

May 30, 2007

Mr. John Hill
U. S. Air Force Center for Environmental Excellence
HQ AFCEE/IWP
3300 Sidney Brooks
Brooks City-Base, TD 78235-5112

SUBJECT: Draft Completion Report for Munitions Response and CERCLA Closure at Seneca Army Depot, NY; Contract FA8903-04-D-8675, Delivery Order 0026, CDRL A001A

Dear Mr. Hill:

Parsons is pleased to submit the Draft Completion Report for Munitions Response and CERCLA Closure at Seneca Army Depot Activity (SEDA) in Romulus, New York.

This work was performed in accordance with the Scope of Work (SOW) for Contract No. FA8903-04-D-8675, Task Order No. 0026.

Parsons appreciates the opportunity to provide you with the Proposed Plan for this work. Should you have any questions, please do not hesitate to call me at (617) 449-1405 to discuss them.

Sincerely,



Todd Heino, P.E.
Project Manager

Enclosures

cc: S. Absolom, SEDA (3 paper copies, 1 electronic copy)
K. Hoddinott, USACHPPM (2 paper copies, 1 electronic copy)
C. Boes, USAEC (1 copy, electronic and paper)
R. Battaglia, USACE, NY District (1 copy, electronic and paper)
T. Battaglia, USACE, NY District (1 copy, electronic and paper)
Air Force email (letter only)

May 30, 2007

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Bureau of Environmental Exposure Investigation, Room 300
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Troy, New York 12180

SUBJECT: Draft Completion Report for Munitions Response and CERCLA Closure at the Seneca Army Depot Activity; EPA Site ID# NY0213820830 and NY Site ID# 8-50-006

Dear Mr. Vazquez/Mr. Gupta/Mr. Sergott:

Parsons is pleased to submit the Draft Completion Report for Munitions Response and CERCLA Closure at the Seneca Army Depot Activity in (SEDA) in Romulus, New York (EPA Site ID# NY0213820830 and NY Site ID# 8-50-006). This report discusses munitions removal actions and CERCLA investigations conducted at SEAD 46 (3.5 inch Rocket Range), SEAD 57 (former Explosive Ordnance Disposal [EOD] Range), SEAD 002-R-01 (EOD Areas 2 and 3), and SEAD 007-R-01 (Grenade Range).

An electronic copy of the complete Completion Report is enclosed with this submittal.

Should you have any questions, please do not hesitate to call me at (617) 449-1405 to discuss them.

Sincerely,



Todd Heino, P.E.
Program Manager

Enclosures

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S. Absolom, SEDA
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US Army Corps of Engineers



**Air Force Center for
Environmental Excellence**



**Seneca Army Depot Activity
Romulus, New York**



DRAFT

COMPLETION REPORT

MUNITIONS RESPONSE AND CERCLA CLOSURE

SEAD 46 (3.5-inch Rocket Range), SEAD 57 (former Explosive Ordnance Disposal [EOD] Range), SEAD 002-R-01 (EOD Areas 2 and 3), and SEAD 07-R-01 (Grenade Range)

SENECA ARMY DEPOT ACTIVITY

AFCEE CONTRACT NO. FA8903-04-D-8675

TASK ORDER NO. 0026

CDRL A001A

EPA SITE ID# NY0213820830

NY SITE ID# 8-50-006

PARSONS

MAY 2007

TABLES OF CONTENTS

Section, Title or Description	Page
Table of Contents	i
List of Tables.....	iv
List of Figures	v
List of Appendices.....	vi
Acronyms and Abbreviations	vii
Consolidated Definitions.....	ix
1.0 INTRODUCTION.....	1-1
1.1 BACKGROUND.....	1-1
1.2 AOC DESCRIPTIONS	1-2
1.2.1 Former 3.5-inch Rocket Range (SEAD 46)	1-2
1.2.2. Former Explosive Ordnance (EOD) Range (SEAD 57).....	1-2
1.2.3 Grenade Range (SEAD 007-R-01).....	1-2
1.2.4 EOD Areas 2 and 3 (SEAD –2-R-01)	1-2
2.0 REVIEW OF PRIOR WORK	2-1
2.1 PRIOR MUNITIONS RESPONSE WORK.....	2-1
2.1.1 Former 3.5-inch Rocket Range	2-1
2.1.2 Former EOD Range (SEAD 57).....	2-1
2.1.3 Grenade Range (SEAD 007-R-01).....	2-2
2.1.4 EOD Areas 2 and 3 (SEAD-002-R-01).....	2-2
2.2 PRIOR ENVIRONMENTAL INVESTIGATIONS.....	2-2
3.0 SITEWORK	3-1
3.1 MOBILIZATION.....	3-1
3.2 SITE PREPERATION	3-1
3.3 SOIL EXCAVATION.....	3-1
3.3.1 SEAD 46 SRA.....	3-2
3.3.2 SEAD 46 Berm.....	3-2
3.3.3 SEAD 57 SRA.....	3-2

TABLES OF CONTENTS

(continued)

3.3.4 SEAD 57 Berm..... 3-3

3.4 SOIL SCREENING AND PROCESSING..... 3-3

3.4.1 Excavated Soil Inspection 3-3

3.5 GEOPHYSICAL MAPPING 3-3

3.6 GEOPHYSICAL PROVE-OUT..... 3-4

3.7 ANOMALY INVESTIGATION..... 3-5

3.8 GEOPHYSICAL QUALITY CONTROL / QUALITY ASSURACNE 3-6

4.0 ENVIRONMENTAL MEDIA INVESTIGATIONS 4-1

4.1 SOIL SAMPLE METHODOLOGY 4-1

4.1.1 3.5” Rocket Range (SEAD 46)..... 4-1

4.1.2 Former EOD Range (SEAD 57)..... 4-2

4.1.3 Grenade Range (SEAD 007-R-01)..... 4-3

4.1.4 EOD Areas 2 and 3 (SEAD 002-R-01) 4-3

5.0 ORDNANCE AND EXPLOSIVES DEMILITARIZATION AND DISPOSAL 5-1

5.1 INTENTIONAL DETONATIONS 5-1

5.2 OTHER DEMILITARIZATIONS PROCEDURES 5-1

5.3 DEMOBILIZATION..... 5-1

6.0 SOIL INVESTIGATIONS 6-1

6.1 GRENADE RANGE (SEAD 007-R-01)..... 6-2

6.2 SEAD 002-R-01, EOD AREA 2 and 3 6-4

6.2.1 EOD Area 2..... 6-4

6.2.2 EOD Area 3..... 6-5

6.3 SEAD 57 BERM PIT EXCAVATION 6-6

6.4 SEAD 46 and 57 LAY DOWN AREA SAMPLES 6-7

6.5 SEAD-46 REMEDIAL INVESTIGATION RESULTS 6-7

6.6 SEAD 57 EXPANDED SITE INSPECTION (1993) and REMEDIAL INVESTIGATION (1999/2000) RESULTS 6-9

TABLES OF CONTENTS

(continued)

7.0 CONCLUSION 7-1

7.1 SEAD 007-R-01 (Grenade Range)..... 7-1

7.2 SEAD 002-R-01, EOD Areas 2 and 3 7-1

7.2.1 EOD Area 2 7-1

7.2.2 EOD Area 3 7-2

7.3 SEAD 46 (Former 3.5-inch Rocket Range) 7-2

7.4 SEAD 57 (Former EOD Range)..... 7-2

LIST OF TABLES

Table Number	Title
3-1	Summary of Intrusive Investigations
3-2	MPPEH Items Encountered During Intrusive Investigations
3-3	Geophysical Quality Assurance Seed Item Results Evaluation
6-1	Analytes in Soil Samples, Munitions Response
6-2	Analytes in Soil Samples, Remedial Investigations
6-3	Grenade Range Soil Sample Results
6-4	EOD Area 2 Soil Sample Summary Results
6-5	EOD Area 3 Soil Sample Summary Results
6-6	SEAD 57 Berm Pit Excavation Soil Sample Summary Results
6-7	SEAD 46 and SEAD 57 Stockpile Soil Sample Summary Results
6-8	SEAD 46 Soil Sample Summary Results
6-9	SEAD 57 Soil Sample Summary Results

LIST OF FIGURES

Figure Number	Title
1-1	Site Location
1-2	Site Map
1-3	SEAD 46 Site Plan
1-4	SEAD 57 Site Plan
1-5	Grenade Range Site Plan
1-6	EOD Area 2 Site Plan
1-7	EOD Area 3 Site Plan
3-1	SEAD 46 Munitions Removal Summary
3-2	SEAD 57 Munitions Removal Summary
3-3	Grenade Range Munitions Removal Summary
3-4	EOD Area 2 Munitions Removal Summary
3-5	EOD Area 3 Munitions Removal Summary
3-6	Local Training Areas B-L Munitions Removal Summary
3-7	QA Seed Item Placement Grenade Range
3-8	QA Seed Item Detection SEAD 57
6-1	Soil Sample Locations Grenade Range SEAD 007-R-01
6-2	Soil Sample Location EOD Area 2, SEAD 002-R-01
6-3	Soil Sample Location EOD Area 3, SEAD 002-R-01
6-4	Soil Sample Location SEAD 46 3.5 inch Rocket Range
6-5	Soil Sample Location SEAD 57, Explosive Ordnance Range

LIST OF APPENDICES

- A. Blast Shield Diagram
- B. Woods Transect Investigation Summary
- C. MEC and MPPEH Recovered at Seneca Army Depot
- D. Data Fragmentation Forms
- E Analytical Data from Site Investigations

LIST OF ACRONYMS AND ABBREVIATIONS

AFCEE	Air Force Center for Environmental Excellence
APHE	Armor Piercing High Explosive
ASR	Archive Search Report
BCT	Base Clean-up Team
BEC	Base Environmental Coordinator
BIP	Blown In Place
BRAC	Base Realignment and Closure
CD	Cultural Debris
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CWM	Chemical Warfare Materials
DDESB	Department of Defense Explosives Safety Board
DGM	Digital Geophysical Mapping
DoD	Department of Defense
EE/CA	Engineering Evaluation/Cost Analysis
EM61-MK2	Electromagnetic Locator
EOD	Explosive Ordnance Disposal
ESS	Explosive Safety Submission
HE	High Explosive
IDA	Industrial Development Agency
IRFNA	Inhibited Red Fuming Nitric Acid
LAW	Light Anti-Tank Weapon
MD	Munitions Debris
MEC	Munitions and Explosives of Concern
MGFD	Munitions with Greatest Fragment Distance
MPPEH	Material Potentially Presenting an Explosive Hazard
MSD	Minimum Separation Distance
NEW	Net Explosive Weight

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

OB/OD	Open Burning/Open Detonation
OD	Open Detonation
OE	Ordnance and Explosives
OSHA	Occupational Safety and Health Administration
PAED	Public Access Exclusion Distance
QA	Quality Assurance
QC	Quality Control
RAB	Restoration Advisory Board
RTK GPS	Real Time Kinematics Global Positioning System
SEDA	Seneca Army Depot Activity
SRA	Saturated Response Area
SSHP	Site Safety and Health Plan
SUXO	Senior UXO Supervisor
USACE	U.S. Army Corps of Engineers
UXO	Unexploded Ordnance

Consolidated Definitions¹

Anomaly Avoidance. Techniques employed on property known or suspected to contain UXO, other munitions that may have experienced abnormal environments (e.g., DMM), munitions constituents in high enough concentrations to pose an explosive hazard, or CA, regardless of configuration, to avoid contact with potential surface or subsurface explosive or CA hazards, to allow entry to the area for the performance of required operations.

Chain of Custody. The activities and procedures taken throughout the inspection, re-inspection and documentation process to maintain positive control of MPPEH to ensure the veracity of the process used to determine the status of material as to its explosive hazard. This includes all such activities from the time of collection through final disposition.

Chemical Agent (CA). A chemical compound (to include experimental compounds) that, through its chemical properties produces lethal or other damaging effects on human beings, is intended for use in military operations to kill, seriously injure, or incapacitate persons through its physiological effects. Excluded are research, development, testing and evaluation (RDTE) solutions; riot control agents; chemical defoliants and herbicides; smoke and other obscuration materials; flame and incendiary materials; and industrial chemicals.

Chemical Agent (CA) Hazard. A condition where danger exists because CA is present in a concentration high enough to present potential unacceptable effects (e.g., death, injury, damage) to people, operational capability, or the environment.

Chemical Agent (CA) Safety. A condition where operational capability and readiness, people, property, and the environment are protected from the unacceptable effects or risks of a mishap involving chemical warfare material (CWM).

Chemical Warfare Material (CWM). Items generally configured as a munition containing a chemical compound that is intended to kill, seriously injure, or incapacitate a person through its physiological effects. CWM includes V- and G-series nerve agents or H-series (mustard) and L-series (lewisite) blister agents in other-than-munition configurations; and certain industrial chemicals (e.g., hydrogen cyanide (AC), cyanogen chloride (CK), or carbonyl dichloride (called phosgene or CG)) configured as a military munition. Due to their hazards, prevalence, and military-unique application, chemical agent identification sets (CAIS) are also considered CWM. CWM does not include: riot control devices; chemical defoliants and herbicides; industrial chemicals (e.g., AC, CK, or CG) not configured as a munition; smoke and other obscuration producing items; flame and incendiary producing items; or soil, water, debris or other media contaminated with low concentrations of chemical agents where no CA hazards exist.

¹ Definitions copied from <https://www.denix.osd.mil/denix/Public/Library/Explosives/UXOSafety/glossary.html>.

Chemical Warfare Material (CWM) Response. Munitions responses and other responses to address the chemical safety; explosives safety, when applicable; human health; or environmental risks presented by CA-filled munitions and CA in other than munitions configurations. (See munitions response.)

Construction Support. Assistance provided by DoD EOD or UXO-qualified personnel and/or by personnel trained and qualified for operations involving CA, regardless of configuration, during intrusive construction activities on property known or suspected to contain UXO, other munitions that may have experienced abnormal environments (e.g., DMM), munitions constituents in high enough concentrations to pose an explosive hazard, or CA, regardless of configuration, to ensure the safety of personnel or resources from any potential explosive or CA hazards.

Cultural Debris. Debris found on operational ranges or munitions response sites, which may be removed to facilitate a range clearance or munitions response, that is not related to munitions or range operations. Such debris includes, but is not limited to: rebar, household items (refrigerators, washing machines, etc.), automobile parts and automobiles that were not associated with range targets, fence posts, fence wire, and magnetic rocks.

Defense Sites. Locations that are or were owned by, leased to, or otherwise possessed or used by the Department of Defense. The term does not include any operational range, operating storage or manufacturing facility, or facility that is used for or was permitted for the treatment or disposal of military munitions. (10 U.S.C. 2710(e)(1))

Discarded Military Munitions (DMM). Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations. (10 U.S.C. 2710(e)(2))

Disposal. End of life tasks or actions for residual materials resulting from demilitarization or disposition operations.

Disposition. The process of reusing, recycling, converting, redistributing, transferring, donating, selling, demilitarizing, treating, destroying, or fulfilling other life-cycle guidance, for DoD property.

Documentation of the Explosives Safety Status of Material. Documentation attesting that material: (1) does not present an explosive hazard and is consequently safe for unrestricted transfer within or release from DoD control, or (2) is MPPEH, with the known or suspected explosive hazards stated, that is only transferable or releasable to a qualified receiver. This documentation must be signed by a technically qualified individual with direct knowledge of: (1) the results of both the material's 100 percent inspection and 100 percent re-inspection or of the approved process used and the appropriate level of re-inspection, and (2) the veracity of the chain-of-custody for the material. This signature is followed by the signature of another technically qualified individual who inspects the material on a sampling basis (sampling procedures are determined by DoD entity that is inspecting the material).

Environmental Regulators and Safety Officials. Include, but may not be limited to environmental regulators, environmental coordinators or hazardous material coordinators, law enforcement officers, and safety personnel of the U.S. Environmental Protection Agency (USEPA), American Indians and Alaska Natives, other Federal Land Managers, and/or the States. When appropriate, public health officials of various agencies may also be involved.

Explosive Hazard. A condition where danger exists because explosives are present that may react (e.g., detonate, deflagrate) in a mishap with potential unacceptable effects (e.g., death, injury, damage) to people, property, operational capability, or the environment.

Explosive Ordnance Disposal (EOD). The detection, identification, on-site evaluation, rendering safe, recovery, and final disposal of unexploded ordnance and of other munitions that have become an imposing danger, for example, by damage or deterioration.

EOD incident. The suspected or detected presence of a UXO or damaged military munitions that constitutes a hazard to operations, installations, personnel, or material. Not included are accidental arming or other conditions that develop during the manufacture of high explosives material, technical service assembly operations, or the laying of landmines or demolition charges.

Explosive Ordnance Disposal (EOD) Personnel. Military personnel who have graduated from the Naval School, Explosive Ordnance Disposal; are assigned to a military unit with a Service-defined EOD mission; and meet Service and assigned unit requirements to perform EOD duties. EOD personnel have received specialized training to address explosive and certain CA hazards during both peacetime and wartime. EOD personnel are trained and equipped to perform Render Safe Procedures (RSP) on nuclear, biological, chemical, and conventional munitions, and on improvised explosive devices.

Explosive Ordnance Disposal (EOD) Unit. A military organization constituted by proper authority; manned with EOD personnel; outfitted with equipment required to perform EOD functions; and assigned an EOD mission.

Explosives or Munitions Emergency Response. All immediate response activities by an explosives and munitions emergency response specialist to control, mitigate, or eliminate the actual or potential threat encountered during an explosives or munitions emergency. An explosives or munitions emergency response may include in-place render-safe procedures, treatment or destruction of the explosives or munitions, and/or transporting those items to another location to be rendered safe, treated, or destroyed. Any reasonable delay in the completion of an explosives or munitions emergency response caused by a necessary, unforeseen, or uncontrollable circumstance will not terminate the explosives or munitions emergency. Explosives and munitions emergency responses can occur on either public or private lands and are not limited to responses at RCRA facilities. (Military Munitions Rule, 40 CFR 260.10)

Explosives Safety. A condition where operational capability and readiness, people, property, and the environment are protected from the unacceptable effects or risks of potential mishaps involving military munitions.

Interim Holding Facility (IHF). A temporary storage facility designed to hold recovered chemical warfare material (RCWM).

Land Use Controls (LUC). LUC are physical, legal, or administrative mechanisms that restrict the use of, or limit access to, real property to manage risks to human health and the environment. Physical mechanisms encompass a variety of engineered remedies to contain or reduce contamination and/or physical barriers to limit access to real property, such as fences or signs.

Long-term Management (LTMgt). The period of site management (including maintenance, monitoring, record keeping, 5-year reviews, etc.) initiated after response (removal or remedial) objectives have been met (i.e., after Response Complete).

Material Potentially Presenting an Explosive Hazard (MPPEH). Material potentially containing explosives or munitions (e.g., munitions containers and packaging material; munitions debris remaining after munitions use, demilitarization, or disposal; and range-related debris); or material potentially containing a high enough concentration of explosives such that the material presents an explosive hazard (e.g., equipment, drainage systems, holding tanks, piping, or ventilation ducts that were associated with munitions production, demilitarization or disposal operations). Excluded from MPPEH are munitions within DoD's established munitions management system and other hazardous items that may present explosion hazards (e.g., gasoline cans, compressed gas cylinders) that are not munitions and are not intended for use as munitions.

Military Munitions. Military munitions means all ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of the Department of Defense, the U.S. Coast Guard, the U.S. Department of Energy, and the National Guard. The term includes confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives, and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, and devices and components of the above.

The term does not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components, other than non-nuclear components of nuclear devices that are managed under the nuclear weapons program of the Department of Energy after all required sanitization operations under the Atomic Energy Act of 1954 (42 U.S.C. 2011 et seq.) have been completed. (10 U.S.C. 101(e)(4)(A) through (C))

Military Munitions Burial Site. A site, regardless of location, where military munitions or CA, regardless of configuration, were intentionally buried, with the intent to abandon or discard. This term includes burial sites used to dispose of military munitions or CA, regardless of configuration, in a manner consistent with applicable environmental laws and regulations or the national practice at the time of burial. It does not include sites where munitions were intentionally covered with earth during

authorized destruction by detonation, or where in-situ capping is implemented as an engineered remedy under an authorized response action.

Minimum Separation Distance (MSD). MSD is the distance at which personnel in the open must be from an intentional or unintentional detonation.

Munition with the Greatest Fragmentation Distance (MGFD). The munition with the greatest fragment distance that is reasonably expected (based on research or characterization) to be encountered in any particular area.

Munitions Constituents (MC). Any materials originating from unexploded ordnance (UXO), discarded military munitions (DMM), or other military munitions, including explosive and non-explosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions. (10 U.S.C. 2710(e)(3)).

Munitions Debris. Remnants of munitions (e.g., fragments, penetrators, projectiles, shell casings, links, fins) remaining after munitions use, demilitarization, or disposal.

Munitions and Explosives of Concern (MEC). This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks means: (A) Unexploded ordnance (UXO), as defined in 10 U.S.C. 101(e)(5); (B) Discarded military munitions (DMM), as defined in 10 U.S.C. 2710(e)(2); or (C) Munitions constituents (e.g., TNT, RDX), as defined in 10 U.S.C. 2710(e)(3), present in high enough concentrations to pose an explosive hazard.

Munitions Response. Response actions, including investigation, removal actions and remedial actions to address the explosives safety, human health, or environmental risks presented by unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC), or to support a determination that no removal or remedial action is required.

Munitions Response Area (MRA). Any area on a defense site that is known or suspected to contain UXO, DMM, or MC. Examples include former ranges and munitions burial areas. A munitions response area is comprised of one or more munitions response sites.

Munitions Response Site (MRS). A discrete location within an MRA that is known to require a munitions response.

Mutual Agreement. A meeting of the minds on a specific subject, and a manifestation of intent of the parties to do or refrain from doing some specific act or acts. Inherent in any mutual agreement or collaborative process are the acknowledgement of each member's role in the process and their differing views of their authorities. The mutual agreement process will provide a means of resolving differences without denying the parties an opportunity to exercise their respective authorities should mutual agreement fail to be achieved.

One Percent Lethality Distance. A distance calculated from a given CA Maximum Credible Event (MCE) and meteorological conditions (temperature, wind speed, Pasquill stability factor) and established as the distance at which dosage from that MCE agent release would be 150 mg-min/m³ for H and HD agents, 75 mg-min/m³ for HT agent, 150 mg-min/m³ for Lewisite, 10 mg-min/m³ for

GB agent, 4.3 mg-min/m³ for VX vapor, and 0.1 mg-min/m³ for inhalation and deposition of liquid VX.

On-call Construction Support. Construction support provided, on an as needed basis, where the probability of encountering UXO, other munitions that may have experienced abnormal environments (e.g., DMM), munitions constituents in high enough concentrations to pose an explosive hazard, or CA, regardless of configuration, has been determined to be low. This support can respond from off-site when called, or be on-site and available to provide required construction support.

On-site Construction Support. Dedicated construction support, where the probability of encountering UXO, other munitions that may have experienced abnormal environments (e.g., DMM), munitions constituents in high enough concentrations to pose an explosive hazard, or CA, regardless of configuration, has been determined to be moderate to high.

On-the-Surface. A situation in which UXO, DMM or CWM are: (A) entirely or partially exposed above the ground surface (i.e., the top of the soil layer); or (B) entirely or partially exposed above the surface of a water body (e.g., as a result of tidal activity).

Open Burn (OB). An open-air combustion process by which excess, unserviceable, or obsolete munitions are destroyed to eliminate their inherent explosive hazards.

Open Detonation (OD). An open-air process used for the treatment of excess, unserviceable or obsolete munitions whereby an explosive donor charge initiates the munitions being treated.

Operational Range. A range that is under the jurisdiction, custody, or control of the Secretary of Defense and that is used for range activities; or although not currently being used for range activities, that is still considered by the Secretary to be a range and has not been put to a new use that is incompatible with range activities. (10 U.S.C. 101(e)(3)(A) and (B)). Also includes "military range," "active range," and "inactive range" as those terms are defined in 40 CFR §266.201.

Primary Explosives. Primary explosives are highly sensitive compounds that are typically used in detonators and primers. A reaction is easily triggered by heat, spark, impact or friction. Examples of primary explosives are lead azide and mercury fulminate.

Public Access Exclusion Distance (PAED). The PAED is defined as longest distance of the hazardous fragment distance, IBD for overpressure, or the One Percent Lethality Distance. For siting purposes, the PAED is analogous to the IBD for explosives; therefore, personnel not directly associated with the chemical operations are not to be allowed within the PAED.

Qualified Receiver. Entities that have personnel who are, or individuals who are, trained and experienced in the identification and safe handling of used and unused military munitions, and any known or potential explosive hazards that may be associated with the MPPEH they receive; and are licensed and permitted or otherwise qualified to receive, manage, and process MPPEH.

Range. A designated land or water area that is set aside, managed, and used for range activities of the Department of Defense. The term includes firing lines and positions, maneuver areas, firing lanes, test pads, detonation pads, impact areas, electronic scoring sites, buffer zones with restricted access, and

exclusionary areas. The term also includes airspace areas designated for military use in accordance with regulations and procedures prescribed by the Administrator of the Federal Aviation Administration. (10 U.S.C. 101(e)(1)(A) and (B))

Range activities. Research, development, testing, and evaluation of military munitions, other ordnance, and weapons systems; and the training of members of the armed forces in the use and handling of military munitions, other ordnance, and weapons systems. (10 U.S.C. 101(e)(2)(A) and (B))

Range Clearance. The destruction, or removal and proper disposition of used military munitions (e.g., unexploded ordnance (UXO) and munitions debris) and other range-related debris (e.g., target debris, military munitions packaging and crating material) to maintain or enhance operational range safety or prevent the accumulation of such material from impairing or preventing operational range use. "Range clearance" does not include removal, treatment, or remediation of chemical residues or munitions constituents from environmental media, nor actions to address discarded military munitions (e.g., burial pits) on operational ranges.

Range-Related Debris. Debris, other than munitions debris, collected from operational ranges or from former ranges (e.g., target debris, military munitions packaging and crating material).

Recovered Chemical Warfare Material (RCWM). CWM used for its intended purpose or previously disposed of as waste, which has been discovered during a CWM response or by chance (e.g., accidental discovery by a member of the public) that DoD has either secured in place or placed under DoD control, normally in a DDESB-approved storage location or interim holding facility, pending final dispositions.

Render Safe Procedures (RSP). The portion of EOD procedures that involves the application of special disposal methods or tools to interrupt the functioning or otherwise defeat the firing train of UXO from triggering an unacceptable detonation.

Secondary Explosives. Secondary explosives are generally less sensitive to initiation than primary explosives and are typically used in booster and main charge applications. A severe shock is usually required to trigger a reaction. Examples are TNT, cyclo-1,3,5-trimethylene-2,4,6-trinitramine (RDX or cyclonite), HMX, and tetryl.

Small Arms Ammunition. Ammunition, without projectiles that contain explosives (other than tracers), that is .50 caliber or smaller, or for shotguns.

Team Separation Distance (TSD). The distance that munitions response teams must be separated from each other during munitions response activities involving intrusive operations.

Technical Escort Unit (TEU). A DoD organization manned with specially trained personnel that provide verification, sampling, detection, mitigation, render safe, decontamination, packaging, escort and remediation of chemical, biological and industrial devices or hazardous material.

Technology-aided Surface Removal. A removal of UXO, DMM or CWM on the surface (i.e., the top of the soil layer) only, in which the detection process is primarily performed visually, but is

augmented by technology aids (e.g., hand-held magnetometers or metal detectors) because vegetation, the weathering of UXO, DMM or CWM, or other factors make visual detection difficult.

Time Critical Removal Action (TCRA). Removal actions where, based on the site evaluation, a determination is made that a removal is appropriate, and that less than 6 months exists before on-site removal activity must begin. (40 CFR 300.5)

Unexploded Ordnance (UXO). Military munitions that (A) have been primed, fuze, armed, or otherwise prepared for action; (B) have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and (C) remain unexploded either by malfunction, design, or any other cause. (10 U.S.C. 101(e)(5)(A) through (C))

UXO Technicians. Personnel who are qualified for and filling Department of Labor, Service Contract Act, Directory of Occupations, contractor positions of UXO Technician I, UXO Technician II, and UXO Technician III.

UXO-Qualified Personnel. Personnel who have performed successfully in military EOD positions, or are qualified to perform in the following Department of Labor, Service Contract Act, Directory of Occupations, contractor positions: UXO Technician II, UXO Technician III, UXO Safety Officer, UXO Quality Control Specialist, or Senior UXO Supervisor.

Venting. Exposing any internal cavities of MPPEH, to include training or practice munitions (e.g., concrete bombs), using DDESB- or DoD Component-approved procedures, to confirm that an explosive hazard is not present.

1.0 INTRODUCTION

Parsons Infrastructure and Technology Group Inc. (Parsons) was awarded Contract No. FA8903-04-D-8675, Delivery Order No. 0026, by the Air Force Center for Environmental Excellence (AFCEE) to conduct Munitions Response and CERCLA Closure for four Areas of Concern (AOCs) at the Seneca Army Depot in Seneca County, New York (**Figure 1-1**). This Completion Report presents, summarizes, and documents the ordnance removal and environmental sampling and analysis activities performed by Parsons at the four areas of concern (AOCs) at the former Seneca Army Depot Activity (SEDA) under this delivery order. The AOCs where work was performed included the former Explosive Ordnance Disposal (EOD) Range (SEAD 57), the former 3.5-inch Rocket Range (SEAD 46), the former Grenade Range (SEAD 007-R-01), and the former EOD Area 2 and the former EOD Area 3 (both part of SEAD 002-R-001).

The overall objectives of this project were to:

- Remove Material Potentially Presenting an Explosive Hazard (MPPEH) from the four AOCs so that the property can be released by the U.S. Department of Defense (DOD) for transfer.
- Collect, summarize, and evaluate analytical data at each of the AOCs to document that levels of chemicals still present at the AOCs do not pose potential threats to human health or the environment.

This report documents all MPPEH removal and sampling and analysis activities that were performed to achieve the project objectives. The MPPEH activities were performed and completed in accordance with the U.S. Department of Defense Explosive Safety Board (DDESB) approved Explosive Safety Submission (ESS) dated August 18, 2006. The environmental sampling and analysis activities completed as part of this effort were performed in accordance with procedures identified in the document entitled “Site-Wide Sampling and Analysis Plan, Munitions Response and CERCLA Closure” (Parsons, April 2006).

1.1 BACKGROUND

SEDA is a former U.S. Army facility located in New York State, within Seneca County in the towns of Romulus and Varick. SEDA occupies approximately 10,600 acres of land located between Seneca and Cayuga Lakes (**Figure 1-1**). It is bounded on the west by State Route 96A and on the east by State Route 96. The cities of Geneva and Rochester are located to the northwest (14 and 50 miles, respectively); Syracuse is 53 miles to the northeast and Ithaca is 31 miles to the south. The surrounding area is generally used for farming and rural in nature.

SEDA was nominated for listing on the Federal Facilities National Priorities List (NPL) on July 13, 1989; the listing was finalized on August 30, 1990. Consequently, all work performed under this contract was performed according to Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and terms of the “Federal Facility Agreement under CERCLA Section 120 in the matter of Seneca Army Depot, Romulus, New York.”

In 1995 SEDA was added to the Department of Defense's (DoD's) Base Realignment and Closure (BRAC) List and was officially closed in 1999. In December 1998, the U.S. Army Corps of Engineer's (USACE) finalized DoD's BRAC Ordnance and explosives Archives Search Report (ASR) which compiles ordnance related information about the site through historical research, aerial photography analysis, interviews with persons associated with the site, and a site inspection. The Seneca County Industrial Development Agency (IDA) has prepared a reuse plan entitled "Seneca Army Depot Reuse Plan and Implementation Strategy." This plan outlines the reuse potential of the installation for housing developments, industrial development, institutional and conservation/recreation purposes upon transfer.

1.2 AOC DESCRIPTIONS

The four AOCs included under this delivery order encompass an area of approximately 163 acres within the 10,587-acre SEDA property. The Site Map showing the location of the AOCs included in this project and the locations of the storage magazines is presented on **Figure 1-2**.

1.2.1 Former 3.5-inch Rocket Range (SEAD 46)

SEAD 46 consists of approximately 45 acres on the north side of the Depot due east of the former Ammunition Storage Area (**Figure 1-3**). Although the ASR described SEAD 46 as a 3.5" Rocket Range, it includes a reputed EOD disposal site as well as a known Reserve Component Training Area. Based on the findings of the Engineering Evaluation/Cost Analysis (EE/CA), the likely use of the AOC was as a rocket motor function testing range. There is at least one picture of a 3.5-inch motor fixed to a tripod in front of the hill in the SEDA historical records.

1.2.2 Former Explosive Ordnance (EOD) Range (SEAD 57)

SEAD 57, formerly known as EOD Area 1, consists of approximately 79 acres at the northwestern end of Depot immediately adjacent and south of the Open Burning/Open Detonation Grounds (435 acres) (**Figure 1-4**). An earthen berm is located in the center of the SEAD 57 area. The 143rd Ordnance Detachment was a Department of Army tenant organization located at Seneca Army Depot that performed ordnance and explosives (OE) disposal by detonation for more than 20 years.

1.2.3 Grenade Range (SEAD 007-R-01)

The Grenade Range (SEAD 007-R-01) consists of a 30-acre Security Force Practice Range immediately south of SEAD 57 which was constructed during the mid 1980s (**Figure 1-5**). The range contained wooden and armored vehicle targets; distance and boundary markers; and the range control tower. The ASR states that 40mm M407A1 and 35mm M73 sub-caliber practice LAW were used at the AOC for security forces training. There is no record (or indication at the targets) that HE rounds were used. Small arms (blanks) casings were reported to be present at the time of the ASR in 1998.

1.2.4 EOD Areas 2 and 3 (SEAD 002-R-01)

The EOD Area #2 and #3 (SEAD 002-R-01) are both located to the northwest of SEAD 46. EOD Area 2 is located on the western shore of the Duck Pond to the west of SEAD 46 as shown on **Figure 1-6** and **1-7**. The 1998 ASR states that explosive devices were used in this area, and non-explosive

projectiles were thrown in the water at the Duck Pond. The EOD Area 3 is located 250 feet to the north of the earthen berm in SEAD 46 as shown on **Figure 1-7**. The 2.5 acre area is mostly flat with the exception of a 100 by 200 foot depression in the middle of the site. This site was reported in the 1999 ASR as an EOD disposal area.

2.0 REVIEW OF PRIOR WORK

2.1 PRIOR MUNITIONS RESPONSE WORK

The DoD BRAC Ordnance and Explosives Archives Search Report identified numerous sites including the four AOCs in this project for further consideration in 1998 (ASR 1998). In 2000, Parsons conducted an Ordnance Engineering Evaluation and Cost Analysis (OE EE/CA) for all ordnance sites at Seneca Army Depot including the AOCs in this project. Additional investigation was conducted at SEAD 46 and 57 by the Shaw Group and the results were presented in the Geophysical Investigation Munitions Destruction Areas SEADs 46 & 57, Seneca Army Depot Activity, April 2005. The previous investigations defined the presence, density and extent of ordnance contamination at these sites. This information was used to support this project.

2.1.1 Former 3.5-inch Rocket Range (SEAD 46)

As part of the OE EE/CA (Parsons, 2004), geophysical surveys and intrusive investigations were conducted in 2000 at SEAD 46. Forty-three percent (43%) of the 40 acres was surveyed and 1,155 anomalies were investigated; 478 were found to contain munitions debris, and 10 of these were MPPEH (material potentially presenting an explosive hazard). The majority of MPPEH recovered (M4071A 40mm practice grenades) were located at the south end of the AOC, opposite the target berm. This probably reflects the AOC's use as a local training area in 1980s and 1990s.

During the Geophysical Investigation conducted by Shaw (April 2005) of SEAD 46 and 57, approximately 27 acres of SEAD 46 were digitally mapped. There was one area where the digital geophysical mapping (DGM) survey detected anomaly densities greater than 600 anomalies per acre. Areas that are saturated with anomalies or have more than 600 per acre are considered saturated response areas (SRAs). There was one SRA identified to the west of the berm at SEAD 46. This area is approximately one acre in size. In addition to the identification of the SRA, 98 anomalies were intrusively investigated by Shaw. The results of this investigation indicated that 32 aluminum munitions debris (MD), six ferrous MD, and 60 cultural debris (CD) with no MPPEH items were found.

2.1.2 Former EOD Range (SEAD 57)

As part of the OE EE/CA (Parsons, 2004), geophysical surveys and intrusive investigations were conducted at SEAD 57. Twenty-three percent (23%) of the 60 acres were mapped, 1,700 anomalies were investigated and 954 recovered items were classified as MD. Three of these were determined to be munitions and explosives of concern (MEC). The three items were one MK2 grenade and two, 20mm projectiles. During the surface sweep for the EE/CA, a 37mm armor piercing high explosive (APHE) item was found near the abandoned ammunition disassembly area across the road from the AOC. During the intrusive portion of the EE/CA investigation, all MD and MEC items identified were encountered between the ground surface and six inches below the surface.

During Shaw's Geophysical Investigation of SEAD 57 (April 2005), approximately 22.5 acres of the AOC were digitally mapped. The results indicated six SRAs at SEAD 57. The largest was an approximate 400-foot radius ejection spray pattern radiating out from the demo berm with the greatest

concentration to the west of the SEAD 57 berm. A total of 13 acres of SRA were found at SEAD 57. During the Shaw investigation, 75 anomalies were intrusively investigated at SEAD 57. Four MPPEH items (a 75mm, a 75mm AP, a 105mm and an unknown bomb) were found in the 75 anomalies investigated. These items were determined to be MD following venting. Only one MD item was discovered below 6 inches in depth.

Additionally, approximately 40 acres of heavy vegetation within an 1,800 foot radius of SEAD 57 were partially investigated by clearing and grubbing 10-foot wide transects spaced every 50 feet in the heavily wooded area. Shaw cleared 17,000 liner feet of these transects using the “mag and flag” technique. The results of this investigation were four MPPEH items and 43 MD items.

2.1.3 Grenade Range (SEAD 007-R-01)

The OE EE/CA for the Grenade Range was finalized in February of 2004. During the OE EE/CA, 15 acres was geophysically mapped at the Grenade Range using an EM-61 instrument. In addition to the 15 acres (65 grids), the EM61 was used to sample 10% of the area between the firing line and the target area. Relocation and verification of DGM targets during the EE/CA investigated 865 DGM targets in the Grenade Range area. This intrusive investigation resulted in 102 MPPEH items (101, 35 mm sub-cal LAW M73, and 1 Rifle Grenade M407A1, Practice) and numerous munitions debris items.

2.1.4 EOD Areas 2 and 3 (SEAD 002-R-01)

As part of the OE EE/CA, geophysical surveys and intrusive investigations were conducted in 2000 at EOD Areas #2 and #3 (SEAD 002-R-01). Forty-six percent (46%) of the 5-acre EOD #2 Area was surveyed and 89 anomalies were investigated. Six of the items were MD and one item was MEC. All items were found in the upper three inches of the soil. A total of 80% of the 5-acre EOD #3 Area was surveyed and 64 anomalies were investigated. Thirteen of the items were MD and no items were classified as MEC.

2.2 PRIOR ENVIRONMENTAL INVESTIGATIONS

An expanded site inspection (ESI) was conducted at SEAD 57 during 1993 and 1994 and remedial investigations focusing on the nature and extent of contaminants in various media were performed at SEAD 46 and SEAD 57 between 1999 and 2000. The ESI conducted at SEAD 57 included the excavation and sampling of test pits; the installation, development and testing of monitoring wells; sampling and analysis of groundwater; and the collection and analysis of surface soil samples. Information pertinent to and results of the ESI performed at SEAD 57 are reported in the document Final “*Expanded Site Inspection, Three Moderate Priority SWMUs, SEAD 11, 13, 57*” (Parsons, 1995). Chemical results for soil from this work are summarized in Section 4 below.

The remedial investigation at SEAD 46 and SEAD 57 included the following activities:

- UXO Avoidance,
- Surveying,
- Geophysical investigations (SEAD 57 only),

- Test pitting (SEAD 57 only),
- Soil sampling,
- Surface water sampling ,
- Ditch soil (sediment) sampling,
- Installation of monitoring wells,
- Groundwater sampling,
- Building investigation (SEAD 57 only),
- Chemical and physical characterization of samples, and,
- A qualitative ecological assessment of the area of SEAD 46, SEAD 57 and neighboring (0.5 mile radius) properties.

The RI work performed at SEAD 46 and SEAD 57 is reported in the document Draft “*Remedial Investigation Report for SEAD-46 and SEAD-57*” (Parsons, 2001). Chemical results from this work are discussed in Section 4 below.

No prior investigations focusing on hazardous chemical substance releases have been conducted at SEAD 002-R-01 or SEAD 007-R-001.

3.0 SITWORK

All site work for the Munitions Response portion of the project can be broken down to two activities. The first is the intrusive investigation which includes the geophysical mapping and intrusive investigation, examination and removal of selected targets. The second is the physical removal and sorting of SRA soil from areas where individual anomaly locations cannot be identified in the geophysical data.

3.1 MOBILIZATION

Parsons mobilized personnel, equipment, materials, and subcontractors to SEDA starting on May 7, 2006, to perform site work and MPPEH removal activities following the Notice to Proceed. The field team consisted of a Site Manager, Site Safety and Health Officer/Quality Control Officer (UXOQC), geophysical data collection/reacquisition teams, two dig teams, and a Senior UXO Supervisor (SUXOS). Additionally, the ordnance disposal subcontractor, USA Environmental (USA), and the site work subcontractor Severson Environmental Services Inc. (Severson) were mobilized to the site.

All earthmoving equipment that was utilized during the MPPEH removal effort was fitted with 2-inch Plexiglas[®] protective shields in order to protect the operator from fragment hazards due to unintentional detonations.

3.2 SITE PREPARATION

Following mobilization of equipment and personnel, all open areas were mowed to 8 inches to allow the anomaly investigation teams unrestricted access to the work site. The soil screening equipment was set up at SEAD 57 since 90 percent of the soil planned for excavation was situated there. Once the SEAD 57 screening equipment work area was established, the dig teams performed a surface sweep and investigated all the identified anomalies in the lay down area. After site setup was completed, all other work zones and support zones were established to ensure that the independent team separation distance of 200 foot distances could be maintained.

3.3 SOIL EXCAVATION

Initially, the best method of MPPEH removal for high density anomaly areas was thought to be excavation of SRA soil followed by mechanical screening of the excavated material to remove MPPEH and MD. The SRAs were presumed to contain ferrous MPPEH and MD. As the intrusive investigation moved towards identifying the source of the SRA, it was determined that the cause of the SRA was the high percentage of aluminum MD and not the presence of ferrous MD and MPPEH that was anticipated. The mechanical screening process was abandoned after intrusive investigations and material processing determined the majority of the MD to be non-ferrous.

Initially, excavation was planned for several areas at SEAD 46 and 57:

- A saturated response area northwest of the SEAD 46 backstop (SEAD 46 SRA);
- Front face of the back stop berm at SEAD 46 (SEAD 46 berm);
- SEAD 57 kick out area extending away from the SEAD 57 berm predominantly in the northwest direction to 250 feet (SEAD 57 kick out);

- Interior face of the SEAD 57 horseshoe-shaped berm (SEAD 57 berm); and
- A saturated response area north west of the SEAD 57 berm (SEAD 57 SRA).

Generally, soil was to be excavated to a depth of 6 inches unless otherwise indicated with equipment shielded according to requirements presented in the ESS.

3.3.1 SEAD 46 SRA

In the one acre SRA to the northwest of SEAD 46, fourteen 3-foot by 10-foot test pits totaling 24 cubic yards (cys) of soil were excavated to investigate the source of the saturated geophysical response. These test pits revealed only non-military CD such as broken pottery and glass, animal bones, and rusted farm debris. It is believed that this debris was dumped there prior to the construction of the Seneca Army Depot (1941 – 1942) and was likely placed there by prior occupants of the property. The test pits were backfilled and a surface sweep of the area was performed by the SUXOS and dig teams to verify no MPPEH was present within the boundaries of this SRA. It was confirmed and this area was considered free of MPPEH. The remainder of the previously identified EM anomalies in this area were found to be cultural debris and small arms MD.

3.3.2 SEAD 46 Berm

Twelve inches of soil totaling 298 cys was excavated from the front face of the berm at SEAD 46. After the first foot of soil was removed and transported to the lay down area, the dig teams and SUXOS swept the remainder of the hill with a Fisher metal detector to determine if most of the metallic debris had been removed by the initial excavation. As a result of the sweep, only non-military, small arms (0.50 caliber bullets and other assorted bullets) and cultural debris were encountered. To further investigate this area, a deeper test pit was excavated in the center of the berm where soil staining was observed. A wooden stand was found and removed, and based on historic photographs it is believed that this test stand was used to hold the rocket motor of the 3.5” rocket during function testing of the motor assembly. No 3.5” rocket warheads or motors were found at this AOC, only what appears to be the function tests stand built into the backstop. The SUXOS determined that no MPPEH was present in the remainder of the SEAD 46 berm.

3.3.3 SEAD 57 SRA

Excavation was planned for a 12 acre area surrounding the berm at SEAD 57. Initially, a small portion of the total area was excavated using a shielded excavator. A total of 532 cys of material was excavated and stockpiled. During excavation, aluminum fragments similar to those found outside the planned excavation area were found in the excavated material. These aluminum fragments were determined to be from the M-123 photo flash pyrotechnic device. SEAD 57 was used to dispose of an unknown quantity of these devices.

An alternative clearance process was employed upon determination that the majority of anomalies were non-ferrous, aluminum fragments resulting from flares and photoflash devices. A magnetometer survey was performed on this SRA and all anomalies detected by the magnetometer in this area were investigated. Of the 1,164 targets investigated in the SEAD 57 magnetometer survey,

1,036 were cultural debris, 117 were MD, and 11 were MPPEH later determined to be MD after venting.

3.3.4 SEAD 57 Berm

Twelve inches of soil totaling 126 cys was removed from the surface of the SEAD 57 berm using a shielded excavator. Following removal of the soil from the berm area, the entire berm (interior and exterior face) and interior floor was surveyed using a Fisher all-metal detector for any remaining MPPEH/MD.

The post-excavation sweep found evidence of pyrotechnic flares and an empty 155 mm projectile. The flares were later determined to be Mk25 drift signals that had been previously subjected to an open burning procedure, with only the empty case and the flotation chamber intact. The 155 mm projectile consisted of the case only, and it was badly damaged from previous demolition procedures.

Charcoal and charred soil was discovered in the center of the bermed area floor. This area was over excavated to the underlying bedrock to remove all of the burned material and stained soil. In the remains of this burn pit were several M73 LAW rocket motors, M25 drift signal cases and various linked ammunition, all in the unfired blank configuration. The burn pit excavation totaled 42 cys of material.

All excavated material was transported to the SEAD 57 soil screening area for processing.

3.4 SOIL SCREENING AND PROCESSING

The objective of the soil screening process was to separate ferrous MPPEH and MD from the excavated soil removed from the SEAD 46 and 57 SRAs.

As a trial run for the screening plant, approximately 10 cys of stockpile material from SEAD 57 was run through the plant to determine the optimum throughput for the separation process. Based on this test run, it was determined that the screening plant would not remove the majority of MD (consisting of aluminum fragments). Therefore, it was not cost-effective to use this process to reduce the amount of soil requiring inspection by the UXO teams.

3.4.1 Excavated Soil Inspection

The stockpiled soil that was not screened and the oversize material from the test run was transported from the stockpile area to the lay down area and pushed out in 1-foot lifts using a shielded bulldozer. The lifts were subsequently cleared by UXO Technicians using the Schonstedt GX-72 magnetometer to identify individual items within the excavated material. In addition, QC checks were performed on 10 percent of the grids with a Fisher all-metal detector. All excavated soils were inspected using this process.

3.5 GEOPHYSICAL MAPPING

Geophysical surveys were performed at the four AOCs during two separate mapping efforts to identify and target anomalies for intrusive investigation. In accordance with the ESS, the specific objective of the mapping effort was to identify all possible MPPEH items to a clearance depth of 3

feet based on meeting the detection limits of the geophysical prove-out grid. The results of this prove-out are presented in **Appendix A**.

Previously, EM61-MKII data was collected by Shaw in April 2005 at SEADs 46 and 57. Shaw identified 5,746 anomalies in SEAD 46 and 57 that required investigation/removal.

As part of this project, geophysical mapping was performed at SEAD 57, SEAD 007-R-01 and SEAD 002-R-01 to supplement the previous data collection efforts. Additional surveys were conducted in an area adjacent to SEAD 57 and local training areas adjacent to the Grenade Range. The area north of SEAD 57 between the 1,800 foot SEAD 57 radius and the 2,100 Open Detonation Grounds radius was surveyed since this area was used by EOD units for training and demolition (**Figure 3-2**). This area was not previously identified in the ESS as an area of concern. This area is referred to as the SEAD 57 Buffer Area.

The second area is a series of local training areas east and southeast of the Grenade Range (Figure 1-8). Local Training Areas B through L were investigated due to their proximity to the Grenade Range. There was no previous indication of MPPEH and they were not identified in the ESS as areas of concern. The Army believed it was prudent to investigate these adjacent areas.

