW12A-1		SS12-19		SS12-20		SS12-21	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123121		MW12A-1-00		123104		123214		123215	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						14-Oct-98		10-Jun-94		13-Oct-98		03-Nov-98		03-Nov-98	
QC CODE						SA		SA		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		ES1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMTER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Actinium-228	pCi/g	0.78	100%	1	1			0.78	+/-0.34						
Bismuth-214	pCi/g	3	94%	61	65	2.2	+/-0.4	0.72	+/-0.28	1.6 J	+/-0.4	2.1 J	+/-0.5	1.9 J	+/-0.7
Cesium-137	pCi/g	1.5	92%	59	64	1	+/-0.5			0.7 J	+/-0.3	1.1	+/-0.2	1	+/-0.3
Cobalt-57	pCi/g	0.2	39%	25	64	0.1 U				0.1	+/-0.1	0.1	+/-0.1	0.1 U	
Cobalt-60	pCi/g	0.7	69%	44	64	0.4 J	+/-0.1			0.4 J	+/-0.1	0.2 J	+/-0.1	0.3 J	+/-0.1
Gross Alpha	pCi/g	13	100%	1	1			13	+/-5						
Gross Beta	pCi/g	27	100%	1	1			27	+/-6						
Lead-210	pCi/g	72.3	63%	40	64	7.6 J	+/-5			2.1 UJ		3.7 J	+/-2.9	3.7 J	+/-2
Lead-211	pCi/g	20.1	55%	35	64	20.1 J	+/-13.3			2.4 UJ		1 UJ		3.4 UJ	
Lead-214	pCi/g	2.9	95%	62	65	2	+/-0.5	0.83	+/-0.11	1.8	+/-0.4	1.9	+/-0.4	2	+/-0.4
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 U	+/-0.1			0.1 U	+/-0.1	0.2 U	+/-0.1	0.1 J	+/-0.1
Promethium-147	pCi/g	0	0%	0	2	0.4 UJ	+/-5								
Radium-223	pCi/g	1.7	13%	8	64	0.6 U				0.4 U		0.4 U		0.5 U	
Radium-226	pCi/g	3	89%	57	64	2.2	+/-0.4			1.6 J	+/-0.4	2.1 J	+/-0.5	1.9 J	+/-0.7
Radium-228	pCi/g	3.6	88%	56	64	2.1 J	+/-0.7			1.6	+/-0.5	1.7 J	+/-0.7	1.5 J	+/-0.5
Thallium-208	pCi/g	0.26	100%	1	1			0.26	+/-0.05						
Thorium-230	pCi/g	2.2	48%	31	64	1.1 UJ	+/-0.5			1.4 J	+/-0.6	0.9 UJ	+/-0.4	0.8 UJ	+/-0.3
Thorium-232	pCi/g	1.8	98%	63	64	1.4 J	+/-0.6			1.7 J	+/-0.6	1	+/-0.4	0.8	+/-0.3
Thorium-234	pCi/g	0.76	100%	1	1			0.76	+/-0.4						
Tritium	pCi/g	418	84%	54	64	5.2 J	+/-0.1			0.1 UJ	+/-0.1	3.8	+/-0.1	210	+/-0.8
Uranium-234	pCi/g	1.9	81%	52	64	1	+/-0.3			1 UJ	+/-0.3	1	+/-0.3	0.8	+/-0.3
Uranium-235	pCi/g	0.2	28%	18	64	0.1 U	+/-0.1			0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.8	98%	63	64	0.9	+/-0.3			1 J	+/-0.3	0.8	+/-0.3	0.8	+/-0.3

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12					
LOCATION ID		SS12-22		SS12-23		SS12-232		SS12-232		SS12-233					
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL					
SAMPLE ID		123216		123217		123428		123427		123429					
DEPTH TO TOP OF SAMPLE		0		0		0		0		0					
DEPTH TO BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2		0.2					
SAMPLE DATE		03-Nov-98		03-Nov-98		16-Nov-98		16-Nov-98		16-Nov-98					
QC CODE		SA		SA		DU		SA		SA					
STUDY ID		FREQUENCY		NUMBER		NUMBER		NUMBER		NUMBER					
		OF		OF		OF		OF		OF					
PARAMTER		DETECTION		DETECTS		ANALYSES									
UNIT	MAXIMU														
Actinium-228	pCi/g	0.78	100%	1	1										
Bismuth-214	pCi/g	3	94%	61	65	3 J	+/-0.6	2.4 J	+/-0.6	1.8	+/-0.4	1.8	+/-0.5	1.3 J	+/-0.3
Cesium-137	pCi/g	1.5	92%	59	64	0.6	+/-0.1	1.3	+/-0.4	0.7 J	+/-0.3	1 J	+/-0.3	0.4	+/-0.2
Cobalt-57	pCi/g	0.2	39%	25	64	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.7	69%	44	64	0.3 J	+/-0.1	0.3 J	+/-0.1	0.1 U		0.1 U		0.1 U	
Gross Alpha	pCi/g	13	100%	1	1										
Gross Beta	pCi/g	27	100%	1	1										
Lead-210	pCi/g	72.3	63%	40	64	5.5 J	+/-2.9	6 J	+/-3.2	22 UJ		6.5	+/-2.5	28 U	
Lead-211	pCi/g	20.1	55%	35	64	1.3 UJ		1 UJ		8.6 J	+/-3.5	2.3 U		6 J	+/-2.1
Lead-214	pCi/g	2.9	95%	62	65	2.4	+/-0.6	2.2	+/-0.6	1.8	+/-0.5	2.1	+/-0.4	1.3 J	+/-0.3
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.1	0.3 UJ	+/-0.2	0.2	+/-0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.7	13%	8	64	0.5 U		0.5 U		0.5 U		0.4 U		0.3 U	
Radium-226	pCi/g	3	89%	57	64	3 J	+/-0.6	2.4 J	+/-0.6	1.8	+/-0.4	1.8	+/-0.5	1.3 J	+/-0.3
Radium-228	pCi/g	3.6	88%	56	64	1.7 J	+/-0.7	1.5 J	+/-0.6	1.8	+/-0.5	2.8	+/-0.7	1.2 J	+/-0.4
Thallium-208	pCi/g	0.26	100%	1	1										
Thorium-230	pCi/g	2.2	48%	31	64	0.8 UJ	+/-0.4	0.9 UJ	+/-0.4	1.1 U	+/-0.5	1.5	+/-0.5	1 U	+/-0.4
Thorium-232	pCi/g	1.8	98%	63	64	1.3 J	+/-0.5	1.2	+/-0.4	1.3	+/-0.5	1.3	+/-0.5	0.7	+/-0.3
Thorium-234	pCi/g	0.76	100%	1	1										
Tritium	pCi/g	418	84%	54	64	4.1	+/-0.1	7	+/-0.2	46.2 J	+/-0.4	25.2	+/-0.2	0.1 U	+/-0.1
Uranium-234	pCi/g	1.9	81%	52	64	0.7	+/-0.2	1.4	+/-0.4	1 J	+/-0.3	1.4	+/-0.4	0.8	+/-0.3
Uranium-235	pCi/g	0.2	28%	18	64	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.8	98%	63	64	0.5	+/-0.2	1.1	+/-0.3	1.3 J	+/-0.4	0.8	+/-0.3	0.7	+/-0.3

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX SAMPLE ID			SEAD-12 SS12-24 SOIL			SEAD-12 SS12-25 SOIL			SEAD-12 SS12-26 SOIL			SEAD-12 SS12-27 SOIL			SEAD-12 SS12-27 SOIL		
DEPTH TO TOP OF SAMPLE			123218			123219			123220			123224			123223		
DEPTH TO BOTTOM OF SAMPLE			0			0			0			0			0		
SAMPLE DATE			03-Nov-98			03-Nov-98			03-Nov-98			09-Nov-98			04-Nov-98		
QC CODE			SA			SA			SA			DU			SA		
STUDY ID	PARAMTER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	
	Actinium-228	pCi/g	0.78	100%	1	1											
	Bismuth-214	pCi/g	3	94%	61	65	1.8 J	+/-0.4	2.3 J	+/-0.5	1.7 J	+/-0.5	3 J	+/-0.4	1.3 J	+/-0.4	
	Cesium-137	pCi/g	1.5	92%	59	64	0.4	+/-0.3	0.9	+/-0.3	0.7	+/-0.2	0.9	+/-0.2	0.8	+/-0.2	
	Cobalt-57	pCi/g	0.2	39%	25	64	0.1 U		0.1	+/-0.1	0.1 U		0.1 U		0.1 U		
	Cobalt-60	pCi/g	0.7	69%	44	64	0.2 J	+/-0.1	0.2 J	+/-0.1	0.2 J	+/-0.2	0.1 J	+/-0.1	0.4 J	+/-0.1	
	Gross Alpha	pCi/g	13	100%	1	1											
	Gross Beta	pCi/g	27	100%	1	1											
	Lead-210	pCi/g	72.3	63%	40	64	4.1 J	+/-2.2	2 UJ		8.2 J	+/-3.6	8.1	+/-3.6	5.8	+/-3.4	
	Lead-211	pCi/g	20.1	55%	35	64	12.7 J	+/-3.1	6.9 J	+/-2.9	1.4 UJ		19.2 J	+/-7.2	2.5 UJ		
	Lead-214	pCi/g	2.9	95%	62	65	1.9	+/-0.4	2.5	+/-0.5	2	+/-0.4	2	+/-0.4	1.6	+/-0.4	
	Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 J	+/-0.1	0.2 U	+/-0.1	0.1 J	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	
	Promethium-147	pCi/g	0	0%	0	2											
	Radium-223	pCi/g	1.7	13%	8	64	0.5 U		0.4 U		0.5 U		1.7 J	+/-0.7	0.5 UJ		
	Radium-226	pCi/g	3	89%	57	64	1.8 J	+/-0.4	2.3 J	+/-0.5	1.7 J	+/-0.5	3 J	+/-0.4	1.3 J	+/-0.4	
	Radium-228	pCi/g	3.6	88%	56	64	1.3 J	+/-0.5	2.1 J	+/-0.5	2 J	+/-0.5	2	+/-0.5	1.9 J	+/-0.5	
	Thallium-208	pCi/g	0.26	100%	1	1											
	Thorium-230	pCi/g	2.2	48%	31	64	0.9 UJ	+/-0.5	1 UJ	+/-0.4	0.7 UJ	+/-0.4	1.4 UJ	+/-0.6	1.3 UJ	+/-0.6	
	Thorium-232	pCi/g	1.8	98%	63	64	1.3 J	+/-0.6	1	+/-0.4	0.7	+/-0.3	1 J	+/-0.5	1.5 J	+/-0.6	
	Thorium-234	pCi/g	0.76	100%	1	1											
	Tritium	pCi/g	418	84%	54	64	0.1 U	+/-0.1	33.1	+/-0.3	21.7	+/-0.3	0.8 J	+/-0.1	11.5 J	+/-0.1	
	Uranium-234	pCi/g	1.9	81%	52	64	0.7 J	+/-0.2	0.9	+/-0.3	1	+/-0.3	0.9 J	+/-0.3	0.6	+/-0.2	
	Uranium-235	pCi/g	0.2	28%	18	64	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	
	Uranium-238	pCi/g	1.8	98%	63	64	0.8 J	+/-0.3	0.9	+/-0.3	1.4	+/-0.4	1 J	+/-0.3	0.6 J	+/-0.2	