Surveys were completed using a Geometrics G858 gradiometer and EM61-MKII towed array. From this geophysical investigation, an additional 4,256 targets were identified for investigation/removal resulting in 10,002 anomaly targets investigated during this removal effort. An additional 1,737 anomalies were investigated using “mag and flag” techniques resulting in a total of 11,739 investigations. A breakdown by area of the investigated targets is presented in **Table 3-1**.

The intrusive investigation summary presented in **Table 3-1** represents the number of reacquired target locations that were investigated during geophysical anomaly investigation and clearing activities. The results of the surveys conducted on the 224,000 square feet of woods transects are shown on the table in **Appendix B**. **Figures 3-1** through **3-6** show the locations of all identified anomalies targeted for investigation and the woods transects.

3.6 GEOPHYSICAL INSTRUMENT PROVE-OUT

Grids consisting of numerous seed items were established during previous geophysical survey efforts at Seneca. The prove-out grids contain a number of different objects of varying sizes that are set at pre-defined depths that reflect the expected items and depths of items likely to be encountered at the areas covered under this task order. This test grid procedure is utilized to determine peak detection and cut-off levels, and to verify the equipment is capable of performing the work as stated in the ESS. The geophysical data collected over two of the three existing prove-out grids used previously during the EE/CA and Time Sensitive Geophysical Investigation was compared to the previous data collection for depth of detection and positional accuracy. The prove-out grids were surveyed in May, July and September 2007. Results of this investigation are provided in **Appendix A**.

3.7 ANOMALY INVESTIGATION

Intrusive investigations of identified anomalies based on collected geophysical data were performed using two, three member teams of pre-qualified UXO technicians working under the supervision of the Senior UXO Supervisor (SUXOS). The identified geophysical anomaly locations from the collected geophysical data were converted from X, Y coordinates to a local coordinate system based in the State Plane system for Central New York (North American Datum 1983, Central New York). The northing and easting locations were uploaded to the Trimble 5700 DGPS survey equipment to be physically located by a surveyor in the field. Once the identified location was found, the surveyor placed a plastic pin flag at the location +/- 0.5 feet. The anomaly ID was written on the pin flag so the anomaly could be identified when it was reached in the field by the dig teams. After the location was marked out, the reacquisition team returned to the location with the EM61-MKII equipment to verify that the location and anomaly response were accurate for the selected anomaly. This process verified that all anomalies that the dig teams were sent to investigate were relevant and no positioning or processing error was encountered in the data collection process.

Once all of the identified anomalies for a given grid were reacquired and verified in the field, the three member UXO technician dig team investigated the location by hand digging the anomaly to identify its source. The results of the investigation were then recorded electronically on a personal digital assistant (PDA) device. All spoil materials were left on the surface to allow for post investigation QC inspection of the open excavation. If MPPEH was encountered during the investigation, it was sandbagged and moved to the storage bunker at the end of the day. All ferrous cultural debris and MD were removed and placed in the scrap bin, which was subsequently disposed of upon completion of the project as non-hazardous scrap metal. Each location was cleared in a 24-inch radius of the flag using Schonstedts.

All anomalies targeted at each of the four AOCs covered in this project were investigated by the dig teams. During the anomaly investigation summary process, the anomaly ID number, material type (MPPEH, MD, cultural debris, or non-contacts), location from pin flag, and depth information were recorded by the UXO technicians on the PDA. These data were subsequently uploaded to the database at the end of each day.

A summary of the anomaly investigation results is provided in **Appendix C**. A total of 11,739 anomalies were intrusively investigated by the dig teams. The breakdowns of items by type were MEC (2), MPPEH (304), MD (4,532), and cultural debris (6,899). The MPPEH items were further investigated and only two MEC items were identified. The MPPEH items found at the four AOCs are listed in **Table 3-2**. Of the 304 MPPEH items found during the removal effort, all were encountered in the top 10 inches of soil. The two items that were classified as MEC were one fused and unfired 37mm projectile and one MKII Grenade. A list of all 10,002 anomalies and the result of the investigation are provided in **Appendix C**.

3.8 GEOPHYSICAL QUALITY CONTROL / QUALITY ASSURANCE

The UXO QC/Safety Supervisor conducted a QC audit in accordance with the work plan QA/QC requirements. This audit included placing items at the AOCs prior to data collection to determine if they could be relocated, and a surface and subsurface check of a minimum of 10% of the anomalies investigated. In order to accomplish this, 10% of the investigated anomalies were revisited by the UXO QC and screened with the Fisher ID Exel™ all metal detectors to verify the dig teams had removed the item(s) causing the anomaly from the location.

The pass/fail criteria for clearance specified that a location would fail if, during the QC audit, a MPPEH item was found. Based on this requirement, all of the grids passed Parsons' Analog QC inspection. If a ferrous object was found, the dig team would redo the work performed that day.

Throughout the subsequent 10% QC checks of the investigated locations, only one location had a piece of MD that was not removed by the dig team investigation. As a corrective action, all the anomalies that the team had investigated that day were revisited to confirm they were cleared by the team and passed subsequent QC. No rework was required if a non-ferrous object was found during QC.

Geophysical survey QA was performed by placing simulant seed items in the geophysical mapping survey area. Additional QA was performed during the geophysical prove-outs as discussed in Section 3.6. The seed items were sections of 1-inch by 3-inch steel and 1.6-inch by 3-inch aluminum pipe placed at known locations to provide a QA check of the identification, removal and detection procedure. The locations of the buried items were surveyed using the GPS at the time of burial and a table was made of the seed item locations and orientation (see **Table 3-3**). As part of the geophysical data processing, the chosen anomaly target locations were compared to the northing and easting location of the seed items. The detection of a known item location was compared to the known (surveyed) location of the seed item. This process allowed a running QA check of the geophysical data location accuracy.

Figures 3-7 and 3-8 along with **Table 3-3** shows the location, depth, and orientation of each seed item that was placed in each area. At SEAD 007-R-01, a mix of 65 aluminum and ferrous simulant items were placed prior to data collection. All 65 items were identified during data collection and subsequently located during intrusive investigations.

At SEAD 57, 60 aluminum and ferrous simulant items were placed prior to geophysical data collection. During data collection, all 60 of the items were identified in the data but only six were investigated due to the high density of aluminum MD at the site.

4.0 ENVIRONMENTAL MEDIA INVESTIGATIONS

4.1 SOIL SAMPLING METHODOLOGY

Soil samples were collected and analyzed for chemical constituents as part of the Munitions Response project. Samples of soil from 3.5" Rocket Range (SEAD 46), the Former EOD Range (SEAD 57), the Grenade Range (SEAD 007-R-001), and EOD Areas 2 and 3 (SEAD 002-R-01) were collected in accordance with soil sampling procedures identified in Section 4 of the Munitions Response Work Plan and Explosives Safety Submission (WP), and Section 16.4.3.2 of the Site-wide Sampling and Analysis Plan, Munitions Response and CERCLA Closure (SAP). Seventy-five (75) soil samples were collected from the four AOCs. These included:

- one soil sample from the lay down material that was created from the soil that excavated from the berm at the 3.5" Rocket Range (SEAD 46) and processed for MEC/MPPEH removal;
- five soil samples from the soil that was excavated from the berm at the Former EOD Range (SEAD 57) that was processed for MEC/MPPEH;
- six soil samples from the soil excavated from the historic burn pit at the Former EOD Range (SEAD 57);
- forty-two characterization soil samples collected from the Grenade Range (SEAD 007-R-001); and,
- twenty-one characterization soil samples from the EOD Areas 2 and 3 (SEAD 002-R-01).

A summary of the soil sampling activity performed at each site for the Munitions Response project is provided below.

4.1.1 3.5" Rocket Range (SEAD 46)

The soil at SEAD 46 was previously characterized as part of a Remedial Investigation (RI) conducted between 1999 and 2000. During this work, soil from test pits, soil borings, surface soil locations and drainage channels (i.e., ditch soil) at the AOC were collected and characterized for hazardous substances (TCL VOCs, SVOC, pesticides and PCBs, TAL metal, and nitroaromatic and nitroamine compound content). Based on the RI work, which is discussed in greater detail in the report Draft "*Remedial Investigation Report for SEAD-46 and SEAD-57*" (Parsons 2001), metals were identified as the principal constituents of concern. However, review of the available data indicated that detected levels were generally consistent with levels found in the SEDA background soil data set. Based on the analytical data collected during the RI, the Army decided that additional soil samples were not needed from the 3.5" Rocket Range except in cases where a high density of suspect UXO anomalies were identified which required the soil to be excavated and processing for the removal of UXO items. When soil was excavated for processing, one confirmation soil sample was required for each 500 cys or less of excavated soil per provisions identified in the WP.

Soil from the top 6 to 12 inches of the southern face of the target berm at SEAD 46 was removed and transported to a location along the eastern edge of SEAD 57, south of the east-west access road where it was stockpiled pending inspection and processing by UXO personnel. The excavated soil was laid

out in a 1-foot lift to allow personnel to search for and identify UXO items. After the laid out soil was certified as free of MPPEH by the SUXOS, one confirmation soil sample was collected from a random location within the lift on August 29, 2006 from a depth of 0 - 2 inches below the top of the lift level. The sample was submitted to Columbia Analytical Services (CAS) for Target Analyte List (TAL) metals analysis.

4.1.2 Former EOD Range (SEAD 57)

The soil at SEAD 57 was previously characterized as part of the 1999/2000 RI, as well as part of an Expanded Site Inspection (ESI) conducted in 1993/1994. Soil samples collected during past investigations the included surface soils, subsurface soil from soil borings and test pits, and ditch soil from drainage gullies and swales located at the AOC. Again, metals were the principal constituents of concern detected at the AOC, but concentrations found were generally consistent with metal levels found in SEDA background soil. Based on the results collected during the prior investigations at SEAD 57, the Army decided that additional samples from the shallow soil were not needed for the majority of this AOC.

Two types of samples were collected from soil during the Munitions Response project at SEAD 57; confirmatory soil samples were collected from the base and the walls of the excavated Burn Pit area inside the SEAD 57 berm; and samples were collected from soil that was excavated for subsequent inspection and MEC and MPPEH processing by UXO personnel.

Five samples and one sample duplicate were collected from the excavated Burn Pit on July 24, 2006; four samples and a sample duplicate were collected from locations at the mid-points of the four side walls (sidewall depths ranged from 3.5 - 4 feet below ground surface ([bgs]), and one sample was collected from the floor of the excavated area. All soil samples were collected from 0 to 2 inches below the surface of the side wall soil and floor. The six samples from the Burn Pit excavation were submitted to the laboratory for the analysis of Target Compound List (TCL) volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), TAL metals, and nitroaromatics and nitramines.

The top 12 inches of soil (approximately 126 cys) from all exposed surfaces of the berm structure at SEAD 57 was scraped off and transported to the eastern edge of the AOC for subsequent inspection and processing by UXO personnel. In addition, the soil (approximately 42 cys) excavated from the historic Burn Pit inside the berm (see paragraph above) was transported to the staging area where it was mixed with the soil from the berm, prior to being laid out in a single lift for inspection and processing by UXO personnel.

Furthermore, shallow soils were excavated from two areas identified as SRAs located to the west and southwest of the SEAD 57 berm. This soil was subsequently transported to the staging area in the northeast corner of the AOC, where it was combined and laid down in a single lift for inspection and processing by UXO personnel. The total volume of soil excavated from these two areas was 385 cys.

Once all of the stockpiles of SEAD 57 related soils were certified free of MPPEH by the SUXOS, confirmation soil samples were collected and analyzed for metal constituents. Per specifications of

the WP, one confirmation soil sample was required per 500 cys of soil. Confirmatory soil samples from the laid out material were collected on August 29, 2006. A single confirmation soil sample was collected 0 - 2 inch bgs from the SEAD 57 berm soil and excavated Burn Pit soil. Three hundred and eighty-five yards (385 cys) of this soil was transported to the staging area where it was laid out for inspection and processing. The remainder of the excavated soil from a SRA located to the south of the berm was subsequently backfilled in place. The 385 cys of SRA soil was sub-divided into three equal areas and a surface sample (0 - 2 inch bgs) was collected from each of the three sub-divisions. Three soil samples and one sample duplicate were collected from the surface (0 - 2 inches bgs) of the SRA soil. The samples were submitted to the laboratory for TAL Metals analysis.

4.1.3 Grenade Range (SEAD 007-R-001)

Forty site characterization samples and two sample duplicates were collected from the Grenade Range (SEAD 007-R-001) during the Munitions Response project. Site characterization sample locations were chosen in accordance with the WP. The surface soil samples (0 - 2 inch bgs) were collected on December 12th and 13th, 2006 in accordance with the WP and SAP.

4.1.4 EOD Areas 2 and 3 (SEAD 002-R-01)

Twenty site characterization soil samples and one sample duplicate were collected from the Rumored EOD Range (SEAD 002-R-01) during the Munitions Response project. The Rumored EOD Range is split into two pieces (i.e., EOD Area 2 and EOD Area 3) by the Duck Pond. EOD Area 2 is located to the west of the pond and EOD Area 3 is located to the east of the pond. Site characterization sample locations were chosen in accordance with the WP. Twelve soil samples were collected from EOD Area 2; and eight soil samples and one sample duplicate were collected from EOD Area 3. All site characterization soil samples were surface samples (0 - 2 inch bgs) collected on December 11th and 12th, 2006 in accordance with the WP and SAP.

5.0 ORDNANCE AND EXPLOSIVES DEMILITARIZATION AND DISPOSAL

All MD and scrap metal items collected by UXO technicians on a daily basis were transferred to a staging area, inspected by both the SUXOS and UXO QC Supervisor, and placed into a locked storage area for temporary storage. Additional inspections were performed by the Senior UXO Supervisor (SUXOS), and again by the Senior QC (UXOQCS) Supervisor prior to being transferred to drums where a 1348-1A form was issued. Section 5.2 describes the final disposal procedures for all explosives and MD scrap metal

5.1 INTENTIONAL DETONATIONS

Demolition operations for MPPEH were conducted at the Open Detonation Hill (OD) to the north of the former Open Burning Grounds (OBG). In accordance with “Procedures for Demolition of Multiple Rounds (Consolidate Shots) on UXO Sites”, dated August 1998 and approved by DDESB on 27 October 1998. Explosives Consumption Records are included in **Appendix D**. A table showing the suspected MPPEH items and the date they were vented is included as **Table 3-2**. Venting with a shape charge was used to distinguish MEC from MD.

All demolition explosives were transferred from the Army to Parsons/USA Environmental and kept in a secure storage bunker provided by the Army. All explosives were inspected weekly while in storage and transported in accordance with the State of New York’s Department of Labor, Industrial Rule 39 and the Department of Treasury, Bureau of Alcohol, Tobacco, and Firearms (ATF) regulations.

5.2 OTHER DEMILITARIZATION PROCEDURES

All projectiles and intact MD were demilitarized by either explosive venting or by the removal/deformation of the rotating bands and fuse wells following inspections.

Following venting of all MPPEH items, thermal treatment of small arms, and/or physical demilitarization procedures, all items were disposed of off-site. A total of 4,180 pounds of cultural debris scrap metal, 618 pounds of aluminum MD and 2,689 pounds of ferrous MD scrap metal was disposed off-site. A 1348-1A form, chain of custody form, and certificate of destruction for this material is included in **Appendix D**.

5.3 DEMOBILIZATION

Demobilization of UXO personnel occurred in November 2006 following completion of the 10% QC inspection for all six areas.

6.0 SOIL INVESTIGATIONS

Soil sampling was conducted as part of the Munitions Response and CERCLA Closure work to accomplish the following:

- Demonstrate that soils remaining at the sites had not been significantly impacted by site activities at SEAD 007-R-01 and SEAD 002-R-01 since no previous sampling had been performed at these sites.
- Confirm that screened soil from SEAD 46 and SEAD 57 met site cleanup goals so it could be used as backfill on-site.

During this project, the Army collected and analyzed 21 soil samples and duplicates from SEAD 002-R-01, including 12 from EOD Area 2 and nine from EOD Area 3; and 42 soil samples from SEAD 007-R-001 (Grenade Range). All of these samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs, 49 compounds), semivolatile organic compounds (SVOCs, 65 compounds), pesticides (21 compounds), polychlorinated biphenyls (PCBs, 7 compounds); Target Analyte List (TAL) metals (23 analytes); nitroaromatics and nitroamines (16 compounds); and nitrate/nitrogen. A full listing of all of the analytes characterized in these samples is provided in **Table 6-1**. In addition, six samples were collected from the disposal pit excavation completed at SEAD 57 to determine if the disposal pit contents had contaminated the adjacent soils above site cleanup goals. Each of these samples was characterized for the same analytes as are listed above. Finally, six samples were collected from the excavated berm soils at SEAD 46 and SEAD 57 to determine if the soils could be backfilled; these samples were characterized for only TAL metals.

Results for VOC, SVOC, pesticide, PCB, and nitroaromatic or nitroamine compounds were compared to NYSDEC's Title 6 NYCRR Subpart 375-6.8(a) Unrestricted Use soil clean-up and adjusted USEPA Region IX Preliminary Remedial Goals (PRGs) for Residential Soil (October 2004 version). Analytical results for metals with comparative criteria were compared to the larger of NYSDEC's Unrestricted Use clean-up/SEDA-specific background sample results and to the larger of the adjusted Region IX PRG/SEDA-specific background sample results. In all cases, the USEPA's Region IX PRG values for residential soil were used at face value for carcinogenic compounds, while non-carcinogenic values were used at a level of one-tenth their face value. For simplicity in the ensuing discussion the combination of NYSDEC's Unrestricted Use clean-up/SEDA-specific background sample results will be referred to as NYSDEC/SEDA values, while the combination of the Region IX PRG/SEDA-specific background sample results will be referred to as EPA/SEDA values

Additional sampling and analysis had previously been performed at SEAD 46 as part of an RI that was performed between late 1999 and mid 2000, and during an RI (1999/2000) and an ESI performed at SEAD 57, the Explosive Ordnance Disposal Area, in 1993 and 1994. The samples collected at SEAD 46 and SEAD 57 included samples of soil, surface water, groundwater, and ditch soil, as well as building debris samples from a location within SEAD 57. Each of the soil samples collected at SEAD 46 and SEAD 57 were analyzed for TCL VOCs (33 compounds), SVOCs (65 compounds), pesticides/PCBs (28 compounds total including 21 pesticides and 7 PCBs); TAL metals (23

compounds) and cyanide; nitroaromatics and nitroamines (14 compounds); and nitrate/nitrogen. Additionally, soil samples collected at SEAD 57 during the ESI (1993) were also analyzed for herbicides (10 compounds). A full listing of all of the analytes characterized in these samples is provided in **Table 6-2**.

Groundwater and surface water samples were also collected from SEAD 46 and SEAD 57 and characterized for VOCs, SVOCs, nitroaromatic and nitroamines, pesticides and PCBs, metals and cyanide, as well as nitrate/nitrogen.

The results of the sampling and analysis performed at the varying locations are provided in the following sections.

6.1 GRENADE RANGE (SEAD 007-R-01)

The locations from which surface soil samples were collected at the Grenade Range (SEAD 007-R-01) are shown on **Figure 6-1**. The summary table presenting the collapsed data set for the Grenade Range based only on compounds detected in the samples is provided in **Appendix E Table 1A**. The complete data set for soil samples collected from the Grenade Range is provided in **Appendix E Table 1B**. A simplified summary listing of the soil sample data highlighting only those analytes or compounds that were found at concentrations above the varying comparative criteria identified above is provided as **Table 6-3**.

A brief summary of the Army's findings from its review of the available data is provided below.

Pesticides and PCBs, as well as nitroaromatic and nitroamine compounds, were not detected in any of the surface soil samples (0 – 2 inches below grade) collected from the Grenade Range. Eight VOCs were detected one or more times in the soil samples collected from the Grenade Range. Acetone and 2-butanone (i.e., methyl ethyl ketone) were the two compounds most frequently detected at the Grenade Range, present in 41 and 38 of the 42 samples characterized, respectively. Other VOCs detected included methylene chloride (31 times), toluene (11 times) tetrachloroethene (4 times) and cyclohexane, methyl acetate, and methyl butyl ketone (1 time each). Acetone was measured at the highest individual sample (290 µg/Kg) and overall highest average (102 µg/Kg) concentration. Methyl ethyl ketone was the found at a maximum concentration of 63 µg/Kg, and an overall average concentration of approximately 12 µg/Kg. None of the other VOCs were detected at a concentration above 12 µg/Kg in any of the samples analyzed.

Acetone was the only compound observed to exceed its NYSDEC Unrestricted Use criteria value. Thirty-two samples contained concentrations above acetone's unrestricted use level of 50µg/Kg. None of the acetone concentrations measured exceeded EPA's adjusted Region IX PRG for residential soil.

Available technical literature² indicates that soil samples treated with the preservative sodium bisulfate during the sample collection and analysis sequence generates acetone in the sample that is not present in the undisturbed soil. The Army's believes that the acetone observed in soil samples from SEAD 007-R-01 results from this source. There is no historic information that indicates that acetone was ever used or stored at this site, and its ubiquitous presence in surface samples from throughout the site makes its detection suspect. Furthermore, the general lack of other organic compounds in soil samples throughout the site make it highly unlikely that it is present as a contaminant to the other organic chemicals detected at the AOC. Finally, acetone is a common laboratory contaminant and trace levels of this compound were found in sample blanks run during the analysis.

Two SVOCs, 2,4-dinitrotoluene and benzaldehyde were detected once each in the surface soils characterized from SEAD 007-R-01. The 2,4-dinitrotoluene was detected at a concentration of 430 J³ µg/Kg; it was not detected in the duplicate sample (i.e., 450 U⁴ µg/Kg) that was collected from location 007-R-01-1037. Benzaldehyde was detected at a concentration of 420 J µg/Kg at sample location 007-R-01-1038. These compounds were detected in two different samples collected from location in the north-central and northwestern portions of the AOC (refer to **Figure 6-1**). NYSDEC has not identified an Unrestricted Use criteria value for either of these compounds. Neither of these compounds were found at concentrations that exceeded the adjusted EPA PRG values for residential soils.

Twenty metals were detected in the soil samples collected from the Grenade Range. Seventeen of the metals (i.e., Al, As, Ba, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, V and Zn) were detected in every sample characterized. The other three metals were found in more than half of the samples, each. Selenium was the only metal detected in soil samples from the Grenade Range that was observed to exceed NYSDEC/SEDA comparative values, and this was observed in two samples. The 95th UCL for selenium computed for the data set from the Grenade Range did not exceed the NYSDEC/SEDA value. None of the levels of metals detected at the Grenade Range surpassed the EPA/SEDA comparative values. Based on its review and analysis of the available soil data, it is the Army's position that the soil at SEAD 007-R-001 (Grenade Range) has not been impacted by historic operations and activities performed at this site. The Army believes that the analytical results

² See Nebelsick, John D., "USACE Sample Collection and Preparation strategies for Volatile Organic Compounds in Solids," http://www.environmental.usace.army.mil/pres_chem.htm. 1999.

Also See Clausen, Jay L., et al., "Acetone Production as a result of Sodium Bisulfate Preservation Using EPA Method 5035," The 17th Annual International Conference on Contaminated Soils, Sediments, and Water, University of Massachusetts, Amherst October 18 & 19, 2000.

Also See Uhlfelder, M., "Study of Acetone Production in SW-846 Method 5035 (Low Level) Associated with Various Preservation and Storage Conditions," 16th Annual Waste Testing and Quality Assurance Symposium, August 5th – 10th, 2000.

³ The use of a "J" qualifier for the data indicates that the concentration represents an estimated value.

⁴ The use of a "U" qualifier for the data indicates that the compound was not detected at the indicated concentration.

developed from the soil samples collected demonstrate that the soil remaining at the site is consistent with the unrestricted clean-up goals established prior to the beginning of the work at SEAD 007-R-001. Therefore, the Army does not believe that further action is needed at this site.

6.2 SEAD 002-R-01, EOD AREA 2 and 3

SEAD 002-R-01 consists of two smaller areas, identified as EOD Area 2 and EOD Area 3. The two areas are located in the north-eastern portion of the depot and they are separated from one another by the Duck Pond. The complete data set for soil samples collected from EOD Area 2 is provided in **Appendix E Table 2B**. The complete data set for soil samples collected from EOD Area 3 is provided in **Appendix E Table 3B**.

6.2.1 EOD Area 2

The locations from which surface soil samples were collected at EOD Area #2 (SEAD 002-R-01) are shown on **Figure 6-2**. A summary table presenting the collapsed data set based only on compounds detected in the samples collected within EOD Area 2 is provided in **Appendix E Table 2A**. The simplified summary listing of the soil sample data that highlights compounds that exceed the varying comparative criteria identified above for EOD Area 2 is provided as **Table 6-4**.

Pesticides and PCBs, as well as nitroaromatic and nitroamine compounds, were not detected in any of the surface soil samples (0 – 2 inches below grade) collected from EOD Area 2. Eight VOCs were detected one or more times in the soil samples collected from EOD Area 2. Methylene chloride (12 times), methyl ethyl ketone (11 times) and acetone (10 times) were the three VOCs most frequently detected in the samples collected from EOD Area 2. Other VOCs detected included toluene (3 times), and carbon disulfide, cyclohexane, methyl acetate, and methyl cyclohexane (1 time, each).

Acetone was measured at the highest individual sample (100 µg/Kg) and overall highest average (63.5 µg/Kg) concentration. None of the other VOCs detected were found at a concentration above 3 µg/Kg.

Acetone was observed to exceed NYSDEC's Unrestricted Use criteria value (i.e., 50 µg/Kg) in eight of the samples in which it was detected. However, as the Army has stated above in Section 4.1, the reported levels of acetone present in these samples are presumed to be artifacts of the sample preservation and analysis procedure used, or laboratory contamination. There are no records or evidence to indicate that acetone was ever used or stored in this area of the depot, and the lack of other organic compounds further suggest that it is not present as a co-contaminant.

Seventeen SVOCs, including the seven carcinogenic polyaromatic hydrocarbons (cPAHs), were detected either once (2 compounds) or twice (15 compounds) each in the 12 confirmatory soil samples characterized for EOD Area 2. All of the SVOCs detected were identified in the two samples collected from locations 002-R-01-1007 or 002-R-01-1008, which are located near the center or east center portions of the site (see **Figure 6-2**). The sample collected from location 002-R-01-1007 (center of the site) contained the maximum concentration for all of the SVOCs detected, exclusive of naphthalene, which was detected at its maximum level in the sample collected from 002-

R-01-1008. Twenty-nine of the concentrations reported for the SVOCs were identified as estimated (i.e., “J” qualified data) results. Fluoranthene was the PAH found at the highest individual sample concentration (750 µg/Kg). None of the detected PAH compounds were identified at concentrations that exceeded their respective Unrestricted Use criteria levels. The maximum concentration of benzo(a)pyrene toxicity equivalents (BTEQs) found in any sample from the site was identified at location 002-R-01-1007 with a level of 0.454 mg/Kg; this is well below NYSDEC’s guidance value of 10 mg/Kg. The 95th UCL concentration computed for two cPAH compounds, benzo(a)pyrene (246 µg/Kg) and dibenz(a,h)anthracene (238 µg/Kg), were observed to exceed their respective, adjusted Region IX criteria values (each 62 µg/Kg), but in both cases this is an artifact of blending non-detect levels with limited results from samples where the compounds were found to be present. The maximum concentration of benzo(a)pyrene found in any sample was 410 “J” µg/Kg, and the maximum concentration of dibenz(a,h)anthracene detected in any sample from EOD Area 2 was 59 “J” µg/Kg.

Nineteen metals were detected in the soil samples collected from EOD Area 2. Seventeen of the metals (i.e., Al, As, Ba, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, V and Zn) were detected in every sample analyzed. The other two metals were found in more than two-thirds of the samples collected and characterized.

Manganese was the only metal found at a level that exceeded its NYSDEC/SEDA unrestricted use criteria level of 2,380 mg/Kg. Manganese was found in one sample at a concentration of 2,770 mg/Kg, and this single sample represents the only time any of the NYSDEC/SEDA criteria values was exceeded in EOD Area 2. The computed 95th UCL for manganese (1,512 mg/Kg) at EOD 2 was below the NYSDEC/SEDA comparative value. None of the 95th UCL values computed for any of the metals found in soil at EOD Area 2 was found at a level in excess of the EPA/SEDA criteria levels (See **Table 6-4**).

Based on its review and analysis of the available soil data, it is the Army’s position that the soil at EOD Area 2 has not been impacted by historic operations and activities performed at this site. The Army believes that the analytical results developed from the soil samples collected demonstrates that the soil remaining within this portion of the overall site is consistent with the unrestricted use clean-up goals established prior to the beginning of the work at the EOD Areas. Therefore, the Army does not believe that further action is needed at this location.

6.2.2 EOD Area 3

The locations from which surface soil samples were collected at EOD Area #3 (SEAD 002-R-01) are shown on **Figure 6-3**. The summary table presenting the collapsed data set based only on compounds detected in the samples is provided in **Appendix E Table 3A**. The complete data set for soil samples collected from EOD Area 3 is provided in **Appendix E Table 3B**. A simplified summary listing of the soil sample data highlighting only those analytes or compounds that were found at concentration above the varying comparative criteria identified above is provided as **Table 6-5**.

SVOCs, pesticides and PCBs, as well as nitroaromatic and nitroamine compounds were not detected in any of the surface soil samples (0 – 2 inches below grade) collected from EOD Area 3. Eight VOCs were detected one or more times in the confirmatory soil samples collected. Acetone and methylene chloride were both detected in all nine samples, while methyl ethyl ketone was detected in seven of the nine soil samples characterized. Other VOCs detected included toluene (2 times), and benzene, carbon disulfide, cyclohexane, and methyl cyclohexane (1 time, each). Acetone was measured at the highest individual sample (260 µg/Kg) and overall highest average (94.7 µg/Kg) concentration. Methyl ethyl ketone was found at a maximum concentration of 23 µg/Kg, while none of the other VOCs detected were found at concentrations above 3 µg/Kg. Acetone was also the only compound observed to exceed any of the cleanup criteria evaluated, present at levels in excess of NYSDEC's Unrestricted Use criteria value (i.e., 50 µg/Kg) in six of the samples. The Army believes the acetone results as an artifact or contaminant of the sampling and analysis process.

Nineteen metals (i.e., Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, V and Zn) were detected in the soil samples collected from EOD Area 3. None of the detected metals were observed at concentrations that were in excess of their respective NYSDEC/SEDA comparative values. Comparably, none of the metals were found at concentrations that exceeded EPA/SEDA criteria values.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at EOD Area 3 has not been impacted by historic operations and activities performed at this site. Therefore, no further action is needed.

6.3 SEAD 57 BERM PIT EXCAVATION

During the Munitions Response removal action, confirmatory soil samples were collected from the walls and floor of an excavation that was completed to remove residues found in a historic burn pit that was identified within the confines of the protective berm at SEAD 57. The excavated soil and debris found within the historic pit were processed as part of the munitions response effort, and the residual soil was added to the material that remains at SEAD 57 in the soil laydown area. Analytical results from the processed soil are discussed in Section 4.4 below.

The summary table presenting the collapsed data set based only on compounds detected in the samples is provided in **Appendix E Table 4A**. The complete data set for confirmatory soil samples collected from the burn pit at SEAD 57 is provided in **Appendix E Table 4B**. A simplified summary listing of the soil sample data highlighting only those analytes or compounds that were found at concentration above the varying comparative criteria identified above at the SEAD 57 Burn Pit excavation site is provided as **Table 6-6**.

SVOCs, pesticides and PCBs, as well as nitroaromatic and nitroamine compounds, were not detected in any of the soil samples collected from the excavation encompassing the former burn pit. Two VOCs were detected at least once each in the six soil samples collected from the former burn pit excavation. Tetrachloroethene was detected in four of the six samples collected; but in each case, the concentration measured was 1.7 µg/Kg or less, and each time the data was "J" qualified. Acetone

was detected in one sample, at an estimated concentration of 2 µg/Kg. None of the detected VOCs were found at levels that exceeded their respective Unrestricted Use criteria levels.

Twenty-one metals were detected in the soil samples collected from the walls and floor of the former burn pit excavation. Of the 21 metals detected, 20 were found in every sample, while vanadium was detected in four of the six samples characterized. None of the metals found exceeded either their respective NYSDEC/SEDA or EPA/SEDA comparative values.

Based on its review and analysis of the available soil data, it is the Army's position that the soil in the area of the former SEAD 57 burn pit has not been impacted by historic operations and activities performed at this location. Therefore, no further action is needed.

6.4 SEAD 46 AND SEAD 57 LAY DOWN AREA SAMPLES

One foot of soil from the exterior surfaces of the backstop berm at SEAD 46, and from the Explosive Ordnance Disposal Area protective berm enclosure (SEAD 57) was excavated and processed to remove MD and MPPEH as part of the Munitions Response removal action. Once the excavated soil was surveyed and identified MD and MPPEH was removed, samples from the remaining soil were collected and characterized to determine residual levels of metal contaminants that were present.

The locations from which surface soil samples were collected at SEAD 46, the 3.5 inch Rocket Range are shown on **Figure 6-4**. The summary table presenting the collapsed data set based only on compounds detected in the samples is provided in **Appendix E Table 5B**. The complete data set for soil samples collected from the SEAD 46 and SEAD 57 soil stockpiles is provided in **Appendix E Table 5A**. A simplified summary listing of the SEAD 46 and SEAD 57 soil stockpile samples data highlighting only those analytes or compounds that were found at concentration above the varying comparative criteria identified above is provided as **Table 6-7**.

Twenty metals were detected in the soil samples collected from the soil stockpiles that were created from the MD/MPPEH processed soil. Of the 20 metals detected, 19 were found in every sample collected and analyzed, while selenium was detected in five of the six samples characterized. Zinc was the only metal found in the stockpiled soil that had a 95th UCL of the arithmetic average concentration (140 mg/Kg) that exceeded its NYSDEC/SEDA comparative value (126 mg/Kg). The elevated 95th UCL value for zinc is driven by the concentration reported (182 mg/Kg) for one of the six samples collected.

Based on its analysis of the available soil stockpile data, it is the Army's position that the soil has not been adversely impacted by historic operations and activities performed. Therefore, no further action is needed.

6.5 SEAD 46 REMEDIAL INVESTIGATION RESULTS

The data set for soil samples that remain at the SEAD 46 site is provided in **Appendix E, Table 6B**. This data set has been modified from that which was previously reported for SEAD 46 in the Draft "*Remedial Investigation Report for SEAD 46 and SEAD 57*" (Parsons 2001) to reflect the removal of several shallow soil samples that were originally collected from locations on the former backstop

berm structure at SEAD 46. During the Munitions Response removal action, the top foot of soil was removed from the backstop berm and transported to the vicinity of SEAD 57 for MEC/MPPEH survey and processing. Once MEC/MPPEH was removed, the residual soil was sampled and the samples were analyzed; the results of these analyses are discussed above in **Section 4.4** under the heading of “*SEAD 46 and SEAD 57 Stockpile Samples.*” The following samples and their associated data have been removed from the SEAD 46 RI data set: SS46-8, SS46-9, SS46-10, SS46-12, and SS46-14.

A summary table presenting the collapsed data set based only on compounds detected in the samples is provided in **Appendix E Table 6A**. A simplified summary listing of the SEAD 46 RI data highlighting only those analytes or compounds that were found at concentration above the varying comparative criteria identified above is provided as **Table 6-8**.

PCBs, as well as nitroaromatic and nitroamine compounds, were not detected in any of the soil samples collected from SEAD 46. Seven VOCs were detected one or more times in the soil samples collected from the SEAD 46. Acetone, toluene and methyl ethyl ketone were the three compounds most frequently detected at the site, present in 31, 29 and 24 of the 32 samples characterized, respectively. Other VOCs detected included carbon disulfide (12 times), benzene (7 times), total xylenes (7 times), and ethyl benzene (1 time).

Acetone was measured at the highest individual sample (410 µg/Kg) and overall highest average (i.e., approximately 215 µg/Kg) concentration. Methyl ethyl ketone was the found at a maximum concentration of 48 µg/Kg. None of the other VOCs were detected at a concentration above 20 µg/Kg in any of the samples analyzed.

Acetone was the only compound observed to exceed NYSDEC’s Unrestricted Use criteria. Twenty-seven samples were found to contain concentrations above the Unrestricted Use level (50 µg/Kg) for acetone. However, as has been discussed repeatedly above, it is the Army’s belief that some of the noted acetone found in these samples results due to sample preparation and processing procedures, and it is not indicative of releases that have occurred at the site.

Twenty SVOCs were detected in the soils characterized for SEAD 46. Pyrene (17 times), Fluoranthene (16 times), and benzo(b)fluoranthene, and benzo(k)fluoranthene (15 times each) were the compounds most frequently detected in the 31 samples analyzed. Di-n-butylphthalate was the SVOC detected at the highest concentration (i.e., 1,100 µg/Kg) in any single sample, followed by bis(2-ethylhexyl) phthalate (780 µg/Kg) and 2,6-dinitrotoluene (130 µg/Kg). Benzo(b)fluoranthene had the highest concentration (i.e., 47 µg/Kg) measured for any cPAH or PAH compound found at SEAD 46. None of the samples collected from this SWMU had any SVOC at a concentration in excess of their respective NYSDEC Unrestricted Use criteria levels. The maximum BTEQs concentration found in any of the samples was 0.242 mg/Kg, which is below NYSDEC’s guidance value of 10 mg/Kg. The 95th UCL value computed for benzo(a)pyrene (62.3 µg/Kg) was observed to exceed the Region IX PRG value (62 µg/Kg), but this value is skewed by non-detected values intermixed with low level detections. Benzo(a)pyrene was detected in 14 of the 31 samples collected

at a maximum detected concentration of 30 “J” $\mu\text{g}/\text{Kg}$, which is less than the Region IX PRG value (62 $\mu\text{g}/\text{Kg}$) and the NYSDEC Unrestricted Use value (1,000 $\mu\text{g}/\text{Kg}$).

Nine organochlorine pesticides were detected one or more times in the soil samples collected from SEAD 46. PCBs were not detected in any of the soil samples characterized. Dieldrin was detected in 10 of the 32 soil samples characterized, 4,4'-DDE and endrin were found in three samples each, and alpha-chlordane was found in two samples. These were the only pesticides that were detected in more than one sample collected from the site. Dieldrin was also the pesticide found at the highest individual sample concentration, present at a maximum concentration of 46 J $\mu\text{g}/\text{Kg}$ in the sample collected from location SS46-11. Three of the detected pesticides, dieldrin (2 times), and 4,4'-DDD and 4,4'-DDE (1 time, each), were found at levels above NYSDEC's Unrestricted Use criteria levels. All of the noted exceedances for pesticide compounds were found in three separate locations of the site (i.e., SS46-7, SS46-11 and SS46-18) which are separated by distances of 200 to 400 feet. Both of the noted dieldrin exceedances were only slightly higher (i.e., 45 “J” and 46 “J” $\mu\text{g}/\text{Kg}$) than NYSDEC's Unrestricted Use clean up objective level (i.e., 40 $\mu\text{g}/\text{Kg}$) and both were reported as estimated concentrations. Similarly, the concentration measured for 4,4'-DDT was estimated at 3.7 $\mu\text{g}/\text{Kg}$, which again is only slightly above NYSDEC's Unrestricted Use cleanup objective of 3.3 $\mu\text{g}/\text{Kg}$. The exceedance reported for the 4,4'-DDE was 10 $\mu\text{g}/\text{Kg}$ versus a clean up objective level of 3.3 $\mu\text{g}/\text{Kg}$. The 95th UCL concentrations computed for all organochlorine compounds at SEAD 46 were below NYSDEC's Unrestricted Use criteria levels.

Twenty-three metals were detected in the soil samples collected from SEAD 46. Fifteen of the metals (i.e., Al, As, Ba, Be, Ca, Cr, Co, Cu, Fe, Pb, Mg, Ni, K, V and Zn) were detected in every sample characterized. Three of the remaining metals, manganese, mercury and thallium, were found in more than three quarters of the samples characterized, while the remaining five metals were found in fewer than half of the samples analyzed. None of the concentrations measured for metals were found to exceed the NYSDEC/SEDA criteria levels. The 95th UCL value computed for thallium (2.05 mg/Kg) was the only one that was observed to be higher than its EPA/SEDA criteria level (1.2 mg/Kg). Thallium was detected in 30 of the 31 samples collected from SEAD 46, at a maximum concentration of 3.7 mg/Kg.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at SEAD 46 has not been impacted by historic operations and activities performed at this site. The Army believes that the analytical results developed from the soil samples collected demonstrates that the soil remaining at the site is consistent with the clean-up goals established prior to the beginning of the work at SEAD 46. Therefore, no further action is needed.

6.6 SEAD 57 EXPANDED SITE INSPECTION (1993) and REMEDIAL INVESTIGATION (1999/2000) RESULTS

The data set for soil samples that remain at the site is provided in Appendix E, Table 7B. This data set has been modified from that which was reported in the Draft “*Remedial Investigation Report for SEAD 46 and SEAD 57*” (Parsons 2001) to reflect the removal of shallow soil samples from two

locations, and a test pit sample that were previously collected from areas that were excavated during the Munitions Response removal action. The test pit sample was previously collected from location TP57-5, which is coincident with the former burn pit that was excavated. This area was excavated to a depth of greater than 3 feet to remove debris identified during the Munitions Response action. Results of confirmatory sampling from this area are summarized above in Section 4.3, SEAD 57 Burn Pit Excavation, above. One of the shallow soil samples was collected from a location (SS57-26) south of the berm structure, while the second was collected from the area west of the berm (SS57-4). Both of these areas were excavated to a depth of approximately 1 foot during the Munitions Response removal action to remove heavy concentrations of cultural anomalies that were subsequently manually scanned and sorted. The residual soil from these locations is currently contained in the lay down of soil that are discussed in Section 4.4, SEAD 46 and SEAD 57 Stockpile Samples, above.

The locations from which surface soil samples were collected at SEAD 57 are shown on **Figure 6-5**. A summary table presenting the collapsed data set based only on compounds detected in the samples is provided in **Appendix E Table 7A**. A simplified summary listing of the SEAD 57 data highlighting only those analytes or compounds that were found at concentration above the varying comparative criteria identified above is provided as **Table 6-9**.

Herbicide, nitroaromatic, and nitroamine compounds were not detected in any of the soil samples collected from SEAD 57. Nine VOCs were detected one or more times in the soil samples collected from the SEAD 57. Acetone, toluene and methyl ethyl ketone were the three compounds most frequently detected at the site, present in 94, 82 and 79 of the 127 samples characterized, respectively. Other VOCs detected included carbon disulfide (14 times), tetrachloroethene (7 times), total xylenes (3 times), methylene chloride and benzene (2 times each), and chloroform (1 time).

Acetone was measured at the highest individual sample (700 $\mu\text{g}/\text{Kg}$) and overall highest 95th UCL of the mean (~131 $\mu\text{g}/\text{Kg}$) concentration. Methyl ethyl ketone was the found at a maximum concentration of 64 $\mu\text{g}/\text{Kg}$, while toluene was detected at a maximum concentration of 33 $\mu\text{g}/\text{Kg}$. None of the other VOCs were detected at a concentration above 25 $\mu\text{g}/\text{Kg}$ in any of the samples analyzed.

Acetone was the only VOC observed to exceed NYSDEC's Unrestricted Use criteria, as it was found at concentrations above 50 $\mu\text{g}/\text{Kg}$ in 87 samples. The 95th UCL of the overall data set (195 $\mu\text{g}/\text{Kg}$) also exceeded NYSDEC's Unrestricted Use criteria value. However, the Army reiterates its belief that some if not all of the noted acetone results as an artifact of the sample collection and analysis process.

Soil samples collected from SEAD 57 were found to contain 22 SVOCs in one or more of the 118 soil samples characterized. Pyrene (62 times), Fluoranthene (60 times), and phenanthrene (44 times) were the SVOCs most frequently detected in the samples analyzed. Bis(2-ethylhexyl)phthalate was the SVOC detected at the highest concentration (i.e., 3,400 $\mu\text{g}/\text{Kg}$) in any single sample, followed by 2-methylnaphthalene (750 $\mu\text{g}/\text{Kg}$) and di-n-butylphthalate (390 $\mu\text{g}/\text{Kg}$). Chrysene had the highest concentration (i.e., 110 $\mu\text{g}/\text{Kg}$) measured for any cPAH compound detected in soil samples at this

site. None of the SVOCs detected in soil samples exhibited sample concentrations in excess of any of NYSDEC's Unrestricted Use criteria levels. Comparably, none of the 95th UCL values computed for any of the SVOCs were observed to exceed their respective NYSDEC Unrestricted Use criteria values. The 95th UCL values computed for benzo(a)pyrene (112 µg/Kg) and dibenz(a,h)anthracene (118 µg/Kg) exceeded their adjusted Region IX PRG criteria values (62 µg/Kg, each). Benzo(a)pyrene was detected in a total of 20 of the 119 samples collected from SEAD 57 at a maximum concentration of 76 "J" µg/Kg, and only two of the concentrations detected exceeded the adjusted Region IX PRG value (62 µg/Kg). Dibenz(a,h)anthracene was detected in seven of the 119 samples collected at SEAD 57 at a maximum concentration of 24 "J" µg/Kg, which is below its adjusted Region IX PRG criteria value (62 µg/Kg).

One PCB (i.e., aroclor-1260) and 13 organochlorine pesticides were detected the soil samples collected from SEAD 57. Aroclor-1260 was only found in two samples, and in both cases the concentration measured was below NYSDEC's Unrestricted Use criteria level. The pesticide 4,4'-DDE was detected most frequently in soil samples characterized (9 times), followed by 4,4'-DDD (8 times), dieldrin and alpha-chlordane (7 times, each) and 4,4'-DDT (6 times). All of the other pesticides were only found in one or two samples. The 95th UCL concentrations determined for two pesticides, 4,4'-DDD and 4,4'-DDE were the only ones that were observed to exceed NYSDEC's Unrestricted Use criteria values and in both cases the level of the observed difference were marginal (i.e., 3.32 versus 3.3 µg/Kg for 4,4'-DDE and 3.5 versus 3.3 µg/Kg for 4,4'-DDD). Three of the samples found to contain these pesticides were located in the berm structure at SEAD 57, while an additional three that contained 4,4'-DDE at levels above the unrestricted use levels were found around the former ammunition disassembly plant. None of the detected organochlorine pesticides or PCBs were detected at concentrations that surpassed their respective Region IX PRG levels for residential soils.

Twenty-three metals were detected in the soil samples collected from SEAD 57. Thirteen of the metals (i.e., Al, Ba, Be, Ca, Cr, Co, Fe, Pb, Mg, Mn, Ni, K, and V) were detected in every sample analyzed, while another three metals (i.e., As, Cu, and Zn) were found in more than 90% of the 118 samples characterized. Antimony, calcium, silver and sodium were detected in fewer than 50% of the samples collected. Five of the metals (i.e., Cd, Cu, Pb, Mn, and Zn) were found at concentrations that exceeded NYSDEC/SEDA criteria levels one or more times. Zinc was the metal found at concentrations above its NYSDEC/SEDA criteria value most frequently (7 times). Only two of the samples (TP57-2 at 3 ft bgs, 1250 mg/Kg; and SD57-16 at 0 to 2 inches, 487 mg/Kg) were found to contain concentrations at levels that exceeded the SEDA maximum background concentration (126 mg/Kg) by more than a factor of 3. However, zinc's 95th UCL concentration was approximately 108 mg/Kg, which is below its NYSDEC/SEDA criteria value of 126 mg/Kg.

Cadmium was found in three samples at concentrations that exceeded its NYSDEC/SEDA criteria value (i.e., 2.9 mg/Kg). Two of these samples showed concentrations that were more than 2 times the background concentration and these were collocated in a sample and sample duplicate pair that were collected from ditch soil location SD57-11. This location is approximately 300 feet northwest of the

berm structure. The 95th UCL concentrations computed for cadmium at SEAD 57 was 2.43 mg/Kg which is less than its NYSDEC/SEDA (2.9 mg/Kg) and adjusted Region IX PRG (3.7 mg/Kg) criteria values.

With reference to the other metals that were observed at concentrations above the Unrestricted Use criteria values, only three (i.e., Cu, Pb, and Mn) were found at levels higher than SEDA-background concentrations one time each. Of these metals, only copper and lead showed values that were more than 10 percent higher than the range of concentration observed in SEDA background soils. Both of these high concentrations were found in a soil sample that was collected from TP57-2, which was excavated 3 feet into the berm at SEAD 57.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at SEAD 57 has not been adversely impacted by historic operations and activities performed at this site. The Army believes that the analytical results developed from the soil samples collected demonstrates that the soil remaining at the site is consistent with the clean-up goals established prior to the beginning of the work at SEAD 57. Therefore, no further action is needed.

7.0 CONCLUSIONS

Between May 2006 and November 2006, Parsons performed a munitions removal and CERCLA closure project at four AOCs at the Seneca Army Depot in Seneca County, New York.. In general, the results of the project performed at Seneca Army Depot for SEAD 46, SEAD 57, SEAD 007-R-01, SEAD 002-R-01, EOD Disassembly areas and SEAD 57 buffer area indicate that all MPPEH has been cleared from these sites. A total of two of the 11,742 identified anomalies which were investigated were found to be MEC. The only two items found were associated with the buffer area north of SEAD 57 which may be indicative of the kick out from the Open Detonation Grounds. The Army believes that no additional munitions response activities and No Further Action are required at these sites. The conclusions from each individual site are provided below.

7.1 SEAD 007-R-01 (Grenade Range)

During the anomaly investigation and surface sweep of the Grenade Range, a total of 218 potential MPPEH items were found. All potential MPPEH items found were related to the M73 Practice LAW Rocket. The 40mm practice grenade found at this site has an inertia driven expelling system with no explosive material, and therefore cannot be classified as MPPEH. Of the 218 M73 Sub-caliber rounds found, none were found to have the rocket motor intact. All had been functioned previously. Based on these reasons, all of the potential MPPEH items were reclassified as MD. All 218 of these rounds were brought to the demolition area and disposed of by detonation. SEAD 007-R-01 is considered cleared of MPPEH. This investigation was also expanded to include the surface sweep and 25% geophysical survey of the EOD disassembly areas on the Grenade Range road. During this investigation, the 11 areas on the Grenade Range road had 25% of the area investigated with the EM61MK2 towed array. From this investigation 352 targets were identified as anomalies to be investigated by the dig teams. Throughout this investigation, six MPPEH items were recovered (Table 3-3) two 37mm, three 57mm target practice projectiles that contain a tracer and the fuse of a 2.35-inch rocket without the base. All of these items were classified as MD upon venting the items to reveal that they were solid projectiles with no filler.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at SEAD 007-R-001 (Grenade Range) has not been impacted by historic operations and activities performed at this AOC. The Army believes that the analytical results developed from the soil samples collected demonstrate that the soil remaining at the AOC is consistent with the clean-up goals established prior to the beginning of the work at SEAD 007-R-001. Therefore, the Army does not believe that further action is needed at this AOC.

7.2 SEAD 002-R-01, EOD Areas 2 and 3

7.2.1 EOD Area 2

Two suspected MPPEH items were found at EOD Area 2 and were later determined to be Munitions Debris based on the final determination by the SUXOS after venting of the items. The two items found were an electric squibb that was determined to be expended previously and the body of an M16 APERS. The M16 APERS was found by the survey team conducting a boundary survey of the pond

low water mark. This item was found without a fuse but due to the mud and debris that filled the case, the item was vented to dispose of any explosive residue that may have remained.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at EOD Area 2 has not been impacted by historic operations and activities performed at this AOC. The Army believes that the analytical results developed from the soil samples collected demonstrates that the soil remaining within this portion of the overall AOC is consistent with the clean-up goals established prior to the beginning of the work at SEAD 002-R-01. Therefore, the Army does not believe that further action is needed at this location

7.2.2 EOD Area 3

No MPPEH items were found during the geophysical anomaly investigation or the expanded handheld investigation of the unmapped area. SEAD 002-R-01 is considered cleared of MPPEH.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at SEAD 002-R-01, EOD Area #3 has not been impacted by historic operations and activities performed at this AOC. Therefore, no further action is needed.

7.3 SEAD 46 (Former 3.5-inch Rocket Range)

During the investigation of SEAD 46, 2054 anomalies were investigated. No MEC items were found and 16 suspected MPPEH items were found. All 16 suspected items were found to be MD after they were vented. The locations of the MD items suggest that the SEAD 46 berm was not used as a target for anything other than small arms practice. All of the MD items are actually found in areas located away from the berm, mostly to the south. Based on the discovery of inert landmines and a sign that identifies the area as a practice minefield for EOD and military training exercises, this was most likely the use of the site. There were no identifiable pieces or complete 3.5-inch rockets found during any of the three previous investigations. Based on the results of this investigation and the past investigations, SEAD 46 is considered cleared of MPPEH.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at SEAD 46 has not been impacted by historic operations and activities performed at this AOC. The Army believes that the analytical results developed from the soil samples collected demonstrates that the soil remaining at the AOC is consistent with the clean-up goals established prior to the beginning of the work at SEAD 46. Therefore, no further action is needed

7.4 SEAD 57 (Former EOD Range)

The only MEC items encountered during this project were found in the SEAD 57 buffer area north of SEAD 57 including one fused unfired 37mm projectile in Grid 57 K-16 and a MKII grenade located in 57K-18 as shown on Figure 3-4c. These items are believed to be kick out items from the Open Detonation Grounds located to the north of SEAD 57. This hypothesis is supported by the fact that most ferrous MD items at SEAD 57 were found north of Building T011 and were not found within the high density 400 foot radius from the SEAD 57 berm. Figure 3-4c identifies all ferrous and aluminum MD items that were recovered as part of the SEAD 57 investigation. In this figure, the

ferrous MD items are concentrated to the north of Building T011. The pattern of the aluminum MD clearly radiates out from the center of the SEAD 57 berm in a circular pattern that begins to taper off after 250 feet. The ferrous MD can be generally seen in a similar radial pattern with its origin point to the north where the Open Detonation Grounds is located. This figure supports the contention that the two ferrous MEC items found north of Building T011 in the SEAD 57 buffer area were generated as kick out from the OB/OD area and not a result of activities that took place at SEAD 57.

Out of the 7,485 anomalies investigated at SEAD 57 (woods transects, buffer area and SEAD 57) 47 MPPEH items (listed on Table 3-2) were found at SEAD 57. Of the 47 items found during this investigation, all but the two from the buffer area were determined to be MD upon venting of the items during the disposal process. SEAD 57 is considered cleared of MPPEH and No Further Action is required.

Based on its review and analysis of the available soil data, it is the Army's position that the soil at SEAD 57 has not been adversely impacted by historic operations and activities performed at this AOC. The Army believes that the analytical results developed from the soil samples collected demonstrates that the soil remaining at the AOC is consistent with the clean-up goals established prior to the beginning of the work at SEAD 57. Therefore, no further action is needed

**Table 3-1
Summary of Intrusive Investigations**

	SEAD 57	SEAD 57 Buffer Area	SEAD 46	SEAD 007-R-01	SEAD 002-R-01 EOD Area 2	SEAD 002-R-01 EOD Area 3	Woods Transects 46 & 57	Local Training Areas B through L
Munitions Debris	2,377	428	585	670	5	8	428	31
MEC	0	2	0	0	0	0	0	0
MPPEH	46	15	16	221	2	0	0	6
Cultural Debris	3,224	354	1,009	654	42	256	1,045	315
Dig Totals	5,647	799	1,610	1,545	49	264	1,473	352
Total Anomalies Investigated 11,739								

Notes: 1) **Bold** entries are geophysical anomaly targets; others are mag and flag targets.

2) This table indicates anomaly location numbers. Multiple items could have been found at one location.

**Table 3-2
MPPEH Items Encountered During Intrusive Investigations 5/7/06 to 11/09/06**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SEAD 57	Date Investigated	Classification	Quantity	Depth (in)	Final Disposition	Location	Comment
20mm Projectile	6/8/2006	MD	3	6	Disposal 6/21/05	SEAD 57	
20mm	6/8/2006	MD	1	3	Disposal 6/21/05	SEAD 57	
20mm	6/8/2006	MD	1	2	Disposal 6/21/05	SEAD 57	
BLU 26B	6/14/2006	MD	1	5	Disposal 6/14/06	SEAD 57	
BLU 3	6/15/2006	MD	1	3	Disposal 6/21/05	SEAD 57	
BLU 63	6/14/2006	MD	1	3	Disposal 6/21/05	SEAD 57	
WAAMPM BLU 54	6/14/2006	MD	1	3	Disposal 6/21/05	SEAD 57	
2.36 inch Rocket warhead	6/20/2006	MD	2	5	Disposal 6/21/05	SEAD 57	
M127 - Signal Ground	6/20/2006	MD	1	6	Disposal 9/27/06	SEAD 57	* Surface Sweep
20mm Projo	6/19/2006	MD	4	6	Disposal 9/27/06	SEAD 57	
37mm APT	6/21/2006	MD	5	6	Disposal 9/27/06	SEAD 57	
40mm TPT	6/20/2006	MD	4	0	Disposal 9/27/06	SEAD 57	* Recovered in excavated material
57mm AP	6/21/2006	MD	1	10	Disposal 9/27/06	SEAD 57	
3" Stokes Mortar	8/9/2006	MD	1	2	Disposal 9/27/06	SEAD 57	
3" Stokes Mortar	10/26/2006	MD	14	8	Disposal 11/07/06	SEAD 57	* 10 found together
MK 25 Signal (drift)	7/5/2006	MD	4	5	Disposal 9/27/06	SEAD 57	
MK 5 Nose Fuse	7/5/2006	MD	1	0	Disposal 9/27/06	SEAD 57	

46

SEAD 57 Buffer Area							
MKII Grenade (1)	10/3/2006	MEC	1	6	Disposal 10/16/06	SEAD 57 Buffer	MEC
37mm HEAT(1)	10/3/2006	MEC	1	4	Disposal 10/16/06	SEAD 57 Buffer	MEC
2.36 inch Rocket warhead	10/3/2006	MD	5	4	Disposal 10/16/06	SEAD 57 Buffer	
20mm	10/3/2006	MD	8	7	Disposal 10/16/06	SEAD 57 Buffer	

15

SEAD 46							
75mm Projo	8/23/2006	MD	1	8	Disposal 9/27/06	SEAD 46	
75mm Projo	9/5/2006	MD	1	10	Disposal 09/05/06	SEAD 46	
MK-5 AT (UK)	8/28/2006	MD	1	2	Disposal 9/27/06	SEAD 46	
Type 93 (Japan)	8/28/2006	MD	1	4	Disposal 9/27/06	SEAD 46	
MK7A2 (USA)	8/28/2006	MD	1	6	Disposal 9/27/06	SEAD 46	
M10 Landmine fuse	8/28/2006	MD	1	4	Disposal 9/27/06	SEAD 46	
30MM TP	8/23/2006	MD	4	2	Disposal 9/27/06	SEAD 46	
M103 Nose Fuse	8/29/2006	MD	1	2	Disposal 9/27/06	SEAD 46	
M123 Tail Fuse	8/23/2006	MD	1	3	Disposal 9/27/06	SEAD 46	
VT Nose Fuse	8/23/2006	MD	1	5	Disposal 9/27/06	SEAD 46	
M27 Star Flare (Aircraft)	8/23/2006	MD	1	3	Disposal 9/27/06	SEAD 46	
M48 Fuse	7/5/2006	MD	1	0	Disposal 9/27/06	SEAD 46	* Surface Sweep
M60 Rifle Smoke Grenade	8/24/2006	MD	1	2	Disposal 9/27/06	SEAD 46	

16

EOD Area 2							
Electric Squibb	8/3/2006	MD	1	4	Disposal 9/27/06	EOD2	
M16 APERS	8/30/2006	MD	1	0	Disposal 9/27/06	EOD2	* Surface Sweep

2

Grenade Range							
M73 - Sub caliber round		MD	221	9	Disposal 9/27/06	GR	

221

Local Training Areas B through L							
57mm APT	7/31/2006	MD	1	3	Disposal 9/27/06	LTAs	
37mm APT	10/10/2006	MD	2	4	Disposal 10/16/06	LTAs	Found with 2.36 inch rocket
57mm APT	10/10/2006	MD	2	3	Disposal 10/16/06	LTAs	
2.36 inch Rocket warhead	10/10/2006	MD	1	4	Disposal 10/16/06	LTAs	

6

TOTAL:			306				
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(1) Only two items subsequently found to be MEC

**Table 3-3
GEOPHYSICAL QUALITY ASSURANCE SEED ITEM RESULTS EVALUATION**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Location	Seed Item ID	Northing	Easting	Elevation	Description (units are inches unless otherwise noted)	Depth (inches)	Orientation (degrees clockwise from grid north)	Inclination (degrees from vertical unless otherwise noted)	Detected in EM data?	Detected Mag Data	Anomaly ID	Comments
SEAD-57	S57-seed001	1009540.153	738687.376	743.324	1.6 x 3 Al	6	90		Yes			
SEAD-57	S57-seed002	1009505.236	738675.289	742.309	1.6 x 3 Al	6	90		Yes			
SEAD-57	S57-seed003	1009439.477	738660.295	740.779	1.6 x 3 Al	6	180	Vertical	Yes			
SEAD-57	S57-seed004	1009393.735	738663.918	740.138	1.6 x 3 Al	3	45		Yes			
SEAD-57	S57-seed005	1009393.734	738663.78	740.06	1 x 3 Fe	6	180		Yes	Yes		
SEAD-57	S57-seed006	1009187.373	738596.437	739.536	1.6 x 3 Al	6	90		Yes			
SEAD-57	S57-seed007	1009081.039	738636.353	738.017	1.6 x 3 Al	6	0	Vertical	Yes			
SEAD-57	S57-seed008	1009016.455	738679.623	737.938	1.6 x 3 Al	3	45		Yes			
SEAD-57	S57-seed009	1008958.522	738720.381	737.838	1.6 x 3 Al	6	90		Yes			
SEAD-57	S57-seed010	1008882.057	738775.025	738.043	1.6 x 3 Al	6	0		Yes			
SEAD-57	S57-seed011	1008826.35	738794.817	737.804	1.6 x 3 Al	3	0	Vertical	Yes			
SEAD-57	S57-seed012	1008823.258	738861.536	737.881	1.6 x 3 Al	3	90		Yes			
SEAD-57	S57-seed013	1008841.862	738907.091	738.75	1.6 x 3 Al	3	0	Vertical	Yes			
SEAD-57	S57-seed014	1008899.992	738925.144	738.762	1 x 3 Fe	6	45		Yes	Yes		
SEAD-57	S57-seed015	1008974.969	738944.021	738.75	1.6 x 3 Al	6	80	45	Yes			
SEAD-57	S57-seed016	1009055.569	738984.624	739.897	1 x 3 Fe	6	80		Yes	Yes		
SEAD-57	S57-seed017	1009096.678	739040.633	741.095	1.6 x 3 Al	4	25	45	Yes			
SEAD-57	S57-seed018	1009155.494	739082.916	741.098	1.6 x 3 Al	6	60		Yes			
SEAD-57	S57-seed019	1009193.795	739194.195	740.084	1.6 x 3 Al	6	70		Yes		K08-127	
SEAD-57	S57-seed020	1009238.494	739259.623	740.032	1.6 x 3 Al	6	0	Vertical	Yes		P57M08-106	
SEAD-57	S57-seed021	1009266.849	739311.5	739.602	1.6 x 3 Al	6	0		Yes			
SEAD-57	S57-seed022	1009343.086	739219.649	740.59	1.6 x 3 Al	4	90		Yes		P57K10-097	
SEAD-57	S57-seed023	1009381.987	739175.989	741.04	1.6 x 3 Al	6	45		Yes			
SEAD-57	S57-seed024	1009374.91	739096.957	741.49	1 x 3 Fe	6	180		Yes	Yes		
SEAD-57	S57-seed025	1009366.698	739017.527	740.897	1.6 x 3 Al	6	180	30	Yes		J10-012	
SEAD-57	S57-seed026	1009388.143	738981.704	740.861	1 x 3 Fe	6	70		Yes	Yes	I11-043	
SEAD-57	S57-seed027	1009436.924	738939.067	740.543	1.6 x 3 Al	6	0	Vertical	Yes			
SEAD-57	S57-seed028	1009408.979	738883.451	739.972	1 x 3 Fe	6	140		Yes	Yes	I11005	
SEAD-57	S57-seed029	1009363.441	738831.597	739.229	1 x 3 Fe	6	180		Yes	Yes		
SEAD-57	S57-seed030	1009301.043	738838.645	739.433	1 x 3 Fe	6	120		Yes	Yes		
SEAD-57	S57-seed031	1009273.314	738808.809	738.95	1.6 x 3 Al	4	180		Yes			

Notes

1-Coordinates are U.S. State Plane, NY Central, units are U.S. survey feet

P:\PIT\Projects\Seneca Munitions Response\Completion Report\CERCLA Completion Report\table 3-3_SEAD57_Seed_Item Locations.xls\TABLE-2 Seeded_Items_COE Data

**Table 3-3
GEOPHYSICAL QUALITY ASSURANCE SEED ITEM RESULTS EVALUATION**

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Location	Seed Item ID	Northing	Easting	Elevation	Description (units are inches unless otherwise noted)	Depth (inches)	Orientation (degrees clockwise from grid north)	Inclination (degrees from vertical unless otherwise noted)	Detected in EM data?	Detected Mag Data	Anomaly ID	Comments
SEAD-57	S57-seed032	1009236.831	738774.981	738.662	1.6 x 3 Al	6	180		Yes			Alum Scrap found in hole
SEAD-57	S57-seed033	1009195.46	738739.26	738.56	1.6 x 3 Al	6	60	45	Yes			
SEAD-57	S57-seed034	1009119.641	738744.727	737.819	1.6 x 3 Al	6	200	45	Yes		G08-040	
SEAD-57	S57-seed035	1009042.146	738747.87	737.241	1 x 3 Fe	6	140		Yes	Yes	G08-010	
SEAD-57	S57-seed036	1008952.616	738789.967	737.212	1.6 x 3 Al	6	60		Yes			
SEAD-57	S57-seed037	1009076.578	738855.785	738.03	1.6 x 3 Al	6	10		Yes			Alum Scrap found in hole
SEAD-57	S57-seed038	1009133.233	738874.663	739.344	1.6 x 3 Al	6	330		Yes			Alum Scrap found in hole
SEAD-57	S57-seed039	1009250.911	738936.271	740.173	1 x 3 Fe	6	0	Vertical	Yes	Yes	110-021	
SEAD-57	S57-seed040	1009256.749	739047.689	740.885	1.6 x 3 Al	6	120		Yes			
SEAD-57	S57-seed041	1009277.069	739161.273	740.951	1.6 x 3 Al	6	210		Yes			
SEAD-57	S57-seed042	1009454.039	739195.921	741.93	1.6 x 3 Al	6	90	45	Yes		P57K10-033	
SEAD-57	S57-seed043	1009513.1	739118.585	742.523	1.6 x 3 Al	6	0		Yes			
SEAD-57	S57-seed044	1009536.783	739005.134	742.696	1.6 x 3 Al	6	40	45	Yes			
SEAD-57	S57-seed045	1009568.248	738882.624	741.924	1 x 3 Fe	6	40		Yes	Yes		
SEAD-57	S57-seed046	1009513.08	738817.304	739.771	1.6 x 3 Al	6	300		Yes			
SEAD-57	S57-seed047	1009460.89	738753.535	739.418	1.6 x 3 Al	6	40		Yes		G11-027	
SEAD-57	S57-seed048	1009376.218	738740.932	738.407	1.6 x 3 Al	6	180	45	Yes		G10-047	
SEAD-57	S57-seed049	1009277.96	738714.808	738.645	1.6 x 3 Al	6	0	Vertical	Yes			
SEAD-57	S57-seed050	1009301.414	738633.169	737.801	1.6 x 3 Al	6	340		Yes			
SEAD-57	S57-seed051	1009402.129	738624.509	738.666	1.6 x 3 Al	6	0	45	Yes			
SEAD-57	S57-seed052	1009538.381	738731.459	740.311	1.6 x 3 Al	6	0		Yes			
SEAD-57	S57-seed053	1009583.12	738823.683	741.153	1 x 3 Fe	6		Vertical	Yes	Yes		
SEAD-57	S57-seed054	1009517.005	738897.246	740.974	1.6 x 3 Al	6	70		Yes			
SEAD-57	S57-seed055	1009476.105	739007.908	742.201	1.6 x 3 Al	6	180	45	Yes			
SEAD-57	S57-seed056	1009447.655	739140.356	742.125	1.6 x 3 Al	6	180		Yes			
SEAD-57	S57-seed057	1009443.763	739279.456	741.517	1.6 x 3 Al	6		Vertical	Yes		P57M10-082	
SEAD-57	S57-seed058	1009595.676	739143.145	743.044	1.6 x 3 Al	3	255		Yes			Anomaly found 6 ft North of
SEAD-57	S57-seed059	1009602.57	739046.284	743.297	1.6 x 3 Al	6	0	Vertical	Yes			
SEAD-57	S57-seed060	1009615.141	738948.61	743.369	1.6 x 3 Al	6	0		Yes			

Notes

1-Coordinates are U.S. State Plane, NY Central, units are U.S. survey feet

P:\PIT\Projects\Seneca Munitions Response\Completion Report\CERCLA Completion Report\table 3-3_SEAD57_Seed_Item locations.xls\TABLE-2 Seeded_Items_COE Data

**Table 3-3
GEOPHYSICAL QUALITY ASSURANCE SEED ITEM RESULTS EVALUATION**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Location	Seed Item ID	Northing	Easting	Elevation	Description (units are inches unless otherwise noted)	Depth (inches)	Orientation (degrees clockwise from grid north)	Inclination (degrees from vertical unless otherwise noted)	Detected in EM data?	Detected Magn Data	Anomaly ID	Comments
Grenade Range	GR-seed01	1007920.18	737545.312	726.233	1.5 x 3 Steel	7	230		Yes	NA	GRD3-009	
Grenade Range	GR-seed02	1007979.329	737499.866	725.369	1.5 x 3 Steel	10	0		Yes	NA	GRC3-110	
Grenade Range	GR-seed03	1008050.526	737517.3	725.346	1.6 x 3 Al	6	260		Yes	NA	GRD4-012	
Grenade Range	GR-seed04	1008118.368	737556.614	723.949	1.5 x 3 Steel	6	0	Vertical	Yes	NA	GRD4-017	
Grenade Range	GR-seed05	1008173.162	737497.732	723.162	1.5 x 3 Steel	8	320	45	Yes	NA	GRC4-054	
Grenade Range	GR-seed06	1008221.129	737483.075	723.218	1.6 x 3 Al	8	160	45	Yes	NA	GRC4-051	
Grenade Range	GR-seed07	1008272.961	737520.423	724.743	1.5 x 3 Steel	6	260		Yes	NA	GRD5-001	
Grenade Range	GR-seed08	1008334.99	737544.064	724.606	1.5 x 3 Steel	6	245		Yes	NA	GRD5-028	
Grenade Range	GR-seed09	1008399.142	737470.198	723.588	1.5 x 3 Steel	8	0	45	Yes	NA	GRC5-144	
Grenade Range	GR-seed10	1008495.034	737506.297	721.439	1.5 x 3 Steel	8	260		Yes	NA	GRD5-020	
Grenade Range	GR-seed11	1008558.515	737470.684	721.246	1.6 x 3 Al	8	350	45	Yes	NA	GRC6-185	
Grenade Range	GR-seed12	1008635.154	737499.597	722.957	1.5 x 3 Steel	6	0	Vertical	Yes	NA	GRC6-121	
Grenade Range	GR-seed13	1008677.023	737464.682	722.714	1.5 x 3 Steel	8	310		Yes	NA	GRC6-160	
Grenade Range	GR-seed14	1008728.029	737490.721	722.965	1.5 x 3 Steel	8		Vertical	Yes	NA	GRC6-156	
Grenade Range	GR-seed15	1008746.17	737445.767	722.814	1.5 x 3 Steel	8	40	30	Yes	NA	GRC6-152	
Grenade Range	GR-seed16	1008776.737	737408.471	721.956	1.6 x 3 Al	6	160	45	Yes	NA	GRC7-002	
Grenade Range	GR-seed17	1008706.559	737352.4	720.186	1.5 x 3 Steel	8	120	45	Yes	NA	GRC6-134	
Grenade Range	GR-seed18	1008650.312	737323.323	719.905	1.6 x 3 Al	8		Vertical	Yes	NA	GRC6-092	
Grenade Range	GR-seed19	1008588.89	737398.789	720.879	1.5 x 3 Steel	8		Vertical	Yes	NA	GRC6-120	
Grenade Range	GR-seed20	1008528.478	737373.947	719.834	1.5 x 3 Steel	8	150		Yes	NA	GRC6-020	
Grenade Range	GR-seed21	1008464.472	737344.358	720.915	1.5 x 3 Steel	8	90		Yes	NA	GRC5-181	
Grenade Range	GR-seed22	1008409.661	737317.358	720.761	1.5 x 3 Steel	8	0	45	Yes	NA	GRC5-001	
Grenade Range	GR-seed23	1008330.473	737373.935	722.619	1.6 x 3 Al	8	0	45	Yes	NA	GRC5-123	
Grenade Range	GR-seed24	1008191.89	737373.824	722.398	1.5 x 3 Steel	6	80		Yes	NA	GRC4-044	
Grenade Range	GR-seed25	1008130.351	737434.388	723.83	1.5 x 3 Steel	6	80		Yes	NA	GRC4-057	
Grenade Range	GR-seed26	1008050.764	737410.782	724.443	1.5 x 3 Steel	8	130	30	Yes	NA	GRC4-061	
Grenade Range	GR-seed27	1007999.848	737367.046	724.128	1.5 x 3 Steel	8	60		Yes	NA	GRGAP-015	
Grenade Range	GR-seed28	1007956.185	737332.331	724.3	1.5 x 3 Steel	8	0	45	Yes	NA	GRC3-086	
Grenade Range	GR-seed29	1007900.714	737322.413	724.171	1.5 x 3 Steel	8		Vertical	Yes	NA	GRC3-048	
Grenade Range	GR-seed30	1007878.334	737427.008	725.254	1.5 x 3 Steel	8	0		Yes	NA	GRC3-122	

Notes

1-Coordinates are U.S. State Plane, NY Central, units are U.S. survey feet

P:\PJT\Projects\Seneca Munitions Response\Completion Report\CERCLA Completion Report\table 3-3_Grenade_Range_Seed_Item locations.xls\TABLE-2 Seeded_Items_COE Data

**Table 3-3
GEOPHYSICAL QUALITY ASSURANCE SEED ITEM RESULTS EVALUATION**

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Location	Seed Item ID	Northing	Easting	Elevation	Description (units are inches unless otherwise noted)	Depth (inches)	Orientation (degrees clockwise from grid north)	Inclination (degrees from vertical unless otherwise noted)	Detected in EM data?	Detected Mag. Data	Anomaly ID	Comments
Grenade Range	GR-seed31	1007840.829	737244.629	724.416	1.5 x 3 Steel	6	330		Yes	NA	GRB3-89	
Grenade Range	GR-seed32	1007866.257	737200.049	724.478	1.6 x 3 Al	8	95		Yes	NA	GRB3-102	
Grenade Range	GR-seed33	1007878.936	737153.891	724.629	1.5 x 3 Steel	8		Vertical	Yes	NA	GRB3-108	
Grenade Range	GR-seed34	1007914.874	737081.649	725.016	1.5 x 3 Steel	8	110		Yes	NA	GRB3-030	
Grenade Range	GR-seed35	1007976.893	737044.338	724.272	1.6 x 3 Al	6	250	45	Yes	NA	GRB3-034	
Grenade Range	GR-seed36	1008022.668	737083.795	724.017	1.5 x 3 Steel	8	220	10	Yes	NA	GRB4-027	
Grenade Range	GR-seed37	1008068.632	737126.214	723.596	1.5 x 3 Steel	8	280		Yes	NA	GRB4-019	
Grenade Range	GR-seed38	1008116.611	737183.875	722.755	1.5 x 3 Steel	8	210	45	Yes	NA	GRB4-012	
Grenade Range	GR-seed39	1008155.772	737234.497	721.687	1.5 x 3 Steel	8	270		Yes	NA	GRB4-066	
Grenade Range	GR-seed40	1008199.424	737271.416	721.633	1.6 x 3 Al	8		Vertical	Yes	NA	GRC4-023	
Grenade Range	GR-seed41	1008233.464	737223.491	721.717	1.5 x 3 Steel	8	330		Yes	NA	GRB4-041	
Grenade Range	GR-seed42	1008245.997	737173.2	722.083	1.5 x 3 Steel	6	290		Yes	NA	GRB4-047	
Grenade Range	GR-seed43	1008277.134	737121.522	721.771	1.5 x 3 Steel	8		Vertical	Yes	NA	GRB5-116	
Grenade Range	GR-seed44	1008292.86	737042.134	721.694	1.6 x 3 Al	8	330	45	Yes	NA	GRB5-121	
Grenade Range	GR-seed45	1008339.604	737012.801	721.216	1.5 x 3 Steel	8	15		Yes	NA	GRB5-123	
Grenade Range	GR-seed46	1008382.389	737050.977	721.34	1.5 x 3 Steel	6		Vertical	Yes	NA	GRB5-091	
Grenade Range	GR-seed47	1008409.2	737100.924	720.408	1.5 x 3 Steel	8	30	30	Yes	NA	GRB5-074	
Grenade Range	GR-seed48	1008454.281	737169.3	720.029	1.6 x 3 Al	8	40	10	Yes	NA	GRB5-038	
Grenade Range	GR-seed49	1008478.234	737227.666	719.352	1.5 x 3 Steel	8		Vertical	Yes	NA	GRB5-042	
Grenade Range	GR-seed50	1008507.815	737273.68	719.688	1.6 x 3 Al	8	18	45	Yes	NA	GRC6-056	
Grenade Range	GR-seed51	1008561.94	737158.792	719	1.5 x 3 Steel	8	317		Yes	NA	GRB6-175	
Grenade Range	GR-seed52	1008598.317	737112.67	719.707	1.5 x 3 Steel	8	240	45	Yes	NA	GRB6-049	
Grenade Range	GR-seed53	1008609.435	737043.249	719.764	1.5 x 3 Steel	8	330		Yes	NA	GRB6-038	
Grenade Range	GR-seed54	1008606.752	736986.282	718.611	1.5 x 3 Steel	8	15		Yes	NA	GRA6-011	
Grenade Range	GR-seed55	1008621.087	736934.833	718.087	1.5 x 3 Steel	8	260	45	Yes	NA	GRA6-001	
Grenade Range	GR-seed56	1008523.749	736944.856	718.936	1.5 x 3 Steel	8		Vertical	Yes	NA	GRA6-021	
Grenade Range	GR-seed57	1008414.403	736944.842	719.134	1.5 x 3 Steel	8	160		Yes	NA	GRA6-24	
Grenade Range	GR-seed58	1008234.749	736951.009	719.78	1.5 x 3 Steel	8	170		Yes	NA	GRA4-002	
Grenade Range	GR-seed59	1008108.945	736968.101	721.242	1.5 x 3 Steel	8		Vertical	Yes	NA	GRA4-001	
Grenade Range	GR-seed60	1007982.124	736978.471	722.446	1.5 x 3 Steel	8	260	10	Yes	NA	GRA3-002	
Grenade Range	GR-seed61	1007837.528	737039.834	724.681	1.5 x 3 Steel	8	185		Yes	NA	GRB3-026	
Grenade Range	GR-seed62	1007790.509	737142.611	725.515	1.5 x 3 Steel	8	310	45	Yes	NA	GRB3-010	
Grenade Range	GR-seed63	1007785.546	737245.662	725.082	1.5 x 3 Steel	8	250	30	Yes	NA	GRB3-089	
Grenade Range	GR-seed64	1007773.731	737322.135	724.301	1.5 x 3 Steel	8	195		Yes	NA	GEB3-009	
Grenade Range	GR-seed65	1007816.125	737489.861	725.803	1.5 x 3 Steel	8	280	30	Yes	NA	GRC3-128	

Notes

1-Coordinates are U.S. State Plane, NY Central, units are U.S. survey feet

P:\PIT\Projects\Seneca Munitions Response\Completion Report\CERCLA Completion Report\table 3-3_Grenade_Range_Seed_Item locations.xls\TABLE-2 Seeded_Items_COE Data

Table 6-1
Analytes in Soil Samples - Munitions Response

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Volatile Organic Compounds

1,1,1-Trichloroethane	Cis-1,3-Dichloropropene
1,1,2,2-Tetrachloroethane	Cyclohexane
1,1,2-Trichloro-1,2,2-Trifluoroethane	Dichlorodifluoromethane
1,1,2-Trichloroethane	Ethyl benzene
1,1-Dichloroethane	Isopropylbenzene
1,1-Dichloroethene	Meta/Para Xylene
1,2,4-Trichlorobenzene	Methyl Acetate
1,2-Dibromo-3-chloropropane	Methyl Tertbutyl Ether
1,2-Dibromoethane	Methyl bromide
1,2-Dichlorobenzene	Methyl butyl ketone
1,2-Dichloroethane	Methyl chloride
1,2-Dichloropropane	Methyl cyclohexane
1,3-Dichlorobenzene	Methyl ethyl ketone
1,4-Dichlorobenzene	Methyl isobutyl ketone
Acetone	Methylene chloride
Benzene	Ortho Xylene
Bromodichloromethane	Styrene
Bromoform	Tetrachloroethene
Carbon disulfide	Toluene
Carbon tetrachloride	Trans-1,2-Dichloroethene
Chlorobenzene	Trans-1,3-Dichloropropene
Chlorodibromomethane	Trichloroethene
Chloroethane	Trichlorofluoromethane
Chloroform	Vinyl chloride
Cis-1,2-Dichloroethene	

**Table 6-1
Analytes in Soil Samples - Munitions Response**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Semivolatile Organic Compounds

1,1'-Biphenyl	Benzo(ghi)perylene
2,4,5-Trichlorophenol	Benzo(k)fluoranthene
2,4,6-Trichlorophenol	Bis(2-Chloroethoxy)methane
2,4-Dichlorophenol	Bis(2-Chloroethyl)ether
2,4-Dimethylphenol	Bis(2-Chloroisopropyl)ether
2,4-Dinitrophenol	Bis(2-Ethylhexyl)phthalate
2,4-Dinitrotoluene	Butylbenzylphthalate
2,6-Dinitrotoluene	Caprolactam
2-Chloronaphthalene	Carbazole
2-Chlorophenol	Chrysene
2-Methylnaphthalene	Di-n-butylphthalate
2-Methylphenol	Di-n-octylphthalate
2-Nitroaniline	Dibenz(a,h)anthracene
2-Nitrophenol	Dibenzofuran
3,3'-Dichlorobenzidine	Diethyl phthalate
3-Nitroaniline	Dimethylphthalate
4,6-Dinitro-2-methylphenol	Fluoranthene
4-Bromophenyl phenyl ether	Fluorene
4-Chloro-3-methylphenol	Hexachlorobenzene
4-Chloroaniline	Hexachlorobutadiene
4-Chlorophenyl phenyl ether	Hexachlorocyclopentadiene
4-Methylphenol	Hexachloroethane
4-Nitroaniline	Indeno(1,2,3-cd)pyrene
4-Nitrophenol	Isophorone
Acenaphthene	N-Nitrosodiphenylamine
Acenaphthylene	N-Nitrosodipropylamine
Acetophenone	Naphthalene
Anthracene	Nitrobenzene
Atrazine	Pentachlorophenol
Benzaldehyde	Phenanthrene
Benzo(a)anthracene	Phenol
Benzo(a)pyrene	Pyrene
Benzo(b)fluoranthene	

Explosives

1,3,5-Trinitrobenzene	4-Nitrotoluene
1,3-Dinitrobenzene	4-amino-2,6-Dinitrotoluene
2,4,6-Trinitrotoluene	HMX
2,4-Dinitrotoluene	Nitrobenzene
2,6-Dinitrotoluene	Nitroglycerine
2-Nitrotoluene	Pentaerythritol Tetranitrate
2-amino-4,6-Dinitrotoluene	RDX
3-Nitrotoluene	Tetryl

Table 6-1
Analytes in Soil Samples - Munitions Response

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

PCBs

Aroclor-1016	Aroclor-1248
Aroclor-1221	Aroclor-1254
Aroclor-1232	Aroclor-1260
Aroclor-1242	

Pesticides

4,4'-DDD	Endosulfan sulfate
4,4'-DDE	Endrin
4,4'-DDT	Endrin aldehyde
Aldrin	Endrin ketone
Alpha-BHC	Gamma-BHC/Lindane
Alpha-Chlordane	Gamma-Chlordane
Beta-BHC	Heptachlor
Delta-BHC	Heptachlor epoxide
Dieldrin	Methoxychlor
Endosulfan I	Toxaphene
Endosulfan II	

Metals

Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Beryllium	Potassium
Cadmium	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Thallium
Copper	Vanadium
Iron	Zinc
Lead	

Other Analyses

Nitrate Nitrogen	Percent Solids
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Table 6-2
Analytes in Soil Samples - Remedial Investigation

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Volatile Organic Compounds

1,1,1-Trichloroethane	Chloroform
1,1,2,2-Tetrachloroethane	Cis-1,3-Dichloropropene
1,1,2-Trichloroethane	Ethyl benzene
1,1-Dichloroethane	Methyl bromide
1,1-Dichloroethene	Methyl butyl ketone
1,2-Dichloroethane	Methyl chloride
1,2-Dichloroethene (total)	Methyl ethyl ketone
1,2-Dichloropropane	Methyl isobutyl ketone
Acetone	Methylene chloride
Benzene	Styrene
Bromodichloromethane	Tetrachloroethene
Bromoform	Toluene
Carbon disulfide	Total Xylenes
Carbon tetrachloride	Trans-1,3-Dichloropropene
Chlorobenzene	Trichloroethene
Chlorodibromomethane	Vinyl chloride
Chloroethane	

Table 6-2
Analytes in Soil Samples - Remedial Investigation

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Semivolatile Organic Compounds

1,2,4-Trichlorobenzene	Benzo(b)fluoranthene
1,2-Dichlorobenzene	Benzo(ghi)perylene
1,3-Dichlorobenzene	Benzo(k)fluoranthene
1,4-Dichlorobenzene	Bis(2-Chloroethoxy)methane
2,2'-oxybis(1-Chloropropane)	Bis(2-Chloroethyl)ether
2,4,5-Trichlorophenol	Bis(2-Chloroisopropyl)ether
2,4,6-Trichlorophenol	Bis(2-Ethylhexyl)phthalate
2,4-Dichlorophenol	Butylbenzylphthalate
2,4-Dimethylphenol	Carbazole
2,4-Dinitrophenol	Chrysene
2,4-Dinitrotoluene	Di-n-butylphthalate
2,6-Dinitrotoluene	Di-n-octylphthalate
2-Chloronaphthalene	Dibenz(a,h)anthracene
2-Chlorophenol	Dibenzofuran
2-Methylnaphthalene	Diethyl phthalate
2-Methylphenol	Dimethylphthalate
2-Nitroaniline	Fluoranthene
2-Nitrophenol	Fluorene
3,3'-Dichlorobenzidine	Hexachlorobenzene
3-Nitroaniline	Hexachlorobutadiene
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene
4-Bromophenyl phenyl ether	Hexachloroethane
4-Chloro-3-methylphenol	Indeno(1,2,3-cd)pyrene
4-Chloroaniline	Isophorone
4-Chlorophenyl phenyl ether	N-Nitrosodiphenylamine
4-Methylphenol	N-Nitrosodipropylamine
4-Nitroaniline	Naphthalene
4-Nitrophenol	Nitrobenzene
Acenaphthene	Pentachlorophenol
Acenaphthylene	Phenanthrene
Anthracene	Phenol
Benzo(a)anthracene	Pyrene
Benzo(a)pyrene	

Explosives

1,3,5-Trinitrobenzene	3-Nitrotoluene
1,3-Dinitrobenzene	4-Nitrotoluene
2,4,6-Trinitrotoluene	4-amino-2,6-Dinitrotoluene
2,4-Dinitrotoluene	HMX
2,6-Dinitrotoluene	Nitrobenzene
2-Nitrotoluene	RDX
2-amino-4,6-Dinitrotoluene	Tetryl

Table 6-2
Analytes in Soil Samples - Remedial Investigation

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Pesticides and PCBs

4,4'-DDD	Delta-BHC
4,4'-DDE	Dieldrin
4,4'-DDT	Endosulfan I
Aldrin	Endosulfan II
Alpha-BHC	Endosulfan sulfate
Alpha-Chlordane	Endrin
Aroclor-1016	Endrin aldehyde
Aroclor-1221	Endrin ketone
Aroclor-1232	Gamma-BHC/Lindane
Aroclor-1242	Gamma-Chlordane
Aroclor-1248	Heptachlor
Aroclor-1254	Heptachlor epoxide
Aroclor-1260	Methoxychlor
Beta-BHC	Toxaphene

Herbicides

2,4,5-T	Dicamba
2,4,5-TP/Silvex	Dichloroprop
2,4-D	Dinoseb
2,4-DB	MCPA
Dalapon	MCPP

Metals

Aluminum	Lead
Antimony	Magnesium
Arsenic	Manganese
Barium	Mercury
Beryllium	Nickel
Cadmium	Potassium
Calcium	Selenium
Chromium	Silver
Cobalt	Sodium
Copper	Thallium
Cyanide	Vanadium
Iron	Zinc

**Table 6-3
Grenade Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration Detected	95th UCL Concentration	NYSDEC Unrestricted Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (2)	95th UCL Above Residential PRG Value
Volatile Organic Compounds										
Acetone	UG/KG	41	42	290	124	50	32	YES	1,412,657	NO
Cyclohexane	UG/KG	1	42	1.5	4.0	NA	--	--	14,000	NO
Methyl Acetate	UG/KG	1	42	11	8.3	NA	--	--	2,208,674	NO
Methyl butyl ketone	UG/KG	1	42	8.1	8.1	NA	--	--	NA	--
Methyl ethyl ketone	UG/KG	38	42	63	14	120	0	NO	2,231,120	NO
Methylene chloride	UG/KG	31	42	4.6	2.5	50	0	NO	9,107	NO
Tetrachloroethene	UG/KG	4	42	2.4	4.0	1300	0	NO	484	NO
Toluene	UG/KG	11	42	8.7	4.5	700	0	NO	52,000	NO
Semivolatile Organic Compounds										
2,4-Dinitrotoluene	UG/KG	1	42	430	245	NA	--	--	12,221	NO
Benzaldehyde	UG/KG	1	42	420	245	NA	--	--	611031	NO
Metals										
Aluminum	MG/KG	42	42	19,600	15,771	NA	--	--	20,500*	NO
Arsenic	MG/KG	42	42	9.3	3.9	21.5*	0	NO	21.5	NO
Barium	MG/KG	42	42	180	115	350	0	NO	537	NO
Beryllium	MG/KG	41	42	1.1	0.85	7.2	0	NO	15	NO
Cadmium	MG/KG	24	42	0.25	0.120	2.9*	0	NO	3.7	NO
Calcium	MG/KG	42	42	11,100	3,381	NA	--	--	NA	--
Chromium	MG/KG	42	42	27.7	22.7	NA	--	--	10,000	NO
Cobalt	MG/KG	42	42	23.5	11.1	NA	--	--	903	NO
Copper	MG/KG	42	42	23.1	17.8	62.8*	0	NO	313	NO
Iron	MG/KG	42	42	32,300	23,107	NA	--	--	38,600*	NO
Lead	MG/KG	42	42	38.5	23.3	266*	0	NO	266	NO
Magnesium	MG/KG	42	42	5,230	3,925	NA	--	--	NA	--
Manganese	MG/KG	42	42	1,880	632	2380*	0	NO	2,380*	NO
Mercury	MG/KG	42	42	0.08	0.057	0.18	0	NO	2.3	NO
Nickel	MG/KG	42	42	31.9	24.1	62.3*	0	NO	156	NO
Potassium	MG/KG	42	42	2,370	1,828	NA	--	--	NA	--
Selenium	MG/KG	42	42	4.4	2.5	3.9	2	NO	39	NO
Sodium	MG/KG	27	42	54.7	55.0	NA	--	--	NA	--
Vanadium	MG/KG	42	42	33.5	28.7	NA	--	--	32.7*	NO
Zinc	MG/KG	42	42	110	83.1	126*	0	NO	2,346	NO

**Table 6-3
Grenade Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration Detected	95th UCL Concentration	NYSDEC Unrestricted Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (2)	95th UCL Above Residential PRG Value
Other Analytes										
Nitrate Nitrogen	MG/KG	24	42	10.6	6.86	NA	--	--	NA	
Percent Solids	%	42	42	79.3		NA	--	--	NA	

Notes:

(1) NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.8(a) or maximum SEDA-specific background concentration. SEDA-specific values identified in bolded text.

(2) Adjusted USEPA Region IXs Residential Soil PRG or maximum SEDA-specific background concentration.

Presence of an asterik (*) next to a value indicates that it is a SEDA-specific background concentration.

If Region IX value is used, carcinogenic compounds set at 1 X EPA value, non-carcinogenic compounds set at 0.1 X EPA value.

(3) Highlighted cells indicate that the Maximum or 95th UCL concentration value(s) are greater than the comparative value.

Sample/Duplicate pairs are evaluated as separate and discrete samples in this table.

NA = Not Available or Not Applicable.

**Table 6-4
EOD Area 2 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration Detected	95th UCL Concentration	NYSDEC Unrestricted Use Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (2)	95th UCL Above Residential PRG Value
Volatile Organic Compounds										
Acetone	UG/KG	10	12	100	73	50	8	YES	1,412,657	NO
Carbon disulfide	UG/KG	1	12	2.4	7.7	NA	--	--	35,534	NO
Cyclohexane	UG/KG	1	12	0.88	3.8	NA	--	--	14,000	NO
Methyl Acetate	UG/KG	1	12	2.8	7.6	NA	--	--	2,208,674	NO
Methyl cyclohexane	UG/KG	1	12	1.1	3.8	NA	--	--	259,106	NO
Methyl ethyl ketone	UG/KG	11	12	15	7.6	120	0	NO	2,231,120	NO
Methylene chloride	UG/KG	12	12	2.3	1.9	50	0	NO	9,107	NO
Toluene	UG/KG	3	12	1.4	4.6	700	0	NO	52,000	NO
Semivolatile Organic Compounds										
Acenaphthene	UG/KG	2	12	98	231	20,000	0	NO	368,171	NO
Anthracene	UG/KG	2	12	240	237	100,000	0	NO	2,189,612	NO
Benzo(a)anthracene	UG/KG	2	12	410	266	1,000	0	NO	621	NO
Benzo(a)pyrene	UG/KG	2	12	310	246	1,000	0	NO	62	YES
Benzo(b)fluoranthene	UG/KG	2	12	230	235	1,000	0	NO	621	NO
Benzo(ghi)perylene	UG/KG	2	12	150	232	100,000	0	NO	NA	--
Benzo(k)fluoranthene	UG/KG	2	12	300	244	800	0	NO	6,215	NO
Carbazole	UG/KG	2	12	120	232	NA	--	--	24,319	NO
Chrysene	UG/KG	2	12	350	253	1,000	0	NO	62,146	NO
Dibenz(a,h)anthracene	UG/KG	1	12	59	238	330	0	NO	62	YES
Dibenzofuran	UG/KG	1	12	51	239	7,000	0	NO	14,526	NO
Fluoranthene	UG/KG	2	12	750	354	100,000	0	NO	229,361	NO
Fluorene	UG/KG	2	12	100	231	30,000	0	NO	274,711	NO
Indeno(1,2,3-cd)pyrene	UG/KG	2	12	150	232	500	0	NO	621	NO
Naphthalene	UG/KG	2	12	45	286	12,000	0	NO	5,592	NO
Phenanthrene	UG/KG	2	12	720	350	100,000	0	NO	NA	--
Pyrene	UG/KG	2	12	520	294	100,000	0	NO	231,595	NO
B(a)P Toxicity Equivalents (3)	UG/KG	2	12	454	-	10,000 (3)	0	NO	NA	--

**Table 6-4
EOD Area 2 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration Detected	95th UCL Concentration	NYSDEC Unrestricted Use Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (2)	95th UCL Above Residential PRG Value
Metals										
Aluminum	MG/KG	12	12	18,100	16,097	NA	--	--	20,500*	NO
Arsenic	MG/KG	12	12	4.5	3.6	21.5*	0	NO	21.5*	NO
Barium	MG/KG	12	12	144	107	350	0	NO	537	NO
Beryllium	MG/KG	11	12	0.91	0.96	7.2	0	NO	15	NO
Cadmium	MG/KG	8	12	0.61	0.20	2.9*	0	NO	3.7	NO
Calcium	MG/KG	12	12	19,200	13,416	NA	--	--	NA	--
Chromium	MG/KG	12	12	26.8	23.9	NA	--	--	10,000	NO
Cobalt	MG/KG	12	12	19.4	12.2	NA	--	--	903	NO
Copper	MG/KG	12	12	37.3	22.1	62.8*	0	NO	313	NO
Iron	MG/KG	12	12	28,200	25,037	NA	--	--	38,600*	NO
Lead	MG/KG	12	12	27.9	22.3	266*	0	NO	266*	NO
Magnesium	MG/KG	12	12	6,620	4,864	NA	--	--	NA	--
Manganese	MG/KG	12	12	2,770	1,512	2,380*	1	NO	2,380*	NO
Mercury	MG/KG	12	12	0.06	0.05	0.18	0	NO	2.3	NO
Nickel	MG/KG	12	12	49.9	30.8	62.3*	0	NO	156	NO
Potassium	MG/KG	12	12	2,040	1,672	NA	--	--	NA	--
Selenium	MG/KG	12	12	2.6	2.1	3.9	0	NO	39	NO
Vanadium	MG/KG	12	12	33.8	29.8	NA	--	--	32.7*	NO
Zinc	MG/KG	12	12	79.2	73.7	126*	0	NO	2,346	NO
Other Analytes										
Nitrate Nitrogen	MG/KG	4	12	9.21	6.05	NA	--	--	NA	--
Percent Solids	%	12	12	90.3		NA	--	--	NA	--

Notes:

(1) NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.8(a) or maximum SEDA-specific background concentration. SEDA-specific values identified in bolded text.

(2) Adjusted USEPA Region IXs Residential Soil PRG or maximum SEDA-specific background concentration.