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX			SEAD-12 SS12-28 SOIL			SEAD-12 SS12-29 SOIL			SEAD-12 SS12-30 SOIL			SEAD-12 SS12-31 SOIL			SEAD-12 SS12-32 SOIL		
SAMPLE ID			123225			123226			123227			123228			123229		
DEPTH TO TOP OF SAMPLE			0			0			0			0			0		
DEPTH TO BOTTOM OF SAMPLE			0.2			0.2			0.2			0.2			0.2		
SAMPLE DATE			09-Nov-98			09-Nov-98			09-Nov-98			09-Nov-98			09-Nov-98		
QC CODE			SA			SA			SA			SA			SA		
STUDY ID			FREQUENCY OF		NUMBER OF	NUMBER OF		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMTER	UNIT	MAXIMU	DETECTION	DETECTS	OF	OF	OF										
Actinium-228	pCi/g	0.78	100%	1	1	1											
Bismuth-214	pCi/g	3	94%	61	65	2.8 J	+/-0.6	3 J	+/-0.6	1.3 J	+/-0.3	1.8 J	+/-0.5	2.4 J	+/-0.5		
Cesium-137	pCi/g	1.5	92%	59	64	0.2	+/-0.1	0.8	+/-0.3	0.6	+/-0.3	0.5	+/-0.1	0.9	+/-0.3		
Cobalt-57	pCi/g	0.2	39%	25	64	0.1 U		0.1	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.2	+/-0.2		
Cobalt-60	pCi/g	0.7	69%	44	64	0.2	+/-0.1	0.3	+/-0.1	0.4	+/-0.1	0.2	+/-0.1	0.1 U			
Gross Alpha	pCi/g	13	100%	1	1												
Gross Beta	pCi/g	27	100%	1	1												
Lead-210	pCi/g	72.3	63%	40	64	5.3	+/-4	4.1	+/-2.3	3.3	+/-2.1	4.1	+/-3.1	5.2	+/-2.4		
Lead-211	pCi/g	20.1	55%	35	64	1.9 U		5	+/-1.9	11.5	+/-6.2	7.6	+/-4.3	2.1 U			
Lead-214	pCi/g	2.9	95%	62	65	2	+/-0.4	2	+/-0.5	1.8	+/-0.4	1.9	+/-0.4	2.4	+/-0.5		
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.2 U	+/-0.1	0.3 U	+/-0.1	0.2 U	+/-0.1	0.1 UJ	+/-0.1	0.2 U	+/-0.1		
Promethium-147	pCi/g	0	0%	0	2												
Radium-223	pCi/g	1.7	13%	8	64	0.5 U		0.4 U		0.4 U		0.4 U		0.5 U			
Radium-226	pCi/g	3	89%	57	64	2.8 J	+/-0.6	3 J	+/-0.6	1.3 J	+/-0.3	1.8 J	+/-0.5	2.4 J	+/-0.5		
Radium-228	pCi/g	3.6	88%	56	64	2.4	+/-0.5	3.6	+/-1	1.8	+/-0.4	2.6	+/-0.7	2.2	+/-0.8		
Thallium-208	pCi/g	0.26	100%	1	1												
Thorium-230	pCi/g	2.2	48%	31	64	1.6 UJ	+/-0.7	1.2 UJ	+/-0.5	1.3 U	+/-0.5	1 U	+/-0.4	1.3 UJ	+/-0.6		
Thorium-232	pCi/g	1.8	98%	63	64	1.4 J	+/-0.6	0.7 J	+/-0.4	1.2	+/-0.4	1	+/-0.4	1.8 J	+/-0.8		
Thorium-234	pCi/g	0.76	100%	1	1												
Tritium	pCi/g	418	84%	54	64	29.4 J	+/-0.2	9.1 J	+/-0.2	0.8 J	+/-0.1	0.4 J	+/-0.1	4.8 J	+/-0.1		
Uranium-234	pCi/g	1.9	81%	52	64	0.6	+/-0.2	0.6	+/-0.2	0.6 J	+/-0.2	0.7	+/-0.3	0.7	+/-0.2		
Uranium-235	pCi/g	0.2	28%	18	64	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1		
Uranium-238	pCi/g	1.8	98%	63	64	0.9 J	+/-0.3	0.8 J	+/-0.3	0.6 J	+/-0.2	0.6 J	+/-0.2	0.6 J	+/-0.2		



TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY			SEAD-12			SEAD-12			SEAD-12			SEAD-12				
LOCATION ID			SS12-33			SS12-34			SS12-35			SS12-36				
MATRIX			SOIL			SOIL			SOIL			SOIL				
SAMPLE ID			123230			123231			123232			123233				
DEPTH TO TOP OF SAMPLE			0			0			0			0				
DEPTH TO BOTTOM OF SAMPLE			0.2			0.2			0.2			0.2				
SAMPLE DATE			10-Nov-98			09-Nov-98			09-Nov-98			10-Nov-98				
QC CODE			SA			SA			SA			SA				
STUDY ID			FREQUENCY OF		NUMBER OF		NUMBER OF		RI Phase 1		Step 1		RI Phase 1		Step 1	
PARAMTER	UNIT	MAXIMU	DETECTION	DETECTS	ANALYSES											
Actinium-228	pCi/g	0.78	100%	1	1											
Bismuth-214	pCi/g	3	94%	61	65	1.3	+/-0.3	0.3	+/-0.2	1.6	+/-0.3	0.1 U		2.8	+/-0.6	
Cesium-137	pCi/g	1.5	92%	59	64	0.5	+/-0.1	0.2	+/-0.1	0.6	+/-0.2	0.1	+/-0.1	0.8	+/-0.1	
Cobalt-57	pCi/g	0.2	39%	25	64	0.1	+/-0.1	0.1	+/-0.1	0.1 U		0.1 U		0.1	+/-0.1	
Cobalt-60	pCi/g	0.7	69%	44	64	0.3	+/-0.1	0.1	+/-0.1	0.2	+/-0.1	0.1	+/-0.1	0.1 U		
Gross Alpha	pCi/g	13	100%	1	1											
Gross Beta	pCi/g	27	100%	1	1											
Lead-210	pCi/g	72.3	63%	40	64	4.6 J	+/-1.9	29.9 UJ		9 J	+/-4.2	23.1 UJ		1.2 UJ		
Lead-211	pCi/g	20.1	55%	35	64	8.2	+/-4.1	5.9	+/-2.1	2.5 U		1.7 U		10.1	+/-5.2	
Lead-214	pCi/g	2.9	95%	62	65	1.4	+/-0.4	0.3	+/-0.2	2.6	+/-0.4	0.2	+/-0.2	2.5	+/-0.6	
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 U	+/-0.1	0.1 J	+/-0.1	0.1 U	+/-0.1	0.2 J	+/-0.1	0.2 UJ	+/-0.1	
Promethium-147	pCi/g	0	0%	0	2											
Radium-223	pCi/g	1.7	13%	8	64	0.5 U		0.4 U		0.5 U		1.5	+/-0.3	0.4 U		
Radium-226	pCi/g	3	89%	57	64	1.3	+/-0.3	0.3	+/-0.2	1.6	+/-0.3	0.1 U		2.8	+/-0.6	
Radium-228	pCi/g	3.6	88%	56	64	1.9	+/-0.4	0.4 U		2	+/-0.7	0.1 U		1.9	+/-0.4	
Thallium-208	pCi/g	0.26	100%	1	1											
Thorium-230	pCi/g	2.2	48%	31	64	0.3 U	+/-0.3	1.3 J	+/-0.6	0.9	+/-0.4	1.2	+/-0.5	0.8 J	+/-0.4	
Thorium-232	pCi/g	1.8	98%	63	64	0.9	+/-0.4	1.5 J	+/-0.6	1.2	+/-0.4	1	+/-0.4	1.2 J	+/-0.5	
Thorium-234	pCi/g	0.76	100%	1	1											
Tritium	pCi/g	418	84%	54	64	180	+/-0.7	0.2	+/-0.1	418	+/-1.1	2.6	+/-0.1	119	+/-0.7	
Uranium-234	pCi/g	1.9	81%	52	64	0.6 U	+/-0.2	1	+/-0.4	1.4	+/-0.4	0.7	+/-0.3	1	+/-0.4	
Uranium-235	pCi/g	0.2	28%	18	64	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	
Uranium-238	pCi/g	1.8	98%	63	64	0.5 J	+/-0.2	0.8 J	+/-0.3	1.2 J	+/-0.4	0.6 J	+/-0.2	1.3 J	+/-0.4	