Presence of an asterik (*) next to a value indicates that it is a SEDA-specific background concentration.

If Region IX value is used, carcinogenic compounds set at 1 X EPA value, non-carcinogenic compounds set at 0.1 X EPA value.

(3) NYSDEC's Division of Environmental Remediations's Benzo(a)pyrene Toxicity Equivalents guidance value.

(4) Highlighted cells indicate that the Maximum or 95th UCL concentration value(s) are greater than the comparative value.

Sample/Duplicate pairs are evaluated as separate and discrete samples in this table.

NA = Not Available or Not Applicable

**Table 6-5
EOD Area 3 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration Detected	95th UCL Concentration	NYSDEC Unrestricted Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (2)	95th UCL Above Residential PRG Value
Volatile Organic Compounds										
Acetone	UG/KG	9	9	260	138	50	6	YES	1,412,657	NO
Benzene	UG/KG	1	9	0.49	5.5	60	0	NO	643	NO
Carbon disulfide	UG/KG	1	9	0.79	11	NA	--	--	35,534	NO
Cyclohexane	UG/KG	1	9	1.2	4.3	NA	--	--	14,000	NO
Methyl cyclohexane	UG/KG	1	9	1.3	4.3	NA	--	--	259,106	NO
Methyl ethyl ketone	UG/KG	7	9	23	13	120	0	NO	2,231,120	NO
Methylene chloride	UG/KG	9	9	2.5	1.9	50	0	NO	9,107	NO
Toluene	UG/KG	2	9	0.55	4.2	700	0	NO	52,000	NO
Metals										
Aluminum	MG/KG	9	9	16,600	15,559	NA	--	--	20,500*	NO
Arsenic	MG/KG	9	9	5.1	4.3	21.5*	0	NO	21.5*	NO
Barium	MG/KG	9	9	163	124	350	0	NO	537	NO
Beryllium	MG/KG	9	9	0.95	0.82	7.2	0	NO	15	NO
Cadmium	MG/KG	6	9	0.2	0.2	2.9*	0	NO	3.7	NO
Calcium	MG/KG	9	9	105,000	126,997	NA	--	--	NA	--
Chromium	MG/KG	9	9	24	22	NA	--	--	10,000	NO
Cobalt	MG/KG	9	9	10.6	9.52	NA	--	--	903	NO
Copper	MG/KG	9	9	28.7	23.5	62.8*	0	NO	313	NO
Iron	MG/KG	9	9	23,300	22,138	NA	--	--	38,600*	NO
Lead	MG/KG	9	9	25.3	23.1	266*	0	NO	266*	NO
Magnesium	MG/KG	9	9	14,000	7,036	NA	--	--	NA	--
Manganese	MG/KG	9	9	751	600	2,380*	0	NO	2,380*	NO
Mercury	MG/KG	9	9	0.09	0.08	0.18	0	NO	2.3	NO
Nickel	MG/KG	9	9	27	25	62.3*	0	NO	156	NO
Potassium	MG/KG	9	9	2,150	1,816	NA	--	--	NA	--
Selenium	MG/KG	9	9	2.9	2.1	3.9	0	NO	39	NO
Vanadium	MG/KG	9	9	30.6	29.0	NA	--	--	32.7*	NO
Zinc	MG/KG	9	9	101	87.8	126*	0	NO	2,346	NO
Other Analytes										
Nitrate Nitrogen	MG/KG	3	9	8.1	6.3	NA	--	--	NA	--
Percent Solids	%	9	9	82		NA	--	--	NA	--

Notes:

(1) NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.8(a) or maximum SEDA-specific background concentration. SEDA-specific values identified in bolded text.

(2) Adjusted USEPA Region IXs Residential Soil PRG or maximum SEDA-specific background concentration.

Presence of an asterik (*) next to a value indicates that it is a SEDA-specific background concentration.

If Region IX value is used, carcinogenic compounds set at 1 X EPA value, non-carcinogenic compounds set at 0.1 X EPA value.

(3) Highlighted cells indicate that the Maximum or 95th UCL concentration value(s) are greater than the comparative value.

Sample/Duplicate pairs are evaluated as separate and discrete samples in this table.

NA = Not Available or Not Applicable.

**Table 6-6
SEAD 57 Berm Pit Excavation Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration	95th UCL Concentration	NYSDEC Unrestricted Use Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (3)	95th UCL Above Residential RPRG Value
Volatile Organic Compounds										
Acetone	UG/KG	1	6	2	14.5	50	0	NO	1,412,657	NO
Tetrachloroethene	UG/KG	4	6	1.7	2.2	1300	0	NO	484	NO
Metals										
Aluminum	MG/KG	6	6	22,500	19,851	NA	--	--	20,500*	NO
Arsenic	MG/KG	6	6	4.7	4.0	21.5*	0	NO	21.5*	NO
Barium	MG/KG	6	6	183	148	350	0	NO	537	NO
Beryllium	MG/KG	6	6	1.1	0.99	7.2	0	NO	15.4	NO
Cadmium	MG/KG	6	6	0.21	0.19	2.9*	0	NO	3.7	NO
Calcium	MG/KG	6	6	87,100	56,177	NA	--	--	NA	--
Chromium	MG/KG	6	6	31.1	30.4	NA	--	--	10,000	NO
Cobalt	MG/KG	6	6	14	13.6	NA	--	--	903	NO
Copper	MG/KG	6	6	37.5	36.0	62.8*	0	NO	313	NO
Iron	MG/KG	6	6	30,900	30,008	NA	--	--	38,600*	NO
Lead	MG/KG	6	6	17.1	15.7	266	0	NO	266	NO
Magnesium	MG/KG	6	6	10,800	9,438	NA	--	--	NA	--
Manganese	MG/KG	6	6	462	443	2,380*	0	NO	2,380*	NO
Mercury	MG/KG	6	6	0.03	0.03	0.18	0	NO	2.3	NO
Nickel	MG/KG	6	6	59.2	53.0	62.3*	0	NO	156	NO
Potassium	MG/KG	6	6	2,880	2,368	NA	--	--	NA	--
Selenium	MG/KG	4	6	1	0.9	3.9	0	NO	39	NO
Silver	MG/KG	6	6	0.38	0.36	2	0	NO	39	NO
Sodium	MG/KG	6	6	130	105	NA	--	--	NA	--
Vanadium	MG/KG	6	6	39.9	32.5	NA	--	--	32.7*	NO
Zinc	MG/KG	6	6	124	124	126*	0	NO	2,346	NO
Other Analytes										
Nitrate Nitrogen	MG/KG	2	6	6.32	5.30	NA	--	--	NA	--
Percent Solids	%	6	6	91.9		NA	--	--	NA	--

Notes:

(1) NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.8(a) or maximum SEDA-specific background concentration. SEDA-specific values identified in bolded text.

(2) Adjusted USEPA Region IXs Residential Soil PRG or maximum SEDA-specific background concentration.

Presence of an asterik (*) next to a value indicates that it is a SEDA-specific background concentration.

If Region IX value is used, carcinogenic compounds set at 1 X EPA value, non-carcinogenic compounds set at 0.1 X EPA value.

(3) Highlighted cells indicate that the Maximum or 95th UCL concentration value(s) are greater than the comparative value.

Sample/Duplicate pairs are evaluated as separate and discrete samples in this table.

NA = Not Available or Not Applicable.

**Table 6-7
SEAD 46 and SEAD 57 Stockpile Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration	95th UCL Concentration	NYSDEC Unrestricted Use Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (3)	95th UCL Above Residential PRG Value
Metals										
Aluminum	MG/KG	6	6	18,600	17,491	NA	--	--	20,500*	NO
Arsenic	MG/KG	6	6	8.9	7.3	21.5*	0	NO	21.5*	NO
Barium	MG/KG	6	6	148	144	350	0	NO	537	NO
Beryllium	MG/KG	6	6	0.86	1.22	7.2	0	NO	15	NO
Cadmium	MG/KG	6	6	1.9	1.3	2.9*	0	NO	3.7	NO
Calcium	MG/KG	6	6	43,900	43,380	NA	--	--	NA	--
Chromium	MG/KG	6	6	30.1	27.7	NA	--	--	10,000	NO
Cobalt	MG/KG	6	6	13.8	12.7	NA	--	--	903	NO
Copper	MG/KG	6	6	58.2	45.0	62.8*	0	NO	313	NO
Iron	MG/KG	6	6	28,000	27,034	NA	--	--	38,600*	NO
Lead	MG/KG	6	6	132	99.4	266*	0	NO	266*	NO
Magnesium	MG/KG	6	6	8,870	7,186	NA	--	--	NA	--
Manganese	MG/KG	6	6	733	665	2,380*	0	NO	2,380*	NO
Mercury	MG/KG	6	6	0.06	0.06	0.18	0	NO	1.3	NO
Nickel	MG/KG	6	6	45.7	39.4	62.3*	0	NO	156	NO
Potassium	MG/KG	6	6	2,190	2,173	NA	--	--	NA	--
Selenium	MG/KG	5	6	1.8	1.4	3.9	0	NO	39	NO
Sodium	MG/KG	6	6	97.6	79.2	NA	--	--	NA	--
Vanadium	MG/KG	6	6	34.8	32.4	NA	--	--	32.7*	NO
Zinc	MG/KG	6	6	182	140	126*	1	YES	2,346	NO
Other Analytes										
Percent Solids	%	6	6	82.8		NA	--	--	NA	--

Notes:

(1) NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.8(a) or maximum SEDA-specific background concentration. SEDA-specific values identified in bolded text.

(2) Adjusted USEPA Region IXs Residential Soil PRG or maximum SEDA-specific background concentration.

Presence of an asterik (*) next to a value indicates that it is a SEDA-specific background concentration.

If Region IX value is used, carcinogenic compounds set at 1 X EPA value, non-carcinogenic compounds set at 0.1 X EPA value.

(3) Highlighted cells indicate that the Maximum or 95th UCL concentration value(s) are greater than the comparative value.

Sample/Duplicate pairs are evaluated as separate and discrete samples in this table.

NA = Not Available or Not Applicable.

**Table 6-8
SEAD 46 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Value	95th UCL Value	NYSDEC Unrestricted Use Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Values (3)	95th UCL Above Residential PRG Value
Volatile Organic Compounds										
Acetone	UG/KG	30	30	410	245	50	27	YES	1,412,657	NO
Benzene	UG/KG	7	30	12	7.42	60	0	NO	643	NO
Carbon disulfide	UG/KG	12	31	20	7.55	NA	--	--	35,534	NO
Ethyl benzene	UG/KG	1	29	1	6.33	1000	0	NO	39,500	NO
Methyl ethyl ketone	UG/KG	23	30	48	24.4	120	0	NO	2,231,120	NO
Toluene	UG/KG	28	31	13	7.15	700	0	NO	52,000	NO
Total Xylenes	UG/KG	7	30	7	7.00	260	0	NO	27,063	NO
Semivolatile Organic Compounds										
2,6-Dinitrotoluene	UG/KG	1	31	130	52.9	NA	--	--	6,110	NO
4-Methylphenol	UG/KG	2	31	13	46.5	330	0	NO	30,552	NO
Benzo(a)anthracene	UG/KG	7	31	34	70.9	1000	0	NO	621	NO
Benzo(a)pyrene	UG/KG	14	31	30	62.3	1000	0	NO	62	YES
Benzo(b)fluoranthene	UG/KG	15	31	47	64.6	1000	0	NO	621	NO
Benzo(ghi)perylene	UG/KG	1	31	17	60.1	100000	0	NO	NA	--
Benzo(k)fluoranthene	UG/KG	15	31	33	64.0	800	0	NO	6,215	NO
Bis(2-Ethylhexyl)phthalate	UG/KG	3	31	780	179	NA	--	--	34,741	NO
Chrysene	UG/KG	10	31	40	68.6	1000	0	NO	62,146	NO
Di-n-butylphthalate	UG/KG	6	31	1,100	217	NA	--	--	611,031	NO
Diethyl phthalate	UG/KG	1	31	11	74.4	NA	--	--	4,888,248	NO
Fluoranthene	UG/KG	16	31	36	61.4	10000	0	NO	229,361	NO
Hexachlorobenzene	UG/KG	1	31	11	60.1	330	0	NO	304	NO
Hexachloroethane	UG/KG	1	31	9.9	60.1	NA	--	--	34,741	NO
Indeno(1,2,3-cd)pyrene	UG/KG	2	31	19	59.5	500	0	NO	621	NO
N-Nitrosodiphenylamine	UG/KG	2	31	59	47.5	NA	--	--	99,261	NO
Naphthalene	UG/KG	1	31	3.5	75.5	12000	0	NO	5,592	NO
Phenanthrene	UG/KG	14	31	25.1	103	10000	0	NO	NA	--
Phenol	UG/KG	10	31	33	68.4	330	0	NO	1,833,093	NO
Pyrene	UG/KG	17	31	32	60.2	100000	0	NO	231,595	NO
B(a)P Toxicity Equivalents (4)	UG/KG	20	31	242	53.1	10000 (3)	0	NO	NA	--

**Table 6-8
SEAD 46 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Value	95th UCL Value	NYSDEC Unrestricted Use Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Values (3)	95th UCL Above Residential PRG Value
Pesticides and PCBs										
4,4'-DDD	UG/KG	1	31	12	3.07	3.3	1	NO	2,437	NO
4,4'-DDE	UG/KG	3	31	3.7	2.38	3.3	1	NO	1,720	NO
Alpha-Chlordane	UG/KG	2	31	3.5	1.35	94	0	NO	1,624	NO
Dieldrin	UG/KG	10	31	46	15.9	40	2	NO	30	NO
Endosulfan I	UG/KG	1	31	5.8	1.55	2400	0	NO	NA	--
Endosulfan II	UG/KG	1	31	2.3	2.32	2400	0	NO	NA	--
Endrin	UG/KG	3	31	5.1	2.53	14	0	NO	1,833	NO
Endrin ketone	UG/KG	1	31	3.1	2.36	NA	--	--	NA	--
Gamma-Chlordane	UG/KG	1	31	1.9	1.22	94	0	NO	1,624	NO
Metals and Cyanide										
Aluminum	MG/KG	31	31	16,500	13,686	NA	--	--	20,500*	NO
Antimony	MG/KG	4	18	0.73	0.40	NA	--	--	6.55*	NO
Arsenic	MG/KG	31	31	7.9	5.28	21.5*	0	NO	21.5*	NO
Barium	MG/KG	31	31	152	103	350	0	NO	537	NO
Beryllium	MG/KG	31	31	1.2	0.89	7.2	0	NO	15	NO
Cadmium	MG/KG	1	31	0.09	0.04	2.9*	0	NO	3.7	NO
Calcium	MG/KG	31	31	69,300	25,198	NA	--	--	NA	--
Chromium	MG/KG	31	31	26.3	19.4	32.7*	0	NO	10,000	NO
Cobalt	MG/KG	31	31	20	11.6	NA	--	--	903	NO
Copper	MG/KG	31	31	41.15	26.7	62.8*	0	NO	313	NO
Iron	MG/KG	31	31	39,100	26,502	NA	--	--	38,600*	NO
Lead	MG/KG	31	31	73	31.9	266*	0	NO	266*	NO
Magnesium	MG/KG	31	31	12,800	6,801	NA	--	--	NA	--
Manganese	MG/KG	30	31	1,170	636	2,380*	0	NO	2,380	NO
Mercury	MG/KG	25	31	0.17	0.10	0.18	0	NO	2.3	NO
Nickel	MG/KG	31	31	47.4	31.9	62.3*	0	NO	156	NO
Potassium	MG/KG	31	31	1,770	1,337	NA	--	--	NA	--
Selenium	MG/KG	2	31	0.81	0.34	3.9	0	NO	39	NO
Silver	MG/KG	1	31	0.3175	0.21	2	0	NO	39	NO
Sodium	MG/KG	14	31	272	102	NA	--	--	NA	--
Thallium	MG/KG	30	31	3.7	2.05	NA	--	--	1.2*	YES
Vanadium	MG/KG	31	31	29.3	23.9	NA	--	--	32.7*	NO
Zinc	MG/KG	31	31	115	77.5	126*	0	NO	2,346	NO

**Table 6-8
SEAD 46 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Value	95th UCL Value	NYSDEC Unrestricted Use Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Values (3)	95th UCL Above Residential PRG Value
Other Analytes										
Nitrate/Nitrite Nitrogen	MG/KG	25	26	2.2	2.76	NA	--	--	NA	--
Percent Solids	% WW	31	31	89.5		NA	--	--	NA	--

Notes:

- (1) NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.8(a) or maximum SEDA-specific background concentration. SEDA-specific values identified in bolded text.
- (2) Adjusted USEPA Region IXs Residential Soil PRG or maximum SEDA-specific background concentration.
Presence of an asterik (*) next to a value indicates that it is a SEDA-specific background concentration.
If Region IX value is used, carcinogenic compounds set at 1 X EPA value, non-carcinogenic compounds set at 0.1 X EPA value.
- (3) NYSDEC's Division of Environmental Remediations's Benzo(a)pyrene Toxicity Equivalents guidance value.
- (4) Highlighted cells indicate that the Maximum or 95th UCL concentration value(s) are greater than the comparative value.
Sample/Duplicate pairs are evaluated as separate and discrete samples in this table.
NA = Not Available or Not Applicable.

Table 6-9
SEAD 57 Soil Sample Summary Results

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration	95th UCL Concentration	NYSDEC Unrestricted Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (3)	95th UCL Above Residential PRG Value
Pesticides and PCBs										
4,4'-DDD	UG/KG	8	118	54	3.50	3.3	5	YES	2,437	NO
4,4'-DDE	UG/KG	9	118	32	3.32	3.3	7	YES	1,720	NO
4,4'-DDT	UG/KG	6	118	23	2.90	3.3	5	NO	1,720	NO
Alpha-BHC	UG/KG	2	118	1.4	1.14	20	0	NO	90	NO
Alpha-Chlordane	UG/KG	7	118	16	1.54	94	0	NO	1,624	NO
Aroclor-1260	UG/KG	2	118	27	22.1	100	0	NO	222	NO
Beta-BHC	UG/KG	1	119	4.5	1.20	36	0	NO	316	NO
Dieldrin	UG/KG	7	118	27	3.42	5	5	NO	30	NO
Endosulfan I	UG/KG	1	118	5.2	1.21	2400	0	NO	NA	--
Endosulfan II	UG/KG	1	118	3.1	2.21	2400	0	NO	NA	--
Endrin aldehyde	UG/KG	1	119	3.8	2.23	NA	--	--	NA	--
Endrin ketone	UG/KG	1	119	4	2.23	NA	--	--	NA	--
Heptachlor	UG/KG	1	119	1.6	1.14	42	0	NO	108	NO
Heptachlor epoxide	UG/KG	1	118	2	1.15	NA	--	--	53	NO
Metals and Cyanide										
Aluminum	MG/KG	118	118	22,900	14,381	NA	--	--	20,500*	NO
Antimony	MG/KG	58	118	6.5	2.29	NA	--	--	6.55*	NO
Arsenic	MG/KG	110	118	17.8	5.05	21.5	0	NO	21.5*	NO
Barium	MG/KG	118	118	237	114	350	0	NO	537	NO
Beryllium	MG/KG	118	118	1.8	0.88	7.2	0	NO	15	NO
Cadmium	MG/KG	26	118	28.6	2.43	2.9*	3	NO	3.7	NO
Calcium	MG/KG	118	118	213,000	30,699	NA	--	--	NA	--
Chromium	MG/KG	118	118	32.1	20.6	32.7*	0	NO	10,000	NO
Cobalt	MG/KG	118	118	29.7	11.0	NA	--	--	903	NO
Copper	MG/KG	109	118	2,930	152	62.8*	1	YES	313	NO
Iron	MG/KG	118	118	39,800	25,409	NA	--	--	38,600*	NO
Lead	MG/KG	118	118	1,860	103	266*	1	NO	266*	NO
Magnesium	MG/KG	118	118	27,600	5,502	NA	--	--	NA	--
Manganese	MG/KG	118	118	2,580	625	2,380*	1	NO	2,380*	NO
Mercury	MG/KG	89	118	0.15	0.082	0.18	--	NO	2.3	NO
Nickel	MG/KG	118	118	54.1	28.1	62.3*	0	NO	156	NO
Potassium	MG/KG	118	118	2,960	1,446	NA	--	--	NA	--
Selenium	MG/KG	75	118	2.7	0.94	3.9	0	NO	39	NO
Silver	MG/KG	45	118	1.7	0.43	2	0	NO	39	NO
Sodium	MG/KG	41	118	270	87.0	NA	--	--	NA	--
Thallium	MG/KG	98	118	6.7	2.84	NA	--	--	1.2*	NO
Vanadium	MG/KG	118	118	104	26.9	NA	--	--	32.7*	NO
Zinc	MG/KG	111	118	1,250	108	126*	7	NO	2,346	NO

**Table 6-9
SEAD 57 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration	95th UCL Concentration	NYSDEC Unrestricted Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (3)	95th UCL Above Residential PRG Value
Other Analytes										
Cation exchange capacity	meq/110g	32	32	31.4		NA	--	--	NA	--
Nitrate/Nitrite Nitrogen	MG/KG	99	100	4.4	0.61	NA	--	--	NA	--
Percent Solids	% WW	101	100	94		NA	--	--	NA	--
Soil pH (std. units)		33	33	7.83		NA	--	--	NA	--

Notes:

(1) NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.8(a) or maximum SEDA-specific background concentration. SEDA-specific values identified in bolded text.

(2) Adjusted USEPA Region IXs Residential Soil PRG or maximum SEDA-specific background concentration.

Presence of an asterik (*) next to a value indicates that it is a SEDA-specific background concentration.

If Region IX value is used, carcinogenic compounds set at 1 X EPA value, non-carcinogenic compounds set at 0.1 X EPA value.

(3) Highlighted cells indicate that the Maximum or 95th UCL concentration value(s) are greater than the comparative value.

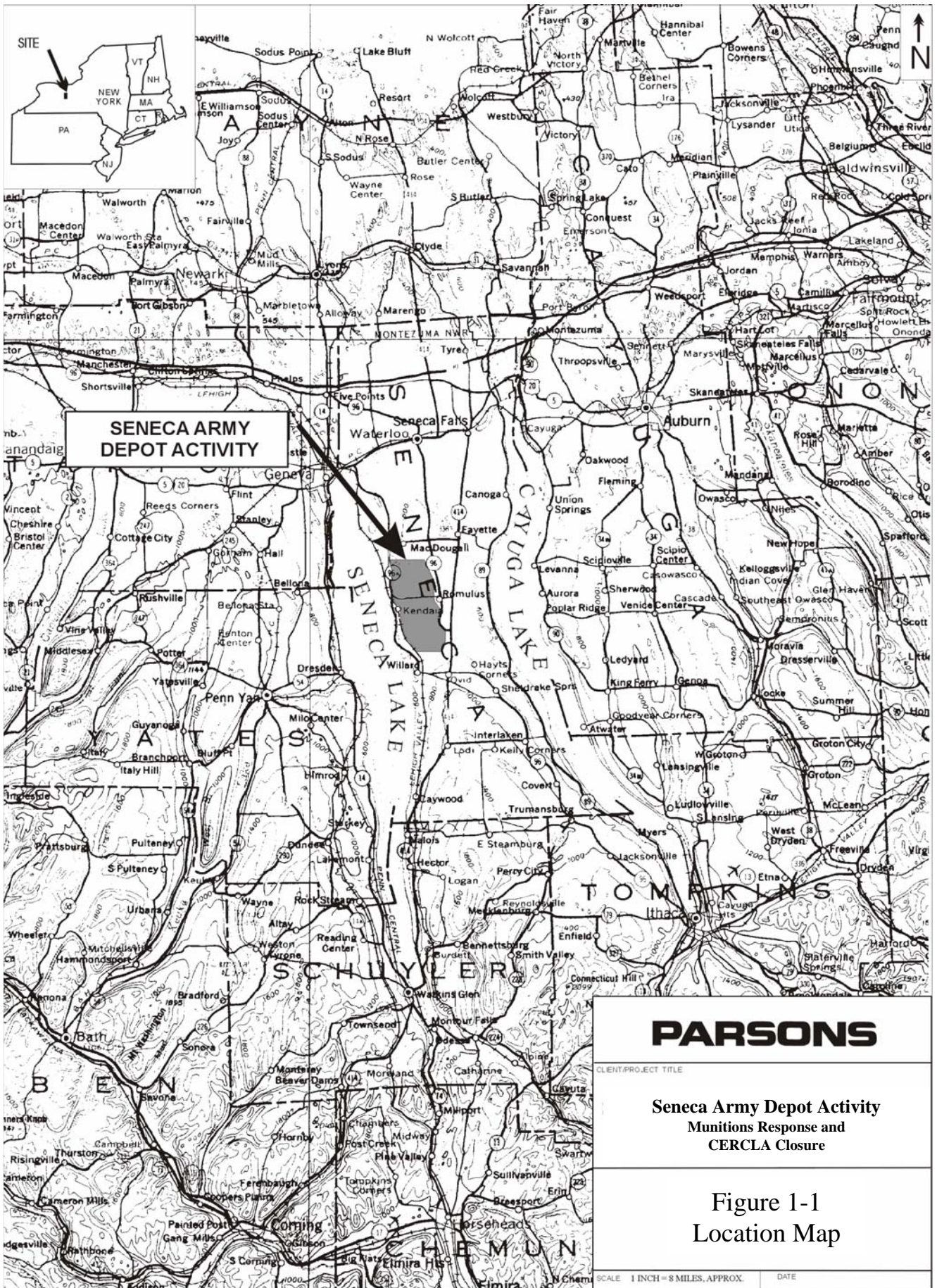
Sample/Duplicate pairs are evaluated as separate and discrete samples in this table.

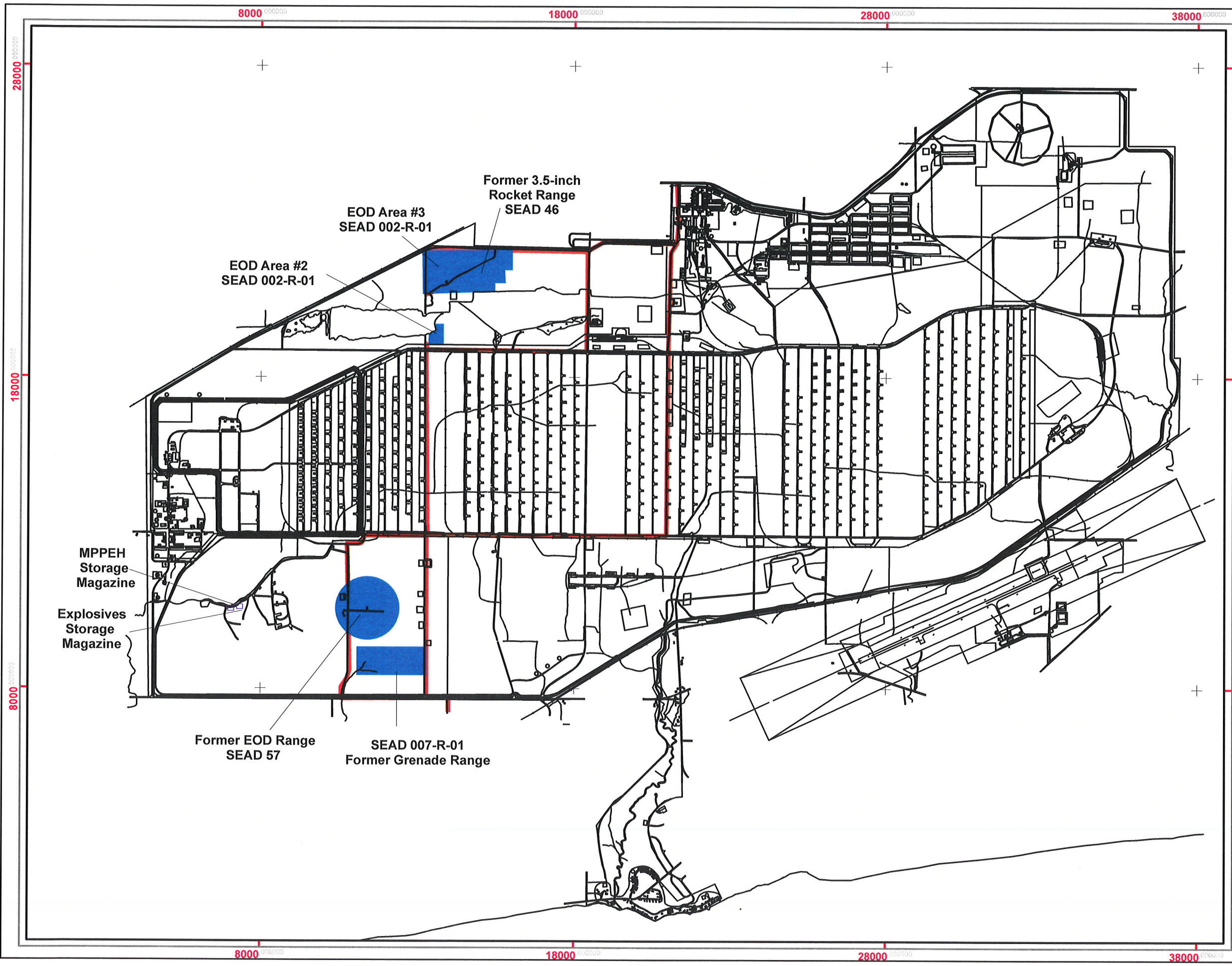
NA = Not Available or Not Applicable.

**Table 6-9
SEAD 57 Soil Sample Summary Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Number of Times Detected	Number of Samples Analyzed	Maximum Concentration	95th UCL Concentration	NYSDEC Unrestricted Value (1)	Number Above Unrestricted Value	95th UCL Above Unrestricted Value	USEPA Region IX Residential PRG Value (3)	95th UCL Above Residential PRG Value
Volatile Organic Compounds										
Acetone	UG/KG	94	127	700	195	50	87	YES	1,412,657	NO
Benzene	UG/KG	2	127	1	6.25	60	0	NO	643	NO
Carbon disulfide	UG/KG	14	127	22	6.23	NA	--	--	35,534	NO
Chloroform	UG/KG	1	127	7	6.29	370	0	NO	221	NO
Methyl ethyl ketone	UG/KG	79	127	64	17.9	120	0	NO	2,231,120	NO
Methylene chloride	UG/KG	2	127	1	6.25	NA	--	--	9,107	NO
Tetrachloroethene	UG/KG	7	127	6	6.17	1300	0	NO	484	NO
Toluene	UG/KG	82	127	33	9.63	700	0	NO	52,000	NO
Total Xylenes	UG/KG	3	127	2	6.23	260	0	NO	27,063	NO
Semivolatile Organic Compounds										
2-Methylnaphthalene	UG/KG	3	118	750	109	NA	--	--	NA	--
4-Methylphenol	UG/KG	3	118	13	118	330	0	NO	30,552	NO
Anthracene	UG/KG	3	119	8.2	117	NA	--	--	2,189,612	NO
Benzo(a)anthracene	UG/KG	25	118	62	112	1000	0	NO	621	NO
Benzo(a)pyrene	UG/KG	20	118	76	114	1000	0	NO	62	YES
Benzo(b)fluoranthene	UG/KG	29	118	67	111	1000	0	NO	621	NO
Benzo(ghi)perylene	UG/KG	15	118	54	115	100000	0	NO	NA	--
Benzo(k)fluoranthene	UG/KG	29	118	50	129	800	0	NO	6,215	NO
Bis(2-Ethylhexyl)phthalate	UG/KG	18	118	3400	230	NA	--	--	34,741	NO
Chrysene	UG/KG	39	118	110	127	1000	0	NO	62,146	NO
Di-n-butylphthalate	UG/KG	40	118	390	106	NA	--	--	611,031	NO
Di-n-octylphthalate	UG/KG	1	118	2.6	118	NA	--	--	244,412	NO
Dibenz(a,h)anthracene	UG/KG	7	118	24	117	330	0	NO	62	YES
Diethyl phthalate	UG/KG	2	118	8.8	118	NA	--	--	4,888,248	NO
Fluoranthene	UG/KG	60	118	150	120	100000	0	NO	229,361	NO
Fluorene	UG/KG	2	118	120	92.9	30000	0	NO	274,711	NO
Indeno(1,2,3-cd)pyrene	UG/KG	15	118	37	115	500	0	NO	621	NO
N-Nitrosodiphenylamine	UG/KG	2	118	75	118	NA	--	--	99,261	NO
Naphthalene	UG/KG	1	118	180	93.9	12000	0	NO	5,592	NO
Phenanthrene	UG/KG	44	118	230	93.1	100000	0	NO	NA	--
Phenol	UG/KG	16	118	51	115	330	0	NO	1,833,093	NO
Pyrene	UG/KG	62	118	230	122	100000	0	NO	231,595	NO
B(a)P Toxicity Equivalents (4)	UG/KG	45	119	428	111	10000 (4)	0	NO	NA	--

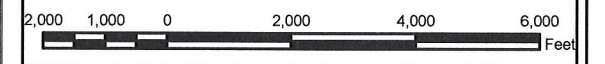
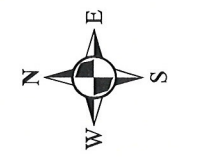




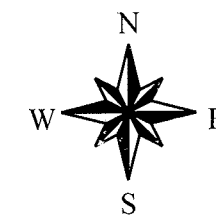
- Site Boundaries
- Explosive Storage Magazines
- Approved Access Roads

40 0' 30"N +
79 22' 30" W

Grid Coordinates
(Latitude, Longitude)



DESIGNED BY: BJM	Site Location Plan Seneca Army Depot	
DRAWN BY: BJM		
CHECKED BY:	SCALE: 1:36,000	PROJECT NUMBER: 744538-01100
SUBMITTED BY: BJM	DATE: March 31, 2006	FN: Figure 1-2
	FILE: Site_Loc_Plan	Basemap: MR/Figure/ESS



300 0 300 600 Feet

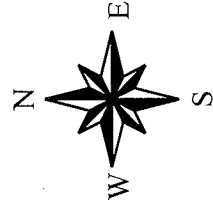
Munitions Response and
CERCLA Closure Report
Seneca Army Depot Activity



Figure 1-4
SEAD 57 Site Plan
Explosive Ordnance Range



200 0 200 400 Feet



Munitions Response and
CERCLA Closure Report
Seneca Army Depot Activity

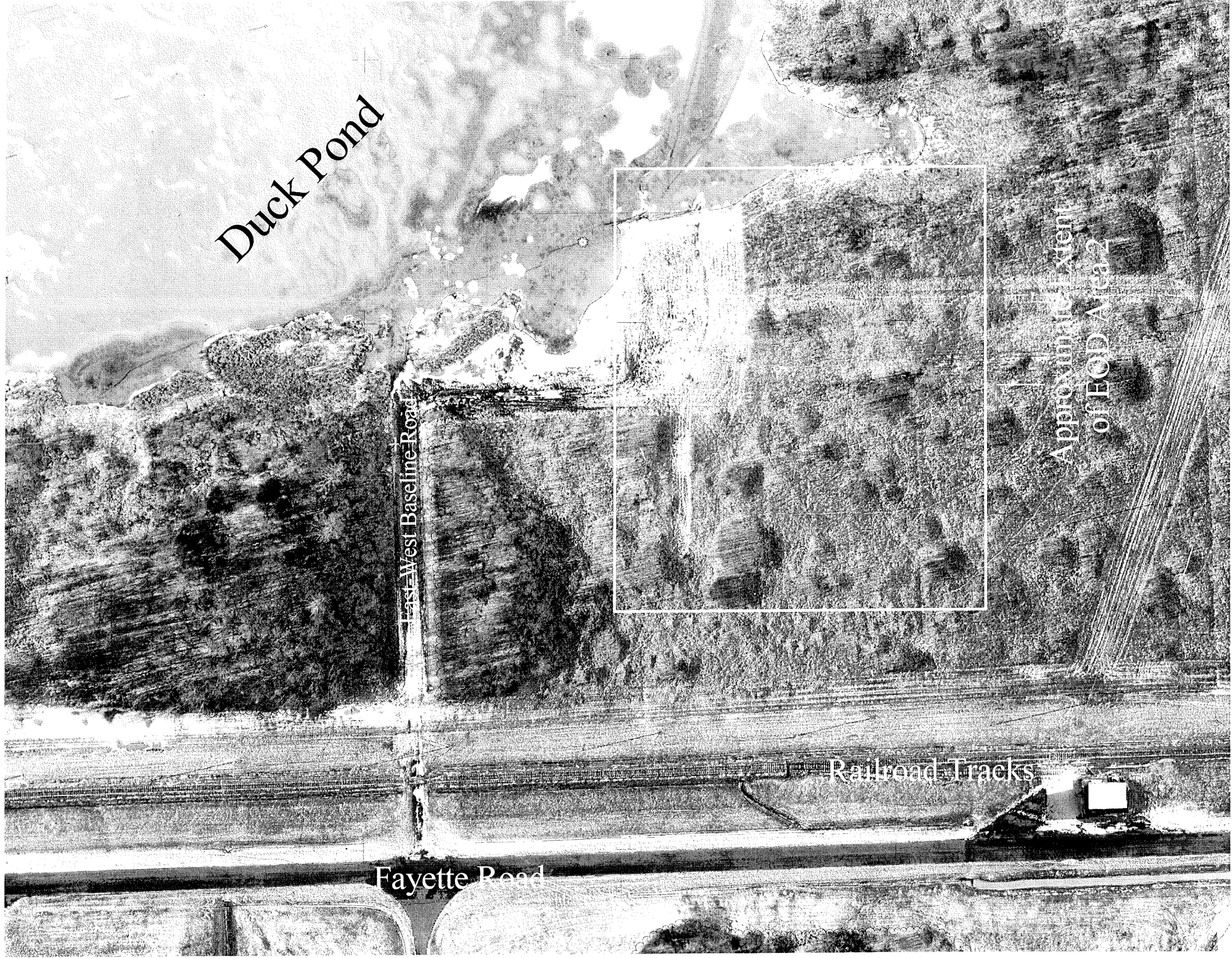


PARSONS

Figure 1-5
Grenade Range Site Map
SEAD 007-R-01

PROJECT NUMBER: 74664

DATE: MAY 2007



Duck Pond

Fayette Road

East West Baseline Road

Railroad Tracks

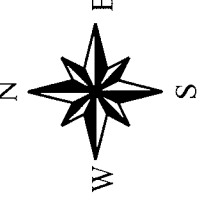
Approximate Extent
of EOD Area 2

200

0

200

400 Feet



Munitions Response and
CERCLA Closure Report
Seneca Army Depot Activity

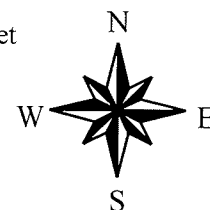


PARSONS

Figure 1-6
EOD Area 2 Site Plan
SEAD 002-R-01

PROJECT NUMBER 76254

DATE MAY 2007



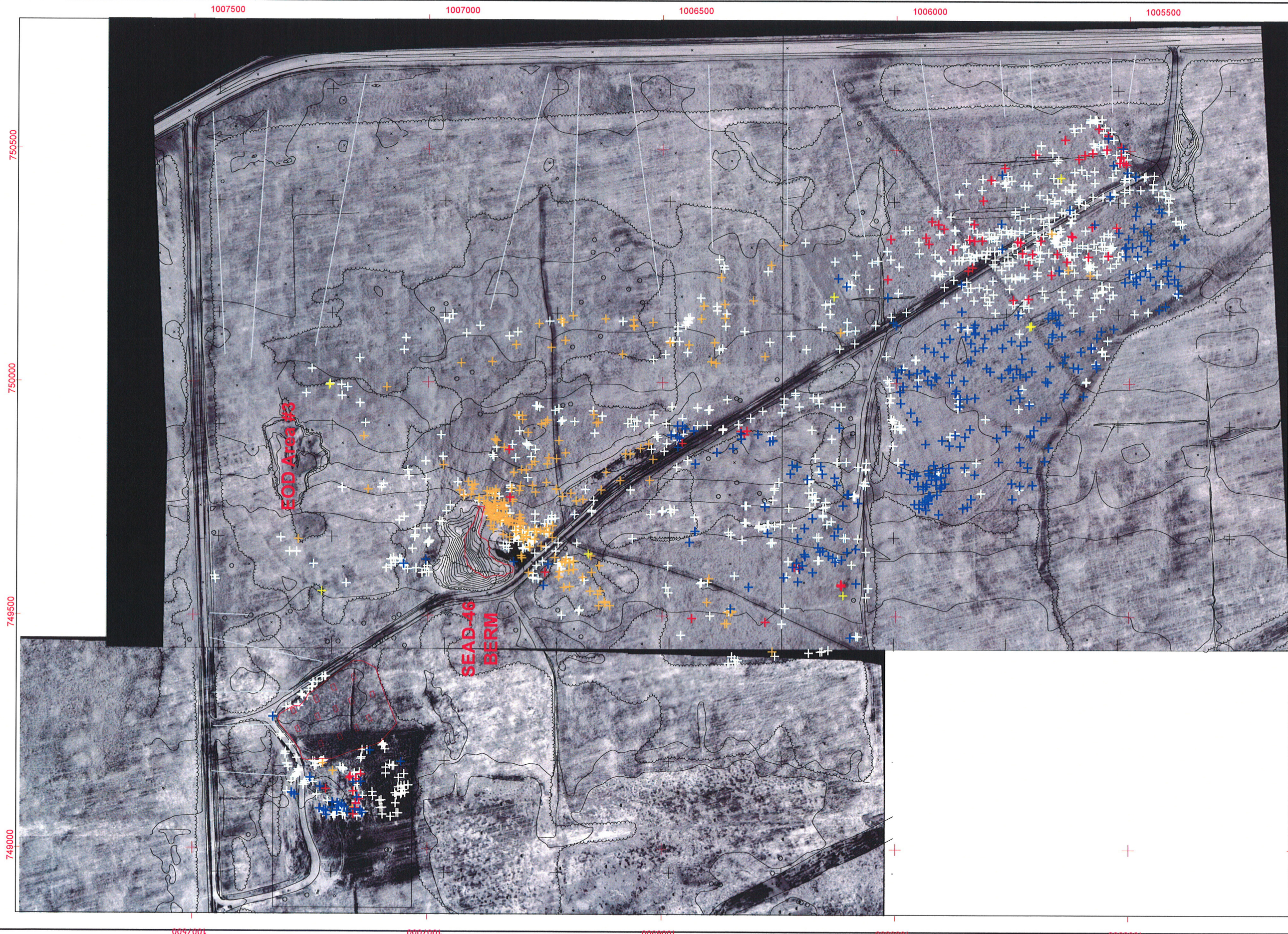
Munitions Response and
CERCLA Closure Report
Seneca Army Depot Activity



PARSONS



Figure 1-7
EOD Area 3 Site Plan
SEAD 002-R-01



Investigation Results

- + Munitons Debris
- + MPPEH items (Reclassified as MD)
- + ARMY SEED items
- + Small Arms debris
- + Cultural Debris

Grid Coordinates
(New York State Plane, Central)

- SRA Excavated Area
- Woods Transect Investigation

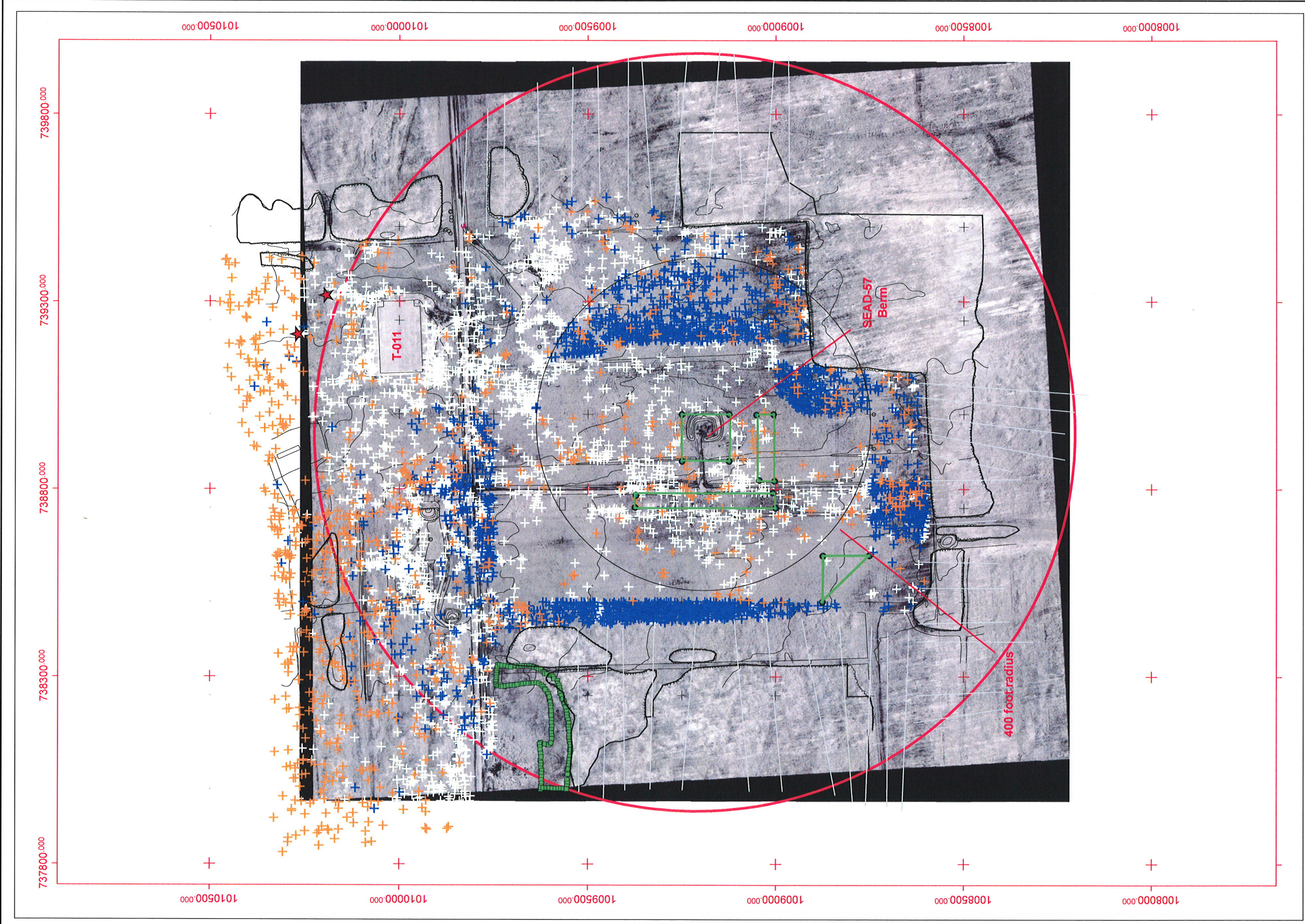
PARSONS

DESIGNED BY: BJM
DRAWN BY: BJM
CHECKED BY: BJM
SUBMITTED BY: BJM








Figure 3-1
SEAD 46
Munitons Removal Summary

PROJECT NUMBER: 745054-03300
DATE: January 22, 2007
AERIAL PHOTOGRAPH: 1989 2ft. Resolution
FILE: SEAD_46.APR
SCALE: 1:2,500



1611
100 50 0 100 200 300 Feet

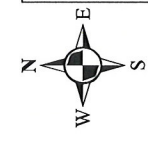
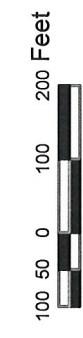


Munitions Response Summary

-  SEAD 57 1000 foot radius
-  SEAD 57 MEC
-  1- 37mm (fused and unfired)
-  1-MKII grenade (fuse intact)
-  Aluminium Munitions Debris
-  Ferrous Munitions Debris
-  Trash and Cultural Debris

997750+ Grid Coordinates
748750 (New York State Plane, Central)

-  limit of 6 inch excavation
-  Woods Transect Investigation Area



DESIGNED BY: BJM	Figure 3-2 SEAD 57 Munitions Removal Summary		
DRAWN BY: BJM	Print Date: March 31 2006	PROJECT NUMBER: 745054-03300	SCALE: 1:3,045.243
ENCLOSED BY:	Aerial Photograph: 1989 - 2 ft resolution	FILE: O:\General\MR\Parsons\S57	
SUBMITTED BY: BJM			



- + Location of 40 mm M781 practice grenade
 - + Location of M73 Subcaliber LAW
 - + Location of Cultural Debris
 - Location of Target
 - Firing Point and Observation Tower
- 997750 + Grid Coordinates (New York State Plane, Central)
748750



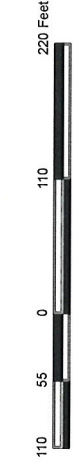



Figure 3-3 Grenade Range Munitions Removal Summary	
DESIGNED BY: BJM	PROJECT NUMBER: 744538-01100
DRAWN BY: BJM	DATE: March 31, 2007
CHECKED BY:	AERIAL PHOTOGRAPH: 1989 2ft. Resolution
SUBMITTED BY: BJM	FILE: GR_RNG_APR
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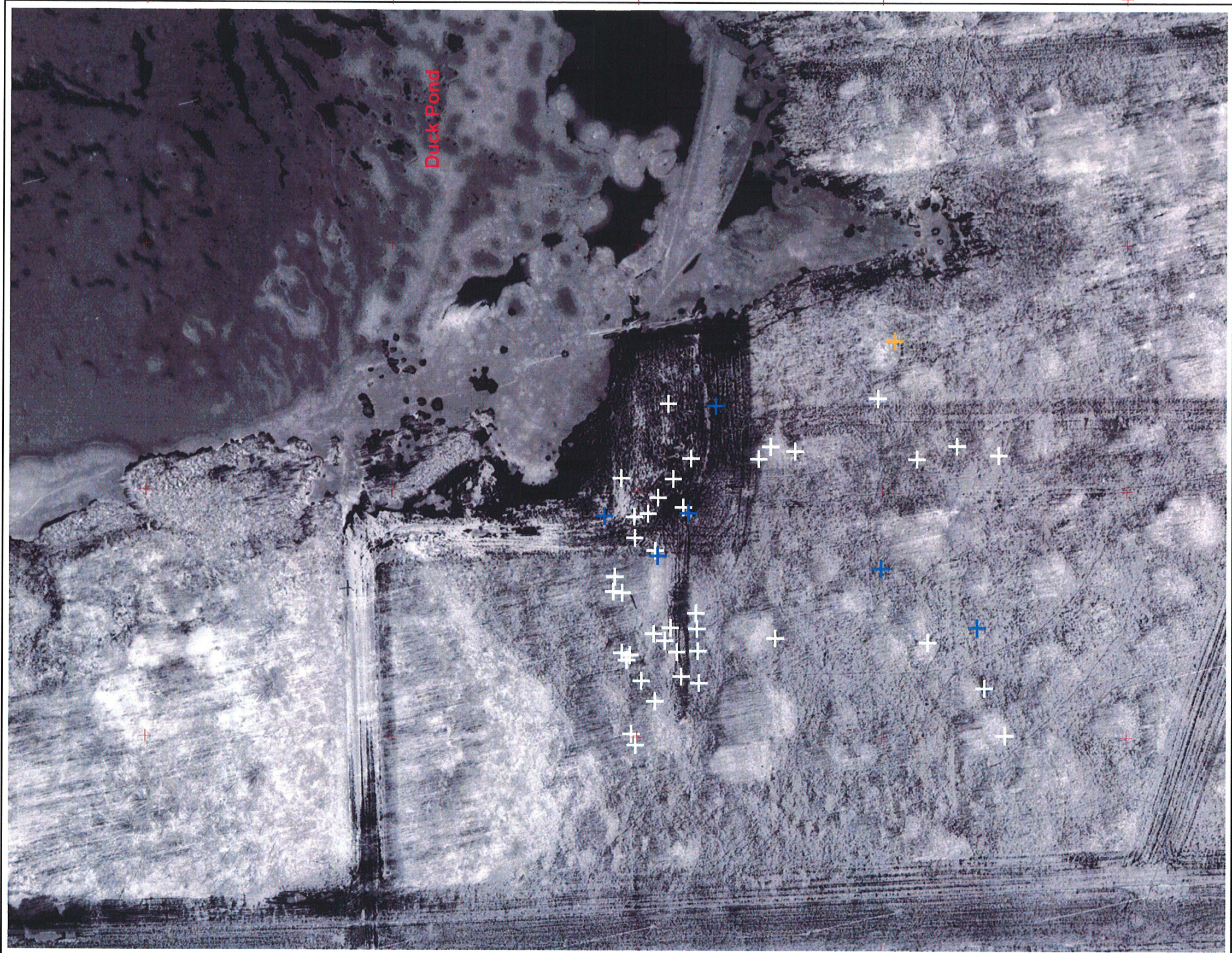


748250

748000

747750

747500



1008000

1007750

1007500

1007250

1007000

1008000

1007750

1007500

1007250

1007000

Duck Pond

748250

748000

747750

747500

- + MPPEH reclassified as MD
- + Munitions Debris
- + Cultural Debris



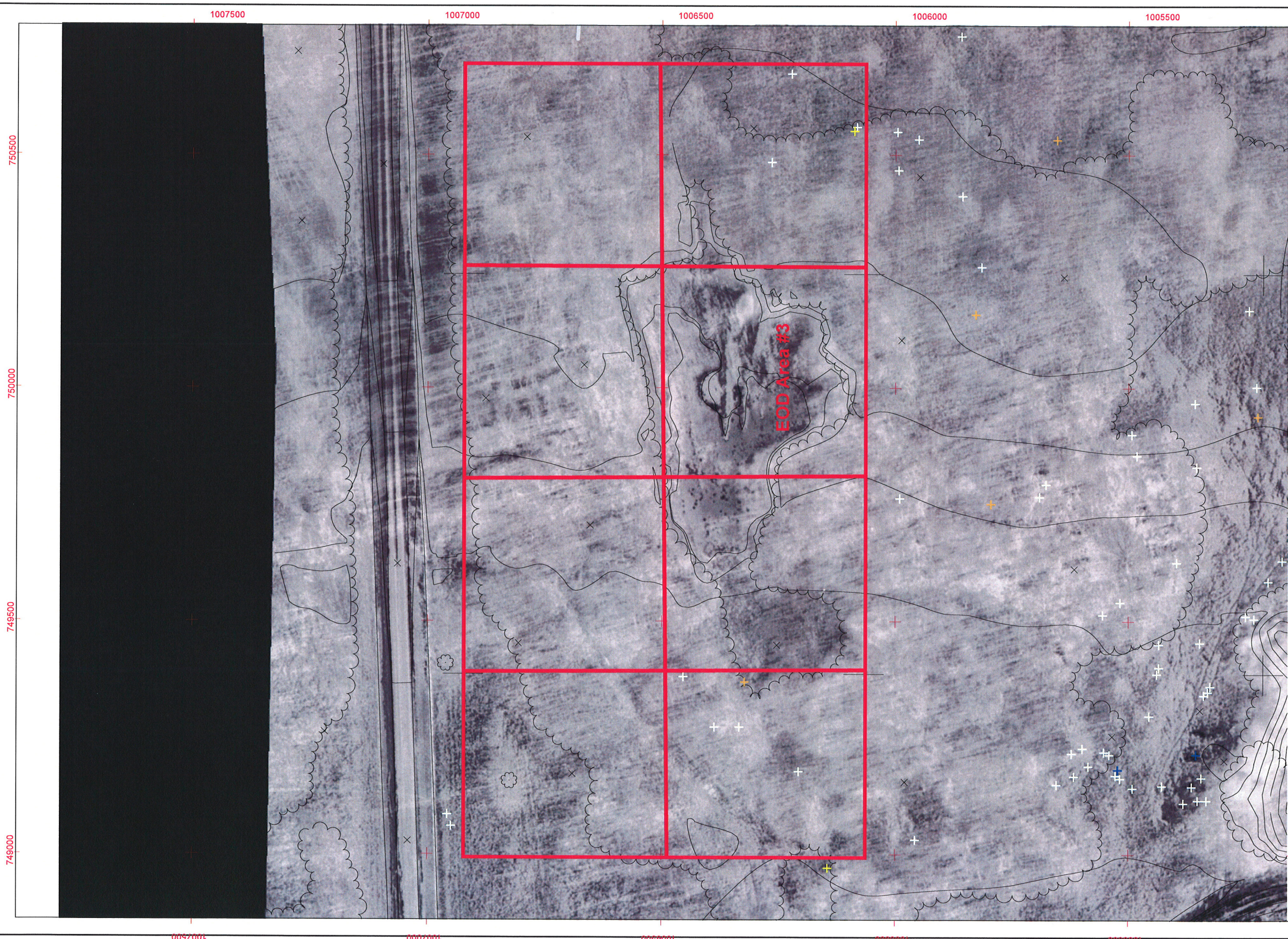
997750+
748750

Grid Coordinates
(New York State Plane, Central)




PARSONS

DESIGNED BY: BJM	Figure 3-4 EOD Area 2
DRAWN BY: BJM	Munitions Removal Summary
CHECKED BY: BJM	PROJECT NUMBER: 745054-03300
SUBMITTED BY: BJM	DATE PRINTED: March 31, 2007
	AREAL PHOTOGRAPH: 1989 2 ft Resolution
	FILE: EOD2.APR
	SCALE: 1:1,000









			
DESIGNED BY:	BJM	Figure 3-5 EOD Area 3	
DRAWN BY:	BJM	Munitions Removal Summary	
CHECKED BY:	BJM	DATE:	March 31, 2007
		PROJECT NUMBER:	745054-03300
		AERIAL PHOTOGRAPH:	1989 2ft. Resolution
		FILE:	SEAD_46.APR
		SCALE:	1:700





 Grid Coordinates
 (New York State Plane, Central)

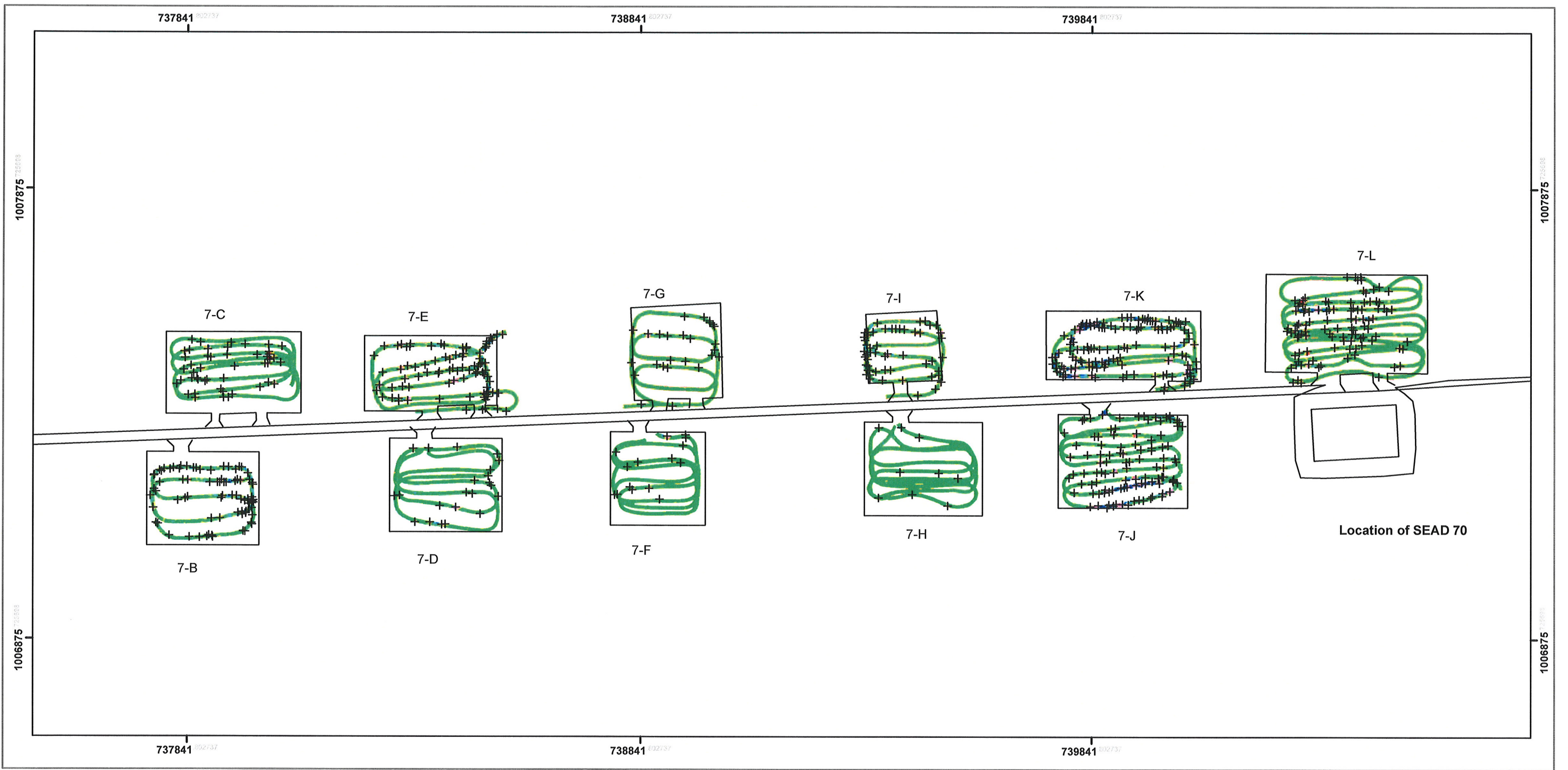
Investigation Results




-  Munitions Debris
-  MPPEH items (Reclassified as MD)
-  ARMY SEED items
-  Small Arms debris
-  Cultural Debris

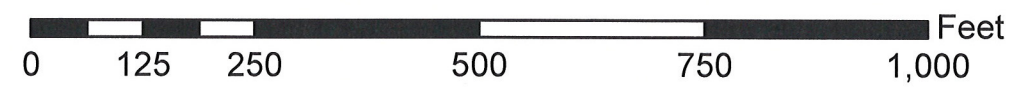
 EOD #3 Investigation Area


 Woods Transect Investigation

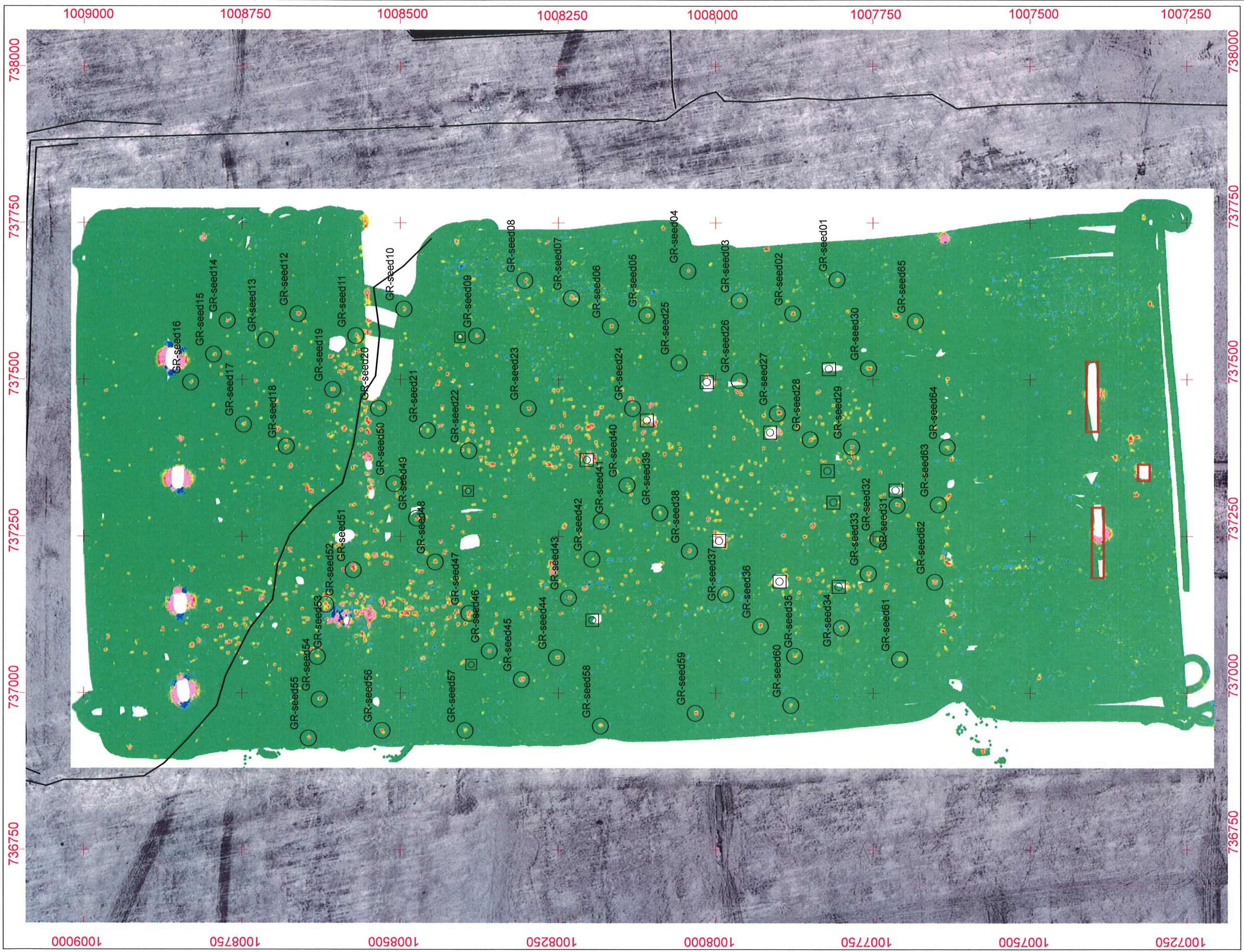




-  Investigated Geophysical Anomaly
-  Geophysical Data Collection Area
- 997750  Grid Coordinates (New York State Plane, Central)
- 748750



	
DESIGNED BY: BJM	Figure 3-6 Local Training Areas B - L Munitions Removal Summary
DRAWN BY: BJM	DATE PRINTED: May 22, 2006 PROJECT NUMBER: 745054-01400
CHECKED BY:	AIRAL PHOTOGRAPH: none
SUBMITTED BY: BJM	FILE: O:\Seneca\MRI\Parsons\IESS SCALE: 1:2,500



- Limit of EM61 Geophysical Data collection
- QA SEED Item Location 60 of 60 detected

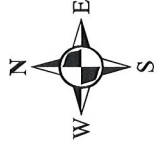
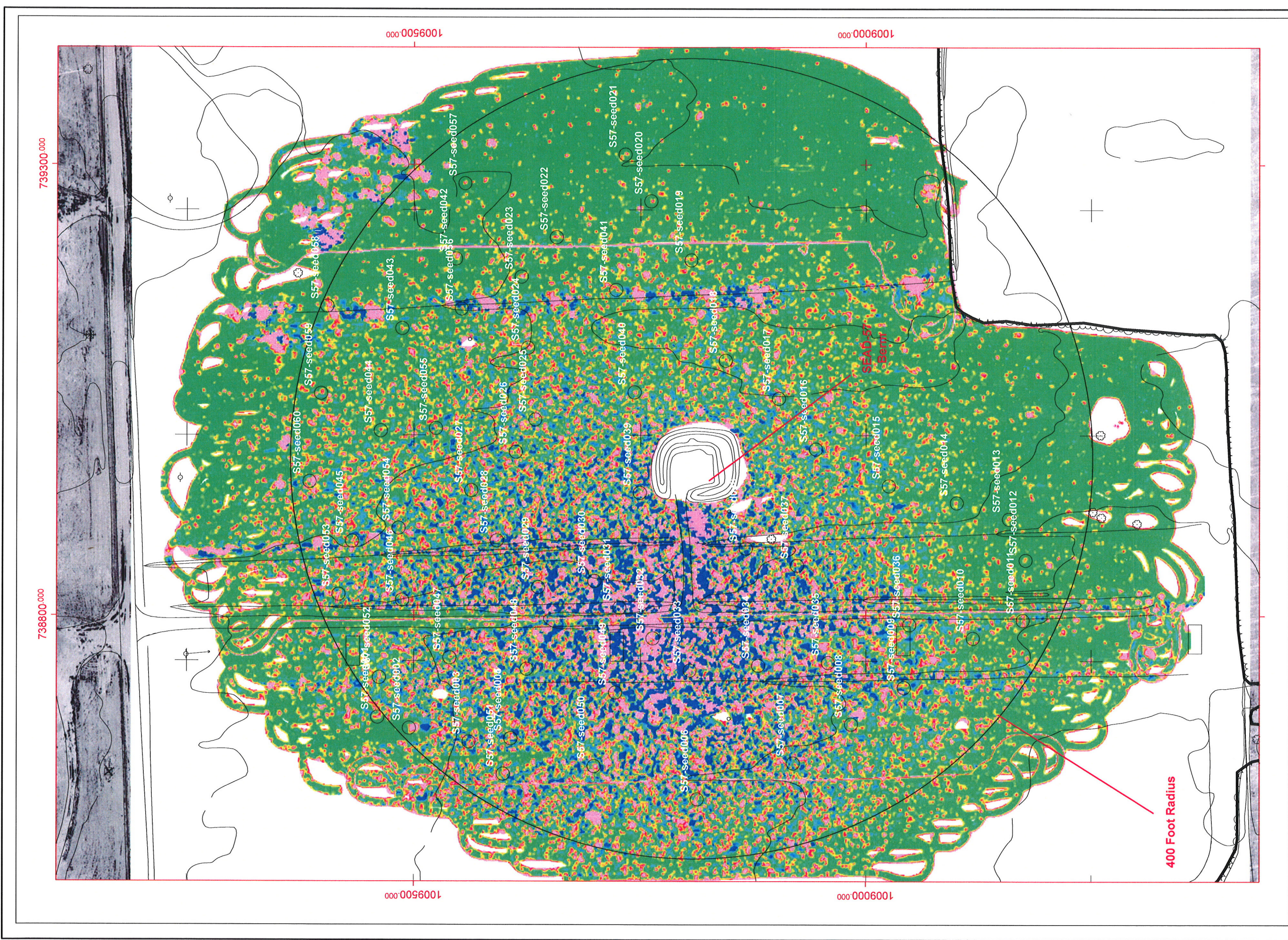


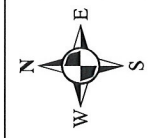
		Figure 3-7	
DESIGNED BY: BJM		QA SEED ITEM PLACEMENT GRENADE RANGE	
DRAWN BY: BJM		PROJECT NUMBER: 744538-01100	
CHECKED BY:		DATE: March 31, 2007	
SUBMITTED BY: BJM		AERIAL PHOTOGRAPH: 1989 2ft. Resolution	
		FILE: GR_RING.APR	
		SCALE: 1:1,495,197	



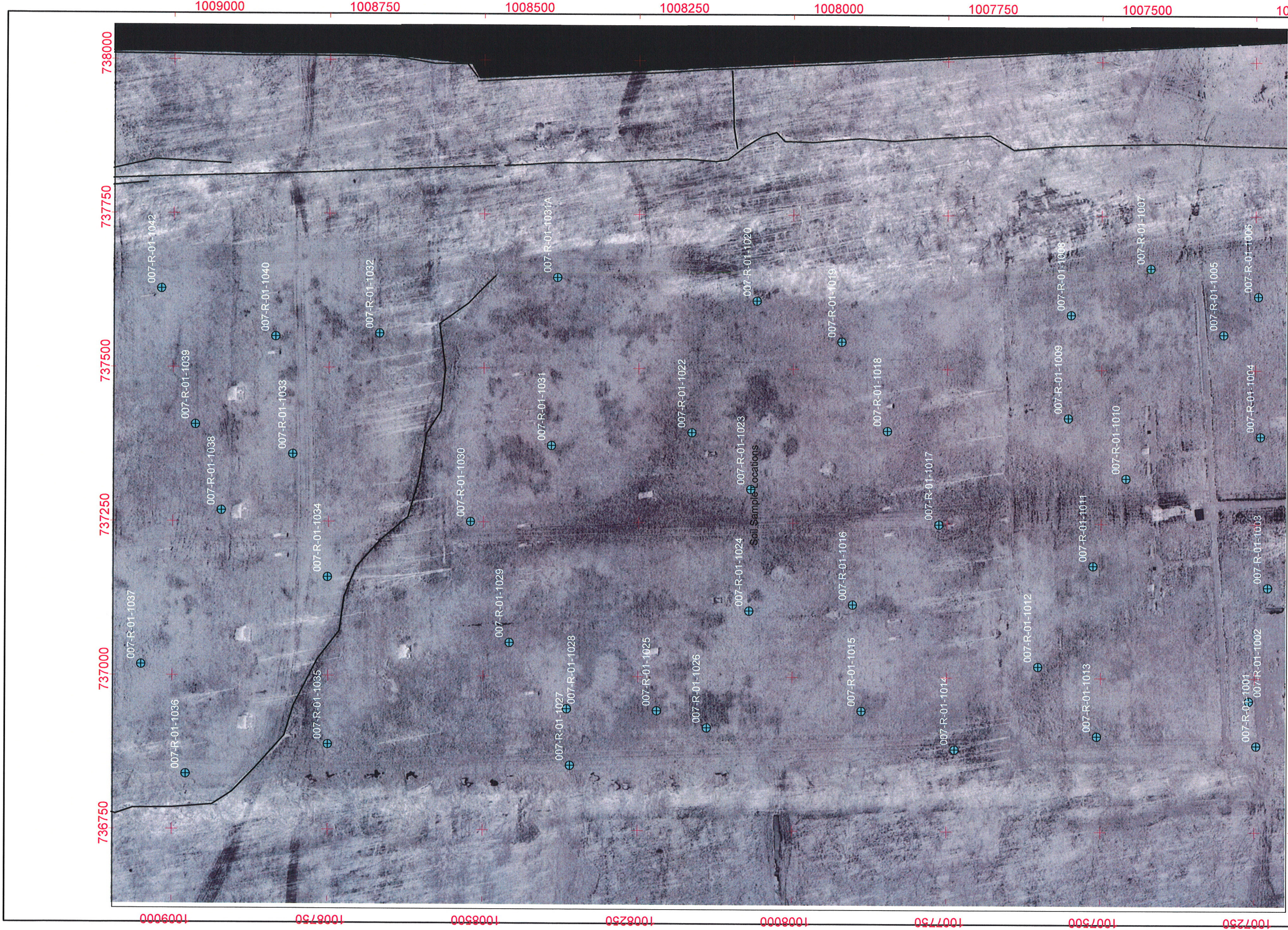
Munitions Response Summary

- SEAD 57 400 f oot radius
- EM-61MKII Data Collection Area
- SEED Item Placement Location
- 65 of 65 items detected

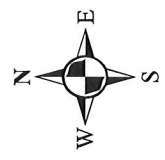
997750+ Grid Coordinates
748750 (New York State Plane, Central)



DESIGNED BY: BJM	Figure 3-8 QA SEED ITEM DETECTION SEAD 57		
DRAWN BY: BJM	Print Date: March 31 2006	PROJECT NUMBER: 745054-03300	SCALE: 1:1,249.967
CHECKED BY:	Aerial Photograph: 1989 - 2 ft resolution	FILE: O:Seneca\MR\Parsons\57	
SUBMITTED BY: BJM			

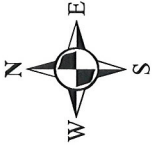
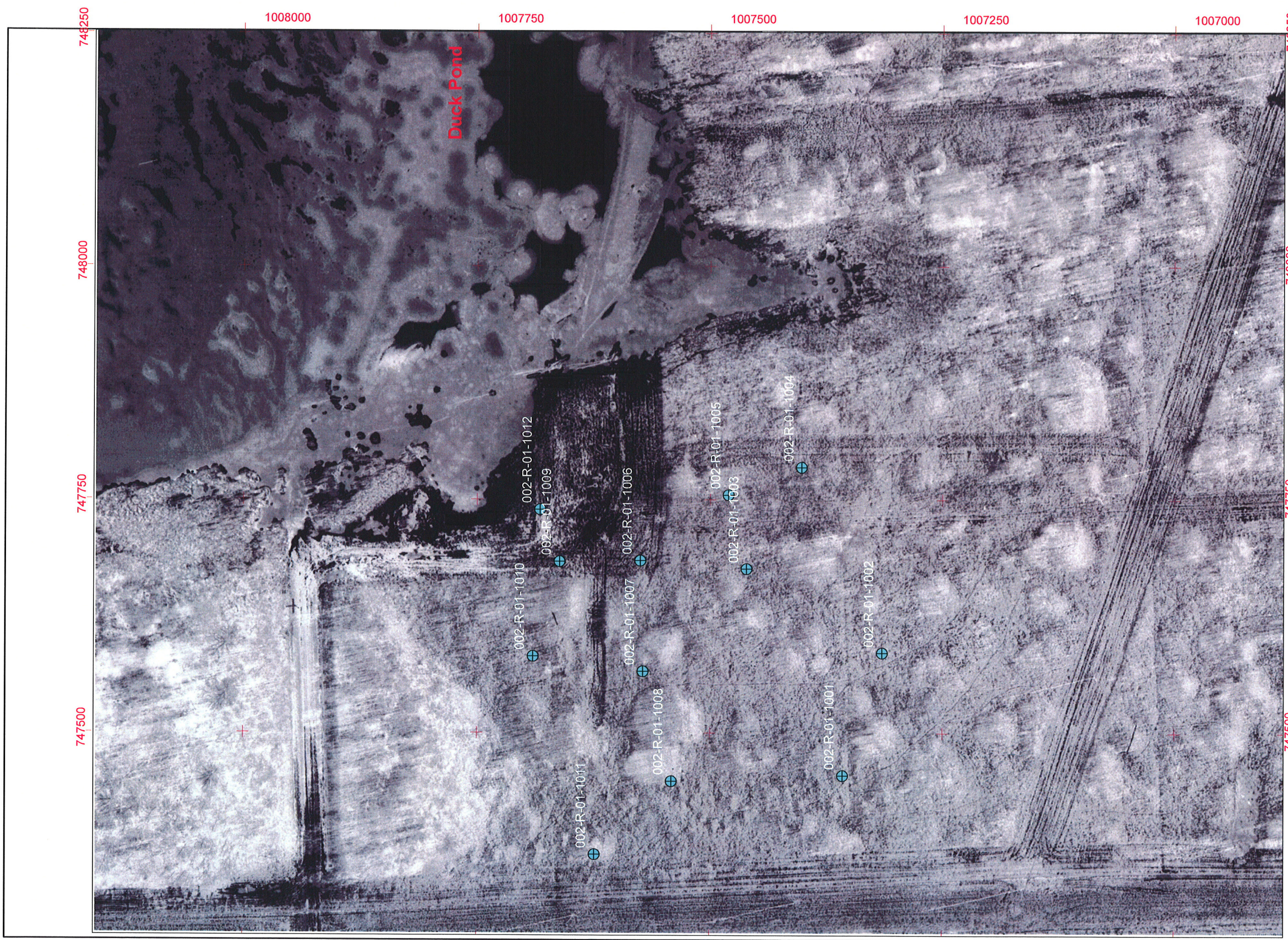


			
DESIGNED BY	BJM	Figure 6-1	
DRAWN BY	BJM	Soil Sample Locations	
CHECKED BY		Grenade Range, SEAD 007-R-01	
SUBMITTED BY	BJM	DATE	March 31, 2007
		PROJECT NUMBER	744538-01100
		AERIAL PHOTOGRAPH	1989 2ft. Resolution
		FILE	GR_RNG_APR
		SCALE	1:1,500



⊕ Location of Soil Sample

997750 + Grid Coordinates (New York State Plane, Central)
748750

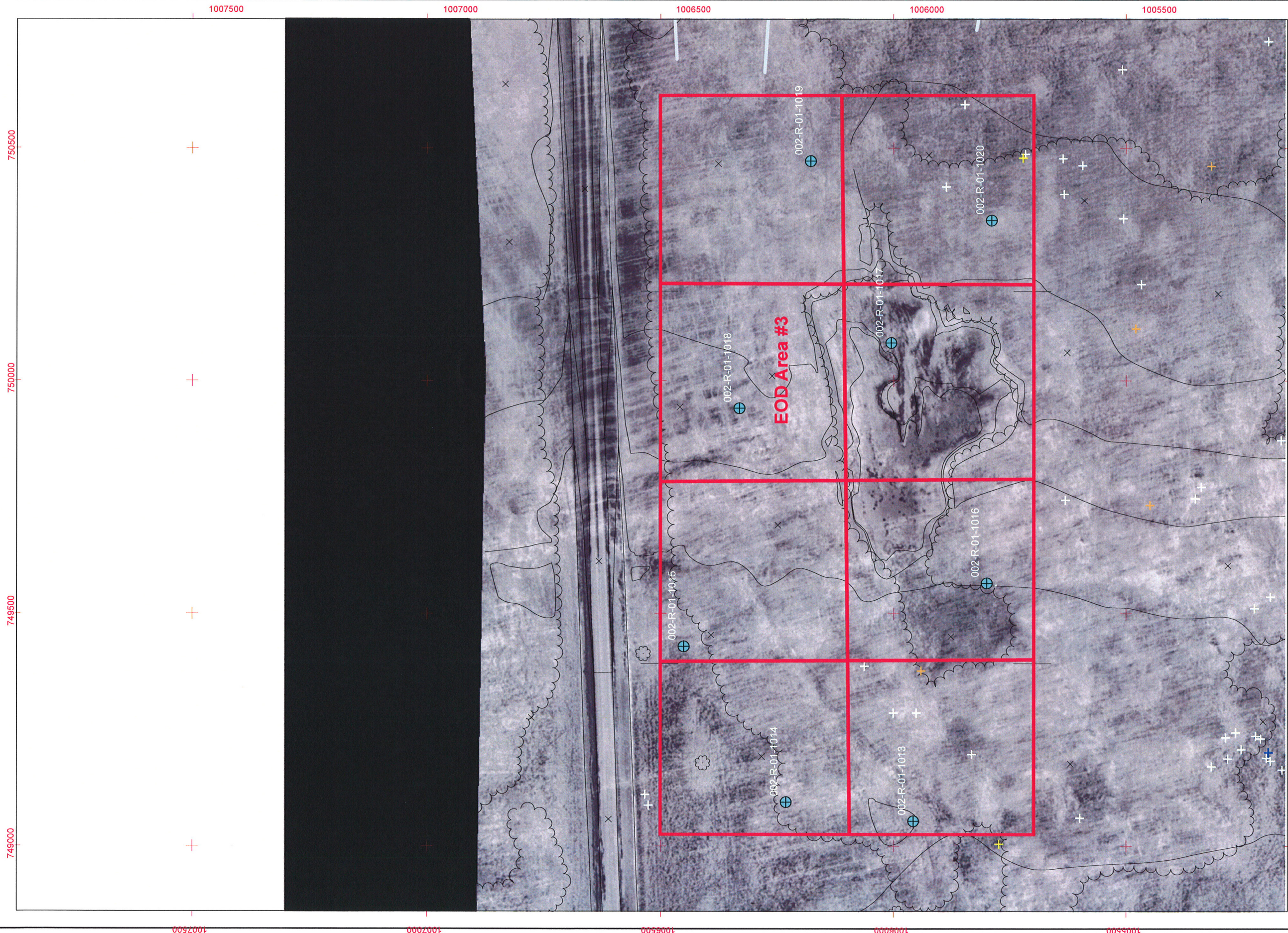


⊕ Surface Soil Sample Locations

997750+ 748750
 Grid Coordinates
 (New York State Plane, Central)



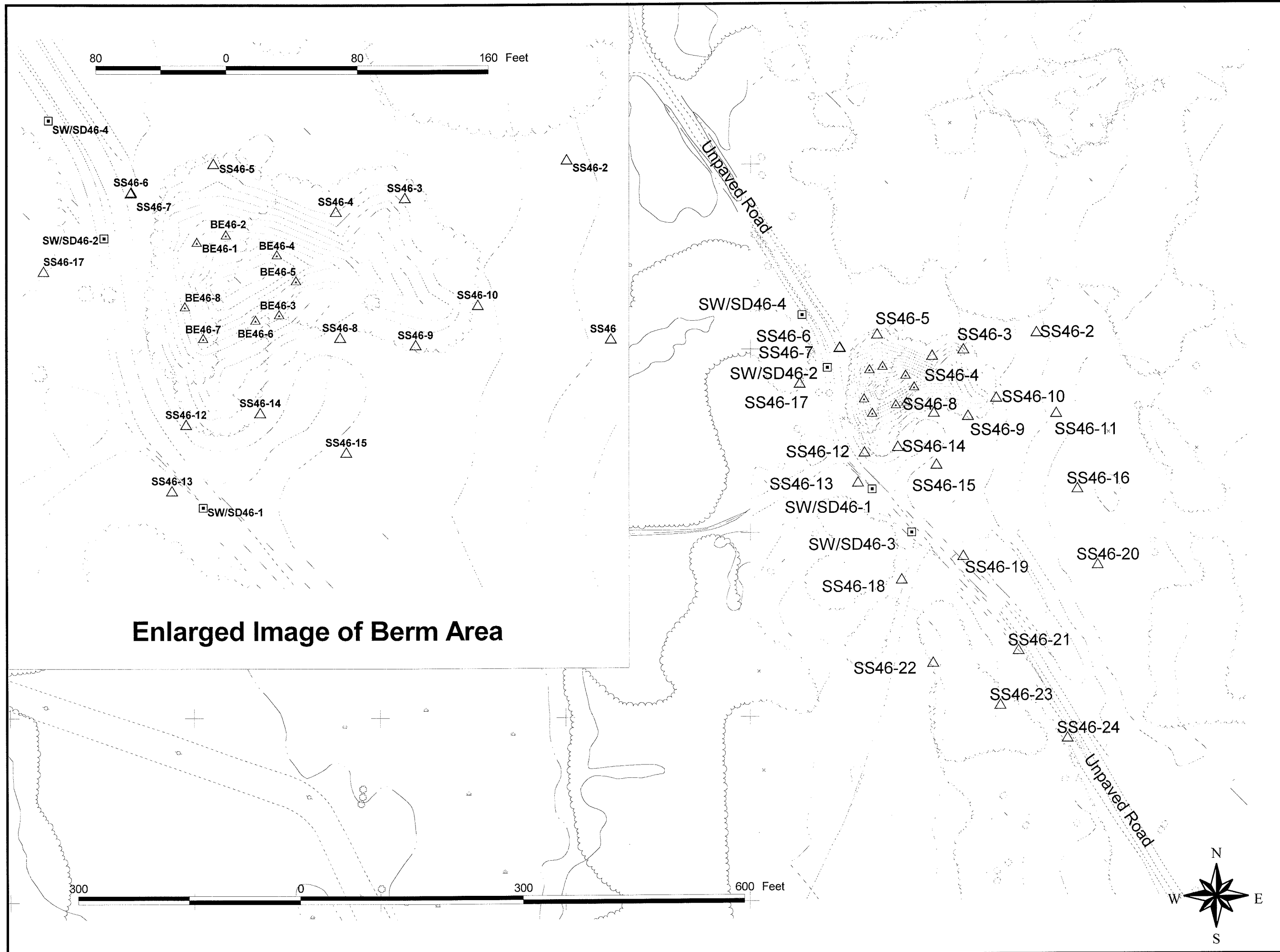
DESIGNED BY	BJM	Figure 6-2	
DRAWN BY	BJM	Soil Sample Locations	
CHECKED BY		EOD Area 2, SEAD 002-R-01	
SUBMITTED BY	BJM	DATE PRINTED	PROJECT NUMBER
		May 22, 2006	745054-03300
		AREAL PHOTOGRAPH:	
		1989 2 ft Resolution	
		FILE: EOD2.APR	SCALE: 1:1,000



Grid Coordinates
(New York State Plane, Central)



DESIGNED BY: BJM	Figure 6-3 Soil Sample Locations		
DRAWN BY: BJM	EOD Area 3, SEAD-002-R-01		
CHECKED BY:	DATE: March 31, 2007	PROJECT NUMBER: 745054-03300	
	AERIAL PHOTOGRAPH: 1989 2ft. Resolution		
SUBMITTED BY: BJM	FILE: SEAD_46.APR	SCALE: 1:750	



Enlarged Image of Berm Area

LEGEND

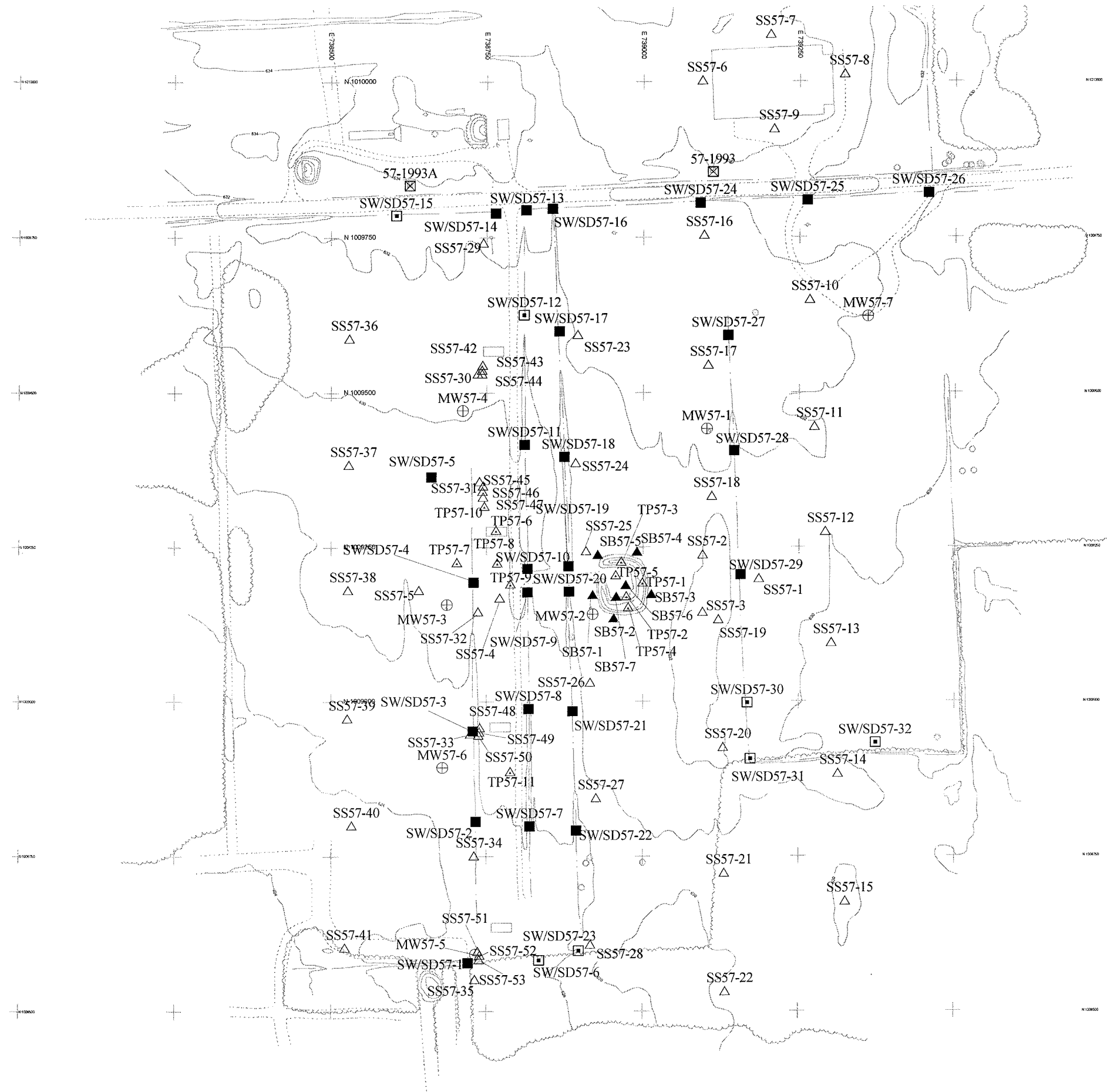
- RAILROAD TRACK
- ~~~~~ EDGE OF WATER
- PROPERTY LINE
- ROAD
- FENCE
- CONTOUR ELEVATION
- ~~~~~ TREELINE
- ☐ SURVEY MONUMENT
- UTILITY POLE
- DECIDUOUS TREE

- ▲ **Soil Boring Locations**
- △ **Surface Soil Locations**
- △ **Test Pit Locations**
- **Surface Water/Sediment Locations**
- ☐ **Sediment Locations**
- ⊕ **Ground Water Locations**
- ⊗ **Survey Points**

Munitions Response and
CERCLA Closure Report
Seneca Army Depot Activity



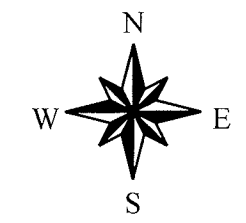
Figure 6-4
Sample Point Locations
SEAD 46, 3.5 inch Rocket Range



LEGEND

- RAILROAD TRACK
- EDGE OF WATER
- PROPERTY LINE
- ROAD
- FENCE
- CONTOUR ELEVATION
- TREELINE
- SURVEY MONUMENT
- UTILITY POLE
- DECIDUOUS TREE

- Soil Boring Locations**
- Surface Soil Locations**
- Test Pit Locations**
- Surface Water/Sediment Locations**
- Sediment Locations**
- Ground Water Locations**
- Survey Points**



Munitions Response and CERCLA Closure Report
Seneca Army Depot Activity

Figure 6-5
Sample Point Locations
SEAD 57, Explosive Ordnance Range

PROJECT NUMBER 745054 DATE MAY 2007

APPENDICES

- A. Blast Shield Diagram
- B. Woods Transect Investigation Summary
- C. MEC and MPPEH Recovered at Seneca Army Depot
- D. Data Fragmentation Forms
- E Analytical Data from Site Investigations

APPENDIX A
BLAST SHIELD DIAGRAM

Table 2-4

Geophysical Instrument Prove-out Grid Results - Summary

Item	Easting	Northing	Description	Depth	Instrument Response (mV)	May	VALUE (nT)	July	Instrument Response (mV)	September
PAR1	743546.3	1013127.1	3.5" warhead	15	177.79567	YES	40.56	YES	224.238648	YES
PAR2	743543.32	1013138.4	fuze	12	100.031967	YES	16.85	YES	69.7258759	YES
PAR3	743537.93	1013147.7	75mm	31	92.3501968	YES	12.55	YES	162.561096	YES
PAR4	743531.94	1013170.1	3.5" motor	11	272.303619	YES	148.60	YES	408.704681	YES
PAR5	743527.54	1013194	155mm	38	525.484558	YES	215.24	YES	530.840088	YES
PAR6	743519.33	1013226	3.5" warhead	21	66.602684	YES	9.52	YES	48.5232239	YES
PAR7	743513.46	1013239.4	3.5" warhead	45	11.2843208	YES	*	NO	*	NO
PAR8	743509.9	1013253.8	slap flare (Al)	20	30.3224602	YES	*	NO	36.3955976	YES
PAR9	743515.62	1013260.5	fuze	7	115.634735	YES	16.64	YES	125.017563	YES
PAR10	743517.79	1013245.6	3.5" warhead	32	24.7626572	YES	13.77	YES	19.9981995	YES
PAR11	743531.19	1013202.7	75mm	18	246.675125	YES	28.59	YES	197.639618	YES
PAR13	743540.35	1013168.4	3.5" rocket	9	213.664093	YES	58.25	YES	158.395691	YES
PAR14	743541.56	1013153.6	MKII grenade	13	125.443909	YES	30.61	YES	77.7595731	YES
PAR15	743553.77	1013134.3	flare (Al)	12	39.1307144	YES	*	NO	48.883976	YES
PAR16	743531.71	1013215.8	MKII grenade	20	69.7193756	YES	19.42	YES	46.1244125	YES
PAR17	743519.91	1013261.4	75mm	32	42.2362785	YES	14.18	YES	51.5120392	YES
PAR18	743523.57	1013255	3.5" motor	10	233.46431	YES	19.62	YES	194.281235	YES
PAR19	743529.13	1013241.3	MKII grenade	10	189.837433	YES	60.50	YES	239.497955	YES
PAR20	743553.84	1013157	3.5" rocket	30	890.547974	YES	51.58	YES	1210.59851	YES
PAR21	743565.09	1013131.2	3.5" motor	23	44.6897774	YES	13.79	YES	42.2606697	YES
PAR23	743555.31	1013168.5	fuze	23	*	NO	9.81	YES	11.7348776	YES
PAR24	743550.98	1013179.5	flare (Al)	15	145.157104	YES	*	NO	118.320824	YES
PAR25	743550.6	1013186.1	75mm	35	457.981689	YES	87.26	YES	229.737305	YES
PAR27	743543.66	1013218.2	155mm	21	663.701416	YES	104.07	YES	577.197937	YES
PAR28	743538.29	1013230.6	3.5" motor	18	128.697372	YES	13.39	YES	113.995445	YES
PAR29	743534.73	1013248.2	75mm	18	240.945175	YES	134.25	YES	315.333344	YES

* item not picked
(Al) aluminum Item

Geophysical Prove-Out Analysis for Seneca Army Depot Activity, Romulus, NY

Contracting Agency:
**Air Force Center for Environmental Excellence
Brooks Texas**

Prepared By:
PARSONS
**1700 Broadway
Denver, CO 80290**

TABLE OF CONTENTS

SECTION 1 INTRODUCTION	1-1
SECTION 2 OBJECTIVES.....	2-4
SECTION 3 GEOPHYSICAL SURVEY EQUIPMENT.....	3-1
3.1 Geophysical Instruments	3-1
3.2 Global Positioning System Equipment.....	3-2
3.3 Logging System.....	3-2
3.4 Tow Vehicle	3-3
SECTION 4 GEOPHYSICAL SURVEY PROCEDURES.....	4-1
4.1 Data Acquisition.....	4-1
SECTION 5 DATA DOWNLOADING AND PROCESSING.....	5-1
5.1 Data Downloading.....	5-1
5.2 Data Processing	5-1
SECTION 6 RESULTS.....	6-1
6.1 Data Results.....	6-1
6.2 Anomaly Picks.....	6-1
SECTION 7 QUALITY CONTROL.....	7-1
7.1 Introduction	7-1
7.2 Static Tests.....	7-1
7.3 QC Transect.....	7-1
7.4 Position Check.....	7-1
SECTION 8 CONCLUSIONS	8-3

LIST OF FIGURES

7.1 EM61MK2 survey May 2006.....	7-2
7.2 G858 survey July 2006.....	7-3
7.3 EM 61MK2 survey September.....	7-4

LIST OF TABLES

Table 1.1 Seeded Items Burial Information and Anomaly Designation	1-2
Table 6.1 May Em61 MK2 proveout results	6-2
Table 6.2 July 21 - G858 proveout results	6-3
Table 6.3 September EM61MK2 proveout results	6-4

ACRONYMS AND ABBREVIATIONS

CESWF	U.S. Army Corps of Engineers, Fort Worth District
DGPS	Differential Global Positioning System
DID	Data Item Description
GPS	Global Positioning System
nT	Nano Tesla
OE	Ordnance and Explosives
Milivolt	mV
PC	Personal computer
QC	Quality control
RTK	Real Time Kinematic
SOW	Statement of Work
TDMD	Time domain metal detector
UXO	Unexploded ordnance

SECTION 1 INTRODUCTION

1.1 In accordance with the work plan for the Munitions Response and CERCLA Closure project section 3.3, Parsons was required to demonstrate the ability to use the proposed geophysical equipment for the detection of buried ordnance items. A prove-out was required to demonstrate the ability of the personnel and equipment to detect buried stimulant items in similar conditions to be expected in the survey area. As stated in the work plan section 3 a geophysical proveout was required at the beginning of the project and every time new geophysical equipment was introduced to the site. During the course of this project two sets of EM61MK2 coils and one G858 magnetometer were used to collect geophysical data. Subsequently the proveout procedure was performed three times throughout the duration of this project. The first proveout was conducted on the afternoon of May 06, 2006 by a crew of two persons from Parsons. The Second was performed September 9, 2006 and the third time the proveout was performed with the G858 magnetometer on July 21, 2006. The proveout was conducted all three times over the Q (East) area proveout grid. The Q area proveout grid had been used previously by Parsons as part of the OE EE/CA conducted at the site in 2000. The grid contained several items that were buried by Parsons under supervision of USACOE at known locations and additional blind items buried by the COE, Table 1.1 lists the items that were buried during the setup of the proveout in 2000:

1.2 This report is broken into eight sections:

- Section 2 States the objectives that were set forth for the prove-out.
- Section 3 Presents the equipment used for the prove-out test.
- Section 4 Describes how the equipment was used during the prove-out.
- Section 5 Discusses the data processing performed on the data generated from the prove-out.
- Section 6 Presents the results of the geophysical data analyses.
- Section 7 Presents the Quality Control (QC) procedures performed during the prove-out.
- Section 8 Evaluation of geophysical data collection

Table 1-1 East Prove-out Grid Seed Items

ITEM	OE TYPE	DEPTH	ORIENTATIO	EASTING	NORTHIN
1	3.5" Warhead	15	V	743547.7	1013130.25
2	Fuze	12	V	743543.1	1013141.40
3	75mm	31	N-S	743542.2	1013151.81
4	3.5" Motor	11	V	743535.0	1013173.78
5	155mm	35	E-W	743531.3	1013197.59
6	3.5" Warhead	21	N-S	743520.5	1013228.63
7	3.5" Warhead	45	E-W	743516.9	1013243.14
8	Slap Flare	20	N-S	743511.8	1013256.88
9	Fuze	7	N-S	743516.1	1013263.71
10	3.5" Warhead	32	V	743519.1	1013248.79
11	75mm	18	E-W	743532.7	1013205.98
13	3.5" Motor	9	E-W	743540.9	1013171.28
14	Grenade	13	V	743542.3	1013156.61
15	Slap Flare	12	V	743555.3	1013137.26
16	Grenade	20	V	743534.2	1013219.48
17	75mm	32	E-W	743520.8	1013264.32
18	3.5" Motor	10	E-W	743524.3	1013258.56
19	Grenade	10	V	743530.1	1013244.78
20	3.5" Warhead	30	N-S	743554.2	1013160.39
21	3.5" Motor	23	E-W	743566.3	1013134.25
23	Fuze	23	E-W	743555.8	1013171.74
24	Slap Flare	15	E-W	743551.0	1013182.31
25	75mm	16	N-S	743550.9	1013188.68
27	155mm	21	N-S 30deg V	743544.7	1013221.51
28	3.5" Motor	18	N-S	743539.5	1012233.35
29	75 mm	18	V	743535.4	1013251.70

ITEM	OE TYPE	DEPTH	ORIENTATIO	EASTING	NORTHIN
COE 1	BLU-66/B	18	None	743572.8	1013211.72
COE 2	Fuze, PD, M5	12	None	743541.4	1013258.85
COE 3	Fuze, Mech.	11	NE-SW	743552.2	1013272.67
COE 4	M-69 Grenade	6	None	743564.8	1013189.73
COE 5	M-69 Grenade	6	None	743553.5	1013236.45
COE 7	40 mm HEDP	7	N-S	743566.3	1013205.14
COE 8	40 mm w/case	10	N-S	743584.9	1013159.08
COE 9	40 mm Al.	16	N-S	743572.6	1013160.72
COE 11	3.5 Motor	21	E-W	743572.8	1013220
COE 12	3.5 Motor	25	N-S	743581.4	1013140.22
COE 13	M203	18	E-W	743591.6	1013137.68
COE 14	M203	17	300 NW	743580.5	1013170.6
COE 15	12 oz. steel	11	315 NW	743573.3	1013182.21
COE 16	2 12 oz. Al.	19	0	743563.0	1013237.58
COE 17	3.5" Warhead	20	0	743576.6	1013199.74

Note: Items 12, 22, and 26 were M203 grenades that were not buried after discussion with the USAESCH geophysicist on-site.