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY			SEAD-12			SEAD-12			SEAD-12			SEAD-12			
LOCATION ID			SS12-38			SS12-39			SS12-40			SS12-41			
MATRIX			SOIL			SOIL			SOIL			SOIL			
SAMPLE ID			123235			123236			123237			123238			
DEPTH TO TOP OF SAMPLE			0			0			0			0			
DEPTH TO BOTTOM OF SAMPLE			0.2			0.2			0.2			0.2			
SAMPLE DATE			10-Nov-98			09-Nov-98			09-Nov-98			10-Nov-98			
QC CODE			SA			SA			SA			SA			
STUDY ID			FREQUENCY OF DETECTION		NUMBER OF DETECTS	NUMBER OF ANALYSES		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMTER	UNIT	MAXIMU	DETECTION	DETECTS	ANALYSES										
Actinium-228	pCi/g	0.78	100%	1	1										
Bismuth-214	pCi/g	3	94%	61	65	2.4	+/-0.5	0.5	+/-0.2	2.4 J	+/-0.6	0.4	+/-0.2	2.8	+/-0.7
Cesium-137	pCi/g	1.5	92%	59	64	1.4 J	+/-0.2	0.2	+/-0.1	1	+/-0.3	0.1 J	+/-0.1	0.9	+/-0.2
Cobalt-57	pCi/g	0.2	39%	25	64	0.1	+/-0.1	0.1 U		0.1 U		0.1	+/-0.1	0.1	+/-0.1
Cobalt-60	pCi/g	0.7	69%	44	64	0.2 U		0.1 U		0.3	+/-0.1	0.1 U		0.6	+/-0.2
Gross Alpha	pCi/g	13	100%	1	1										
Gross Beta	pCi/g	27	100%	1	1										
Lead-210	pCi/g	72.3	63%	40	64	3.6 J	+/-2.9	19 UJ		3.6	+/-1.7	72.3 J	+/-36.1	7 J	+/-3
Lead-211	pCi/g	20.1	55%	35	64	4.3 U		7.6	+/-2.8	2.5 UJ		4	+/-1.8	2.2 U	
Lead-214	pCi/g	2.9	95%	62	65	2.5	+/-0.6	0.4	+/-0.1	1.9 J	+/-0.4	0.7	+/-0.3	2.3	+/-0.4
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 UJ	+/-0.1	0.1 J	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1 J	+/-0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.7	13%	8	64	0.6 UJ		1.3	+/-0.6	0.5 U		1.3 J	+/-0.5	0.5 U	
Radium-226	pCi/g	3	89%	57	64	2.4	+/-0.5	0.5	+/-0.2	2.4 J	+/-0.6	0.4	+/-0.2	2.8	+/-0.7
Radium-228	pCi/g	3.6	88%	56	64	2.2	+/-0.6	0.1 U		1.5	+/-0.4	0.3	+/-0.2	2.1	+/-0.6
Thallium-208	pCi/g	0.26	100%	1	1										
Thorium-230	pCi/g	2.2	48%	31	64	1 UJ	+/-0.4	1.3	+/-0.5	0.9	+/-0.4	1.1 UJ	+/-0.4	0.7	+/-0.3
Thorium-232	pCi/g	1.8	98%	63	64	1.2	+/-0.4	0.8	+/-0.3	0.6 J	+/-0.3	0.8	+/-0.3	1.2	+/-0.5
Thorium-234	pCi/g	0.76	100%	1	1										
Tritium	pCi/g	418	84%	54	64	27.3 J	+/-0.3	5.4	+/-0.1	29.6 J	+/-0.3	47.6 J	+/-0.3	8.9	+/-0.1
Uranium-234	pCi/g	1.9	81%	52	64	1.5	+/-0.4	0.7	+/-0.2	0.8	+/-0.3	0.6 U	+/-0.2	0.6 U	+/-0.2
Uranium-235	pCi/g	0.2	28%	18	64	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.8	98%	63	64	1.4	+/-0.4	0.8 J	+/-0.3	1	+/-0.3	0.6	+/-0.2	0.7 J	+/-0.2

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY		SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12					
LOCATION ID		SS12-43		SS12-44		SS12-45		SS12-46		SS12-47					
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL					
SAMPLE ID		123105		123240		123241		123242		123243					
DEPTH TO TOP OF SAMPLE		0		0		0		0		0					
DEPTH TO BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2		0.2					
SAMPLE DATE		13-Oct-98		10-Nov-98		09-Nov-98		09-Nov-98		09-Nov-98					
QC CODE		SA		SA		SA		SA		SA					
STUDY ID		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1					
PARAMTER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Actinium-228	pCi/g	0.78	100%	1	1										
Bismuth-214	pCi/g	3	94%	61	65	2.5 J	+/-0.7	0.1 U		0.2 U	+/-0.6	1.1	+/-0.4		
Cesium-137	pCi/g	1.5	92%	59	64	1.4 J	+/-0.4	0.3	+/-0.3	0.3 J	+/-0.1	1.1	+/-0.4		
Cobalt-57	pCi/g	0.2	39%	25	64	0.1 U		0.1	+/-0.1	0.1 U	+/-0.1	0.2	+/-0.1		
Cobalt-60	pCi/g	0.7	69%	44	64	0.5 J	+/-0.2	0.1	+/-0.1	0.3	+/-0.1	0.4	+/-0.1		
Gross Alpha	pCi/g	13	100%	1	1										
Gross Beta	pCi/g	27	100%	1	1										
Lead-210	pCi/g	72.3	63%	40	64	7 J	+/-2.9	20.7 UJ		13.9 UJ	+/-2.6	4.8 J	21.8 UJ		
Lead-211	pCi/g	20.1	55%	35	64	12.7 J	+/-4.4	1.5 U		3	+/-2.5	8.1	+/-7.2	8.2	+/-3.4
Lead-214	pCi/g	2.9	95%	62	65	1.4	+/-0.4	0.4	+/-0.2	0.5	+/-0.1	2.9	+/-0.4	0.2	+/-0.1
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 U	+/-0.1	0.1 J	+/-0.1	0.1 UJ	+/-0.1	0.2 J	+/-0.1	0.2 U	+/-0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.7	13%	8	64	0.6 U		1.2	+/-0.6	0.4 UJ		0.5 U		0.3 UJ	
Radium-226	pCi/g	3	89%	57	64	2.5 J	+/-0.7	0.1 U		0.2 U	+/-0.6	2.7	+/-0.6	1.1	+/-0.4
Radium-228	pCi/g	3.6	88%	56	64	2.6	+/-0.9	0.2 U		0.3 U	+/-0.5	2.1	+/-0.5	0.7	+/-0.3
Thallium-208	pCi/g	0.26	100%	1	1										
Thorium-230	pCi/g	2.2	48%	31	64	1.7 J	+/-0.6	1	+/-0.4	1.4 J	+/-0.5	1.4 J	+/-0.5	0.8 UJ	+/-0.4
Thorium-232	pCi/g	1.8	98%	63	64	1.3 J	+/-0.5	0.7	+/-0.3	1.1	+/-0.4	1.3 J	+/-0.5	0.7	+/-0.3
Thorium-234	pCi/g	0.76	100%	1	1										
Tritium	pCi/g	418	84%	54	64	2.2 J	+/-0.1	1	+/-0.1	99.4 J	+/-0.5	7.6	+/-0.1	6.6 J	+/-0.2
Uranium-234	pCi/g	1.9	81%	52	64	2 UJ	+/-0.4	0.4 U	+/-0.2	0.7	+/-0.3	0.8	+/-0.3	1.1	+/-0.3
Uranium-235	pCi/g	0.2	28%	18	64	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.8	98%	63	64	1.6 J	+/-0.4	0.6 J	+/-0.2	1.1	+/-0.3	0.8 J	+/-0.3	1.1	+/-0.3

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						SS12-48		SS12-48		SS12-49		SS12-50		SS12-51	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123245		123244		123246		123247		123248	
DEPTH TO TOP OF SAMPLE						0		0		0		0		0	
DEPTH TO BOTTOM OF SAMPLE						0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE						10-Nov-98		10-Nov-98		09-Nov-98		11-Nov-98		11-Nov-98	
QC CODE						DU		SA		SA		SA		SA	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMTER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Actinium-228	pCi/g	0.78	100%	1	1										
Bismuth-214	pCi/g	3	94%	61	65	0.1 UJ		0.8 J	+/-0.2	1.4	+/-0.4	2.3 J	+/-0.6	2.2 J	+/-0.5
Cesium-137	pCi/g	1.5	92%	59	64	0.1 UJ		0.1 J	+/-0.1	1 J	+/-0.2	1	+/-0.3	1.5	+/-0.2
Cobalt-57	pCi/g	0.2	39%	25	64	0.1 U		0.1 UJ		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.7	69%	44	64	0.3 J	+/-0.1	0.1 UJ		0.3	+/-0.2	0.3	+/-0.1	0.6	+/-0.3
Gross Alpha	pCi/g	13	100%	1	1										
Gross Beta	pCi/g	27	100%	1	1										
Lead-210	pCi/g	72.3	63%	40	64	15.3 UJ		18.6 UJ		5.4 J	+/-3.3	5.4	+/-3	5.6	+/-3.3
Lead-211	pCi/g	20.1	55%	35	64	6	+/-3.2	5.8	+/-2.5	13.9	+/-9	11.7 J	+/-5.6	13.6 J	+/-7.9
Lead-214	pCi/g	2.9	95%	62	65	0.3 J	+/-0.2	0.1 UJ		1.3	+/-0.4	2.2 J	+/-0.5	2.4 J	+/-0.5
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1 J	+/-0.1	0.2 J	+/-0.1	0.1 UJ	+/-0.1	0.2 U	+/-0.1	0.1	+/-0.1
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.7	13%	8	64	0.4 U		0.5 U		0.5 UJ		0.6 U		0.5 U	
Radium-226	pCi/g	3	89%	57	64	0.1 UJ		0.8 J	+/-0.2	1.4	+/-0.4	2.3 J	+/-0.6	2.2 J	+/-0.5
Radium-228	pCi/g	3.6	88%	56	64	0.1 UJ		0.5 J	+/-0.3	2.1	+/-0.5	1.7	+/-0.6	2.1	+/-0.4
Thallium-208	pCi/g	0.26	100%	1	1										
Thorium-230	pCi/g	2.2	48%	31	64	1.1 J	+/-0.4	2.1 J	+/-0.8	0.8 UJ	+/-0.4	1.7	+/-0.6	1.8	+/-0.6
Thorium-232	pCi/g	1.8	98%	63	64	1.1 J	+/-0.4	1.7 J	+/-0.7	0.5 J	+/-0.3	1.4 J	+/-0.5	0.8 J	+/-0.3
Thorium-234	pCi/g	0.76	100%	1	1										
Tritium	pCi/g	418	84%	54	64	21.2 J	+/-0.3	0.1 J	+/-0.1	0.2 J	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.9	81%	52	64	0.9	+/-0.3	1.1	+/-0.3	0.8	+/-0.3	1.9	+/-0.5	1	+/-0.3
Uranium-235	pCi/g	0.2	28%	18	64	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2	+/-0.1	0.1	+/-0.1
Uranium-238	pCi/g	1.8	98%	63	64	1.3 J	+/-0.4	1 J	+/-0.3	0.8	+/-0.3	1.8	+/-0.5	0.7	+/-0.3

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID MATRIX			SEAD-12 SS12-52 SOIL			SEAD-12 SS12-53 SOIL			SEAD-12 SS12-54 SOIL			SEAD-12 SS12-55 SOIL			SEAD-12 SS12-56 SOIL		
SAMPLE ID			123249			123250			123251			123106			123252		
DEPTH TO TOP OF SAMPLE			0			0			0			0			0		
DEPTH TO BOTTOM OF SAMPLE			0.2			0.2			0.2			0.2			0.2		
SAMPLE DATE			11-Nov-98			11-Nov-98			11-Nov-98			13-Oct-98			11-Nov-98		
QC CODE			SA			SA			SA			SA			SA		
STUDY ID			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1		
PARAMTER	UNIT	MAXIMU	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES												
Actinium-228	pCi/g	0.78	100%	1	1												
Bismuth-214	pCi/g	3	94%	61	65	1.7 J	+/-0.4	1.7 J	+/-0.4	1.6 J	+/-0.3	2.1 J	+/-0.5	1.9 J	+/-0.6		
Cesium-137	pCi/g	1.5	92%	59	64	1	+/-0.4	0.8	+/-0.2	0.4	+/-0.1	0.6 J	+/-0.3	0.6	+/-0.2		
Cobalt-57	pCi/g	0.2	39%	25	64	0.1	+/-0.1	0.1 U		0.1	+/-0.1	0.2	+/-0.1	0.1 U			
Cobalt-60	pCi/g	0.7	69%	44	64	0.1	+/-0.1	0.1 U		0.1	+/-0.1	0.3 J	+/-0.1	0.2 U			
Gross Alpha	pCi/g	13	100%	1	1												
Gross Beta	pCi/g	27	100%	1	1												
Lead-210	pCi/g	72.3	63%	40	64	6.2	+/-3.9	38.9 U		20 U		6.6 J	+/-3.5	1.5 UJ			
Lead-211	pCi/g	20.1	55%	35	64	2.6 UJ		5.8 J	+/-4.8	2 J	+/-1.9	17 J	+/-7.2	2.9 UJ			
Lead-214	pCi/g	2.9	95%	62	65	2.2 J	+/-0.5	1.3 J	+/-0.3	1.2 J	+/-0.3	2	+/-0.5	2	+/-0.4		
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.1	+/-0.1	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.2 UJ	+/-0.2		
Promethium-147	pCi/g	0	0%	0	2												
Radium-223	pCi/g	1.7	13%	8	64	0.6 U		0.8	+/-0.5	0.5 U		0.6 U		0.7 UJ			
Radium-226	pCi/g	3	89%	57	64	1.7 J	+/-0.4	1.7 J	+/-0.4	1.6 J	+/-0.3	2.1 J	+/-0.5	1.9 J	+/-0.6		
Radium-228	pCi/g	3.6	88%	56	64	2.6	+/-0.6	2.2	+/-0.6	0.5 U		2.4	+/-0.5	2.5 J	+/-0.6		
Thallium-208	pCi/g	0.26	100%	1	1												
Thorium-230	pCi/g	2.2	48%	31	64	1	+/-0.4	1	+/-0.4	1	+/-0.4	1.1 U	+/-0.4	0.9 UJ	+/-0.4		
Thorium-232	pCi/g	1.8	98%	63	64	0.9 J	+/-0.4	1.2 J	+/-0.4	1.2 J	+/-0.4	1 J	+/-0.4	1.1	+/-0.4		
Thorium-234	pCi/g	0.76	100%	1	1												
Tritium	pCi/g	418	84%	54	64	228 J	+/-0.9	130 J	+/-0.8	25.4 J	+/-0.2	16.9 J	+/-0.3	1.7 J	+/-0.1		
Uranium-234	pCi/g	1.9	81%	52	64	1.1	+/-0.3	1.1	+/-0.4	0.5	+/-0.2	0.9 UJ	+/-0.3	0.5 J	+/-0.2		
Uranium-235	pCi/g	0.2	28%	18	64	0.2	+/-0.1	0.2	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1		
Uranium-238	pCi/g	1.8	98%	63	64	1.3	+/-0.4	1.1	+/-0.4	0.9	+/-0.3	0.8 J	+/-0.3	0.7	+/-0.3		

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY LOCATION ID		SEAD-12 SS12-57 SOIL		SEAD-12 SS12-58 SOIL		SEAD-12 SS12-59 SOIL		SEAD-12 SS12-60 SOIL		SEAD-12 SS12-61 SOIL					
MATRIX SAMPLE ID		123253		123254		123255		123256		123257					
DEPTH TO TOP OF SAMPLE		0		0		0		0		0					
DEPTH TO BOTTOM OF SAMPLE		0.2		0.2		0.2		0.2		0.2					
SAMPLE DATE		11-Nov-98		11-Nov-98		11-Nov-98		12-Nov-98		10-Nov-98					
QC CODE		SA		SA		SA		SA		SA					
STUDY ID		FREQUENCY OF	NUMBER OF	NUMBER OF		RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES										
Actinium-228	pCi/g	0.78	100%	1	1										
Bismuth-214	pCi/g	3	94%	61	65	1.8	J	+/-0.6		1.8	J	+/-0.3			
Cesium-137	pCi/g	1.5	92%	59	64	0.1	U			0.3		+/-0.1			
Cobalt-57	pCi/g	0.2	39%	25	64	0.3	U			0.1	U	+/-0.1		0.1	U
Cobalt-60	pCi/g	0.7	69%	44	64	0.5		+/-0.2		0.1	U			0.1	+/-0.1
Gross Alpha	pCi/g	13	100%	1	1										
Gross Beta	pCi/g	27	100%	1	1										
Lead-210	pCi/g	72.3	63%	40	64	29.5	UJ			25.5	U			17.3	U
Lead-211	pCi/g	20.1	55%	35	64	8.2	J	+/-3.4		5.6	J	+/-2.5		4.1	J
Lead-214	pCi/g	2.9	95%	62	65	1.4		+/-0.4		1.3	J	+/-0.3		1	J
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.4	UJ	+/-0.2		0.1		+/-0.1		0.1	
Promethium-147	pCi/g	0	0%	0	2										
Radium-223	pCi/g	1.7	13%	8	64	0.4	UJ			0.4	U			0.4	U
Radium-226	pCi/g	3	89%	57	64	1.8	J	+/-0.6		1.8	J	+/-0.3		1.4	J
Radium-228	pCi/g	3.6	88%	56	64	2.5	J	+/-0.6		1.9		+/-0.5		1.9	
Thallium-208	pCi/g	0.26	100%	1	1										
Thorium-230	pCi/g	2.2	48%	31	64	2.2	J	+/-1.1		1.5		+/-0.6		0.9	
Thorium-232	pCi/g	1.8	98%	63	64	1.4	J	+/-0.8		1.8	J	+/-0.6		1.4	J
Thorium-234	pCi/g	0.76	100%	1	1									1.2	
Tritium	pCi/g	418	84%	54	64	0.1	J	+/-0.1		62.4	J	+/-0.4		19	J
Uranium-234	pCi/g	1.9	81%	52	64	1.2	J	+/-0.4		1		+/-0.3		0.8	
Uranium-235	pCi/g	0.2	28%	18	64	0.1		+/-0.1		0.1	U	+/-0.1		0.1	
Uranium-238	pCi/g	1.8	98%	63	64	1.2		+/-0.4		0.7		+/-0.3		0.9	

TABLE G-34  
 CLASS III RADIOLOGICAL DATA-SURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY

FACILITY			SEAD-12			SEAD-12			SEAD-12			SEAD-12								
LOCATION ID			SS12-62			SS12-63			SS12-66			SS12-67			SS12-68					
MATRIX			SOIL			SOIL			SOIL			SOIL			SOIL					
SAMPLE ID			123258			123259			123260			123108			123213					
DEPTH TO TOP OF SAMPLE			0			0			0			0			0					
DEPTH TO BOTTOM OF SAMPLE			0.2			0.2			0.2			0.2			0.2					
SAMPLE DATE			11-Nov-98			10-Nov-98			11-Nov-98			12-Oct-98			03-Nov-98					
QC CODE			SA			SA			SA			SA			SA					
STUDY ID			FREQUENCY OF		NUMBER OF		NUMBER OF		RI Phase 1		Step 1		RI Phase 1		Step 1		RI Phase 1		Step 1	
PARAMETER	UNIT	MAXIMU	DETECTION	DETECTS	ANALYSES															
Actinium-228	pCi/g	0.78	100%	1	1															
Bismuth-214	pCi/g	3	94%	61	65	2.4	J	+/-0.6	0.6	+/-0.5	1.1	J	+/-0.3	1.9	J	+/-0.4	1.9	J	+/-0.4	
Cesium-137	pCi/g	1.5	92%	59	64	0.9	J	+/-0.2	0.1	+/-0.1	0.4	J	+/-0.1	0.4	J	+/-0.2	0.3		+/-0.2	
Cobalt-57	pCi/g	0.2	39%	25	64	0.1	U		0.1	+/-0.1	0.1	U	+/-0.1	0.1	U		0.1	U		
Cobalt-60	pCi/g	0.7	69%	44	64	0.4		+/-0.1	0.2	U	0.3		+/-0.1	0.2	J	+/-0.1	0.5	J	+/-0.1	
Gross Alpha	pCi/g	13	100%	1	1															
Gross Beta	pCi/g	27	100%	1	1															
Lead-210	pCi/g	72.3	63%	40	64	4.6		+/-2.3	25.4	UJ	44.4	J	+/-26	2.9	J	+/-1.6	5.5	J	+/-3.1	
Lead-211	pCi/g	20.1	55%	35	64	2.7	UJ		2.3	U	9.8	J	+/-3.7	3.3	J	+/-2.1	12.3	J	+/-9.5	
Lead-214	pCi/g	2.9	95%	62	65	2.2	J	+/-0.6	0.4	+/-0.2	1.5		+/-0.4	1.8		+/-0.3	2		+/-0.5	
Plutonium-239/240	pCi/g	0.2	31%	20	64	0.2	U	+/-0.1	0.1	U	0.1	UJ	+/-0.2	0.2	U	+/-0.1	0.1	J	+/-0.1	
Promethium-147	pCi/g	0	0%	0	2															
Radium-223	pCi/g	1.7	13%	8	64	0.5	U		0.5	UJ	0.4	UJ		0.6	U	+/-0.3	0.5	U		
Radium-226	pCi/g	3	89%	57	64	2.4	J	+/-0.6	0.6	+/-0.5	1.1	J	+/-0.3	1.9	J	+/-0.4	1.9	J	+/-0.4	
Radium-228	pCi/g	3.6	88%	56	64	1.9		+/-0.5	0.2	U	1.4	J	+/-0.4	1.2		+/-0.3	3	J	+/-0.9	
Thallium-208	pCi/g	0.26	100%	1	1															
Thorium-230	pCi/g	2.2	48%	31	64	1.4		+/-0.5	1	UJ	1.4	J	+/-0.6	1.1	U	+/-0.4	1.4	J	+/-0.6	
Thorium-232	pCi/g	1.8	98%	63	64	0.8	J	+/-0.3	1.3	J	1	J	+/-0.5	0.4	UJ	+/-0.2	1.3	J	+/-0.6	
Thorium-234	pCi/g	0.76	100%	1	1															
Tritium	pCi/g	418	84%	54	64	31.2	J	+/-0.3	0.9	J	0.2	J	+/-0.1	0.1	UJ	+/-0.1	0.2		+/-0.1	
Uranium-234	pCi/g	1.9	81%	52	64	0.9		+/-0.3	0.9	J	1	J	+/-0.3	0.6	UJ	+/-0.2	0.9	J	+/-0.3	
Uranium-235	pCi/g	0.2	28%	18	64	0.1		+/-0.1	0.1		0.1		+/-0.1	0.1	U	+/-0.1	0.1	J	+/-0.1	
Uranium-238	pCi/g	1.8	98%	63	64	0.8		+/-0.3	0.9		1		+/-0.3	0.2	UJ	+/-0.1	1.1	J	+/-0.3	









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TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY			SEAD-12			SEAD-12			SEAD-12			SEAD-12			
LOCATION ID			MW12-37			MW12-38			MW12-38			MW12-39			
MATRIX			SOIL			SOIL			SOIL			SOIL			
SAMPLE ID			123203			123204			123206			123207			
DEPTH TO TOP OF SAMPLE			2			1			3			1.5			
DEPTH TO BOTTOM OF SAMPLE			4			1.2			4			2.4			
SAMPLE DATE			01-Nov-98			01-Nov-98			01-Nov-98			01-Nov-98			
QC CODE			SA			SA			SA			SA			
STUDY ID			FREQUENCY	NUMBER	NUMBER	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
PARAMETER	UNIT	MAXIMUM	DETECTION	OF	OF	OF	OF	OF	OF	OF	OF	OF	OF	OF	OF
				DETECTS	ANALYSES										
Actinium-228	pCi/g	0.84	100%	2	2										
Bismuth-214	pCi/g	2.5	100%	38	38	1.8	+/-0.3	1	+/-0.3	1.7	+/-0.5	2.3	+/-0.5	1.8	+/-0.4
Cesium-137	pCi/g	1.1	69%	25	36	0.7 UJ	+/-0.2	0.1 UJ	+/-0.1	0.4 UJ	+/-0.1	0.1 UJ	+/-0.1	0.3	+/-0.2
Cobalt-57	pCi/g	0.3	25%	9	36	0.1 U		0.1	+/-0.1	0.1 U		0.1 U		0.1	+/-0.1
Cobalt-60	pCi/g	0.7	81%	29	36	0.4 UJ	+/-0.1	0.2 UJ	+/-0.1	0.1 UJ		0.1 UJ		0.4 J	+/-0.1
Gross Alpha	pCi/g	8	100%	2	2										
Gross Beta	pCi/g	24	100%	2	2										
Lead-210	pCi/g	57.8	67%	24	36	3.9 J	+/-2.4	3.1 J	+/-2	2.5 J	+/-1.9	2.9 J	+/-2.3	3 J	+/-1.9
Lead-211	pCi/g	18.6	58%	21	36	1.1 UJ		0.9 UJ		2.4 UJ		4.5 J	+/-2.6	4.6 J	+/-2.3
Lead-214	pCi/g	2.5	89%	34	38	1.8 UJ	+/-0.4	0.7 UJ	+/-0.3	2.1 UJ	+/-0.4	1.8 UJ	+/-0.5	1.5	+/-0.5
Plutonium-239/240	pCi/g	0	0%	0	36	0.1 UJ	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	16.5	33%	1	3									4.1 UJ	+/-5.1
Radium-223	pCi/g	1.6	8%	3	36	0.5 UJ		0.3 UJ		0.5 UJ		0.4 UJ		0.5 U	
Radium-226	pCi/g	2.3	92%	33	36	1.8	+/-0.3	1 U	+/-0.3	1.7	+/-0.5	2.3	+/-0.5	1.8	+/-0.4
Radium-228	pCi/g	3.5	100%	36	36	1.8	+/-0.6	0.9	+/-0.3	2.3	+/-0.5	1.7	+/-0.5	2.4 J	+/-0.7
Thallium-208	pCi/g	0.41	100%	2	2										
Thorium-230	pCi/g	2.3	58%	21	36	2.3 J	+/-1.1	0.7 J	+/-0.4	1.6 J	+/-0.6	0.9 J	+/-0.6	1.1 U	+/-0.4
Thorium-232	pCi/g	1.9	78%	28	36	1.8 J	+/-0.9	0.5 J	+/-0.3	1.3 J	+/-0.5	0.8 J	+/-0.5	1.4	+/-0.5
Thorium-234	pCi/g	0.38	100%	2	2										
Tritium	pCi/g	0.7	6%	2	36	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.6	69%	25	36	0.9 J	+/-0.4	0.8 J	+/-0.4	0.7 J	+/-0.3	0.5 UJ	+/-0.3	1	+/-0.3
Uranium-235	pCi/g	0.4	53%	19	36	0.1 U	+/-0.1	0.1 UJ	+/-0.2	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1
Uranium-238	pCi/g	1.4	97%	35	36	0.9	+/-0.4	0.6 J	+/-0.4	0.6	+/-0.3	0.5	+/-0.2	0.6	+/-0.3

TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-40		MW12A-1		MW12A-1		TP12-10A		TP12-10A	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123123		MW12A-1-03		MW12A-1-05		123067		123055	
DEPTH TO TOP OF SAMPLE						4		4		8		1		1	
DEPTH TO BOTTOM OF SAMPLE						6		6		9.5		1		1	
SAMPLE DATE						14-Oct-98		10-Jun-94		10-Jun-94		04-Oct-98		04-Oct-98	
QC CODE						SA		SA		SA		DU		SA	
STUDY ID						RI Phase 1 Step 1		ESI		ESI		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Actinium-228	pCi/g	0.84	100%	2	2			0.68	+/-0.3	0.84	+/-0.28				
Bismuth-214	pCi/g	2.5	100%	38	38	1.7	+/-0.5	0.69	+/-0.11	0.88	+/-0.27	1.5	+/-0.4	1.9	+/-0.4
Cesium-137	pCi/g	1.1	69%	25	36	0.1 U						0.2 UJ		0.6 J	+/-0.2
Cobalt-57	pCi/g	0.3	25%	9	36	0.1 U						0.3 J	+/-0.2	0.1	+/-0.1
Cobalt-60	pCi/g	0.7	81%	29	36	0.2 J	+/-0.1					0.3 J	+/-0.1	0.3 J	+/-0.1
Gross Alpha	pCi/g	8	100%	2	2			8	+/-4	6	+/-4				
Gross Beta	pCi/g	24	100%	2	2			21	+/-5	24	+/-6				
Lead-210	pCi/g	57.8	67%	24	36	3.6 J	+/-2.4					2.3	+/-1.4	56.9 J	+/-48.3
Lead-211	pCi/g	18.6	58%	21	36	1.8 UJ						9.9	+/-5	4.5 J	+/-3.3
Lead-214	pCi/g	2.5	89%	34	38	1.6	+/-0.4	0.78	+/-0.1	0.84	+/-0.14	1.9	+/-0.4	1.4	+/-0.3
Plutonium-239/240	pCi/g	0	0%	0	36	0.1 U	+/-0.1					0.2 UJ	+/-0.2	0.1 U	+/-0.1
Promethium-147	pCi/g	16.5	33%	1	3	4.7 UJ	+/-5.1								
Radium-223	pCi/g	1.6	8%	3	36	0.5 U						0.6 U		0.5 UJ	
Radium-226	pCi/g	2.3	92%	33	36	1.7	+/-0.5					1.5	+/-0.4	1.9	+/-0.4
Radium-228	pCi/g	3.5	100%	36	36	2.4 J	+/-0.5					1.5	+/-0.4	2.8	+/-0.7
Thallium-208	pCi/g	0.41	100%	2	2			0.39	+/-0.23	0.41	+/-0.22				
Thorium-230	pCi/g	2.3	58%	21	36	1.3	+/-0.5					1.5	+/-0.6	1.2	+/-0.4
Thorium-232	pCi/g	1.9	78%	28	36	1.1	+/-0.4					1.5	+/-0.6	1.1	+/-0.4
Thorium-234	pCi/g	0.38	100%	2	2			0.38	+/-0.39	0.3	+/-0.22				
Tritium	pCi/g	0.7	6%	2	36	0.1 UJ	+/-0.1					0.1 UJ	+/-0.1	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.6	69%	25	36	0.8	+/-0.3					1.2 UJ	+/-0.4	1.1 UJ	+/-0.5
Uranium-235	pCi/g	0.4	53%	19	36	0.1	+/-0.1					0.1 UJ	+/-0.1	0.2 J	+/-0.2
Uranium-238	pCi/g	1.4	97%	35	36	0.9	+/-0.3					1.1 J	+/-0.4	0.8 J	+/-0.4

TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY LOCATION ID MATRIX			SEAD-12 TP12-10B SOIL		SEAD-12 TP12-10C SOIL		SEAD-12 TP12-13A SOIL		SEAD-12 TP12-13B SOIL		SEAD-12 TP12-13C SOIL		
SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	123056	2	123057	5.5	0.8	123052	0.8	123053	5.5	1.5	
SAMPLE DATE	QC CODE	STUDY ID	04-Oct-98	SA	04-Oct-98	SA	03-Oct-98	SA	03-Oct-98	SA	03-Oct-98	SA	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1	RI Phase 1	Step 1
Actinium-228	pCi/g	0.84	100%	2	2								
Bismuth-214	pCi/g	2.5	100%	38	38	1.4	+/-0.5	1.8	+/-0.5	1.5 J	+/-0.5	1.9 J	+/-0.5
Cesium-137	pCi/g	1.1	69%	25	36	0.7 J	+/-0.3	0.6 J	+/-0.2	0.1 J	+/-0.1	0.4	+/-0.2
Cobalt-57	pCi/g	0.3	25%	9	36	0.1 U		0.1 U		0.1 U		0.1	+/-0.1
Cobalt-60	pCi/g	0.7	81%	29	36	0.2 J	+/-0.1	0.4 J	+/-0.2	0.2	+/-0.1	0.1 U	
Gross Alpha	pCi/g	8	100%	2	2								
Gross Beta	pCi/g	24	100%	2	2								
Lead-210	pCi/g	57.8	67%	24	36	1.9 UJ		57.8 J	+/-39.2	27.4 UJ		1.6 UJ	
Lead-211	pCi/g	18.6	58%	21	36	12.4 J	+/-7.2	2.2 UJ		0.7 UJ		3.1 J	+/-1.9
Lead-214	pCi/g	2.5	89%	34	38	1.9	+/-0.5	1.6	+/-0.5	1.4	+/-0.3	1.4	+/-0.5
Plutonium-239/240	pCi/g	0	0%	0	0	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	16.5	33%	1	3								
Radium-223	pCi/g	1.6	8%	3	36	0.6 UJ		0.5 UJ		0.3 U		0.5 U	
Radium-226	pCi/g	2.3	92%	33	36	1.4	+/-0.5	1.8	+/-0.5	1.5 J	+/-0.5	1.9 J	+/-0.5
Radium-228	pCi/g	3.5	100%	36	36	2.5	+/-0.5	2.2	+/-0.6	1.3	+/-0.4	2.4	+/-0.6
Thallium-208	pCi/g	0.41	100%	2	2								
Thorium-230	pCi/g	2.3	58%	21	36	1	+/-0.4	1.3	+/-0.5	0.8 U	+/-0.7	1.1 U	+/-0.6
Thorium-232	pCi/g	1.9	78%	28	36	1.2	+/-0.4	1.2	+/-0.4	0.9	+/-0.7	0.9	+/-0.5
Thorium-234	pCi/g	0.38	100%	2	2								
Tritium	pCi/g	0.7	6%	2	36	0.5 J	+/-0.1	0.1 UJ	+/-0.1	0.1 ND	+/-180	0.1 ND	+/-175
Uranium-234	pCi/g	1.6	69%	25	36	1.6	+/-0.5	1 U	+/-0.4	0.4 U	+/-0.4	0.7	+/-0.5
Uranium-235	pCi/g	0.4	53%	19	36	0.1	+/-0.1	0.2	+/-0.2	0.4	+/-0.4	0.2	+/-0.2
Uranium-238	pCi/g	1.4	97%	35	36	0.9 J	+/-0.3	0.9 J	+/-0.4	0.3 UJ	+/-0.1	0.3 J	+/-0.3

TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY			SEAD-12			SEAD-12			SEAD-12			SEAD-12			
LOCATION ID			TP12-14A			TP12-14B			TP12-14C			TP12-22AA			
MATRIX			SOIL			SOIL			SOIL			SOIL			
SAMPLE ID			123004			123005			123006			123058			
DEPTH TO TOP OF SAMPLE			0.5			1.5			2			0.5			
DEPTH TO BOTTOM OF SAMPLE			0.5			1.5			2			0.5			
SAMPLE DATE			30-Sep-98			30-Sep-98			30-Sep-98			04-Oct-98			
QC CODE			SA			SA			SA			SA			
STUDY ID			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Actinium-228	pCi/g	0.84	100%	2	2										
Bismuth-214	pCi/g	2.5	100%	38	38	2	+/-0.6	2.2	+/-0.4	1.7	+/-0.6	2.1	+/-0.6	1.9	+/-0.4
Cesium-137	pCi/g	1.1	69%	25	36	0.1 J	+/-0.1	0.4 J	+/-0.1	0.3 J	+/-0.2	0.5 J	+/-0.3	0.2 J	+/-0.1
Cobalt-57	pCi/g	0.3	25%	9	36	0.1 U		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.7	81%	29	36	0.3	+/-0.1	0.4	+/-0.2	0.3	+/-0.1	0.4 J	+/-0.1	0.2 J	+/-0.1
Gross Alpha	pCi/g	8	100%	2	2										
Gross Beta	pCi/g	24	100%	2	2										
Lead-210	pCi/g	57.8	67%	24	36	3.4	+/-1.9	33.5 U		1.9	+/-1.7	5.5 J	+/-2.8	33.8 UJ	
Lead-211	pCi/g	18.6	58%	21	36	3.4 U		13.6	+/-5.8	3.1	+/-2.7	10.4 J	+/-4.5	8.2 J	+/-2.9
Lead-214	pCi/g	2.5	89%	34	38	2.2	+/-0.5	2	+/-0.5	1.7	+/-0.4	1.8	+/-0.4	1.6	+/-0.3
Plutonium-239/240	pCi/g	0	0%	0	36	0.3 UJ	+/-0.2	0.3 UJ	+/-0.4	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1
Promethium-147	pCi/g	16.5	33%	1	3										
Radium-223	pCi/g	1.6	8%	3	36	0.8 J	+/-0.5	0.5 UJ		0.6 UJ		0.5 UJ		0.5 UJ	
Radium-226	pCi/g	2.3	92%	33	36	2	+/-0.6	2.2	+/-0.4	1.7	+/-0.6	2.1	+/-0.6	1.9	+/-0.4
Radium-228	pCi/g	3.5	100%	36	36	2.5	+/-0.8	1.9	+/-0.6	1.8	+/-0.5	1.7	+/-0.5	1.6	+/-0.6
Thallium-208	pCi/g	0.41	100%	2	2										
Thorium-230	pCi/g	2.3	58%	21	36	2.1 UJ	+/-0.8	1.6 U	+/-0.5	1.3 U	+/-0.5	1.1 J	+/-0.5	1.1	+/-0.4
Thorium-232	pCi/g	1.9	78%	28	36	2 UJ	+/-0.7	1.2 U	+/-0.4	1.4 U	+/-0.5	1.3 J	+/-0.5	0.7	+/-0.3
Thorium-234	pCi/g	0.38	100%	2	2										
Tritium	pCi/g	0.7	6%	2	36	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.6	69%	25	36	0.8 J	+/-0.2	0.6 J	+/-0.2	0.7	+/-0.3	1.6 J	+/-0.7	0.8 UJ	+/-0.4
Uranium-235	pCi/g	0.4	53%	19	36	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.3 J	+/-0.3	0.2 J	+/-0.2
Uranium-238	pCi/g	1.4	97%	35	36	0.9 J	+/-0.3	0.7 J	+/-0.2	0.8	+/-0.3	1.2 J	+/-0.5	0.9 J	+/-0.4

TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY		SEAD-12													
LOCATION ID		TP12-22BB		TP12-9A		TP12-9B		TP12-9C		MW12-27					
MATRIX		SOIL		SOIL		SOIL		SOIL		SOIL					
SAMPLE ID		123060		123124		123125		123126		123062					
DEPTH TO TOP OF SAMPLE		1.5		0.5		1		2.5		2					
DEPTH TO BOTTOM OF SAMPLE		1.5		0.5		1		2.5		4					
SAMPLE DATE		04-Oct-98		15-Oct-98		15-Oct-98		15-Oct-98		10/4/1998					
QC CODE		SA		SA		SA		SA		SA					
STUDY ID		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1					
PARAMETER	UNIT	MAXIMUM	DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES										
Actinium-228	pCi/g	0.84	100%	2	2										
Bismuth-214	pCi/g	2.5	100%	38	38	1.6	+/-0.6	1.9	+/-0.6	1.6	+/-0.5	1.4	+/-0.4	1.7	+/-0.3
Cesium-137	pCi/g	1.1	69%	25	36	0.1 UJ		1.1	+/-0.2	0.1 UJ		0.4 J	+/-0.1	0.4 J	+/-0.1
Cobalt-57	pCi/g	0.3	25%	9	36	0.1 U		0.1 U		0.1	+/-0.1	0.1 U		0.1 UJ	
Cobalt-60	pCi/g	0.7	81%	29	36	0.2 J	+/-0.1	0.4 J	+/-0.1	0.2	+/-0.1	0.5	+/-0.2	0.2 J	+/-0.1
Gross Alpha	pCi/g	8	100%	2	2										
Gross Beta	pCi/g	24	100%	2	2										
Lead-210	pCi/g	57.8	67%	24	36	3.2 J	+/-1.5	6.1 J	+/-3.9	1.9 J	+/-1.3	23.4 UJ		17.5 U	
Lead-211	pCi/g	18.6	58%	21	36	18.6 J	+/-7.2	2.6 UJ		1.6 UJ		0.9 UJ		0.7 U	
Lead-214	pCi/g	2.5	89%	34	38	1.8	+/-0.4	1.6	+/-0.5	1.7 J	+/-0.4	1.1 J	+/-0.3	2	+/-0.5
Plutonium-239/240	pCi/g	0	0%	0	36	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.2
Promethium-147	pCi/g	16.5	33%	1	3			16.5 J	+/-5.4						
Radium-223	pCi/g	1.6	8%	3	36	0.5 UJ		0.6 U		0.8 J	+/-0.5	0.5 UJ		0.4 U	
Radium-226	pCi/g	2.3	92%	33	36	1.6	+/-0.6	1.9	+/-0.6	1.6	+/-0.5	1.4	+/-0.4	1.7	+/-0.3
Radium-228	pCi/g	3.5	100%	36	36	2.2	+/-0.5	2 J	+/-0.5	2.6	+/-0.8	2.2	+/-0.6	1.9	+/-0.6
Thallium-208	pCi/g	0.41	100%	2	2										
Thorium-230	pCi/g	2.3	58%	21	36	1.4	+/-0.5	0.7 U	+/-0.3	1.1 U	+/-0.4	1.5 J	+/-0.5	1.5	+/-0.5
Thorium-232	pCi/g	1.9	78%	28	36	0.8	+/-0.4	0.7	+/-0.3	0.7	+/-0.3	1.3 J	+/-0.5	1.2	+/-0.4
Thorium-234	pCi/g	0.38	100%	2	2										
Tritium	pCi/g	0.7	6%	2	36	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.2 U	+/-0.1	0.1 U	+/-0.1	0.1 UJ	+/-0.1
Uranium-234	pCi/g	1.6	69%	25	36	1.1 UJ	+/-0.5	0.6 U	+/-0.3	0.8	+/-0.3	1	+/-0.3	0.9 J	+/-0.3
Uranium-235	pCi/g	0.4	53%	19	36	0.3 J	+/-0.2	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.2 U	+/-0.1
Uranium-238	pCi/g	1.4	97%	35	36	1.1 J	+/-0.5	0.5	+/-0.2	1.1	+/-0.3	1	+/-0.3	0.7	+/-0.3

TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12				SEAD-12				SEAD-12		SEAD-12		SEAD-12				
LOCATION ID						MW12-27				TP12-21A				TP12-21C				MW12-31				
MATRIX						SOIL				SOIL				SOIL				SOIL				
SAMPLE ID						123063				123001				123002				123174				
DEPTH TO TOP OF SAMPLE						4				0.7				3				5.5				
DEPTH TO BOTTOM OF SAMPLE						6				0.7				3				5.5				
SAMPLE DATE						10/4/1998				9/29/1998				9/29/1998				26-Oct-98				
QC CODE						SA				SA				SA				SA				
STUDY ID				FREQUENCY		NUMBER		NUMBER		RI Phase 1		Step 1		RI Phase 1		Step 1		RI Phase 1				
		OF		OF		OF		N				N				N		N				
PARAMETER		UNIT		MAXIMUM		DETECTION		DETECTS		ANALYSES		N				N		N				
Actinium-228	pCi/g	0.84	100%	2	38	2	38	2.1		+/-0.6	1.2		+/-0.3	1.6		+/-0.4	2.1		+/-0.4	2.2		+/-0.5
Bismuth-214	pCi/g	2.5	100%	38	36	38	36	0.3	J	+/-0.1	0.3	J	+/-0.1	0.5	J	+/-0.1	0.6	J	+/-0.2	0.1	UJ	
Cesium-137	pCi/g	1.1	69%	25	36	36	36	0.3	J	+/-0.2	0.1		+/-0.1	0.1	U		0.1		0.1	UJ		
Cobalt-57	pCi/g	0.3	25%	9	36	36	36	0.2	J	+/-0.1	0.4		+/-0.2	0.4		+/-0.1	0.4		+/-0.2	0.1	UJ	+/-0.1
Cobalt-60	pCi/g	0.7	81%	29	36	36	36															
Gross Alpha	pCi/g	8	100%	2	2	2	2															
Gross Beta	pCi/g	24	100%	2	2	2	2															
Lead-210	pCi/g	57.8	67%	24	36	36	36	4.4		+/-2.4	23.2	U		1.9	U		37.2	U		3.6	J	+/-2.2
Lead-211	pCi/g	18.6	58%	21	36	36	36	6.5		+/-4.3	11		+/-5	12.5		+/-4	3.7		+/-2.1	14.5	J	+/-7.8
Lead-214	pCi/g	2.5	89%	34	36	36	36	2.5		+/-0.4	1.3		+/-0.3	1.9		+/-0.4	1.8		+/-0.4	2.1		+/-0.4
Plutonium-239/240	pCi/g	0	0%	0	36	36	36	0.4	UJ	+/-0.1	0.2	UJ	+/-0.2	0.2	UJ	+/-0.2	0.2	U	+/-0.1	0.1	U	+/-0.1
Promethium-147	pCi/g	16.5	33%	1	3	3	3															
Radium-223	pCi/g	1.6	8%	3	36	36	36	0.5	U		0.5	UJ		0.4	UJ		0.5	UJ		0.5	U	
Radium-226	pCi/g	2.3	92%	33	36	36	36	2.1		+/-0.6	1.2		+/-0.3	1.6		+/-0.4	2.1		+/-0.4	2.2	U	+/-0.5
Radium-228	pCi/g	3.5	100%	36	36	36	36	1.6		+/-0.5	2.3		+/-0.4	2.8		+/-0.9	3.2		+/-0.8	1.9		+/-0.5
Thallium-208	pCi/g	0.41	100%	2	2	2	2															
Thorium-230	pCi/g	2.3	58%	21	36	36	36	1.3		+/-0.5	1.3	UJ	+/-0.5	1.6	UJ	+/-0.7	1.4	UJ	+/-0.6	1	UJ	+/-0.5
Thorium-232	pCi/g	1.9	78%	28	36	36	36	1.6		+/-0.6	1.6	UJ	+/-0.6	1.1	UJ	+/-0.5	1.2	UJ	+/-0.5	1.6	J	+/-0.7
Thorium-234	pCi/g	0.38	100%	2	2	2	2															
Tritium	pCi/g	0.7	6%	2	36	36	36	0.1	UJ	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-234	pCi/g	1.6	69%	25	36	36	36	0.6	J	+/-0.3	0.9		+/-0.3	0.9		+/-0.3	0.9		+/-0.3	0.8	UJ	+/-0.3
Uranium-235	pCi/g	0.4	53%	19	36	36	36	0.1	U	+/-0.1	0.1	U	+/-0.1	0.1		+/-0.1	0.1	U	+/-0.1	0.1	U	+/-0.1
Uranium-238	pCi/g	1.4	97%	35	36	36	36	1.1		+/-0.4	1		+/-0.3	1.4		+/-0.4	0.8		+/-0.3	1.1		+/-0.3



TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY						SEAD-12		SEAD-12		SEAD-12		SEAD-12		SEAD-12	
LOCATION ID						MW12-32		TP12-24A		TP12-24B		TP12-24C		TP12-20A	
MATRIX						SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE ID						123177		123093		123094		123095		123000	
DEPTH TO TOP OF SAMPLE						2		0.5		0.5		1		0.5	
DEPTH TO BOTTOM OF SAMPLE						3		0.5		0.5		1		0.5	
SAMPLE DATE						26-Oct-98		13-Oct-98		13-Oct-98		13-Oct-98		30-Sep-98	
QC CODE						SA		SA		SA		SA		DU	
STUDY ID						RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1		RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N		N		N		N		N	
Actinium-228	pCi/g	0.84	100%	2	2										
Bismuth-214	pCi/g	2.5	100%	38	38	2.5	+/-0.8	1.4 J	+/-0.4	2.1 J	+/-0.4	1.1 J	+/-0.3	1.2	+/-0.4
Cesium-137	pCi/g	1.1	69%	25	36	0.1 UJ		0.1 UJ		0.4 J	+/-0.3	0.3 J	+/-0.3	1 J	+/-0.4
Cobalt-57	pCi/g	0.3	25%	9	36	0.1 UJ		0.1 U		0.1 U		0.1 U		0.1 U	
Cobalt-60	pCi/g	0.7	81%	29	36	0.7	+/-0.4	0.6 J	+/-0.2	0.2 J	+/-0.2	0.3 J	+/-0.1	0.6 J	+/-0.2
Gross Alpha	pCi/g	8	100%	2	2										
Gross Beta	pCi/g	24	100%	2	2										
Lead-210	pCi/g	57.8	67%	24	36	3.6 J	+/-2.2	5.6 J	+/-2.9	4.3 J	+/-2.8	4.9 J	+/-3.6	3.7 J	+/-2.8
Lead-211	pCi/g	18.6	58%	21	36	5.8 J	+/-3.7	1.7 UJ		1.4 UJ		1.7 J	+/-9	1.9 U	
Lead-214	pCi/g	2.5	89%	34	38	1.8	+/-0.5	1.5	+/-0.4	1.2	+/-0.4	1.3	+/-0.4	1.3	+/-0.4
Plutonium-239/240	pCi/g	0	0%	0	36	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2 UJ	+/-0.2
Promethium-147	pCi/g	16.5	33%	1	3										
Radium-223	pCi/g	1.6	8%	3	36	0.5 U		0.4 U		0.5 U		0.5 U		0.6 UJ	
Radium-226	pCi/g	2.3	92%	33	36	2.5 U	+/-0.8	1.4 J	+/-0.4	2.1 J	+/-0.4	1.1 J	+/-0.3	1.2	+/-0.4
Radium-228	pCi/g	3.5	100%	36	36	2.3	+/-0.6	2.8	+/-0.6	2.8	+/-0.7	3.5	+/-0.6	2.6	+/-0.6
Thallium-208	pCi/g	0.41	100%	2	2										
Thorium-230	pCi/g	2.3	58%	21	36	2 UJ	+/-1	1.2	+/-0.4	1.3	+/-0.5	1.9	+/-0.7	1.7 UJ	+/-0.8
Thorium-232	pCi/g	1.9	78%	28	36	1.6 J	+/-0.8	0.8 J	+/-0.3	0.9 J	+/-0.4	1.9 J	+/-0.7	0.5 UJ	+/-0.4
Thorium-234	pCi/g	0.38	100%	2	2										
Tritium	pCi/g	0.7	6%	2	36	0.1 U	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.1 UJ	+/-0.1	0.7	+/-0.1
Uranium-234	pCi/g	1.6	69%	25	36	0.7 UJ	+/-0.3	1.2 J	+/-0.3	1 J	+/-0.3	1.2 J	+/-0.3	0.7 J	+/-0.2
Uranium-235	pCi/g	0.4	53%	19	36	0.1	+/-0.1	0.1	+/-0.1	0.1 U	+/-0.1	0.1	+/-0.1	0.1 UJ	+/-0.1
Uranium-238	pCi/g	1.4	97%	35	36	1	+/-0.3	1 J	+/-0.3	1 J	+/-0.3	1.1 J	+/-0.3	0.8	+/-0.2

TABLE G-35  
 CLASS III RADIOLOGICAL DATA-SUBSURFACE SOIL  
 SEAD-12 REMEDIAL INVESTIGATION  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY			SEAD-12			SEAD-12			SEAD-12			
LOCATION ID			TP12-20A			TP12-20B			TP12-20C			
MATRIX			SOIL			SOIL			SOIL			
SAMPLE ID			123019			123020			123021			
DEPTH TO TOP OF SAMPLE			0.5			2.5			6			
DEPTH TO BOTTOM OF SAMPLE			0.5			2.5			6			
SAMPLE DATE			30-Sep-98			30-Sep-98			30-Sep-98			
QC CODE			SA			SA			SA			
STUDY ID			RI Phase 1 Step 1			RI Phase 1 Step 1			RI Phase 1 Step 1			
PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	N			N		N	
Actinium-228	pCi/g	0.84	100%	2	2							
Bismuth-214	pCi/g	2.5	100%	38	38	1.3	+/-0.4		1.6	+/-0.3	1.8	+/-0.4
Cesium-137	pCi/g	1.1	69%	25	36	0.7 J	+/-0.2		0.3 J	+/-0.1	0.2 J	+/-0.1
Cobalt-57	pCi/g	0.3	25%	9	36	0.1 U			0.1 U		0.1	+/-0.1
Cobalt-60	pCi/g	0.7	81%	29	36	0.1 UJ			0.4	+/-0.2	0.4	+/-0.1
Gross Alpha	pCi/g	8	100%	2	2							
Gross Beta	pCi/g	24	100%	2	2							
Lead-210	pCi/g	57.8	67%	24	36	44.6 J	+/-40.3		29.1 UJ		6.9 J	+/-3.9
Lead-211	pCi/g	18.6	58%	21	36	1.1 U			3.3 J	+/-3.2	9.1 J	+/-3.9
Lead-214	pCi/g	2.5	89%	34	38	1.3	+/-0.4		1.7	+/-0.4	1.9	+/-0.4
Plutonium-239/240	pCi/g	0	0%	0	36	0.1 U	+/-0.1		0.3 UJ	+/-0.1	0.3 UJ	+/-0.1
Promethium-147	pCi/g	16.5	33%	1	3							
Radium-223	pCi/g	1.6	8%	3	36	1.6 J	+/-0.7		0.5 U		0.5 U	
Radium-226	pCi/g	2.3	92%	33	36	1.3	+/-0.4		1.6	+/-0.3	1.8	+/-0.4
Radium-228	pCi/g	3.5	100%	36	36	2.7	+/-0.6		2.5	+/-0.5	2.2	+/-0.5
Thallium-208	pCi/g	0.41	100%	2	2							
Thorium-230	pCi/g	2.3	58%	21	36	1.1 UJ	+/-0.5		1.8	+/-0.6	1	+/-0.4
Thorium-232	pCi/g	1.9	78%	28	36	0.8 UJ	+/-0.4		1.4	+/-0.5	0.9	+/-0.4
Thorium-234	pCi/g	0.38	100%	2	2							
Tritium	pCi/g	0.7	6%	2	36	0.1 U	+/-0.1		0.1 U	+/-0.1	0.1 U	+/-0.1
Uranium-234	pCi/g	1.6	69%	25	36	0.6 UJ	+/-0.2		0.9	+/-0.3	1	+/-0.3
Uranium-235	pCi/g	0.4	53%	19	36	0.1 J	+/-0.1		0.1	+/-0.1	0.1 U	+/-0.1
Uranium-238	pCi/g	1.4	97%	35	36	0.7	+/-0.3		0.9	+/-0.3	0.5	+/-0.2





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TABLE G-36  
WASTE WATER TREATMENT PLANT OUTFALL RADIOLOGICAL DATA-SURFACE SOIL  
SEAD-12 REMEDIAL INVESTIGATION  
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	STUDY ID	FREQUENCY OF DETECTION	NUMBER OF DETECTS	NUMBER OF ANALYSES	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1	
PARAMETER	UNIT	MAXIMUM	DETECTION	DETECTS	ANALYSES	N										
												SEAD-12 SS12-64 SOIL	SEAD-12 SS12-64 SOIL	SEAD-12 SS12-65 SOIL		
												123170	123171	123107		
												0	0	0		
												0.5	0.5	0.2		
												20-Oct-98	20-Oct-98	07-Jan-99		
												SA	DU	SA		
												RI Phase 1 Step 1	RI Phase 1 Step 1	RI Phase 1 Step 1		
												N	N	N		
Bismuth-214	pCi/g	1.9	100%	3	3	3	1.7	+/-0.5	1.5	+/-0.5	1.9	J	+/-0.5	1.9	J	+/-0.5
Cesium-137	pCi/g	0.5	67%	2	3	3	0.5 J	+/-0.2	0.5 J	+/-0.3	0.1	UJ	+/-0.3	0.1	UJ	
Cobalt-57	pCi/g	0.2	67%	2	3	3	0.2 J	+/-0.1	0.1 J	+/-0.1	0.1	UJ	+/-0.1	0.1	UJ	
Cobalt-60	pCi/g	0.3	67%	2	3	3	0.3	+/-0.1	0.3	+/-0.1	0.1	UJ	+/-0.1	0.1	UJ	
Lead-210	pCi/g	4.4	100%	3	3	3	4.3 J	+/-1.8	4.2 J	+/-2.1	4.4	J	+/-2.1	4.4	J	+/-2.5
Lead-211	pCi/g	14.3	33%	1	3	3	2.5 UJ		14.3 J	+/-7.3	3.2	UJ	+/-7.3	3.2	UJ	
Lead-214	pCi/g	2.2	100%	3	3	3	1.3	+/-0.5	2.2	+/-0.3	1.3	J	+/-0.3	1.3	J	+/-0.4
Plutonium-239/240	pCi/g	0	0%	0	3	3	0.1 U	+/-0.1	0.1 U	+/-0.1	0.2	UJ	+/-0.1	0.2	UJ	+/-0.1
Radium-223	pCi/g	0	0%	0	3	3	0.6 U		0.6 U		0.6	UJ		0.6	UJ	
Radium-226	pCi/g	1.9	100%	3	3	3	1.7	+/-0.5	1.5	+/-0.5	1.9	J	+/-0.5	1.9	J	+/-0.5
Radium-228	pCi/g	2.2	100%	3	3	3	1.7	+/-0.5	2.2	+/-0.5	2	J	+/-0.5	2	J	+/-0.6
Thorium-230	pCi/g	1.4	100%	3	3	3	0.9 J	+/-0.4	1.4 J	+/-0.6	0.9	J	+/-0.6	0.9	J	+/-0.4
Thorium-232	pCi/g	1.6	100%	3	3	3	0.8 J	+/-0.4	1.6 J	+/-0.7	1	J	+/-0.7	1	J	+/-0.4
Tritium	pCi/g	82	100%	3	3	3	82	+/-0.6	1.4	+/-0.2	4.3	J	+/-0.2	4.3	J	+/-0.2
Uranium-234	pCi/g	1.1	100%	3	3	3	0.8 J	+/-0.3	0.8 J	+/-0.3	1.1	J	+/-0.3	1.1	J	+/-0.3
Uranium-235	pCi/g	0.1	33%	1	3	3	0.1 U	+/-0.1	0.1 U	+/-0.1	0.1	J	+/-0.1	0.1	J	+/-0.1
Uranium-238	pCi/g	1.1	100%	3	3	3	0.8	+/-0.3	1	+/-0.3	1.1	J	+/-0.3	1.1	J	+/-0.3

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Population	100	105	110	115	120	125	130	135	140	145	150
Area	100	100	100	100	100	100	100	100	100	100	100
Population Density	1.0	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5

1950-1960  
 Population Density