E-W = East-West

N-S= North-South

V= Vertical

SECTION 2 OBJECTIVES

2.0 The primary objective of the geophysical prove-out was to achieve the following:

1. Demonstrate the capability and effectiveness of the Parsons EM6MK2 towed array and Geonics G858 magnetometer to locate buried simulated MEC items under anticipated conditions at the site.
2. Verify conformance of the geophysical instruments with MR-005-05A (Geophysical Prove-Out Plan) in regards to the anomaly depth detection criteria.
3. Verify the ability of parsons to collect accurate and precise geophysical data.

SECTION 3

GEOPHYSICAL SURVEY EQUIPMENT

3.1 GEOPHYSICAL INSTRUMENTS

3.1.1 Three Geonics™ EM61MKII systems were attached together using dimensional lumber with fiberglass connectors and wooden wheels. The goals in the construction of the array were the following:

- Rigid construction to reduce the motion of the coils relative to each other thereby reducing noise.
- Use material that is as strong as possible while still providing the quiet platform that is required for the collection of geophysical data.
- Use a design that is easily tow able by an off road vehicle (pickup truck or John Deer Gator), while maintaining enough distance from the tow vehicle to minimize any electronic noise from the vehicle.

3.1.2 The array was designed with a coil spacing of three feet. However, the ability to change the spacing to 2.5 feet was developed in case the system was unable to detect all the previously detected items in the “Q” area proveout grid.

3.1.3 The EM-61MK2 device generates an electromagnetic pulse that triggers eddy currents in the subsurface. The eddy current decay rate produces a secondary magnetic field that is monitored by a receiving coil. These secondary magnetic fields are received as data and stored in a data logger until it can be downloaded to a personal computer (PC) for interpretation. The EM-61MK2 coil system receives the signal in receiving coils at two separate heights above the ground surface. The upper and lower coils are separated by a height of forty centimeters giving separate measurements. For this prove out only the bottom coil was used to reduce the weight of the towed array system. The EM-61MK2 data logger collects data at automatic time intervals determined by the user (up to about twelve times per second) or at a pre-programmed distance interval measured by an attached set of wheels with all terrain tires.

3.1.3 The EM-61MK2 uses a 05.x1.0 m coils and records data from either the top coil and three different time gates from the bottom coil or four different time gates from the bottom coil. The latter mode was used for the proveout. The data stream for each sensor was streamed to the logging software over serial cables. The use of the logging software described below allows the logging of the data at rates up to 16 Hz. For this proveout, the data was logged at a rate of 12 Hz.

3.1.4 Geometrics™ G858 Magnetometer the G-858 uses two cesium vapor magnetometer sensors that are comprised of a miniature atomic absorption unit from which a signal proportional to the intensity of the ambient magnetic field is derived. The sensitivity of the instrument is 0.05nT (nano Tesla) and can be read as fast as ten times per second (10 Hertz) depending on required sensitivity. The device was operated as a gradiometer with two sensors collecting magnetic field intensity data separated by a vertical distance of approximately 1.5 feet. The difference between the two sensor readings (divided by the sensor separation) was recorded as the magnetic gradient at the measured location.

3.2 GLOBAL POSITIONING SYSTEM EQUIPMENT

3.2.1 A Trimble 5700 RTK DGPS (differential GPS) was used to position the array. A GPS antenna was placed on a tripod above the center coil and connected to the electronics located in the back of the tow vehicle. The Trimble 5700 RTK DGPS system is an integrated parallel channel GPS receiver with a built-in radio-modem communication system. A dedicated base station broadcasts real-time differential corrections to the rover units being used by the field crew. Positional data in the GGK format was output to the logging computer at 1 s. interval using a serial cable.

3.3 LOGGING SYSTEM

3.3.1 The logging system used was Geometrics Maglog™ software running on a laptop computer held by the operator. The laptop was equipped with an adaptor to provide four serial ports to log the data from the three EM-61MK2s and the RTK GPS system. The logging software provides several functions. They include:

- Streaming of raw data to hard disk. This is the first task of the software and takes priority over everything else.
- Display of results in graphical format so that the operator can have a real time analysis of the equipment functioning.

3.3.2 The logging software puts a time stamp from the computer on each data reading from every sensor. The time stamp is derived from the computer clock and so it is independent of the clocks on the EM-61MK2 and GPS electronics. This removes the requirement for synchronization of EM-61MK2 and GPS clocks and removes any effects of drift on the EM-61MK2 clocks.

3.3.3 The G858 data is stored directly in the internal memory of the instrument controller and is time stamped as it is collected in the field. This data is then downloaded directly to the processing computer at the end of the day using a RS 232 data cable to transfer the data to the computer. The data is

downloaded as station files (.stn) these files are the recorded response, the time and the X, Y location of the recorded values.

3.4 TOW VEHICLE FOR EM61MK2

The tow vehicle employed for this survey was a Ford F350 truck that is interchangeable with a John Deer Gator both vehicles have a similar noise threshold of less than 10mV

This vehicle provides:

- adequate space for all the required electronics,
- two seats so that a driver and an operator can both be in the vehicle,
- selection between 2 or 4 wheel drive,
- Electromagnetically quiet operation.

SECTION 4

GEOPHYSICAL SURVEY PROCEDURES

4.1 DATA ACQUISITION EM61MK2

4.1.1 The data was collected by towing the array of three EM61MK2 back and forth across the proveout grid until complete coverage had been obtained. During this time, the operator is solely responsible for monitoring the displays on the laptop; no other input is required from the operator once data logging has started.

4.1.2 The logging software provides a real time display of the position of the GPS antenna located above the array; however, this is difficult to navigate with because of the distance between the antenna and the tow vehicle. For this survey the tire marks of the tow vehicle and the wheel marks of the towed array platform were used as markers for the next line. The driver uses the marks on the ground from the previous line to navigate the vehicle to ensure that full coverage is obtained over the entire survey grid. The lines were spaced approximately 9 feet apart, approximately the width of the entire array.

4.1.3 At the start and end of the surveying a static test was conducted to verify the operation of the instruments. Data was recorded from the array while it was stationary. Subsequently a 2" trailer ball was placed under a coil in the array and additional data recorded. The ball was then moved to a location under the next coil and data recorded again. This was done for all three coils. This verifies that the instruments are responding to a test item, and ensures that the sensors are connected to the correct serial ports on the computer so that they can be positioned correctly.

4.1.4 Before and after data acquisition on each grid, the array was run back and forth over the latency test setup of three trailer balls all placed at know notations and surveyed in using the DGPS system. This provides a measurement of the instrument latency. The latency can then be determined by finding a correction value that result in exactly overlapping peaks over the item when the instrument is run from different directions.

4.2 DATA ACQUISITION G858

Data acquisition with the G858 magnetometer is quite different than the EM-61Mk2 towed array. The survey instrument is hand carried from one end of the prove-out grid to the other rather than towed by a vehicle. Also the data is collected on 2.5 foot lanes rather than the three foot lanes the Em61MK2 data is collected on. For this survey the instrument was set up with a 24 inch distance between sensors and a bottom sensor height of 18 inches off the ground. This setup has proven effective on previous surveys of the proveout grid and has been determined to give the best resolution and survey

efficiency for the conditions. As the operator walks the instrument from south to north data is collected at a constant rate of 10 hertz. This data is logged at a constant rate to later be correlated to the speed of the operator and the distance from the start point an anomaly is detected. When the operator reaches the half way point of the survey a fiducial button is pushed to mark in the data the location of the instrument within the data. This allows the data processor to break the line of data into sections and more accurately extrapolate the position of the sensor within the data line. When the operator reaches the northern end of the grid the data collection is stopped and the survey instrument is moved to the east 2.5 feet and the procedure is repeated with the operator walking south. This is procedure is repeated until the entire grid has been covered by the operator.

SECTION 5

DATA DOWNLOADING AND PROCESSING

5.1 DATA DOWNLOADING

5.1.1 Maglog creates a separate data file for each sensor (3 EM-61MK2 files and 1 GPS file), plus additional files that provide information on the individual lines within the data file as well as on the instruments that were used to collect each file. These files were transferred from the field laptop computer to the processing computer using a flash memory card.

5.1.2 The G858 data is transferred directly from the internal data logger to the field laptop where corrections in heading and line numbering can be made using the Magmap2000™ program. Once the data has been corrected for position and distance than Magmap2000™ program can export the data in the .XYZ format that is acceptable to Geosoft™.

5.2 DATA PROCESSING

5.2.1 Three data sets were collected during the field effort for this prove-out. All of the data from both the Em and Magnetics surveys were imported into Geometrics *Magmapper2000*™ software for pre-processing. Magmapper reads in all the data and displays the track of the GPS antenna and profile plots of the selected channels from the EM-61MK2 sensors. The offsets to the center of each coil from the GPS antenna are entered into Magmapper and then the data is exported into Geosoft XYZ format. Three XYZ files are created by Magmapper, one for each sensor in the array. Each XYZ file contains the data for each channel recorded by the respective sensor, as well as the position of the sensor based on the location of the GPS antenna and the offsets entered for that unit. The data processor uses Magmapper to correct the direction and heading of the lines of data collected with the magnetometer. Once the correct direction and heading for each line is confirmed the processor can assign the northing and easting locations of the start and end position of the line and the program will convert the station file into the northing and easting format. The program will then output the .XYZ file that has the instrument response and the corrected northing and easting locations of the instrument.

5.2.2 All data sets were processed using Geosoft's *Oasis Montage*™ software. Individual Geosoft databases were created for each proveout grid surveyed.

5.2.3 The EM-61MK2MK2 data were processed with the following procedures:

- Conversion from WG84 latitude and longitude to NAD 83 New York Central state plane coordinates.

- Latency correction using the values derived from the lag bar tests conducted before and after each survey. Typically a .35 s. latency correction was used.
- Drift Correction by subtraction of the median value from each data point in the four time gate channels. The median was calculated using a 150 point rolling statistics filter. The four leveled time gate channels were added together to produce a total channel (ch1+ch2+ch3+ch4= total channel)
- Gridding using .5 grid node spacing and a blanking distance of 2-ft.

5.3.3 The Geometrics G858 data was processed with the following procedures:

- Conversion from WG84 latitude and longitude to NAD 83 New York Central state plane coordinates.
- Latency correction using the values derived from the lag tests conducted before and after each survey. Typically a .35 s. latency correction was used.
- Gridding using .5 grid node spacing and a blanking distance of 2-ft.

SECTION 6 RESULTS

6.1 DATA RESULTS

6.1.1 The geophysical data for the surveyed grids for each proveout area are displayed on a map. Maps with the grids displayed are shown in Figures 6.1 through 6.3 in Appendix A for the East grids respectively. The known locations for the items buried in the East proveout grid are also shown in Table 1-1. The original locations, determined during the January, 2000 OE EE/CA Geophysical Proveout (Report on Geophysical Equipment Test Prove-Out, Parsons, June, 2000), were obtained by pulling tapes from corner locations surveyed in using a Trimble ProXRS with sub-meter accuracy. The locations plotted on Figure 6.1, 6.2 and 6.3 were calculated using the more accurate corner locations. Because the original corner distances for the COE buried items were not available, an approximate shift in position was obtained using the difference between the original and improved corner locations. For this reason this geophysical prove out will focus on the Parsons buried items that have known locations however the COE items will be displayed on the figures to show the items were detected.

Table 6-1

May 06, 2006 - East Prove-Out Grid Results - Em61MKII

Item	Easting	Northing	Description	Depth	Item ID	Picked Easting	Picked Northing	Instrument Response (mV)	Target ID	Pick Target Distance (ft)
PAR1	743546.3	1013127.08	3.5" warhead	15	PAR 01	743547.5	1013127.5	224.23865	1	1.3
PAR2	743543.32	1013138.41	fuze	12	PAR 02	743541.75	1013138.5	69.725876	7	1.6
PAR3	743537.93	1013147.71	75mm	31	PAR 03	743541.25	1013149.75	162.5611	11	3.9
PAR4	743531.94	1013170.11	3.5" motor	11	PAR 04	743533.75	1013170.75	408.70468	20	1.9
PAR5	743527.54	1013194.01	155mm	38	PAR 05	743529.75	1013195.5	530.84009	27	2.7
PAR6	743519.33	1013226	3.5" warhead	21	PAR 06	743519.5	1013225.75	48.523224	36	0.3
PAR7	743513.46	1013239.37	3.5" warhead	45	*	*	*	*	*	*
PAR8	743509.9	1013253.8	slap flare	20	PAR 08	743510.3978	1013254.009	36.395598	51	0.5
PAR9	743515.62	1013260.46	fuze	7	PAR 09	743515.75	1013261	125.01756	48	0.6
PAR10	743517.79	1013245.59	3.5" warhead	32	PAR 10	743517	1013245.5	19.998199	43	0.8
PAR11	743531.19	1013202.72	75mm	18	PAR 11	743531	1013202.75	197.63962	30	0.2
PAR13	743540.35	1013168.37	3.5" rocket	9	PAR 13	743539.25	1013168.5	158.39569	18	1.1
PAR14	743541.56	1013153.62	MKII grenade	13	PAR 14	743541.6193	1013152.727	77.759573	52	0.9
PAR15	743553.77	1013134.27	flare	12	PAR 15	743553.75	1013134	48.883976	4	0.3
PAR16	743531.71	1013215.78	MKII grenade	20	PAR 16	743532	1013216.75	46.124413	32	1.0
PAR17	743519.91	1013261.41	75mm	32	PAR 17	743521.25	1013262.5	51.512039	49	1.7
PAR18	743523.57	1013255.04	3.5" motor	10	PAR 18	743523.25	1013255.25	194.28123	45	0.4
PAR19	743529.13	1013241.34	MKII grenade	10	PAR 19	743529.75	1013241.75	239.49796	42	0.7
PAR20	743553.84	1013157	3.5" rocket	30	PAR 20	743554.75	1013157.25	1210.5985	13	0.9
PAR21	743565.09	1013131.19	3.5" motor	23	PAR 21	743563.25	1013130.75	42.26067	2	1.9
PAR23	743555.31	1013168.52	fuze	23	PAR 23	743556.5	1013169	11.734878	19	1.3
PAR24	743550.98	1013179.49	flare	15	PAR 24	743550	1013179	118.32082	21	1.1
PAR25	743550.6	1013186.09	75mm	35	PAR 25	743551	1013186.25	229.7373	25	0.4
PAR27	743543.66	1013218.15	155mm	21	PAR 27	743544.5	1013218.25	577.19794	35	0.8
PAR28	743538.29	1013230.63	3.5" motor	18	PAR 28	743537.75	1013233.25	113.99545	39	2.7
PAR29	743534.73	1013248.23	75mm	18	PAR 29	743534.25	1013248	315.33334	44	0.5
* Item not picked									Average Distance	1.2

Table 6-2

July 09, 2006 - East Prove-Out Grid Results - Magnetometer

Item	Easting	Northing	Item	depth_in	ID	Northing	Easting	VALUE (nT)	Pick Distance (ft.)
PAR1	743546	1013127.1	3.5" warhead	15	PAR 01	1013126	743548	40.56	2.4
PAR2	743543	1013138.4	fuze	12	PAR 02	1013138	743542	16.85	0.9
PAR3	743538	1013147.7	75mm	31	PAR 03	1013147	743541	12.55	3.3
PAR4	743532	1013170.1	3.5" motor	11	PAR 04	1013171	743533	148.60	1.7
PAR5	743528	1013194	155mm	38	PAR 05	1013194	743530	215.24	2.5
PAR6	743519	1013226	3.5" warhead	21	PAR 06	1013226	743519	9.52	0.2
PAR7	743513	1013239.4	3.5" warhead	45	*	*	*	*	*
PAR8	743510	1013253.8	slap flare (Al)	20	*	*	*	*	*
PAR9	743516	1013260.5	fuze	7	PAR 09	1013261	743516	16.64	0.6
PAR10	743518	1013245.6	3.5" warhead	32	PAR 10	1013244	743518	13.77	2.0
PAR11	743531	1013202.7	75mm	18	PAR 11	1013203	743531	28.59	0.3
PAR13	743540	1013168.4	3.5" rocket	9	PAR 13	1013167	743543	58.25	2.6
PAR14	743542	1013153.6	MKII grenade	13	PAR 14	1013152	743541	30.61	1.3
PAR15	743554	1013134.3	flare (Al)	12	*	*	*	*	*
PAR16	743532	1013215.8	MKII grenade	20	PAR 16	1013217	743532	19.42	1.3
PAR17	743520	1013261.4	75mm	32	PAR 17	1013261	743521	14.18	0.8
PAR18	743524	1013255	3.5" motor	10	PAR 18	1013255	743523	19.62	1.0
PAR19	743529	1013241.3	MKII grenade	10	PAR 19	1013240	743529	60.50	0.9
PAR20	743554	1013157	3.5" rocket	30	PAR 20	1013157	743554	51.58	0.3
PAR21	743565	1013131.2	3.5" motor	23	PAR 21	1013130	743564	13.79	1.5
PAR23	743555	1013168.5	fuze	23	PAR 23	1013169	743555	9.81	0.8
PAR24	743551	1013179.5	flare (Al)	15	*	*	*	*	*
PAR25	743551	1013186.1	75mm	35	PAR 25	1013186	743551	87.26	0.6
PAR27	743544	1013218.2	155mm	21	PAR 27	1013218	743544	104.07	0.2
PAR28	743538	1013230.6	3.5" motor	18	PAR 28	1013231	743539	13.39	0.6
PAR29	743535	1013248.2	75mm	18	PAR 29	1013249	743534	134.25	0.5
* item not detected								Average Distance	1.2

Table 6-3

September 09, 2006 East Prove-out Grid Results - Em61MKII

Item	Easting	Northing	Description	Depth	Item ID	Picked Easting	Picked Northing	Instrument Response (mV)	Target ID	Pick Target Distance (ft)
PAR1	743546.3	1013127.08	3.5" warhead	15	PAR 01	743546.5	1013126.5	177.79567	1	0.6
PAR2	743543.32	1013138.41	fuze	12	PAR 02	743541.75	1013138.25	100.031967	8	1.6
PAR3	743537.93	1013147.71	75mm	31	PAR 03	743542	1013148.25	92.3501968	11	4.1
PAR4	743531.94	1013170.11	3.5" motor	11	PAR 04	743532	1013169.5	272.303619	22	0.6
PAR5	743527.54	1013194.01	155mm	38	PAR 05	743529	1013195	525.484558	29	1.8
PAR6	743519.33	1013226	3.5" warhead	21	PAR 06	743518.25	1013225.5	66.602684	39	1.2
PAR7	743513.46	1013239.37	3.5" warhead	45	PAR 07	743515.25	1013240.25	11.2843208	43	2.0
PAR8	743509.9	1013253.8	slap flare	20	PAR 08	743511.5	1013254.75	30.3224602	52	1.9
PAR9	743515.62	1013260.46	fuze	7	PAR 09	743516	1013261	115.634735	57	0.7
PAR10	743517.79	1013245.59	3.5" warhead	32	PAR 10	743518.25	1013245.75	24.7626572	47	0.5
PAR11	743531.19	1013202.72	75mm	18	PAR 11	743531	1013202.5	246.675125	33	0.3
PAR13	743540.35	1013168.37	3.5" rocket	9	PAR 13	743540	1013168.25	213.664093	19	0.4
PAR14	743541.56	1013153.62	MKII grenade	13	PAR 14	743542.25	1013153.5	125.443909	12	0.7
PAR15	743553.77	1013134.27	flare	12	PAR 15	743556	1013134.5	39.1307144	6	2.2
PAR16	743531.71	1013215.78	MKII grenade	20	PAR 16	743533	1013216.25	69.7193756	36	1.4
PAR17	743519.91	1013261.41	75mm	32	PAR 17	743520	1013261.25	42.2362785	58	0.2
PAR18	743523.57	1013255.04	3.5" motor	10	PAR 18	743524.5	1013254.75	233.46431	53	1.0
PAR19	743529.13	1013241.34	MKII grenade	10	PAR 19	743530	1013242	189.837433	45	1.1
PAR20	743553.84	1013157	3.5" rocket	30	PAR 20	743554.25	1013157.25	890.547974	14	0.5
PAR21	743565.09	1013131.19	3.5" motor	23	PAR 21	743565	1013130.75	44.6897774	3	0.4
PAR23	743555.31	1013168.52	fuze	23	*	*	*	*	*	*
PAR24	743550.98	1013179.49	flare	15	PAR 24	743550.75	1013179.25	145.157104	24	0.3
PAR25	743550.6	1013186.09	75mm	35	PAR 25	743550	1013186	457.981689	27	0.6
PAR27	743543.66	1013218.15	155mm	21	PAR 27	743543.5	1013217.75	663.701416	38	0.4
PAR28	743538.29	1013230.63	3.5" motor	18	PAR 28	743536.75	1013232.75	128.697372	41	2.6
PAR29	743534.73	1013248.23	75mm	18	PAR 29	743535	1013249.25	240.945175	49	1.1
* item not picked									Average Distance	1.1

SECTION 7

QUALITY CONTROL

7.1 INTRODUCTION

7.1.1 Quality control for the Seneca Army Depot Activity geophysical prove-out data was maintained by performing three types of QC procedures: 1) static tests, 2) instrument latency tests over the latency test area and 3) positional quality checks over known item locations.

7.2 STATIC TESTS

7.2.1 Static tests for the EM-61MK2 towed array were performed by holding the array stationary and recording data with and without a test item under each coil. This resulted in four separate tests conducted before and after surveying operations each day. The test object consisted of a metal 2-inch trailer hitch ball and data were collected for approximately 3 minutes in each instance. The static test at the beginning of the day showed on the order of ± 0.5 mv of noise.

7.2.2 Static tests for the G858 magnetometer were conducted by placing the instrument on a wooden test stand that held the instrument steady and at the at the correct height and recording data with and without a test item under each sensor. The test object consisted of a metal 2-inch trailer hitch ball and data were collected for approximately 3 minutes in each instance. The static test at the beginning of the day showed on the order of ± 1 nT of noise.

7.3 INSTRUMENT LATENCY CHECK

7.3.1 A latency test was conducted before and after data acquisition on each grid. The test was conducted by acquiring data while traveling at right angles over the three items previously established latency correction area. An instrument latency correction was applied using the DOD QA/QC module in Oasis Montaj. Use of the correct latency correction results in overlapping peaks when traveling in opposite directions.

7.3.2 A latency test was performed with the G858 magnetometer by placing the test item at the fiducial line on line 0 of the survey area. The line than had two lines of data collected over the area both north and south on this line. When the data was processed the difference between the instrument reading and the marked fiducial line would be equal to the latency correction for the data processing.

7.4 POSITIONAL CHECK

7.4.1 A positional check was conducted by comparing the locations of the anomalies picked in the East proveout grid data with the known locations of the OE simulants buried in the grid. This analysis showed positional errors of approximately 1.1 to 1.2 ft, which is expected based on the width of the EM-61MK2MKII coil and the sensor coverage of the G858 sensor.

SECTION 8 CONCLUSIONS

8.1 Buried simulated UXO items were detected using the EM-61MK2 towed array and G85 magnetometer conducted by Parsons at the east proveout grid located in the Q area at the Seneca Army Depot.

8.2 The results of this study show that the both instruments were capable of acquiring data with a low background noise level and high positional accuracy in accordance with MR-005-05A.

8.3 Based on these results The current configuration of the three EM 61MK2's used in the proveout of the east proveout grid on May 6 and September 9 are capable of detecting buried stimulant items consistent with the conditions expected at Seneca Army Depot. The current configuration of the G858 Magnetometer operated in vertical gradient mode is capable of detecting buried stimulant items consistent with the conditions and density expected at Seneca Army Depot.

8.4 There were some small differences between the instruments and the items they were able to detect. The magnetometer missed the three slap flares (PAR8, PAR15 and PAR24), and a 3.5-inch warhead (PAR7) that were detected in the May and September surveys with the EM-61MK2. The EM-61MK2 survey in May missed the same 3.5-inch warhead at 45 inches that was missed by the magnetometer. The September EM-61MK2 survey detected the 3.5-inch rocket warhead (PAR23) at 45 inches but did not detect the mechanical flare at 23 inches (PAR7). Both of these items were detected just above the background noise threshold of 10mV for the towed array survey. These results are identical to the results of the baseline geophysical survey of the prove-out grid in the 2000 OE EE/CA (Report on Geophysical Equipment Test Prove-Out, Parsons, June, 2000) where the EM61 was not able to detect the mechanical fuse (PAR7) or the 3.5-inch warhead (PAR23) and the magnetometer was not able to detect the 3.5-inch warhead or the flare simulants. The three flare simulants in the magnetometer survey were constructed out of non-ferrous aluminum, a metal that is virtually undetectable to the instrument due to the lack of a strong magnetic field needed for the 858 to detect items.

8.5 Both instruments were able to detect the buried OE simulants on the Parsons side of the grid to and beyond the depths specified in USAESCH Data Item Description (DID) MR-005-05A, which defines geophysical investigation performance goals. The one item missed by both instruments, a 3.5" rocket warhead was buried below the detection limit for both of the instruments, as was the fuze missed by the EM-61.

References

DID OE-005-05 Geophysical Prove-Out Plan

January, 2000 OE EE/CA Geophysical Proveout (Report on Geophysical Equipment Test Prove-Out, Parsons, June, 2000)

MR-005-05A Geophysical Investigation Plan

APPENDIX B

WOODS TRANSECT INVESTIGATION SUMMARY

Appendix B Table 1
SEAD 46 Woods Transect Investigation
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Transect #	A Linear Width (ft)	B Linear Width (ft)	Linear Length (ft)	Area (sq ft)	Total Anomalies	Munitions Debris
East Transects						
E-02	10	10	126.2	1,262		
E-03	10	10	130.2	1,302	47	6
E-05	10	10	128.8	1,288	44	9
E-06	10	10	137.1	1,371	34	6
E-09	10	10	344	3,440		
E-13	10	10	420.2	4,202	51	20
E-15	10	10	162.5	1,625		
E-18	10	10	113.2	1,132	11	2
E-21	10	10	575.6	5,756		
E-23					23	0
E-24	10	10	565.3	5,653		
E-31	10	10	670.11	6,701	35	8
E-35	10	10	580.4	5,804	43	3
E-36	10	10	583.7	5,837		
North Transects						
N-01	EOD #3					
N-02	EOD #3					
N-03	EOD #3					
N-04	EOD #3					
N-05	EOD #3					
N-06	EOD #3					
N-07	10	10	113.4	1,134		
N-08	10	10	264	2,640	57	4
N-10	10	10	150.2	1,502		
N-11	20.2	20.2	125	2,525		
N-13	10	10	174.1	1,741	89	0
Total Area (sq ft)				54,915	Total Anomalies	Total MD
Total Area (Acres)				1.1	434	58

Appendix B Table 2
SEAD 57 Woods Transect Investigation
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Transect #	A Linear Width (ft)	B Linear Width (ft)	Linear Length (ft)	Area (sq ft)	Median Width (ft)	Total Anomalies	Munitions Debris
South Transect							
S-1	10	10	490.4	4,904	for Trapezoid area	28	2
S-2	10	10	414.1	4,141		7	1
S-3	10	10	401	4,010		20	0
S-4	10	10	405.2	4,052		37	3
S-5	10	10	251.3	2,513		39	1
S-6	10	10	272.1	2,721		33	3
S-7	23	23	195.1	4,487		37	1
S-8	17.3	12.9	216.4	3,268	15.1	33	1
S-9	10	15	227.7	2,846	12.5	27	2
S-10	19.1	10	251.9	3,665	14.55	20	0
S-11	15.6	10	302.9	3,877	12.8	14	0
S-12	10	10	232.1	2,321		23	0
S-13	10	10	234.5	2,345		17	0
West Transect							
W-1	10	10	481.21	4,812		17	13
W-2	15.5	10	463.4	5,908	12.75	21	21
W-3	10	10	492.6	4,926		19	13
W-4	10	10	499.6	4,996		37	37
W-5	10	10	483.7	4,837		33	32
W-6	10	10	468.4	4,684		49	39
W-7	10	10	497.11	4,971		54	49
W-8	10	10	485.2	4,852		57	53
W-9	10	10	494	4,940		42	31
W-10	10	10	482.5	4,825		19	6
W-11	10	10	501.8	5,018		29	21
W-12	10	10	492.2	4,922		67	54
W-13	10	10	512.5	5,125		95	20
W-14	10	10	278	2,780		54	19
East Transect							
E-1	12	12	255.11	3,061			
E-2	12	12	322.51	3,870		11	1
E-3	12	12	335.47	4,026		5	0
E-4	12	12	356.43	4,277		12	1
E-5	12	12	350.11	4,201		12	0
E-6	12	12	342.23	4,107		8	0
E-7	12	12	389.2	4,670		18	1
E-8	12	12	449.42	5,393		13	0
E-9	10	10	483.28	4,833		9	0
E-10	10	10	452.29	4,523		6	0
E-11	10	10	439.21	4,392		5	0
E-12	10	10	443.19	4,432		9	0
E-13	10	10	438.36	4,384		3	0
Total Area (sq ft)				168,916	Total Anomalies		1039
Total Area (Acres)				4	Total Munitions Debris		425

APPENDIX C

MEC AND MPPEH RECOVERED AT SENECA ARMY DEPOT

APPENDIX C
SEAD 002-R-01 (EOD#2) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft) Easting (X)	Northing (Y)	Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
EOD2-029	747662.25	1007468.75	45	Mv	8/2/2006	45	9	7	Munitions Debris	8/3/2006	Projectile fuze	-	
EOD2-003	747558.75	1007434.5	29	Mv	8/2/2006	150	8	12	Cultural Debris	8/3/2006	Wire	-	
EOD2-030	747645.25	1007503.5	20	Mv	8/2/2006	30	8	3	Cultural Debris	8/3/2006	Nails	-	
EOD2-009	747592	1007248.5	24	Mv	8/2/2006	65	7	6	Cultural Debris	8/3/2006	Trash	-	
EOD2-005	747595.25	1007372.75	26	Mv	8/2/2006	45	5	3	Cultural Debris	8/3/2006	Trash	-	
EOD2-012	747554.75	1007202	31	Mv	8/2/2006	30	5	3	Cultural Debris	8/3/2006	Trash	-	
EOD2-028	747666.75	1007470.5	20	Mv	8/2/2006	18	5	2	Cultural Debris	8/3/2006	Trash	-	
EOD2-035	747581.5	1007491.25	33	Mv	8/2/2006	25	5	2	Cultural Debris	8/3/2006	Nails	-	
EOD2-036	747583.25	1007497.75	21	Mv	8/2/2006	50	5	2	Cultural Debris	8/3/2006	Nails	-	
EOD2-041	747508.02	1007486.5	18	Mv	8/2/2006	35	5	2	Cultural Debris	8/3/2006	Brick	-	
EOD2-011	747516.25	1007185.25	20	Mv	8/2/2006	17	4	2	Cultural Debris	8/3/2006	Nail	-	
EOD2-014	747741.5	1007257.5	20	Mv	8/2/2006	75	4	2	Cultural Debris	8/3/2006	Wire	-	
EOD2-016	747837.75	1007276	18	Mv	8/2/2006	180	4	2	MPPEH	8/3/2006	Electric squib	-	
EOD2-021	747784.75	1007421	16	Mv	8/2/2006	16	4	2	Munitions Debris	8/3/2006	Frag	-	
EOD2-038	747560.5	1007481.75	17	Mv	8/2/2006	25	4	2	Cultural Debris	8/3/2006	Nail	-	
EOD2-004	747584.75	1007435.5	138	Mv	8/2/2006	185	3	2	Cultural Debris	8/3/2006	Wire	-	
EOD2-008	747652.25	1007286.75	134	Mv	8/2/2006	205	3	2	Munitions Debris	8/3/2006	Slap flare	-	
EOD2-013	747604.25	1007208.25	242	Mv	8/2/2006	250	3	1	Munitions Debris	8/3/2006	Slap flare	-	
EOD2-018	747747.75	1007357	106	Mv	8/2/2006	101	3	2	Cultural Debris	8/3/2006	Wire	-	
EOD2-019	747751.5	1007376.75	27	Mv	8/2/2006	25	3	3	Cultural Debris	8/3/2006	Trash	-	
EOD2-023	747694.75	1007512.25	55	Mv	8/2/2006	65	3	2	Munitions Debris	8/3/2006	Projectile fuze	-	
EOD2-026	747702	1007447.5	41	Mv	8/2/2006	50	3	2	Cultural Debris	8/3/2006	Trash	-	
EOD2-027	747697.25	1007443.5	19	Mv	8/2/2006	25	3	2	Munitions Debris	8/3/2006	20mm	-	
EOD2-033	747603.75	1007458	32	Mv	8/2/2006	90	3	2	Cultural Debris	8/3/2006	Nails	-	
EOD2-034	747593.1	1007462.52	47	Mv	8/2/2006	75	3	3	Cultural Debris	8/3/2006	Wire	-	
EOD2-037	747577.32	1007493.81	15	Mv	8/2/2006	20	3	2	Cultural Debris	8/3/2006	wire	-	
EOD2-015	747752.25	1007224.75	122	Mv	8/2/2006	105	2	2	Cultural Debris	8/3/2006	Wire	-	
EOD2-020	747741.5	1007386.5	37	Mv	8/2/2006	50	2	2	Cultural Debris	8/3/2006	Trash	-	
EOD2-031	747633.25	1007504.75	21	Mv	8/2/2006	29	2	2	Cultural Debris	8/3/2006	Wire	-	
EOD2-032	747632.25	1007497.5	120	Mv	8/2/2006	129	2	2	Cultural Debris	8/3/2006	Trash	-	
EOD2-042	747517	1007490	32	Mv	8/2/2006	30	2	2	Cultural Debris	8/3/2006	Wire	-	
EOD2-043	747543.75	1007470.5	596	Mv	8/2/2006	600	2	2	Cultural Debris	8/3/2006	Trash	-	
EOD2-017	747791	1007289.5	691	Mv	8/2/2006	750	1	1	Cultural Debris	8/3/2006	Trash	-	
EOD2-1D	747598.9	1007471.8	700	mV	1/11/2007	700	0	0	Cultural Debris	8/4/2006	Pieces of wire found near flag D in polygon 1	-	
EOD2-2A	747564	1007448.9	700	mV	1/11/2007	700	0	0	Cultural Debris	8/4/2006	24" slab on cultural debri found near flag A in polygon 2	-	
EOD2-2E	747584.1	1007452.6	700	mV	1/11/2007	700	0	0	Cultural Debris	8/4/2006	Many bricks found near flag E in polygon 2	-	
EOD2-3A	747602.9	1007436.3	700	mV	1/11/2007	700	0	0	Cultural Debris	8/4/2006	Metal plate found near flag A in polygon 3	-	
EOD2-3D	747615.6	1007437.2	700	mV	1/11/2007	700	0	0	Cultural Debris	8/4/2006	Nails found near flag D in polygon 3	-	
EOD2-3D-2	747615.6	1007437.2	700	mV	7/18/2007	700	0	0	Cultural Debris	8/4/2006	Bricks found near flag D in polygon 3	-	
EOD2-4C	747677.1	1007487.2	700	mV	1/11/2007	700	0	36	Cultural Debris	8/3/2006	55 gallon drum on pallet found near flag C in polygon 4	-	
EOD2-4D	747694.3	1007487.8	700	mV	1/11/2007	700	0	0	Cultural Debris	8/3/2006	Alum foil found near flag D in polygon 4	-	
EOD2-4E	747696.8	1007476.4	700	mV	1/11/2007	700	0	0	Cultural Debris	8/3/2006	Alum foil found near flag E in polygon 4	-	
EOD2-5A	747725.8	1007498.6	700	mV	1/11/2007	700	0	0	Cultural Debris	8/3/2006	Pieces of wire found near flag A in polygon 5	-	
EOD2-5B	747709.9	1007468.2	700	mV	1/11/2007	700	0	0	Cultural Debris	8/3/2006	Alum foil found near flag B in polygon 5	-	
EOD2-5H	747744.8	1007190.9	700	mV	1/11/2007	700	0	0	Cultural Debris	8/3/2006	Handle found near flag H in polygon 5	-	
EOD2-5L	747725.2	1007455.8	700	mV	1/11/2007	700	0	0	Cultural Debris	8/3/2006	Nail found near flag L in polygon 5	-	
EOD2-5L-2	747725.2	1007455.8	700	mV	7/18/2007	700	0	0	Cultural Debris	8/3/2006	Alum foil found in polygon 5 near flag L	-	
EOD2-6A	747741.9	1007441.2	700	mV	1/11/2007	700	0	0	Cultural Debris	8/4/2006	Nail found near flag A in polygon 6	-	
EOD2-7A	747786.4	1007460.1	700	mV	1/11/2007	700	0	0	Cultural Debris	8/4/2006	Pipe found in polygon 7	-	

Note: QC Code (-) indicates the Anomaly was not QC'ed, (Pass) indicates the Anomaly was QC'ed and was acceptable.

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Local Training Area	HS_296	740012.25	1007496.5	2592	mV	10/2/2006	2592	30	39	Cultural Debris	10/11/2006	Steel rod 1in dia. unknown length could not remove	Pass	KC
Local Training Area	HS_568	740004.25	1007436.75	696	mV	10/2/2006	698	13	14	Cultural Debris	10/11/2006	Very large washer	Pass	KC
Local Training Area	HS_241	737766	1007167.25	111	mV	10/2/2006	113	12	2	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_637	740429.75	1007587.75	1060	mV	10/2/2006	1061	10	30	Cultural Debris	10/11/2006	R/R spike plate with 3ea spikes	-	
Grenade Range	GRA6-6	736931.25	1008728.5	17	Mv	7/17/2006	20	9	6	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRA6-7	736932.5	1008728.75	18	Mv	7/17/2006	25	9	6	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRB6-139	737080.75	1008700.5	24	Mv	7/18/2006	85	9	12	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRC3-26	737260.25	1007917.5	19	Mv	7/25/2006	40	9	24	Cultural Debris	7/27/2006	Trash	Pass	KC
Local Training Area	HS_482	739014	1007503.25	58	mV	11/30/2006	58	9	6	Cultural Debris	11/2/2006	Wire	-	
Grenade Range	GRA6-25	736933.5	1008539.25	17	Mv	7/17/2006	19	8	24	Cultural Debris	7/19/2006	Nail	Pass	KC
Grenade Range	GRB3-108	737154.25	1007878.75	66	Mv	7/26/2006	98	8	5	Cultural Debris	7/27/2006	Seed item	-	
Grenade Range	GRB5-158	737134.75	1008492.75	29	Mv	7/26/2006	29	8	8	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRC3-119	737400.75	1007906.5	16	Mv	7/26/2006	21	8	24	Cultural Debris	7/31/2006	Trash	Pass	KC
Grenade Range	GRD3-9	737545	1007920	42	Mv	7/21/2006	50	8	10	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Local Training Area	HS_028	739443.75	1007197	18	mV	11/30/2006	18	8	30	Cultural Debris	11/2/2006	Scrap metal	-	
Local Training Area	HS_187	737886.75	1007519	104357	mV	10/2/2006	5000	8	12	Cultural Debris	10/10/2006	Large flat scrap metal	-	
Local Training Area	HS_519	739510.272	1007502.299	32	mV	11/30/2006	32	8	4	Cultural Debris	11/6/2006	Spike	-	
Local Training Area	HS_599	740427.036	1007509.699	36	mV	11/30/2006	35	8	6	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_628	740441.75	1007675.75	282	mV	10/2/2006	285	8	6	Cultural Debris	10/11/2006	Metal embedded in a cement block could not remove	-	
Local Training Area	HS_629	740440.25	1007682	141	mV	10/2/2006	140	8	2	Cultural Debris	10/11/2006	Metal embedded in a cement block	-	
Grenade Range	GRB6-106	737067.25	1008679	20	Mv	7/18/2006	45	7	3	Cultural Debris	7/19/2006	Trash	Pass	KC
Grenade Range	GRC2-28	737258.5	1007522.75	110	Mv	7/25/2006	170	7	14	Cultural Debris	8/23/2006	Scrap metal	Pass	KC
Grenade Range	GRC2-54	737466.25	1007505.25	17	Mv	7/25/2006	18	7	2	Cultural Debris	8/23/2006	Scrap metal	-	
Grenade Range	GRC3-127	737497	1007842	58	Mv	7/26/2006	90	7	8	Cultural Debris	7/31/2006	Trash	-	
Grenade Range	GRC5-147	737457.5	1008427.5	33	Mv	8/1/2006	35	7	12	Cultural Debris	8/2/2006	Trash	-	
Grenade Range	GRD1-1	737646.5	1007480.5	19	Mv	7/21/2006	18	7	6	Cultural Debris	7/25/2006	Nail	-	
Grenade Range	GRD2-15	737594	1007742.75	24	Mv	7/21/2006	45	7	12	Cultural Debris	7/24/2006	Scrap metal	-	
Grenade Range	GRD3-14	737515.75	1007989.25	21	Mv	7/21/2006	16	7	15	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRD5-29	737520.2	1008329.54	19	Mv	7/21/2006	26	7	18	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRGAP_048	737152	1008007.25	30	mV	10/3/2006	32	7	6	Munitions Debris	10/12/2006	40mm base	Pass	KC
Local Training Area	HS_208	737955.75	1007257.5	173	mV	10/2/2006	170	7	20	Cultural Debris	10/11/2006	R/R spike plate with 1 ea spike	Pass	KC
Local Training Area	HS_370	739345.25	1007552.25	155	mV	10/2/2006	154	7	9	Munitions Debris	10/11/2006	Small Arms, several Seven .50 cal hoods	Pass	KC
Local Training Area	HS_580	740055.25	1007486.75	3678	mV	10/2/2006	3675	7	3	Cultural Debris	10/11/2006	Scrap metal	Pass	KC
Local Training Area	HS_612	740445.75	1007588.75	1004	mV	10/2/2006	1006	7	20	Cultural Debris	10/11/2006	R/R spike plate with 2ea spikes	-	
Grenade Range	GRA2-1	736976	1007713.5	39	Mv	7/25/2006	36	6	24	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRA6-1	736935.25	1008620.75	139	Mv	7/17/2006	130	6	1	Cultural Debris	7/19/2006	Seed item	Pass	KC
Grenade Range	GRA6-11	736987	1008606.25	59	Mv	7/17/2006	105	6	5	Cultural Debris	7/19/2006	Seed item	-	
Grenade Range	GRA6-13	736997.5	1008541	41	Mv	7/17/2006	65	6	18	Cultural Debris	7/19/2006	Piece of chain	-	
Grenade Range	GRA6-16	736994.25	1008539.5	42	Mv	7/17/2006	16	6	14	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRA6-21	736944.75	1008524	67	Mv	7/17/2006	130	6	1	Cultural Debris	7/19/2006	Seed item painted orange	Pass	KC
Grenade Range	GRB2-23	737037.44	1007521.87	14	Mv	7/25/2006	40	6	30	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRB3-10	737143	1007791	167	Mv	7/26/2006	169	6	3	Cultural Debris	7/27/2006	Seed item & 40mm head	Pass	KC
Grenade Range	GRB3-100	737182.25	1007863.5	22	Mv	7/26/2006	21	6	12	Cultural Debris	7/27/2006	Trash	Pass	KC
Grenade Range	GRB3-102	737199.75	1007865.5	50	Mv	7/26/2006	55	6	3	Cultural Debris	7/27/2006	Seed item & 40mm head	-	
Grenade Range	GRB3-26	737040.5	1007836.5	37	Mv	7/26/2006	32	6	8	Cultural Debris	7/27/2006	Seed Item	-	
Grenade Range	GRB3-30	737082.5	1007915.25	59	Mv	7/26/2006	59	6	10	No Contact	7/27/2006	40mm head and Seed item, B3-0029 and B3-0030 are the same item.	Pass	KC
Grenade Range	GRB3-34	737045.25	1007977	79	Mv	7/26/2006	86	6	10	Cultural Debris	7/27/2006	Seed item	Pass	KC
Grenade Range	GRB3-8	737115.75	1007819.5	22	Mv	7/26/2006	55	6	10	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRB3-89	737246.09	1007785.04	33	Mv	7/26/2006	78	6	8	Cultural Debris	7/27/2006	Seed item	Pass	KC
Grenade Range	GRB3-94	737176.21	1007780.27	75	Mv	7/26/2006	69	6	4	Cultural Debris	7/27/2006	Wrench & 40mm head	-	
Grenade Range	GRB4-03	737203.5	1008048.25	52	Mv	7/20/2006	65	6	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB5-38	737169.25	1008454.25	69	Mv	7/27/2006	63	6	1	Cultural Debris	8/1/2006	Seed item	Pass	KC
Grenade Range	GRB5-42	737227.5	1008478.25	153	Mv	7/27/2006	155	6	1	Cultural Debris	8/1/2006	Seed item	-	
Grenade Range	GRB6-175	737158.75	1008561.5	46	Mv	7/18/2006	50	6	8	Cultural Debris	7/20/2006	Seed Item	-	
Grenade Range	GRB6-192	737217.25	1008540.25	23	Mv	7/18/2006	23	6	24	Cultural Debris	7/19/2006	Wire many small bits	-	

APPENDIX C
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Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB6-34	737048	1008629.5	35	Mv	7/18/2006	30	6	10	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRB6-39	737043.5	1008608.5	23	Mv	7/18/2006	70	6	8	No Contact	7/20/2006	Seed item, B6-0038 and B6-0039 are the same item.	-	
Grenade Range	GRB6-42	737078	1008610.5	27	Mv	7/18/2006	25	6	7	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRB6-49	737112.75	1008598.25	92	Mv	7/18/2006	200	6	5	Cultural Debris	7/20/2006	Seed Item	Pass	KC
Grenade Range	GRB6-84	737166.75	1008662	40	Mv	7/18/2006	125	6	9	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRC2-36	737297.5	1007523.5	35	Mv	7/21/2006	70	6	12	Cultural Debris	8/23/2006	Scrap metal	Pass	KC
Grenade Range	GRC2-37	737301.25	1007514.5	38	Mv	7/21/2006	40	6	24	Cultural Debris	8/23/2006	Nail bed, nails were found away from flag 1 to 24 "	Pass	KC
Grenade Range	GRC3-110	737499.5	1007979.5	51	Mv	7/26/2006	47	6	1	Cultural Debris	7/27/2006	Seed item	-	
Grenade Range	GRC3-112	737450.25	1007963.75	23	Mv	7/26/2006	60	6	12	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRC3-121	737426	1007876.75	60	Mv	7/25/2006	75	6	12	Cultural Debris	7/31/2006	Seed item, C3-0121 and C3-0122 are the same item.	-	
Grenade Range	GRC3-128	737489.92	1007816.11	31	Mv	7/26/2006	97	6	12	Cultural Debris	7/31/2006	Seed item	-	
Grenade Range	GRC3-48	737322.75	1007900.75	92	Mv	7/25/2006	120	6	10	Cultural Debris	7/31/2006	Seed item	-	
Grenade Range	GRC3-86	737332.25	1007955.5	99	Mv	7/26/2006	112	6	2	Cultural Debris	7/27/2006	Seed item	-	
Grenade Range	GRC3-9	737320.75	1007774	32	Mv	7/26/2006	65	6	8	Cultural Debris	7/31/2006	Seed item	-	
Grenade Range	GRC4-44	737374.25	1008191.5	38	Mv	7/20/2006	30	6	0	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRC5-1	737317.75	1008410.25	141	Mv	7/27/2006	154	6	5	Cultural Debris	8/2/2006	Seed item	-	
Grenade Range	GRC5-162	737463.25	1008496.5	23	Mv	8/1/2006	22	6	14	Cultural Debris	8/1/2006	Horseshoe piece	-	
Grenade Range	GRC5-181	737344	1008464.5	38	Mv	7/27/2006	44	6	8	Cultural Debris	8/1/2006	Seed item	-	
Grenade Range	GRC6-120	737399	1008589	103	Mv	7/17/2006	136	6	2	Cultural Debris	7/20/2006	Seed Item	-	
Grenade Range	GRD7-2	737408.5	1008776.75	63	Mv	7/21/2006	72	6	10	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRD2-7	737627.42	1007513.06	69	Mv	7/21/2006	100	6	16	Cultural Debris	7/24/2006	R/R spike	-	
Grenade Range	GRD3-11	737545.25	1007973.75	20	Mv	7/21/2006	19	6	8	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRD3-12	737532	1007975.5	17	Mv	7/21/2006	33	6	8	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRD4-1	737530.25	1008186	23	Mv	7/21/2006	25	6	3	Munitions Debris	7/25/2006	Frag	Pass	KC
Grenade Range	GRD5-20	737506.25	1008495.5	113	Mv	7/21/2006	116	6	5	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRD5-28	737544.06	1008334.31	54	Mv	7/21/2006	74	6	8	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRGAP_016	737344.25	1007999	33	mV	10/3/2006	32	6	4	Munitions Debris	10/12/2006	40mm base	Pass	KC
Local Training Area	HS_007	738401.539	1007130.377	390	mV	10/2/2006	390	6	16	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_008	738409	1007131	105	mV	10/2/2006	105	6	24	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_018	738510	1007216.75	16	mV	11/30/2006	16	6	20	Cultural Debris	11/2/2006	Nail	-	
Local Training Area	HS_029	739521.928	1007172.759	134	mV	10/2/2006	134	6	4	Cultural Debris	10/24/2006	Soda can	Pass	KC
Local Training Area	HS_088	739974.75	1007296	142	mV	10/2/2006	142	6	0	Cultural Debris	10/24/2006	Scrap metal	-	
Local Training Area	HS_148	738527.75	1007272	154	mV	10/2/2006	155	6	24	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_191	737835	1007514.5	153	mV	10/2/2006	153	6	38	Cultural Debris	10/10/2006	Re-bar	Pass	KC
Local Training Area	HS_210	737974.75	1007243.75	399	mV	10/2/2006	401	6	12	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_214	737958.205	1007226.878	102	mV	10/2/2006	100	6	8	Cultural Debris	10/10/2006	Burn pit/area	Pass	KC
Local Training Area	HS_253	737916.25	1007188.75	249	mV	10/2/2006	253	6	2	Cultural Debris	10/10/2006	Burn/trash pit	Pass	KC
Local Training Area	HS_284	740318.5	1007552.5	187	mV	10/2/2006	189	6	0	Cultural Debris	10/24/2006	Scrap metal	-	
Local Training Area	HS_288	740294.5	1007563	824	mV	10/2/2006	824	6	6	Cultural Debris	10/24/2006	Scrap metal	-	
Local Training Area	HS_353	739759.25	1007503.5	426	mV	10/2/2006	425	6	10	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_367	739383.5	1007565.75	184	mV	10/2/2006	186	6	9	Munitions Debris	10/11/2006	Small Arms, several Six .50 cal heads	-	
Local Training Area	HS_584	740307.75	1007447	187	mV	10/2/2006	188	6	15	Cultural Debris	10/11/2006	Iron rod	-	
Local Training Area	HS_598	740411.5	1007502.25	36	mV	11/30/2006	36	6	20	Cultural Debris	11/6/2006	Spike	-	
Local Training Area	HS_610	740467.5	1007590	790	mV	10/2/2006	790	6	14	Cultural Debris	10/11/2006	R/R spike plate	-	
Local Training Area	HS_657	740380	1007610.5	130	mV	10/2/2006	132	6	4	Cultural Debris	10/11/2006	A pit of nails	-	
Local Training Area	HS_659	740362.25	1007628.5	112	mV	10/2/2006	115	6	4	Cultural Debris	10/11/2006	R/R spike	-	
Grenade Range	GRA3-2	736979	1007982.25	38	Mv	7/25/2006	42	5	2	Cultural Debris	7/27/2006	Seed item	-	
Grenade Range	GRB2-21	737010.5	1007579.75	26	Mv	7/25/2006	43	5	12	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRB3-16	737117.5	1007770	19	Mv	7/26/2006	33	5	24	Cultural Debris	7/27/2006	Wire, many small bits remain in the roots of a tree	-	
Grenade Range	GRB3-46	737110.25	1007945	21	Mv	7/26/2006	22	5	7	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRB3-93	737191	1007778	33	Mv	7/26/2006	32	5	12	Cultural Debris	7/27/2006	Wire and hot rocks	-	
Grenade Range	GRB4-06	737208.5	1008067	18	Mv	7/20/2006	50	5	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-73	737209.5	1008083	57	Mv	7/20/2006	180	5	2	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-108	737197.25	1008317.5	20	Mv	7/27/2006	55	5	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-126	737035.5	1008416.25	43	Mv	7/26/2006	45	5	4	Cultural Debris	7/31/2006	Trash	Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB5-136	737073.67	1008458.57	41	Mv	7/26/2006	54	5	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-137	737077	1008456.5	45	Mv	7/26/2006	56	5	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-146	737097	1008478.25	51	Mv	7/26/2006	55	5	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-46	737209.75	1008419	50	Mv	7/27/2006	40	5	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-48	737245.25	1008403.25	33	Mv	7/27/2006	28	5	2	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRB5-72	737094	1008409.75	47	Mv	7/26/2006	54	5	9	MPPEH	7/31/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-82	737120	1008351.25	45	Mv	7/26/2006	76	5	4	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-85	737099.75	1008373.25	36	Mv	7/26/2006	74	5	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-95	737100.75	1008340.25	48	Mv	7/26/2006	56	5	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-96	737107	1008330.75	47	Mv	7/26/2006	49	5	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-99	737111.75	1008310.25	67	Mv	7/26/2006	89	5	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB7-23	737021.25	1008819.25	18	Mv	7/21/2006	23	5	24	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRC3-113	737440	1007965.25	23	Mv	7/26/2006	25	5	14	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRC3-116	737446	1007931.5	18	Mv	7/26/2006	35	5	12	Cultural Debris	7/31/2006	Trash	-	
Grenade Range	GRC3-8	737322.66	1007775.74	33	Mv	7/26/2006	20	5	10	Cultural Debris	7/31/2006	Trash	-	
Grenade Range	GRC5-104	737334.25	1008251	53	Mv	7/27/2006	66	5	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-105	737338.75	1008252.25	45	Mv	7/27/2006	46	5	5	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-109	737346	1008259.75	44	Mv	7/27/2006	51	5	2	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-119	737368	1008283.5	50	Mv	8/1/2006	49	5	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-124	737373.5	1008330.5	67	Mv	8/1/2006	68	5	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-125	737383	1008301	46	Mv	8/1/2006	45	5	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-130	737470	1008273.75	25	Mv	8/1/2006	23	5	6	Cultural Debris	8/1/2006	Trash	Pass	KC
Grenade Range	GRC5-132	737496.75	1008318.75	22	Mv	8/1/2006	21	5	5	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-137	737412.5	1008320.25	40	Mv	8/1/2006	43	5	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-173	737401.25	1008457.5	17	Mv	8/1/2006	18	5	14	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRC5-66	737297.75	1008277.75	76	Mv	7/27/2006	69	5	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-74	737301.75	1008310.75	55	Mv	7/27/2006	69	5	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-88	737335.75	1008276.75	52	Mv	7/27/2006	52	5	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC6-09	737427	1008564.75	46	Mv	7/17/2006	124	5	3	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRC6-113	737365.75	1008551.25	21	Mv	7/17/2006	36	5	2	Cultural Debris	7/20/2006	Wire	-	
Grenade Range	GRC6-116	737378.25	1008551.25	37	Mv	7/17/2006	60	5	5	MPPEH	7/20/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-156	737490.75	1008728.5	178	Mv	7/17/2006	180	5	2	Cultural Debris	7/19/2006	Seed Item	-	
Grenade Range	GRC6-168	737453.25	1008640.8	72	Mv	7/17/2006	102	5	3	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-22	737373.75	1008527.75	44	Mv	7/17/2006	55	5	1	Cultural Debris	7/19/2006	Seed Item	-	
Grenade Range	GRC6-33	737352.75	1008543.25	69	Mv	7/17/2006	70	5	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-43	737348.25	1008529.5	52	Mv	7/17/2006	73	5	12	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-52	737310.25	1008554.25	22	Mv	7/17/2006	36	5	2	Cultural Debris	7/19/2006	Trash	Pass	KC
Grenade Range	GRC6-56	737273.75	1008507.5	63	Mv	7/17/2006	64	5	1	Cultural Debris	7/19/2006	Seed Item	-	
Grenade Range	GRC6-63	737268.5	1008543.25	36	Mv	7/17/2006	39	5	2	Cultural Debris	7/19/2006	Trash	Pass	KC
Grenade Range	GRC6-67	737274	1008553.75	133	Mv	7/17/2006	142	5	2	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-70	737285.75	1008545	118	Mv	7/17/2006	127	5	3	Cultural Debris	7/19/2006	Trash	-	
Grenade Range	GRC7-1	737430.07	1008751.33	22	Mv	7/21/2006	23	5	4	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRC7-15	737310.5	1008912.75	23	Mv	7/21/2006	25	5	10	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRD4-16	737564.56	1008089.06	18	Mv	7/21/2006	30	5	3	Cultural Debris	7/25/2006	Trash	Pass	KC
Grenade Range	GRD5-12	737595.75	1008315.75	29	Mv	7/21/2006	39	5	0	Hot Soil	7/24/2006	Hot rocks	Pass	KC
Grenade Range	GRGAP_005	737198	1008079.75	54	mV	10/3/2006	54	5	10	MPPEH	10/12/2006	M-73 sub cal pieces	Pass	KC
Grenade Range	GRGAP_010	737213.25	1008058	21	mV	10/3/2006	22	5	12	Cultural Debris	10/12/2006	Bolt	Pass	KC
Grenade Range	GRGAP_025	737437.25	1008092.75	222	mV	10/3/2006	221	5	18	Munitions Debris	10/12/2006	Sub cal with head	Pass	KC
Grenade Range	GRGAP_040	737259.25	1008799	20	mV	10/3/2006	23	5	10	Cultural Debris	10/10/2006	-	-	
Grenade Range	GRGAP_047	737143.75	1008014	70	mV	10/3/2006	71	5	10	Cultural Debris	10/12/2006	Nails	Pass	KC
Local Training Area	HS_014	738473.5	1007228	229	mV	10/2/2006	229	5	24	Cultural Debris	10/10/2006	-	Pass	KC
Local Training Area	HS_047	739871.75	1007208.5	102	mV	10/2/2006	102	5	6	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_052	739856	1007173.75	1744	mV	10/2/2006	1744	5	1	Cultural Debris	10/11/2006	-	Pass	KC
Local Training Area	HS_064	739998.25	1007194	323	mV	10/2/2006	323	5	16	Cultural Debris	10/11/2006	-	Pass	KC
Local Training Area	HS_131	739793.573	1007281.206	129	mV	10/2/2006	129	5	10	Cultural Debris	10/11/2006	-	-	

APPENDIX C
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Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Local Training Area	HS_141	738934.5	1007306.25	55	mV	11/30/2006	56	5	16	Cultural Debris	11/2/2006	Wire	-	
Local Training Area	HS_150	738435.25	1007302.25	49	mV	11/30/2006	49	5	6	Cultural Debris	11/2/2006	Metal handle	-	
Local Training Area	HS_278	740295.615	1007606.653	656	mV	10/2/2006	657	5	9	Cultural Debris	10/11/2006	R/R spike plate with 2ea spikes	-	
Local Training Area	HS_411	738274.5	1007526.5	192	mV	10/2/2006	192	5	30	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_486	739339.25	1007540	628	mV	10/2/2006	626	5	8	Cultural Debris	10/11/2006	Tail light part	Pass	KC
Local Training Area	HS_488	739350	1007523.25	668	mV	10/2/2006	669	5	10	Munitions Debris	10/11/2006	Small Arms, three .50 cal heads	-	
Local Training Area	HS_511	739456	1007417.75	39	mV	11/30/2006	41	5	12	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_530	739795.103	1007477.247	329	mV	10/2/2006	330	5	14	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_535	739798.75	1007503.75	482	mV	10/2/2006	481	5	14	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_551	739852.25	1007480	235	mV	10/2/2006	236	5	24	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_609	740448.805	1007573.596	46	mV	11/30/2006	46	5	15	Cultural Debris	11/6/2006	R/R spike	-	
Local Training Area	HS_635	740419	1007607.5	114	mV	10/2/2006	116	5	8	Cultural Debris	10/11/2006	R/R spike	-	
Local Training Area	HS_647	740419	1007540.75	1089	mV	10/2/2006	1090	5	9	Cultural Debris	10/11/2006	R/R spike plate with 1ea spike	-	
Grenade Range	GRA1-3	736969	1007472.5	22	Mv	7/21/2006	23	4	14	Cultural Debris	7/25/2006	Nail	Pass	KC
Grenade Range	GRA1-5	736968.25	1007469	25	Mv	7/21/2006	25	4	24	Cultural Debris	7/25/2006	Wire	Pass	KC
Grenade Range	GRA4-1	736966.75	1008108.5	103	Mv	7/20/2006	105	4	2	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRA4-2	736950.93	1008234.81	30	Mv	7/20/2006	40	4	2	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRA5-10	736932.5	1008416.5	23	Mv	7/31/2006	33	4	2	Cultural Debris	8/1/2006	Seed Item	-	
Grenade Range	GRA5-13	736988.5	1008253.75	22	Mv	7/31/2006	21	4	11	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRA5-16	736968	1008391.75	27	Mv	7/31/2006	32	4	1	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRA5-3	736987	1008496.75	16	Mv	7/31/2006	15	4	4	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRA6-14	736999	1008540.5	32	Mv	7/17/2006	70	4	1	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRA6-17	736972.5	1008544	18	Mv	7/17/2006	21	4	8	Cultural Debris	7/19/2006	Trash	Pass	KC
Grenade Range	GRA7-1	736908	1008805	28	Mv	7/21/2006	29	4	24	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRA7-12	736909.75	1008823.5	52	Mv	7/21/2006	52	4	9	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRB1-8	737158	1007479.25	17	Mv	7/21/2006	17	4	2	Munitions Debris	7/25/2006	Small Arms, .50 cal head	-	
Grenade Range	GRB2-13	737167.25	1007649.25	30	Mv	7/25/2006	29	4	15	Hot Soil	8/1/2006	Hot rock	Pass	KC
Grenade Range	GRB2-20	737014.75	1007651.75	58	Mv	7/25/2006	51	4	15	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRB2-34	737081.5	1007556.5	26	Mv	7/25/2006	18	4	36	Hot Soil	8/1/2006	Hot rock	-	
Grenade Range	GRB3-1	737112.5	1007910.25	17	Mv	7/26/2006	18	4	15	Cultural Debris	7/27/2006	Nail	-	
Grenade Range	GRB3-103	737202	1007878.25	35	Mv	7/26/2006	39	4	3	Munitions Debris	7/27/2006	two 40mm heads, 1" deep & 4" deep	-	
Grenade Range	GRB3-107	737154	1007894.25	17	Mv	7/26/2006	14	4	20	Cultural Debris	7/27/2006	Trash, Same as #106	-	
Grenade Range	GRB3-113	737137.5	1007899	39	Mv	7/26/2006	45	4	6	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-25	737053.25	1007776.75	48	Mv	7/26/2006	50	4	10	Cultural Debris	7/27/2006	Trash and 40mm head (also found next to flag)	-	
Grenade Range	GRB3-32	737036	1007941.5	42	Mv	7/26/2006	41	4	17	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRB3-67	737152.5	1007990.25	34	Mv	7/26/2006	51	4	24	MPPEH	7/27/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB3-84	737227.25	1007856.5	46	Mv	7/26/2006	48	4	6	Munitions Debris	7/27/2006	two 40mm heads, 3" deep & 4" deep	-	
Grenade Range	GRB3-86	737244.34	1007840.43	63	Mv	7/26/2006	76	4	7	Cultural Debris	7/27/2006	Seed item	-	
Grenade Range	GRB3-87	737230.5	1007826.25	40	Mv	7/26/2006	63	4	3	Munitions Debris	7/27/2006	two 40mm heads, 2" deep & 4" deep	-	
Grenade Range	GRB3-97	737162	1007853.75	19	Mv	7/26/2006	31	4	10	Cultural Debris	7/27/2006	Trash and 40mm head (also found next to flag)	Pass	KC
Grenade Range	GRB4-27	737085.25	1008022.25	54	Mv	7/20/2006	60	4	2	Cultural Debris	7/24/2006	Seed Item	-	
Grenade Range	GRB4-61	737144.5	1008169.25	36	Mv	7/20/2006	35	4	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-67	737232.75	1008155.75	19	Mv	7/20/2006	65	4	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-70	737232.25	1008114.5	38	Mv	7/20/2006	57	4	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-72	737212.25	1008096.75	41	Mv	7/20/2006	60	4	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-74	737210.25	1008079.5	26	Mv	7/20/2006	80	4	2	MPPEH	7/24/2006	M-73 sub cal	-	
Grenade Range	GRB4-78	737236	1008086.75	21	Mv	7/20/2006	45	4	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-79	737233.25	1008080	38	Mv	7/20/2006	55	4	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-80	737249.25	1008066.75	43	Mv	7/20/2006	50	4	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-84	737247.5	1008022.5	19	Mv	7/20/2006	30	4	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB5-113	737144	1008290.25	42	Mv	7/27/2006	75	4	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRB5-114	737137.25	1008281.25	30	Mv	7/27/2006	60	4	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRB5-116	737121.75	1008276.75	78	Mv	7/26/2006	110	4	2	Cultural Debris	7/31/2006	Seed Item	Pass	KC
Grenade Range	GRB5-12	737122	1008465	87	Mv	7/26/2006	89	4	4	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-121	737041.5	1008292.5	64	Mv	7/27/2006	61	4	2	Cultural Debris	7/31/2006	Seed Item	-	

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		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB5-135	737059.75	1008467.25	42	Mv	7/26/2006	45	4	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-141	737078.25	1008480.5	56	Mv	7/26/2006	58	4	3	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-159	737139.5	1008487.5	24	Mv	7/27/2006	90	4	12	MPPEH	8/1/2006	M-73 sub cal	-	
Grenade Range	GRB5-24	737127.5	1008434	39	Mv	7/26/2006	104	4	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-64	737102.53	1008425.92	65	Mv	7/27/2006	95	4	6	MPPEH	7/31/2006	M-73 sub cal	-	
Grenade Range	GRB5-79	737117.75	1008384.75	28	Mv	7/26/2006	50	4	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-80	737124.25	1008365.5	26	Mv	7/26/2006	27	4	9	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-86	737087.5	1008373.25	68	Mv	7/26/2006	71	4	2	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB6-128	737064.5	1008744	39	Mv	7/18/2006	45	4	3	Cultural Debris	7/19/2006	Trash	Pass	KC
Grenade Range	GRB6-132	737083.5	1008738.25	90	Mv	7/18/2006	130	4	10	Cultural Debris	7/19/2006	Trash	-	
Grenade Range	GRB6-14	737065.25	1008547.25	79	Mv	7/17/2006	85	4	6	Cultural Debris	7/20/2006	Wire pieces from old fence. B6-0014 and B6-0015 are the same item	-	
Grenade Range	GRB6-152	737130.5	1008691.25	18	Mv	7/18/2006	80	4	12	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-153 and B6-152 are same item	-	
Grenade Range	GRB6-164	737204.75	1008588.75	38	Mv	7/18/2006	275	4	10	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRB6-213	737097.44	1008500.91	12	Mv	7/18/2006	55	4	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-222	737123.25	1008539.5	41	Mv	7/18/2006	16	4	10	Cultural Debris	7/19/2006	Trash	-	
Grenade Range	GRB6-233	737115	1008556.25	29	Mv	7/18/2006	16	4	4	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRB6-40	737052.5	1008608.25	32	Mv	7/18/2006	35	4	8	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRB6-57	737123.25	1008616.5	26	Mv	7/18/2006	60	4	5	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRB6-62	737075	1008647.5	17	Mv	7/18/2006	65	4	6	Cultural Debris	7/20/2006	Trash, B6-0065 and B6-0062 are the same item.	Pass	KC
Grenade Range	GRB6-93	737121.69	1008682.36	86	Mv	7/18/2006	230	4	7	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRB7-29	737033.25	1008877.5	19	Mv	7/21/2006	2	4	6	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRB7-5	737226.75	1008832	24	Mv	7/21/2006	36	4	18	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB7-7	737170.75	1008786.25	22	Mv	7/21/2006	23	4	8	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC2-18	737347.75	1007559.25	16	Mv	7/25/2006	12	4	24	Cultural Debris	7/25/2006	Steel file	Pass	KC
Grenade Range	GRC2-22	737309.5	1007554.75	19	Mv	7/25/2006	21	4	10	Cultural Debris	8/23/2006	Scrap metal	Pass	KC
Grenade Range	GRC2-40	737324.75	1007533.5	19	Mv	7/25/2006	20	4	6	Cultural Debris	8/23/2006	Several nails	-	
Grenade Range	GRC2-44	737337.75	1007529	18	Mv	7/25/2006	18	4	24	Cultural Debris	8/23/2006	Nails	Pass	KC
Grenade Range	GRC3-1	737367.5	1007778.25	17	Mv	7/26/2006	25	4	10	Cultural Debris	7/31/2006	Wire	-	
Grenade Range	GRC3-10	737306.25	1007769.75	52	Mv	7/26/2006	95	4	6	MPPEH	7/31/2006	M-73 sub cal motor	-	
Grenade Range	GRC3-106	737429.25	1007995.25	17	Mv	7/26/2006	19	4	12	Cultural Debris	7/27/2006	Wire	Pass	KC
Grenade Range	GRC3-117	737433.75	1007924.75	32	Mv	7/25/2006	19	4	12	Cultural Debris	7/31/2006	Nail	-	
Grenade Range	GRC3-135	737409.25	1007775.5	31	Mv	7/26/2006	40	4	10	Cultural Debris	7/31/2006	Wire	-	
Grenade Range	GRC3-37	737298	1007880.75	18	Mv	7/25/2006	35	4	8	Cultural Debris	7/31/2006	Trash	Pass	KC
Grenade Range	GRC3-38	737288.6	1007863.04	53	Mv	7/25/2006	90	4	4	Cultural Debris	7/31/2006	Trash	Pass	KC
Grenade Range	GRC3-4	737340.75	1007762.25	37	Mv	7/26/2006	24	4	18	MPPEH	7/31/2006	M-73 sub cal motor	-	
Grenade Range	GRC4-127	737331.25	1008159.25	41	Mv	7/20/2006	60	4	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-133	737378.5	1008161.5	36	Mv	7/20/2006	65	4	0	Munitions Debris	7/24/2006	40mm round	Pass	KC
Grenade Range	GRC4-136	737360.75	1008180.5	51	Mv	7/20/2006	40	4	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-18	737295.25	1008183.25	27	Mv	7/20/2006	45	4	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-34	737333	1008238.75	40	Mv	7/20/2006	65	4	1	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-37	737352.75	1008247.5	49	Mv	7/20/2006	45	4	0	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-38	737366.75	1008241.75	172	Mv	7/20/2006	130	4	0	MPPEH	7/24/2006	M-73 sub cal	-	
Grenade Range	GRC4-41	737364.5	1008223.5	37	Mv	7/20/2006	55	4	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-51	737483.5	1008220.75	88	Mv	7/21/2006	80	4	4	Cultural Debris	7/25/2006	Seed Item	-	
Grenade Range	GRC4-62	737411.5	1008051.25	101	Mv	7/21/2006	95	4	4	MPPEH	7/25/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC4-7	737331	1008187.75	29	Mv	7/20/2006	43	4	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-73	737335.75	1008084	46	Mv	7/21/2006	70	4	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-79	737348.25	1008032.5	27	Mv	7/21/2006	105	4	3	MPPEH	7/25/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC4-8	737332	1008179	65	Mv	7/20/2006	75	4	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-86	737369.5	1008016.5	35	Mv	7/21/2006	45	4	3	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC4B-1	737347.6	1008166.7	1	Mv	10/16/2006	1	4	0	Munitions Debris	8/4/2006	Two 40mm found inside polygon C-4-1	-	
Grenade Range	GRC5-100	737308	1008259.5	91	Mv	7/27/2006	102	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-103	737316.5	1008253.25	44	Mv	7/27/2006	39	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-107	737346.75	1008268.5	41	Mv	7/27/2006	44	4	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-108	737348.75	1008265.5	63	Mv	7/27/2006	63	4	6	Munitions Debris	8/1/2006	40mm head	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
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Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC5-113	737361.25	1008254.25	33	Mv	7/27/2006	43	4	2	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-116	737385.5	1008274.75	43	Mv	8/1/2006	45	4	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-120	737363.75	1008283.5	50	Mv	8/1/2006	57	4	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-126	737397.25	1008298.5	40	Mv	8/1/2006	65	4	2	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-127	737397.75	1008291.75	51	Mv	8/1/2006	56	4	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-141	737481.25	1008377	16	Mv	8/1/2006	16	4	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-144	737470.25	1008399.75	145	Mv	8/1/2006	156	4	6	Cultural Debris	8/2/2006	Seed item	-	
Grenade Range	GRC5-208	737356.43	1008416.39	37	Mv	7/27/2006	45	4	2	Cultural Debris	8/2/2006	Trash	Pass	KC
Grenade Range	GRC5-31	737256	1008361.75	42	Mv	7/27/2006	48	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-33	737283	1008380.75	24	Mv	7/27/2006	38	4	1	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-47	737310.75	1008352	44	Mv	7/27/2006	46	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-48	737315.5	1008348.25	28	Mv	7/27/2006	31	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-49	737319.25	1008347.75	45	Mv	7/27/2006	47	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-50	737316.75	1008356	41	Mv	7/27/2006	69	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-54	737345	1008345.25	57	Mv	7/27/2006	59	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-55	737335	1008336.5	47	Mv	7/27/2006	39	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-58	737311.75	1008325.5	29	Mv	7/27/2006	31	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-6	737316.25	1008436.5	46	Mv	8/1/2006	44	4	5	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRC5-60	737306.25	1008329	41	Mv	7/27/2006	49	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-62	737282.5	1008329.25	49	Mv	8/1/2006	50	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-67	737305	1008287	63	Mv	7/27/2006	68	4	1	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-68	737299.25	1008289.25	66	Mv	7/27/2006	66	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-69	737296.5	1008294.5	58	Mv	7/27/2006	75	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-70	737295.75	1008297	71	Mv	7/27/2006	85	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-78	737319.75	1008310.25	40	Mv	7/27/2006	47	4	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-79	737323.75	1008298.5	32	Mv	7/27/2006	39	4	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-80	737321	1008298.75	49	Mv	7/27/2006	51	4	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-81	737317	1008297.25	41	Mv	7/27/2006	49	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-83	737321	1008292.5	52	Mv	7/27/2006	54	4	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-89	737332.5	1008275.75	50	Mv	7/27/2006	57	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-90	737330.25	1008276	65	Mv	7/27/2006	59	4	2	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-92	737318	1008276.75	27	Mv	7/27/2006	51	4	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-95	737309.25	1008265	44	Mv	7/27/2006	45	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-96	737303.25	1008262.5	34	Mv	7/27/2006	38	4	5	Cultural Debris	8/2/2006	Trash	-	
Grenade Range	GRC5-97	737294.75	1008252.25	45	Mv	7/27/2006	52	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-99	737301	1008254.75	40	Mv	7/27/2006	42	4	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC6-12	737412.75	1008553.5	191	Mv	7/17/2006	201	4	7	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-123	737369.75	1008589.25	53	Mv	7/17/2006	81	4	5	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRC6-134	737353	1008705.75	59	Mv	7/17/2006	89	4	1	Cultural Debris	7/20/2006	Seed Item	-	
Grenade Range	GRC6-138	737281.75	1008695	33	Mv	7/17/2006	45	4	5	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-149	737377.25	1008747	34	Mv	7/17/2006	38	4	2	Cultural Debris	7/20/2006	Bolt	-	
Grenade Range	GRC6-172	737489.25	1008627	34	Mv	7/17/2006	48	4	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-173	737461.5	1008618.25	24	Mv	7/17/2006	51	4	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-186	737476.25	1008549	60	Mv	7/17/2006	75	4	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-188	737489.94	1008541.55	51	Mv	7/17/2006	81	4	4	Cultural Debris	7/20/2006	Wire	-	
Grenade Range	GRC6-23	737376	1008536	44	Mv	7/17/2006	46	4	2	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-24	737374.25	1008545	63	Mv	7/17/2006	70	4	1	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-41	737342.5	1008543.5	102	Mv	7/17/2006	108	4	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-50	737315.75	1008564.5	46	Mv	7/17/2006	76	4	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-51	737309.75	1008561.5	24	Mv	7/17/2006	42	4	2	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-55	737285.95	1008524.77	45	Mv	7/17/2006	48	4	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-71	737296.25	1008558.25	20	Mv	7/17/2006	21	4	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-87	737281.25	1008673.75	29	Mv	7/17/2006	31	4	4	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-90	737319.75	1008664	33	Mv	7/18/2006	33	4	3	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-94	737333.25	1008661.25	36	Mv	7/18/2006	36	4	6	Munitions Debris	7/20/2006	40mm head	-	

APPENDIX C
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Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC7-24	737472.5	1008849	24	Mv	7/21/2006	25	4	20	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRD2-5	737513.13	1007504.55	53	Mv	7/21/2006	90	4	14	Cultural Debris	7/24/2006	R/R spike	-	
Grenade Range	GRD3-6	737528.62	1007784.66	14	Mv	7/21/2006	35	4	6	Cultural Debris	7/24/2006	Wire pieces.	-	
Grenade Range	GRD5-1	737521.75	1008273	84	Mv	7/21/2006	99	4	3	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRD5-15	737552.25	1008367.5	18	Mv	7/21/2006	20	4	3	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRD5-21	737553	1008426.25	35	Mv	7/21/2006	54	4	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRD5-8	737571.5	1008298.5	17	Mv	7/21/2006	23	4	20	Hot Soil	7/24/2006	Several hot rocks	Pass	KC
Grenade Range	GRD6-2	737586	1008698.75	30	Mv	7/31/2006	32	4	10	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRGAP_007	737201.75	1008071.25	94	mV	10/3/2006	95	4	8	MPPEH	10/12/2006	M-73 sub cal law	Pass	KC
Grenade Range	GRGAP_008	737196.75	1008071.25	197	mV	10/3/2006	199	4	11	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_011	737318.25	1008034.75	34	mV	10/3/2006	33	4	9	Munitions Debris	10/12/2006	40mm base	Pass	KC
Grenade Range	GRGAP_017	737340.807	1008001.128	25	mV	10/3/2006	25	4	10	Cultural Debris	10/12/2006	Nail	Pass	KC
Grenade Range	GRGAP_018	737340.923	1008008.866	23	mV	10/3/2006	24	4	20	Munitions Debris	10/12/2006	40mm base (2x)	Pass	KC
Grenade Range	GRGAP_033	737360	1008164	184	mV	10/3/2006	185	4	22	Munitions Debris	10/12/2006	40 mm base	Pass	KC
Grenade Range	GRGAP_039	737280.278	1008797.899	55	mV	10/3/2006	57	4	12	Cultural Debris	10/10/2006		-	
Grenade Range	GRGAP_041	737256.25	1008797.5	37	mV	10/3/2006	38	4	10	Cultural Debris	10/10/2006		-	
Grenade Range	GRGAP_050	737158.75	1007976.75	19	mV	10/3/2006	21	4	8	Cultural Debris	10/12/2006	Nail	Pass	KC
Grenade Range	GRGAP_052	737168.75	1008009.75	57	mV	10/3/2006	54	4	9	Munitions Debris	10/12/2006	Balistic weight for 40 mm	Pass	KC
Local Training Area	HS_011	738485.75	1007153.75	27	mV	11/30/2006	27	4	2	Cultural Debris	11/2/2006	Wire	-	
Local Training Area	HS_015	738508.25	1007251.25	18	mV	11/30/2006	18	4	20	Cultural Debris	11/2/2006	Nail	-	
Local Training Area	HS_019	738525.75	1007192.5	275	mV	10/2/2006	275	4	5	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_022	738817.141	1007213.85	30	mV	11/30/2006	30	4	20	Cultural Debris	11/2/2006	Can lid	-	
Local Training Area	HS_023	738822.5	1007207.5	564	mV	10/2/2006	564	4	12	Cultural Debris	10/10/2006		-	
Local Training Area	HS_045	739888	1007208.25	1196	mV	10/2/2006	1196	4	10	Munitions Debris	10/11/2006	box fins	-	
Local Training Area	HS_046	739881	1007204	587	mV	10/2/2006	587	4	8	Munitions Debris	10/11/2006	box fins	-	
Local Training Area	HS_048	739870	1007201.75	460	mV	10/2/2006	460	4	12	Cultural Debris	10/11/2006		-	
Local Training Area	HS_055	739890.25	1007173	448	mV	10/2/2006	448	4	6	Cultural Debris	10/11/2006		-	
Local Training Area	HS_077	739953	1007223.75	37795	mV	10/2/2006	5000	4	8	Munitions Debris	10/11/2006	Box fin	-	
Local Training Area	HS_114	739907	1007303.5	155	mV	10/2/2006	155	4	4	Cultural Debris	10/11/2006		-	
Local Training Area	HS_135	739502.322	1007244.836	31	mV	11/30/2006	31	4	7	Cultural Debris	11/2/2006	Nail	-	
Local Training Area	HS_139	738940.25	1007329.75	26	mV	11/30/2006	26	4	6	Cultural Debris	11/2/2006	Wire	-	
Local Training Area	HS_143	738910.25	1007277.25	96	mV	11/30/2006	96	4	4	Cultural Debris	11/2/2006	Scrap metal	-	
Local Training Area	HS_145	738835	1007269.25	17	mV	11/30/2006	17	4	20	Cultural Debris	11/2/2006	Nail	-	
Local Training Area	HS_153	738032.5	1007441.25	193	mV	10/2/2006	194	4	9	Cultural Debris	10/10/2006	Bracket	Pass	KC
Local Training Area	HS_188	737870.5	1007534.5	108	mV	10/2/2006	105	4	14	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_216	737946.75	1007225.75	195	mV	10/2/2006	196	4	5	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_257	737959.5	1007185.5	477	mV	10/2/2006	479	4	6	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_265	737983.5	1007177	109	mV	10/2/2006	108	4	20	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_271	737962.75	1007152	918	mV	10/2/2006	920	4	3	Munitions Debris	10/10/2006	3 57mm, 1 37mm, 2.36 cone found	Pass	KC
Local Training Area	HS_277	740300.5	1007618	338	mV	10/2/2006	337	4	26	Cultural Debris	10/11/2006	R/R spike plate	-	
Local Training Area	HS_282	740326.25	1007582.75	152	mV	10/2/2006	153	4	25	Cultural Debris	10/11/2006	Iron rods 2ea and a pit of nails	-	
Local Training Area	HS_295	740023.75	1007511.25	169	mV	10/2/2006	167	4	2	Cultural Debris	10/11/2006	Scrap iron, truck part	-	
Local Training Area	HS_327	739929	1007592.25	1262	mV	10/2/2006	1263	4	6	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_336	739857.25	1007570.25	938	mV	10/2/2006	941	4	7	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_337	739852.75	1007581.75	785	mV	10/2/2006	786	4	12	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_341	739829.5	1007578.5	885	mV	10/2/2006	888	4	6	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_345	739814.563	1007564.489	4436	mV	10/2/2006	4438	4	24	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_354	739752.75	1007502.75	2479	mV	10/2/2006	2475	4	3	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_359	739472.25	1007583.5	98	mV	11/30/2006	98	4	10	Cultural Debris	11/6/2006	R/R spike	-	
Local Training Area	HS_380	738934.75	1007551	352	mV	10/2/2006	354	4	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
Local Training Area	HS_382	738883	1007553.5	132	mV	10/2/2006	135	4	11	Cultural Debris	10/10/2006	Scrap aluminum	Pass	KC
Local Training Area	HS_387	738508.75	1007544.75	110	mV	10/2/2006	110	4	10	Cultural Debris	10/10/2006	R/R Spike	Pass	KC
Local Training Area	HS_396	738454.5	1007521.25	215	mV	10/2/2006	214	4	8	Munitions Debris	10/10/2006	Small Arms, 42 ea small arms heads, 50 and 30 cal. also 25 ft. of como wire.	Pass	KC
Local Training Area	HS_436	738427.887	1007449.633	2735	mV	10/2/2006	2735	4	0	Munitions Debris	10/17/2006	Small Arms, 259 .50 cal heads from a 2' x 2.5' hole. Indication of contaminated area at least 6 x 6'	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Local Training Area	HS_445	738473.25	1007482.25	725	mV	10/2/2006	723	4	6	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_455	738506.75	1007447.75	47	mV	11/30/2006	47	4	15	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_462	738494.75	1007412.75	246	mV	10/2/2006	247	4	9	Cultural Debris	10/10/2006	Banding	Pass	KC
Local Training Area	HS_472	738828.5	1007462	19	mV	11/30/2006	20	4	4	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_478	738907	1007495.5	120	mV	10/2/2006	119	4	19	Cultural Debris	10/10/2006	Aluminum scrap	Pass	KC
Local Training Area	HS_485	739337.25	1007547.25	136	mV	10/2/2006	137	4	4	Cultural Debris	10/11/2006	Aluminum scrap	Pass	KC
Local Training Area	HS_494	739339.307	1007503.582	160	mV	10/2/2006	159	4	6	Cultural Debris	10/11/2006	Hinge	Pass	KC
Local Training Area	HS_512	739494.75	1007432	22	mV	11/30/2006	22	4	12	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_521	739762.25	1007490.75	124	mV	10/2/2006	123	4	5	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_522	739774.5	1007483.5	276	mV	10/2/2006	275	4	5	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_525	739763.5	1007471.5	263	mV	10/2/2006	266	4	20	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_531	739804.75	1007479.75	2868	mV	10/2/2006	2869	4	8	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_539	739834.25	1007520	207	mV	10/2/2006	205	4	18	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_540	739839.5	1007523	146	mV	10/2/2006	144	4	10	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_553	739872.5	1007488	1422	mV	10/2/2006	1421	4	0	Cultural Debris	10/11/2006	18" scrap metal	Pass	KC
Local Training Area	HS_560	739904.773	1007502.645	35	mV	11/30/2006	36	4	12	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_577	740053.5	1007466	194193	mV	10/2/2006	5000	4	10	Cultural Debris	10/11/2006	Scrap metal, seat part	Pass	KC
Local Training Area	HS_579	740059.5	1007475.75	4726	mV	10/2/2006	4725	4	6	Cultural Debris	10/11/2006	Channel iron	Pass	KC
Local Training Area	HS_583	740289.75	1007447.75	196	mV	10/2/2006	196	4	10	Cultural Debris	10/11/2006	Iron rod	-	
Local Training Area	HS_594	740324.75	1007488.75	699	mV	10/2/2006	701	4	20	Cultural Debris	10/11/2006	4ea iron rods	-	
Local Training Area	HS_597	740382.5	1007525.5	239	mV	10/2/2006	241	4	36	Cultural Debris	10/11/2006	R/R plate with 2 ea spikes	-	
Local Training Area	HS_608	740457	1007567.5	77	mV	11/30/2006	77	4	6	Cultural Debris	11/6/2006	R/R spike	-	
Local Training Area	HS_611	740458.25	1007586.5	27	mV	11/30/2006	27	4	30	Cultural Debris	11/6/2006	Iron rod	-	
Local Training Area	HS_623	740502.25	1007651	100	mV	10/2/2006	100	4	11	Cultural Debris	10/11/2006	Horseshoe piece	-	
Local Training Area	HS_626	740451.75	1007647.25	444	mV	10/2/2006	447	4	24	Cultural Debris	10/11/2006	R/R Spike and plate	-	
Local Training Area	HS_641	740428.5	1007555	81	mV	11/30/2006	82	4	6	Cultural Debris	11/6/2006	Spike	-	
Local Training Area	HS_644	740443	1007530.25	69	mV	11/30/2006	69	4	5	Cultural Debris	11/6/2006	R/R spike	-	
Local Training Area	HS_660	740346	1007609.5	28651	mV	10/2/2006	5000	4	19	Cultural Debris	10/11/2006	Several R/R plates and track repair sections	-	
Grenade Range	GRA1-6	736962	1007449.75	24	Mv	7/21/2006	25	3	6	Cultural Debris	7/25/2006	Piece of 2X4 with nails.	Pass	KC
Grenade Range	GRA5-14	736986.5	1008314.5	26	Mv	7/31/2006	28	3	5	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRA5-6	736954.5	1008456.75	33	Mv	7/31/2006	36	3	3	Cultural Debris	8/1/2006	Wire	-	
Grenade Range	GRA6-10	736983.75	1008641.75	16	Mv	7/17/2006	42	3	20	Cultural Debris	7/19/2006	Nail	Pass	KC
Grenade Range	GRA7-2	736910	1008802	18	Mv	7/21/2006	19	3	6	Hot Soil	7/24/2006	Hot rock	Pass	KC
Grenade Range	GRA7-6	736967.25	1008822	28	Mv	7/21/2006	65	3	15	Cultural Debris	7/24/2006	Wire	Pass	KC
Grenade Range	GRB1-7	737136.25	1007482.75	18	Mv	7/21/2006	18	3	15	Cultural Debris	7/25/2006	Trash	Pass	KC
Grenade Range	GRB2-46	737165.5	1007502.5	17	Mv	7/25/2006	23	3	26	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRB2-50	737242.75	1007505	18	Mv	7/25/2006	21	3	12	Cultural Debris	8/1/2006	Trash, Anomalies B2-50 and B2-51 are the same item.	Pass	KC
Grenade Range	GRB2-51	737243.5	1007503.25	17	Mv	7/25/2006	18	3	12	Cultural Debris	8/1/2006	Trash, Anomalies B2-50 and B2-51 are the same item.	-	
Grenade Range	GRB3-106	737156.5	1007892.75	17	Mv	7/26/2006	15	3	5	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRB3-110	737130.5	1007876	42	Mv	7/26/2006	46	3	4	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-111	737135.5	1007889.5	36	Mv	7/26/2006	46	3	2	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-14	737121.5	1007775.25	21	Mv	7/26/2006	32	3	6	Cultural Debris	7/27/2006	Wire	Pass	KC
Grenade Range	GRB3-21	737085.75	1007783.25	19	Mv	7/26/2006	22	3	10	Cultural Debris	7/27/2006	Wire	-	
Grenade Range	GRB3-22	737078	1007780.5	56	Mv	7/26/2006	76	3	15	Cultural Debris	7/27/2006	Wire	Pass	KC
Grenade Range	GRB3-23	737068	1007770.5	24	Mv	7/26/2006	24	3	12	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRB3-4	737095	1007861.25	58	Mv	7/26/2006	63	3	6	Cultural Debris	7/27/2006	Trash	Pass	KC
Grenade Range	GRB3-40	737129.75	1007993.75	38	Mv	7/26/2006	44	3	8	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-54	737144.75	1007939	60	Mv	7/26/2006	71	3	15	MPPEH	7/27/2006	M-73 sub cal motor	-	
Grenade Range	GRB3-6	737139.25	1007854.5	48	Mv	7/26/2006	58	3	2	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-64	737146.5	1007970	67	Mv	7/26/2006	69	3	18	MPPEH	7/27/2006	M-73 sub cal motor	-	
Grenade Range	GRB3-68	737157.75	1007993	49	Mv	7/26/2006	78	3	3	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-69	737160.25	1007989.25	48	Mv	7/26/2006	50	3	4	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-76	737243.75	1007936.5	37	Mv	7/26/2006	31	3	6	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-83	737242.75	1007864	31	Mv	7/26/2006	42	3	4	Munitions Debris	7/27/2006	two 40mm heads, 2" deep & 3" deep	-	
Grenade Range	GRB3-96	737165	1007838.75	20	Mv	7/26/2006	21	3	8	Munitions Debris	7/27/2006	two 40mm heads, 2" deep & 3" deep	-	

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		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB4-01	737240.25	1008005.5	40	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-02	737232	1008035.5	40	Mv	7/20/2006	60	3	2	MPPEH	7/24/2006	37mm	-	
Grenade Range	GRB4-04	737204.5	1008059.5	31	Mv	7/20/2006	25	3	3	Cultural Debris	7/24/2006	Trash	-	
Grenade Range	GRB4-05	737202	1008061.5	38	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-07	737200.5	1008066	68	Mv	7/20/2006	370	3	5	MPPEH	7/24/2006	M-73 sub cal motor	-	
Grenade Range	GRB4-08	737192.16	1008069.7	34	Mv	7/20/2006	130	3	3	MPPEH	7/24/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB4-09	737188.5	1008069	44	Mv	7/20/2006	45	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-10	737188.25	1008073.25	40	Mv	7/20/2006	50	3	2	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRB4-11	737187.75	1008080.75	18	Mv	7/20/2006	30	3	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-12	737184.75	1008117.25	78	Mv	7/20/2006	130	3	2	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRB4-17	737126.5	1008074	20	Mv	7/20/2006	40	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-19	737127	1008068.5	50	Mv	7/20/2006	80	3	2	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRB4-24	737140.75	1008009.75	89	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-25	737133	1008007.25	36	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-31	737107.5	1008101.75	36	Mv	7/20/2006	40	3	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-33	737110.5	1008122	22	Mv	7/20/2006	64	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-36	737098.25	1008163	42	Mv	7/20/2006	52	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-37	737113.25	1008170.75	76	Mv	7/20/2006	85	3	8	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-40	737121.25	1008199.75	21	Mv	7/20/2006	45	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-41	737123.75	1008217	18	Mv	7/20/2006	21	3	3	Munitions Debris	7/24/2006	40mm head and seed item	Pass	KC
Grenade Range	GRB4-43	737103.25	1008230.75	45	Mv	7/20/2006	54	3	4	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-44	737109.5	1008230	55	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-45	737146.5	1008235.5	43	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-46	737157.5	1008239	59	Mv	7/20/2006	70	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-47	737172.5	1008245.75	40	Mv	7/20/2006	63	3	3	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRB4-48	737183.25	1008224.75	33	Mv	7/20/2006	40	3	4	Cultural Debris	7/24/2006	Trash	-	
Grenade Range	GRB4-49	737224	1008232.25	45	Mv	7/20/2006	85	3	2	Cultural Debris	7/24/2006	Seed Item	-	
Grenade Range	GRB4-50	737243.75	1008220.75	18	Mv	7/20/2006	58	3	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-53	737211.25	1008195.5	34	Mv	7/20/2006	56	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-54	737185	1008172	36	Mv	7/20/2006	56	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-57	737157.71	1008195.46	25	Mv	7/20/2006	70	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-58	737151	1008202.75	44	Mv	7/20/2006	55	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-59	737139.75	1008207.5	34	Mv	7/20/2006	70	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-62	737168.25	1008153.25	50	Mv	7/20/2006	1000	3	3	MPPEH	7/24/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB4-63	737199.75	1008146.25	35	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-64	737208.75	1008159.75	25	Mv	7/20/2006	48	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-68	737220.75	1008144	28	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-69	737221.75	1008119.25	20	Mv	7/20/2006	40	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-71	737214.25	1008105.25	35	Mv	7/20/2006	60	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-75	737225.25	1008076.5	40	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-77	737226.75	1008091.5	95	Mv	7/20/2006	120	3	2	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRB4-81	737249.4	1008054.38	48	Mv	7/20/2006	60	3	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-82	737239.5	1008048.25	34	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB4-83	737239.75	1008030.5	32	Mv	7/20/2006	56	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB5-100	737133.75	1008308	78	Mv	7/27/2006	100	3	5	MPPEH	8/1/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-103	737140.25	1008315.25	26	Mv	7/27/2006	100	3	3	MPPEH	8/1/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-109	737216.75	1008284.25	116	Mv	7/27/2006	175	3	2	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-110	737220.75	1008283	28	Mv	7/27/2006	100	3	5	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-111	737204.5	1008263	61	Mv	7/27/2006	50	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-112	737175.75	1008266	36	Mv	7/27/2006	79	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-115	737134	1008255	118	Mv	7/27/2006	200	3	4	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-118	737100.25	1008286.5	86	Mv	7/26/2006	136	3	3	MPPEH	7/31/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-122	737011.25	1008323	25	Mv	7/27/2006	35	3	2	Cultural Debris	7/31/2006	Trash	-	
Grenade Range	GRB5-123	737012.25	1008338.75	102	Mv	7/27/2006	102	3	2	Cultural Debris	7/31/2006	Seed Item	-	
Grenade Range	GRB5-128	737058.75	1008443.75	32	Mv	7/26/2006	50	3	2	Munitions Debris	7/31/2006	40mm head	-	

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Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB5-131	737026.66	1008492.77	34	Mv	7/26/2006	46	3	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-14	737104.75	1008466.75	59	Mv	7/26/2006	89	3	11	MPPEH	7/31/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB5-142	737069	1008497.25	46	Mv	7/26/2006	49	3	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-148	737100.75	1008482	56	Mv	7/26/2006	95	3	3	MPPEH	7/31/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB5-151	737107.75	1008484.75	146	Mv	7/26/2006	154	3	5	MPPEH	7/31/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-152	737107.5	1008487.75	152	Mv	7/26/2006	189	3	4	MPPEH	7/31/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB5-154	737114	1008492.25	37	Mv	7/26/2006	69	3	2	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-16	737104.84	1008457.84	128	Mv	7/26/2006	145	3	2	MPPEH	7/31/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-17	737109.25	1008451.5	41	Mv	7/26/2006	72	3	1	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-22	737117.75	1008437	38	Mv	7/26/2006	77	3	2	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-23	737121.5	1008439.25	58	Mv	7/26/2006	52	3	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-32	737164.25	1008483.25	24	Mv	7/27/2006	24	3	12	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-33	737168.75	1008493.75	75	Mv	7/27/2006	90	3	12	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-4	737134	1008489	92	Mv	7/27/2006	140	3	12	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-47	737228	1008410.25	151	Mv	7/27/2006	180	3	3	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-49	737231	1008376	50	Mv	7/27/2006	44	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-56	737160.5	1008397.5	48	Mv	7/27/2006	75	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-57	737154.5	1008406	24	Mv	7/27/2006	18	3	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRB5-58	737146.92	1008423.41	35	Mv	7/26/2006	47	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-6	737124.25	1008480.75	43	Mv	7/26/2006	39	3	6	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRB5-60	737126	1008417.25	32	Mv	7/26/2006	59	3	3	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-62	737112	1008424.5	21	Mv	7/26/2006	25	3	9	MPPEH	7/31/2006	M-73 sub cal	-	
Grenade Range	GRB5-65	737099.5	1008428.75	62	Mv	7/27/2006	150	3	5	MPPEH	7/31/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-67	737095.5	1008435.75	68	Mv	7/26/2006	77	3	3	MPPEH	7/31/2006	M-73 sub cal	-	
Grenade Range	GRB5-69	737084	1008439.75	19	Mv	7/27/2006	33	3	5	Cultural Debris	7/31/2006	Trash	-	
Grenade Range	GRB5-7	737120.75	1008474	48	Mv	7/26/2006	53	3	3	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-70	737086.25	1008424.25	64	Mv	7/27/2006	65	3	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-71	737087.25	1008414.5	54	Mv	7/26/2006	54	3	2	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-74	737100.75	1008410.25	137	Mv	7/26/2006	136	3	4	Cultural Debris	7/31/2006	Seed Item	-	
Grenade Range	GRB5-75	737121	1008406	38	Mv	7/26/2006	56	3	2	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-76	737136.5	1008401.25	25	Mv	7/27/2006	65	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-78	737122.75	1008383.5	37	Mv	7/26/2006	53	3	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-83	737119.75	1008355.5	21	Mv	7/26/2006	42	3	5	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-89	737073	1008379	19	Mv	7/26/2006	56	3	6	MPPEH	7/31/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-91	737051	1008382.5	133	Mv	7/26/2006	136	3	2	Cultural Debris	7/31/2006	Seed Item	-	
Grenade Range	GRB5-93	737093.75	1008338	16	Mv	7/26/2006	23	3	5	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-98	737105.75	1008321.25	42	Mv	7/26/2006	46	3	1	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB6-104	737084.25	1008682.5	42	Mv	7/18/2006	40	3	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-135	737093	1008723.25	18	Mv	7/18/2006	60	3	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-140	737087	1008697.5	64	Mv	7/18/2006	75	3	5	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-142	737092.5	1008703.25	50	Mv	7/18/2006	100	3	6	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-142 and B6-143 are same item	-	
Grenade Range	GRB6-144	737114.25	1008710.75	49	Mv	7/18/2006	150	3	10	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRB6-150	737132.75	1008701	63	Mv	7/18/2006	90	3	12	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-150 and B6-151 are same item	-	
Grenade Range	GRB6-154	737143.84	1008686.97	80	Mv	7/18/2006	170	3	8	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-154 and B6-155 are same item	Pass	KC
Grenade Range	GRB6-16	737071.75	1008547.5	24	Mv	7/18/2006	85	3	10	Cultural Debris	7/20/2006	B6-016 and B6-017 are the same item Wire pieces from old fence	-	
Grenade Range	GRB6-165	737195.5	1008592	38	Mv	7/18/2006	53	3	3	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRB6-174	737163.5	1008562	63	Mv	7/18/2006	85	3	6	No Contact	7/20/2006	M-73 sub cal motor. B6-0173 and B6-0174 are the same item.	-	
Grenade Range	GRB6-177	737165.75	1008541.5	37	Mv	7/18/2006	55	3	14	Cultural Debris	7/19/2006	Banding material/scraps	-	
Grenade Range	GRB6-178	737174.5	1008542	37	Mv	7/18/2006	40	3	4	Cultural Debris	7/19/2006	Wire bits	-	
Grenade Range	GRB6-179	737179	1008545.75	31	Mv	7/18/2006	45	3	5	Cultural Debris	7/19/2006	Wire bits	-	
Grenade Range	GRB6-18	737070	1008558.75	56	Mv	7/18/2006	90	3	6	Munitions Debris	7/20/2006	two 40mm heads, 1" deep & 3" deep	Pass	KC
Grenade Range	GRB6-180	737195	1008548.5	63	Mv	7/18/2006	75	3	24	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRB6-194	737196.5	1008534.25	41	Mv	7/18/2006	85	3	5	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-211	737111.75	1008501.75	17	Mv	7/18/2006	70	3	8	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB6-223	737121.5	1008543	42	Mv	7/18/2006	35	3	5	Cultural Debris	7/19/2006	Wire	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION			DIG RESULTS				QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB6-228	737120.75	1008550.75	28	Mv	7/18/2006	115	3	12	Cultural Debris	7/20/2006	Wire pieces from old fence	-	
Grenade Range	GRB6-230	737110.5	1008551	22	Mv	7/18/2006	25	3	12	Cultural Debris	7/20/2006	Wire pieces from an old fence	-	
Grenade Range	GRB6-231	737111.75	1008557.75	27	Mv	7/18/2006	35	3	8	Cultural Debris	7/20/2006	Wire pieces from from an old fence	-	
Grenade Range	GRB6-236	737125.25	1008563	118	Mv	7/18/2006	175	3	9	MPPEH	7/20/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-29	737017.25	1008673	29	Mv	7/18/2006	48	3	2	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRB6-3	737115.5	1008571	90	Mv	7/18/2006	140	3	8	MPPEH	7/20/2006	M-73 sub cal motor. B6-0003 and B6-0002 are the same item.	-	
Grenade Range	GRB6-4	737112.25	1008566.75	31	Mv	7/18/2006	75	3	12	Cultural Debris	7/20/2006	Trash	Pass	KC
Grenade Range	GRB6-50	737108.75	1008594.25	67	Mv	7/18/2006	125	3	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRB6-60	737092.5	1008623.5	92	Mv	7/18/2006	95	3	4	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRB6-77	737184.25	1008646.25	128	Mv	7/18/2006	180	3	7	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-78 and B6-77 are same item	-	
Grenade Range	GRB6-87	737153.75	1008661	154	Mv	7/18/2006	57	3	6	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-90	737136	1008667.5	43	Mv	7/18/2006	160	3	10	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-92	737127.5	1008680	32	Mv	7/18/2006	105	3	8	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRB6-97	737112	1008677.5	39	Mv	7/18/2006	48	3	10	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-96 and B6-97 are same item	-	
Grenade Range	GRB7-1	737159.5	1008894	46	Mv	7/21/2006	63	3	6	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-22	737024.5	1008781	27	Mv	7/21/2006	48	3	12	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-26	737059.5	1008848.5	36	Mv	7/21/2006	39	3	5	MPPEH	7/24/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB7-30	737051.75	1008890	44	Mv	7/21/2006	53	3	8	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRC1-1	737342.75	1007486	21	Mv	7/21/2006	33	3	8	MPPEH	7/25/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC2-16	737368.75	1007611.25	39	Mv	7/25/2006	39	3	10	Munitions Debris	8/23/2006	40mm	-	
Grenade Range	GRC2-21	737308	1007554	19	Mv	7/25/2006	20	3	8	Cultural Debris	8/23/2006	Scrap metal	Pass	KC
Grenade Range	GRC2-42	737333.5	1007534.75	22	Mv	7/25/2006	23	3	8	Cultural Debris	8/23/2006	Nails	Pass	KC
Grenade Range	GRC2-43	737336.75	1007539.25	24	Mv	7/25/2006	27	3	24	Cultural Debris	8/23/2006	Scrap metal and nail	Pass	KC
Grenade Range	GRC3-105	737401.5	1007995.5	30	Mv	7/26/2006	40	3	1	Munitions Debris	7/27/2006	Frag	Pass	KC
Grenade Range	GRC3-136	737391.5	1007755	29	Mv	7/26/2006	50	3	8	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-18	737252.75	1007831.5	31	Mv	7/25/2006	51	3	6	Cultural Debris	7/31/2006	Trash	-	
Grenade Range	GRC3-22	737256	1007862.75	62	Mv	7/25/2006	70	3	1	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-28	737303.5	1007940.25	54	Mv	7/26/2006	60	3	4	Munitions Debris	7/27/2006	Frag	Pass	KC
Grenade Range	GRC3-3	737348.5	1007791	46	Mv	7/26/2006	50	3	4	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-36	737294.75	1007889.75	49	Mv	7/25/2006	68	3	10	Cultural Debris	7/31/2006	Trash	-	
Grenade Range	GRC3-40	737320.25	1007845.25	50	Mv	7/25/2006	75	3	10	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-43	737315.25	1007875	40	Mv	7/25/2006	47	3	10	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-46	737313.75	1007906.5	28	Mv	7/25/2006	42	3	14	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-51	737344.75	1007867.5	49	Mv	7/25/2006	62	3	8	Munitions Debris	7/31/2006	40mm head & 1ea piece of scrap metal	-	
Grenade Range	GRC3-52	737358.5	1007857.25	41	Mv	7/25/2006	60	3	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-58	737378.75	1007877.5	41	Mv	7/25/2006	35	3	4	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-60	737375.25	1007895.5	28	Mv	7/25/2006	60	3	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-65	737367.25	1007910	29	Mv	7/25/2006	45	3	4	MPPEH	7/31/2006	57mm ap head	-	
Grenade Range	GRC3-67	737360.75	1007905.75	35	Mv	7/26/2006	42	3	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-68	737360.25	1007913.5	60	Mv	7/25/2006	90	3	4	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-70	737343.75	1007921.5	41	Mv	7/25/2006	55	3	8	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-72	737351.75	1007939	61	Mv	7/26/2006	62	3	24	Munitions Debris	7/31/2006	40mm head & Frag found	Pass	KC
Grenade Range	GRC3-74	737361.5	1007956	34	Mv	7/26/2006	36	3	4	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-79	737394.25	1007947	42	Mv	7/26/2006	97	3	14	Cultural Debris	7/31/2006	Horse shoe piece	Pass	KC
Grenade Range	GRC3-80	737403.25	1007972.5	41	Mv	7/26/2006	40	3	8	Munitions Debris	7/27/2006	Frag	Pass	KC
Grenade Range	GRC3-84	737348.5	1007973.75	40	Mv	7/26/2006	41	3	6	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-90	737288.25	1007958.75	46	Mv	7/26/2006	55	3	12	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-99	737342	1007995	47	Mv	7/26/2006	300	3	24	Munitions Debris	7/27/2006	Frag	Pass	KC
Grenade Range	GRC4-10	737315.75	1008179	33	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-100	737293.75	1008049	41	Mv	7/20/2006	58	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-102	737281.5	1008057.25	36	Mv	7/20/2006	45	3	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-103	737268.75	1008049.25	38	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-108	737270.5	1008081.5	32	Mv	7/20/2006	45	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-109	737265	1008073.5	19	Mv	7/20/2006	30	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-11	737319	1008191.5	52	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
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Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC4-110	737278.75	1008067.25	30	Mv	7/20/2006	60	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-111	737283.75	1008071	45	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-112	737288.25	1008080.5	38	Mv	7/20/2006	65	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-114	737282.75	1008099	47	Mv	7/20/2006	65	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-115	737254.25	1008119.25	27	Mv	7/21/2006	45	3	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-116	737259	1008120.25	25	Mv	7/21/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-117	737298	1008130	59	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-118	737312.75	1008134.5	44	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-119	737319.5	1008130	49	Mv	7/20/2006	65	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-12	737330.25	1008200.25	17	Mv	7/20/2006	35	3	1	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-120	737326.75	1008132	50	Mv	7/20/2006	55	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-123	737321.71	1008140.53	71	Mv	7/20/2006	160	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-124	737321	1008143.25	116	Mv	7/20/2006	140	3	2	Munitions Debris	7/24/2006	Frag	Pass	KC
Grenade Range	GRC4-125	737312.5	1008149.75	54	Mv	7/20/2006	75	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-126	737316	1008158.75	39	Mv	7/20/2006	65	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-13	737319.75	1008213	31	Mv	7/20/2006	22	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-130	737355.25	1008154.25	49	Mv	7/20/2006	80	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-138	737351.75	1008175.75	39	Mv	7/20/2006	52	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-139	737353.5	1008182.5	81	Mv	7/20/2006	80	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-14	737301.5	1008201.5	30	Mv	7/20/2006	45	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-15	737307	1008197.5	61	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-16	737307	1008188.25	38	Mv	7/20/2006	45	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-19	737292.75	1008163.25	36	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-21	737258.75	1008195.25	42	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-22	737266	1008197.5	20	Mv	7/20/2006	45	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-23	737271.5	1008199.5	69	Mv	7/20/2006	60	3	2	Cultural Debris	7/24/2006	Seed Item	-	
Grenade Range	GRC4-24	737290	1008213.75	22	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-25	737299.5	1008222	45	Mv	7/20/2006	35	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-26	737296.25	1008237.5	63	Mv	7/20/2006	50	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-27	737301	1008244	42	Mv	7/20/2006	140	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-28	737311	1008243.25	54	Mv	7/20/2006	70	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-29	737307	1008236.25	38	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-3	737344.75	1008191	50	Mv	7/20/2006	60	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-30	737313.25	1008227.5	55	Mv	7/21/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-31	737325.5	1008232.75	26	Mv	7/20/2006	18	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-32	737323	1008239.75	69	Mv	7/20/2006	65	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-33	737328.25	1008242	62	Mv	7/20/2006	40	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-35	737344.25	1008226.5	53	Mv	7/20/2006	35	3	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-36	737349.38	1008247.19	132	Mv	7/20/2006	180	3	0	MPPEH	7/24/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC4-39	737374.25	1008233	48	Mv	7/20/2006	65	3	0	Munitions Debris	7/24/2006	40mm round	Pass	KC
Grenade Range	GRC4-40	737360.66	1008227.81	23	Mv	7/20/2006	56	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-42	737362.5	1008219.25	57	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-43	737364.5	1008208	58	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-45	737385.15	1008195.46	95	Mv	7/20/2006	200	3	0	MPPEH	7/24/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC4-46	737383.5	1008209.25	31	Mv	7/20/2006	45	3	0	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-47	737398	1008207	35	Mv	7/20/2006	55	3	0	Munitions Debris	7/24/2006	40mm round	Pass	KC
Grenade Range	GRC4-5	737340	1008179.25	106	Mv	7/20/2006	205	3	2	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC4-54	737497.25	1008172.75	68	Mv	7/21/2006	100	3	2	Cultural Debris	7/25/2006	Seed Item	Pass	KC
Grenade Range	GRC4-57	737435	1008130.75	39	Mv	7/21/2006	55	3	1	Cultural Debris	7/25/2006	Seed Item	Pass	KC
Grenade Range	GRC4-58	737447	1008097.5	47	Mv	7/21/2006	60	3	2	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC4-61	737435.75	1008028.5	47	Mv	7/21/2006	65	3	2	Cultural Debris	7/25/2006	Seed Item	Pass	KC
Grenade Range	GRC4-63	737392.75	1008048.75	44	Mv	7/21/2006	60	3	2	Munitions Debris	7/25/2006	40mm head	-	
Grenade Range	GRC4-64	737395.79	1008053.04	75	Mv	7/21/2006	150	3	3	MPPEH	7/25/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC4-65	737397	1008066	22	Mv	7/21/2006	50	3	2	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC4-66	737407.75	1008083.25	19	Mv	7/21/2006	700	3	3	MPPEH	7/25/2006	M-73 sub cal	Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS				QPOST-DIG QC		
		Location (ft) Easting (X) Northing (Y)	Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials	
Grenade Range	GRC4-67	737417.75	1008092.75	169	Mv	7/21/2006	170	3	3	MPPEH	7/25/2006	M-73 sub cal motor	-	
Grenade Range	GRC4-68	737402	1008106	23	Mv	7/21/2006	60	3	3	MPPEH	7/25/2006	M-73 sub cal motor	-	
Grenade Range	GRC4-69	737376.25	1008108.75	47	Mv	7/21/2006	65	3	3	Munitions Debris	7/25/2006	40mm head	-	
Grenade Range	GRC4-70	737371	1008117.5	46	Mv	7/21/2006	50	3	2	Munitions Debris	7/25/2006	40mm head	-	
Grenade Range	GRC4-71	737367.5	1008084.25	20	Mv	7/21/2006	30	3	2	Munitions Debris	7/25/2006	40mm head	-	
Grenade Range	GRC4-72	737347.25	1008084	58	Mv	7/21/2006	75	3	2	Munitions Debris	7/25/2006	40mm head	-	
Grenade Range	GRC4-74	737323.75	1008090.5	26	Mv	7/20/2006	51	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-75	737333.75	1008058.25	63	Mv	7/21/2006	68	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-76	737346.25	1008044.5	27	Mv	7/21/2006	35	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-77	737337.75	1008027	21	Mv	7/21/2006	25	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-78	737345	1008027.25	55	Mv	7/21/2006	50	3	1	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-82	737356.5	1008035.5	39	Mv	7/21/2006	45	3	2	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC4-83	737359	1008041.25	17	Mv	7/21/2006	45	3	2	Munitions Debris	7/25/2006	40mm head	-	
Grenade Range	GRC4-84	737361.5	1008045.75	37	Mv	7/21/2006	63	3	2	Munitions Debris	7/25/2006	40mm head	-	
Grenade Range	GRC4-85	737370.5	1008049	40	Mv	7/21/2006	68	3	2	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC4-87	737362.75	1008018.75	65	Mv	7/21/2006	54	3	2	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC4-88	737357.75	1008010	54	Mv	7/21/2006	42	3	2	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC4-89	737347.46	1008001.3	141	Mv	7/20/2006	500	3	5	MPPEH	7/25/2006	M-73 sub cal motor	-	
Grenade Range	GRC4-9	737322.25	1008174.25	32	Mv	7/20/2006	55	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-90	737330.5	1008001.75	52	Mv	7/20/2006	75	3	1	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-91	737320.75	1008018.5	39	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-92	737304	1008015.25	32	Mv	7/20/2006	70	3	1	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-93	737296.25	1008022.75	37	Mv	7/20/2006	60	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-94	737259.75	1008004	30	Mv	7/20/2006	50	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-95	737274.5	1008025.75	20	Mv	7/20/2006	55	3	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-96	737286.5	1008034.5	47	Mv	7/20/2006	60	3	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-97	737301	1008030	46	Mv	7/20/2006	65	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-98	737302.5	1008038	53	Mv	7/20/2006	75	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-99	737298	1008046.75	36	Mv	7/20/2006	70	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC-4A-1	737347.8	1008160.2	1	Mv	10/16/2006	1	3	0	Munitions Debris	8/4/2006	40mm head found inside polygon C-4-1	-	
Grenade Range	GRC-4C-1A	737354.9	1008173.5	1	Mv	10/16/2006	1	3	0	Munitions Debris	8/4/2006	40mm head found inside polygon C-4-1	-	
Grenade Range	GRC5-101	737311.75	1008258.25	51	Mv	7/27/2006	55	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-102	737312.15	1008250.96	70	Mv	7/27/2006	96	3	3	MPPEH	8/2/2006	M-73 sub cal motor	-	
Grenade Range	GRC5-106	737336.5	1008255	46	Mv	7/27/2006	42	3	4	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-11	737314.25	1008472	37	Mv	7/27/2006	37	3	7	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-110	737346.25	1008252.75	112	Mv	7/27/2006	113	3	9	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-111	737349	1008251.5	105	Mv	7/27/2006	123	3	5	MPPEH	8/1/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC5-112	737355.25	1008254	60	Mv	7/27/2006	60	3	2	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-114	737375	1008257.25	37	Mv	8/1/2006	36	3	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-115	737375.25	1008271.75	49	Mv	8/1/2006	65	3	2	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-121	737350.75	1008287.5	88	Mv	7/27/2006	90	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-122	737348	1008298	102	Mv	7/27/2006	107	3	5	Cultural Debris	8/1/2006	Seed Item	-	
Grenade Range	GRC5-123	737348.25	1008300.5	106	Mv	7/27/2006	124	3	5	MPPEH	8/1/2006	M-73 sub cal motor and seed item	-	
Grenade Range	GRC5-128	737400.75	1008287	41	Mv	8/1/2006	47	3	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-139	737444.25	1008373.5	46	Mv	8/1/2006	54	3	1	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-150	737403.25	1008422.75	56	Mv	8/1/2006	58	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-152	737419.75	1008438.75	63	Mv	8/1/2006	72	3	8	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-154	737432.5	1008461	34	Mv	8/1/2006	38	3	2	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-156	737446	1008450.25	55	Mv	8/1/2006	57	3	6	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-157	737459.25	1008460	18	Mv	8/1/2006	15	3	14	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRC5-161	737467.5	1008493.5	29	Mv	8/1/2006	32	3	8	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRC5-178	737363.25	1008455.5	34	Mv	7/27/2006	52	3	8	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-179	737352	1008469.75	44	Mv	7/27/2006	45	3	4	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-180	737346	1008474.75	46	Mv	7/27/2006	54	3	8	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-182	737354.75	1008455.5	35	Mv	7/27/2006	58	3	6	Munitions Debris	8/1/2006	40mm head	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	Initials
Grenade Range	GRC5-19	737257.01	1008484.15	18	Mv	7/27/2006	45	3	6	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-20	737268.25	1008465.25	43	Mv	7/27/2006	57	3	4	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-204	737342	1008404.75	70	Mv	7/27/2006	81	3	12	MPPEH	8/2/2006	M-73 sub cal motor & 1ea old wrench	-	
Grenade Range	GRC5-21	737273.5	1008460.75	43	Mv	7/27/2006	52	3	4	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-212	737329.25	1008413.75	38	Mv	7/27/2006	49	3	6	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-3	737325.5	1008418.75	44	Mv	8/1/2006	55	3	6	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-30	737250.61	1008389.77	54	Mv	7/27/2006	46	3	16	MPPEH	8/2/2006	M-73 sub cal & Small Arms, 5.56 blank cart. (also found)	Pass	KC
Grenade Range	GRC5-32	737278.25	1008361.5	38	Mv	7/27/2006	41	3	2	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-38	737301.5	1008387.75	46	Mv	7/27/2006	44	3	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-44	737291.75	1008356.75	41	Mv	8/1/2006	54	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-46	737304.25	1008350.5	36	Mv	7/27/2006	101	3	2	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-51	737325.75	1008355.5	52	Mv	7/27/2006	49	3	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-53	737327	1008341.75	26	Mv	7/27/2006	63	3	2	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-59	737309.25	1008323.5	50	Mv	7/27/2006	71	3	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-61	737285.25	1008328.25	45	Mv	8/1/2006	55	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-63	737279	1008324.25	38	Mv	8/1/2006	55	3	2	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-64	737265.5	1008283.25	24	Mv	7/27/2006	32	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-65	737284.75	1008281.5	23	Mv	7/27/2006	28	3	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-71	737296.75	1008301.25	47	Mv	7/27/2006	45	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-73	737298.5	1008305.75	131	Mv	7/27/2006	140	3	5	MPPEH	8/2/2006	M-73 sub cal motor	-	
Grenade Range	GRC5-75	737302.25	1008301.75	18	Mv	7/27/2006	17	3	48	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-76	737311	1008301.5	53	Mv	7/27/2006	54	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-77	737316.75	1008301.75	43	Mv	7/27/2006	44	3	1	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-8	737316	1008446.5	35	Mv	7/27/2006	56	3	6	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-82	737313.75	1008288.75	43	Mv	7/27/2006	43	3	2	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-84	737334.75	1008287.25	108	Mv	7/27/2006	175	3	3	MPPEH	8/1/2006	M-73 sub cal	-	
Grenade Range	GRC5-87	737335	1008281.75	123	Mv	7/27/2006	142	3	4	MPPEH	8/2/2006	M-73 sub cal motor	-	
Grenade Range	GRC5-93	737318.75	1008263.75	63	Mv	7/27/2006	65	3	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-94	737314.75	1008267.5	97	Mv	7/27/2006	89	3	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-98	737297.75	1008254.25	48	Mv	7/27/2006	48	3	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC6-01	737432.25	1008570.25	54	Mv	7/17/2006	67	3	2	MPPEH	7/19/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC6-06	737421.78	1008581.06	42	Mv	7/17/2006	44	3	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-100	737317	1008586.85	43	Mv	7/17/2006	73	3	5	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-102	737336.75	1008590	24	Mv	7/17/2006	31	3	9	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-104	737340.75	1008586	37	Mv	7/17/2006	106	3	5	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-105	737356.25	1008592.25	21	Mv	7/17/2006	24	3	15	MPPEH	7/20/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-109	737345.37	1008574.87	88	Mv	7/17/2006	87	3	6	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-110	737343.5	1008566	40	Mv	7/17/2006	49	3	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-111	737358	1008564.5	25	Mv	7/17/2006	26	3	3	Cultural Debris	7/20/2006	Trash	Pass	KC
Grenade Range	GRC6-118	737385.5	1008566	29	Mv	7/17/2006	31	3	3	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-121	737380.38	1008585.47	20	Mv	7/17/2006	132	3	12	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-126	737368.75	1008627.25	55	Mv	7/17/2006	64	3	8	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-127	737382.75	1008663.75	34	Mv	7/17/2006	48	3	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-13	737389.25	1008549	31	Mv	7/17/2006	33	3	2	Cultural Debris	7/20/2006	Wire	Pass	KC
Grenade Range	GRC6-130	737379.73	1008691.74	32	Mv	7/17/2006	44	3	1	MPPEH	7/20/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-131	737372.5	1008701	38	Mv	7/17/2006	41	3	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-136	737301.25	1008709.25	63	Mv	7/17/2006	112	3	10	MPPEH	7/20/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC6-139	737273	1008698.25	21	Mv	7/17/2006	66	3	11	MPPEH	7/20/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-14	737388.75	1008547	19	Mv	7/17/2006	22	3	2	Cultural Debris	7/20/2006	Wire	Pass	KC
Grenade Range	GRC6-142	737293.75	1008733	20	Mv	7/17/2006	23	3	6	Cultural Debris	7/20/2006	Wire	-	
Grenade Range	GRC6-144	737293.5	1008737.25	28	Mv	7/17/2006	59	3	6	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-146	737301.75	1008733.75	81	Mv	7/17/2006	117	3	8	MPPEH	7/20/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-152	737445	1008748.5	20	Mv	7/17/2006	33	3	1	Cultural Debris	7/20/2006	Seed Item, C6-0152 and C6-0153 are the same item.	-	
Grenade Range	GRC6-153	737445	1008745	48	Mv	7/17/2006	48	3	1	No Contact	7/20/2006	Seed Item, C6-0152 and C6-0153 are the same item.	Pass	KC
Grenade Range	GRC6-155	737469.25	1008728.25	38	Mv	7/17/2006	38	3	2	Munitions Debris	7/19/2006	40mm head	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials	
Grenade Range	GRC6-158	737479	1008684	19	Mv	7/17/2006	33	3	5	Munitions Debris	7/19/2006	Frag	-	
Grenade Range	GRC6-159	737473.5	1008664.25	48	Mv	7/17/2006	61	3	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-160	737464.25	1008676.5	36	Mv	7/17/2006	36	3	2	Cultural Debris	7/19/2006	Seed Item	-	
Grenade Range	GRC6-161	737451.5	1008700.75	29	Mv	7/17/2006	31	3	2	Munitions Debris	7/20/2006	two 40mm heads, both 3" deep	-	
Grenade Range	GRC6-164	737410	1008670	38	Mv	7/17/2006	65	3	1	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-165	737432.5	1008646.5	71	Mv	7/17/2006	82	3	0	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-166	737441	1008634.25	26	Mv	7/17/2006	47	3	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-167	737445	1008630.75	25	Mv	7/17/2006	45	3	4	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-169	737473.25	1008634	35	Mv	7/17/2006	38	3	2	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-17	737384.5	1008545.25	49	Mv	7/17/2006	63	3	2	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-170	737478	1008643.75	31	Mv	7/17/2006	54	3	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-171	737499.2	1008636.6	97	Mv	7/17/2006	99	3	2	Cultural Debris	7/19/2006	Seed Item	-	
Grenade Range	GRC6-175	737442.27	1008592.05	75	Mv	7/17/2006	111	3	2	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-178	737452.25	1008572.25	36	Mv	7/17/2006	40	3	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-179	737445.5	1008570.75	45	Mv	7/17/2006	46	3	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-18	737384.25	1008533.75	52	Mv	7/17/2006	59	3	2	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-180	737447.06	1008561.88	33	Mv	7/17/2006	53	3	2	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-181	737449.25	1008556.25	109	Mv	7/17/2006	106	3	2	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-182	737458.25	1008558.5	37	Mv	7/17/2006	49	3	2	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRC6-183	737462.5	1008555.25	38	Mv	7/17/2006	75	3	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-184	737467.75	1008555	40	Mv	7/17/2006	58	3	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-187	737485	1008543	18	Mv	7/17/2006	32	3	4	Cultural Debris	7/20/2006	Multiple wire	-	
Grenade Range	GRC6-189	737482.25	1008542.25	17	Mv	7/17/2006	22	3	2	Cultural Debris	7/20/2006	Multiple wire	Pass	KC
Grenade Range	GRC6-19	737391.5	1008517	16	Mv	7/17/2006	17	3	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-190	737475.5	1008541.5	111	Mv	7/17/2006	122	3	3	Cultural Debris	7/20/2006	Wire	-	
Grenade Range	GRC6-192	737447.75	1008550	41	Mv	7/17/2006	47	3	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-193	737436.5	1008550.75	20	Mv	7/17/2006	49	3	8	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-21	737380.5	1008514.5	55	Mv	7/17/2006	84	3	1	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-25	737370.25	1008545.25	28	Mv	7/17/2006	48	3	1	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-26	737368.75	1008546.75	49	Mv	7/17/2006	56	3	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-28	737361	1008544.5	43	Mv	7/17/2006	53	3	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-29	737358	1008544.75	75	Mv	7/17/2006	79	3	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-30	737355.25	1008543.5	98	Mv	7/17/2006	99	3	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-31	737354.75	1008540.5	100	Mv	7/17/2006	111	3	3	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRC6-35	737354	1008548.25	19	Mv	7/17/2006	23	3	1	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-37	737352.5	1008551.5	19	Mv	7/17/2006	23	3	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-38	737346	1008552.5	44	Mv	7/17/2006	63	3	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-39	737343.17	1008545.5	40	Mv	7/17/2006	68	3	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-40	737340.75	1008542	52	Mv	7/17/2006	72	3	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-44	737335.75	1008526.25	17	Mv	7/17/2006	26	3	1	Cultural Debris	7/19/2006	spike	Pass	KC
Grenade Range	GRC6-48	737325.75	1008556	28	Mv	7/17/2006	34	3	12	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-49	737328.25	1008569.5	29	Mv	7/17/2006	36	3	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-59	737256.83	1008504.14	30	Mv	7/17/2006	51	3	3	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-60	737276	1008529.75	17	Mv	7/17/2006	19	3	2	Cultural Debris	7/19/2006	Trash	-	
Grenade Range	GRC6-62	737274.5	1008538.75	144	Mv	7/17/2006	154	3	2	Cultural Debris	7/19/2006	Trash	-	
Grenade Range	GRC6-64	737256.25	1008546.25	39	Mv	7/17/2006	40	3	5	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-68	737278.75	1008542.25	24	Mv	7/17/2006	23	3	5	Cultural Debris	7/19/2006	Trash	-	
Grenade Range	GRC6-73	737295.75	1008561.5	116	Mv	7/17/2006	116	3	1	MPPEH	7/19/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC6-78	737278.25	1008589.25	19	Mv	7/17/2006	23	3	6	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-79	737263.75	1008601.25	37	Mv	7/17/2006	47	3	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-80	737280	1008617	29	Mv	7/17/2006	31	3	3	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-81	737271.29	1008626.4	31	Mv	7/17/2006	87	3	2	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-83	737265.5	1008621.25	61	Mv	7/17/2006	63	3	8	MPPEH	7/20/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC6-88	737297.75	1008667.75	50	Mv	7/17/2006	52	3	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-91	737320.75	1008651.75	47	Mv	7/17/2006	55	3	2	Munitions Debris	7/20/2006	40mm head	-	

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Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC6-92	737323.75	1008649.25	43	Mv	7/17/2006	43	3	3	Cultural Debris	7/20/2006	Seed Item	-	
Grenade Range	GRC6-95	737346.5	1008662.5	88	Mv	7/17/2006	127	3	4	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-96	737341.25	1008650.25	102	Mv	7/17/2006	115	3	6	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-97	737334.25	1008643.25	30	Mv	7/17/2006	31	3	2	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-98	737325.75	1008634	34	Mv	7/18/2006	36	3	6	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC7-11	737297.75	1008858.5	23	Mv	7/21/2006	45	3	8	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-13	737289.75	1008876.5	31	Mv	7/21/2006	33	3	4	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-17	737364.25	1008921	18	Mv	7/21/2006	28	3	14	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRC7-18	737378.75	1008917	22	Mv	7/21/2006	36	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-21	737403.5	1008875.25	28	Mv	7/21/2006	42	3	6	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-3	737360.25	1008818	30	Mv	7/21/2006	39	3	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-5	737324	1008784.5	39	Mv	7/21/2006	45	3	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRD2-16	737533	1007722	23	Mv	7/21/2006	20	3	8	Cultural Debris	7/24/2006	Wire	-	
Grenade Range	GRD4-12	737518.25	1008050.75	55	Mv	7/21/2006	100	3	2	Cultural Debris	7/25/2006	Seed Item	Pass	KC
Grenade Range	GRD4-17	737556.75	1008118.75	162	Mv	7/21/2006	210	3	2	Cultural Debris	7/25/2006	Seed Item	Pass	KC
Grenade Range	GRD4-8	737612.75	1008151	84	Mv	7/21/2006	85	3	2	Cultural Debris	7/25/2006	Trash	Pass	KC
Grenade Range	GRD4-9	737585.47	1008014.75	39	Mv	7/21/2006	80	3	2	Cultural Debris	7/25/2006	Trash	-	
Grenade Range	GRD5-23	737546.07	1008404.39	26	Mv	7/21/2006	33	3	6	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRD6-10	737576.5	1008552.25	24	Mv	7/31/2006	23	3	24	Cultural Debris	7/24/2006	Wire from an old fence	Pass	KC
Grenade Range	GRD6-12	737529	1008544	94	Mv	7/31/2006	101	3	18	Cultural Debris	7/24/2006	Many pieces of wire from an old fence.	Pass	KC
Grenade Range	GRD6-13	737526	1008543.75	130	Mv	7/31/2006	129	3	6	Cultural Debris	7/24/2006	Wire continuing from #12 could not remove all pieces	Pass	KC
Grenade Range	GRD6-15	737515.25	1008543.5	35	Mv	7/31/2006	36	3	6	Cultural Debris	7/24/2006	Same fence line as #12 #13 and #14 no ordnance items identified.	Pass	KC
Grenade Range	GRD6-17	737511.75	1008547.5	22	Mv	7/31/2006	23	3	6	Cultural Debris	7/24/2006	Same fence line as #12,#13,#14,#15 and #16 could not remove all pieces	-	
Grenade Range	GRD6-9	737587	1008552.75	38	Mv	7/31/2006	38	3	8	Cultural Debris	7/24/2006	Wire from an old fence, many small bits still remaining	Pass	KC
Grenade Range	GRGAP_003	737183	1008076.75	19	mV	10/3/2006	19	3	11	Cultural Debris	10/12/2006		Pass	KC
Grenade Range	GRGAP_004	737190.5	1008078.75	78	mV	10/3/2006	78	3	12	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_015	737340.23	1007997.201	27	mV	10/3/2006	26	3	12	Hot Soil	10/12/2006	Hot rock	Pass	KC
Grenade Range	GRGAP_020	737429.75	1008084	48	mV	10/3/2006	49	3	6	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_024	737440.25	1008094.75	166	mV	10/3/2006	166	3	6	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_030	737409	1008098.5	27	mV	10/3/2006	27	3	9	Munitions Debris	10/12/2006	Small Arms, four brass carts.	Pass	KC
Grenade Range	GRGAP_035	737354	1008181.25	27	mV	10/3/2006	26	3	10	Munitions Debris	10/12/2006	40mm base	Pass	KC
Grenade Range	GRGAP_037	737447.75	1008802.25	26	mV	10/3/2006	24	3	10	Cultural Debris	10/10/2006		-	
Grenade Range	GRGAP_038	737400.75	1008799.75	17	mV	10/3/2006	16	3	6	Cultural Debris	10/10/2006		-	
Grenade Range	GRGAP_042	737251	1008801.5	117	mV	10/3/2006	118	3	4	Cultural Debris	10/10/2006		-	
Grenade Range	GRGAP_043	737245	1008812.5	41	mV	10/3/2006	43	3	10	Cultural Debris	10/10/2006		-	
Grenade Range	GRGAP_044	736992.5	1008780.75	16	mV	10/3/2006	15	3	10	Cultural Debris	10/10/2006		-	
Grenade Range	GRGAP_045	737132.5	1008063	21	mV	10/3/2006	22	3	3	Munitions Debris	10/12/2006	Balistic weight for 40 mm	Pass	KC
Grenade Range	GRGAP_046	737136.5	1008024.75	21	mV	10/3/2006	24	3	13	Munitions Debris	10/12/2006	40mm weight	Pass	KC
Grenade Range	GRGAP_051	737165.75	1007984	50	mV	10/3/2006	49	3	10	Munitions Debris	10/12/2006	40mm weight	Pass	KC
Grenade Range	GRGAP_053	737161.745	1008011.994	38	mV	10/3/2006	39	3	8	Munitions Debris	10/12/2006	40 mm base	Pass	KC
Local Training Area	HS_024	738859.5	1007210.75	141	mV	10/2/2006	141	3	0	Cultural Debris	10/24/2006	Wire	Pass	KC
Local Training Area	HS_026	739369.028	1007189.967	44	mV	11/30/2006	44	3	30	Cultural Debris	11/2/2006	Scrap metal	-	
Local Training Area	HS_040	739890.75	1007247	2712	mV	10/2/2006	2712	3	24	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_041	739917.5	1007230	1705	mV	10/2/2006	1705	3	6	Munitions Debris	10/11/2006	Box fins	Pass	KC
Local Training Area	HS_056	739896	1007176.75	1934	mV	10/2/2006	1934	3	3	Cultural Debris	10/11/2006		-	
Local Training Area	HS_072	739998	1007238	433	mV	10/2/2006	433	3	15	Cultural Debris	10/11/2006		-	
Local Training Area	HS_075	739976.5	1007227	1058	mV	10/2/2006	1058	3	5	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_078	739940.75	1007218.5	48174	mV	10/2/2006	5000	3	8	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_079	739940.25	1007232.5	5477	mV	10/2/2006	5000	3	16	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_144	738899.5	1007327	3618	mV	10/2/2006	3620	3	10	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_147	738786.5	1007291.25	41	mV	11/30/2006	41	3	14	Cultural Debris	11/2/2006	Nail	-	
Local Training Area	HS_162	738020	1007529.25	293	mV	10/2/2006	295	3	15	Cultural Debris	10/10/2006	Electrical junction box	Pass	KC
Local Training Area	HS_164	738021.25	1007507.25	169	mV	10/2/2006	170	3	20	Cultural Debris	10/10/2006	Wire handle	Pass	KC
Local Training Area	HS_171	737945	1007481	364	mV	10/2/2006	366	3	5	Cultural Debris	10/11/2006	Iron rod	Pass	KC
Local Training Area	HS_218	737922	1007223	442	mV	10/2/2006	443	3	8	Cultural Debris	10/10/2006		Pass	KC

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		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Local Training Area	HS_269	737970.75	1007158.5	115	mV	10/2/2006	116	3	18	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_272	737962	1007158.25	211	mV	10/2/2006	214	3	18	Cultural Debris	10/10/2006		-	
Local Training Area	HS_280	740302	1007577.75	2142	mV	10/2/2006	2142	3	15	Cultural Debris	10/11/2006	R/R spike plate with 2ea spikes	-	
Local Training Area	HS_292	740069.75	1007532	672	mV	10/2/2006	674	3	3	Cultural Debris	10/11/2006	Chain and a truck tialgate part	Pass	KC
Local Training Area	HS_298	740024.75	1007528.5	1113	mV	10/2/2006	1114	3	13	Cultural Debris	10/11/2006	Piece of lead	Pass	KC
Local Training Area	HS_306	740028.5	1007583.5	110	mV	10/2/2006	112	3	9	Cultural Debris	10/11/2006	Fuel tank cap	-	
Local Training Area	HS_312	739996.25	1007571.75	61	mV	11/30/2006	61	3	18	Cultural Debris	11/6/2006	Iron rod	-	
Local Training Area	HS_314	739982.5	1007571.25	98	mV	11/30/2006	99	3	20	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_315	739983.75	1007583.5	627	mV	10/2/2006	629	3	48	Cultural Debris	10/11/2006	Scrap metal	Pass	KC
Local Training Area	HS_318	739967	1007590.75	75	mV	11/30/2006	75	3	2	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_321	739954.75	1007588.75	39	mV	11/30/2006	39	3	3	Cultural Debris	11/6/2006	Bolt	-	
Local Training Area	HS_326	739927.25	1007571	324	mV	10/2/2006	325	3	5	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_330	739912.5	1007571.5	2921	mV	10/2/2006	2922	3	10	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_332	739884.25	1007573	275	mV	10/2/2006	277	3	12	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_334	739870	1007568.5	1155	mV	10/2/2006	1157	3	2	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_335	739864.25	1007569.25	226	mV	10/2/2006	226	3	2	Cultural Debris	10/11/2006		-	
Local Training Area	HS_338	739846.5	1007574.75	1032	mV	10/2/2006	1030	3	10	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_339	739838.5	1007572.75	351	mV	10/2/2006	354	3	6	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_349	739800.25	1007536.75	920	mV	10/2/2006	924	3	10	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_350	739793.5	1007532.25	1319	mV	10/2/2006	1321	3	4	Cultural Debris	10/11/2006		-	
Local Training Area	HS_360	739460.75	1007581.75	39	mV	11/30/2006	38	3	12	Cultural Debris	11/6/2006	R/R spike	-	
Local Training Area	HS_366	739398.75	1007565.75	182	mV	10/2/2006	186	3	7	Cultural Debris	10/11/2006	Copper tube and a pad lock	Pass	KC
Local Training Area	HS_373	739003.5	1007571	204	mV	10/2/2006	203	3	4	Cultural Debris	10/10/2006	Head light rim	Pass	KC
Local Training Area	HS_374	739000.75	1007575.25	158	mV	10/2/2006	157	3	30	Cultural Debris	10/10/2006	Valve handle	Pass	KC
Local Training Area	HS_378	738937.897	1007592.892	38	mV	11/30/2006	38	3	30	Cultural Debris	11/2/2006	Scrap metal	-	
Local Training Area	HS_383	738857.25	1007554.25	3474	mV	10/2/2006	3475	3	9	Munitions Debris	10/10/2006	Small Arms, 14x .50 cal's removed. .50 cal head collection area (large area) and turn buckle part	-	
Local Training Area	HS_385	738535.25	1007552.25	181	mV	10/2/2006	181	3	15	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_391	738499.75	1007531.5	116	mV	10/2/2006	117	3	17	Cultural Debris	10/10/2006	R/R Spike	Pass	KC
Local Training Area	HS_421	738326.25	1007405.5	64039	mV	10/2/2006	5000	3	3	Cultural Debris	10/10/2006	Fence post	Pass	KC
Local Training Area	HS_425	738310.585	1007474.613	121	mV	10/2/2006	122	3	15	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_441	738449.75	1007454.5	185	mV	10/2/2006	184	3	6	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
Local Training Area	HS_454	738502.25	1007458.75	29	mV	11/30/2006	28	3	14	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_458	738513.25	1007423	177	mV	10/2/2006	176	3	17	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_465	738463.162	1007413.345	35	mV	11/30/2006	35	3	4	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_476	738890.75	1007482	280	mV	10/2/2006	279	3	4	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
Local Training Area	HS_477	738900.5	1007478.5	219	mV	10/2/2006	219	3	9	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
Local Training Area	HS_480	738968.75	1007479	20	mV	11/30/2006	21	3	4	Cultural Debris	11/2/2006	Wire	-	
Local Training Area	HS_500	739342.25	1007464.25	230	mV	10/2/2006	231	3	26	Cultural Debris	10/11/2006	Scrap metal	Pass	KC
Local Training Area	HS_508	739388.5	1007510.25	624	mV	10/2/2006	626	3	0	Munitions Debris	10/17/2006	Small Arms, 50x .50 cal heads removed. .50 cal pit, did not clear.	-	
Local Training Area	HS_509	739423.25	1007507	107	mV	10/2/2006	109	3	6	Cultural Debris	10/11/2006	Large bolt	Pass	KC
Local Training Area	HS_520	739753.75	1007488	419	mV	10/2/2006	422	3	15	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_534	739806	1007497.25	3812	mV	10/2/2006	3813	3	8	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_536	739809	1007520.25	1049	mV	10/2/2006	1050	3	16	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_543	739876.5	1007520.75	311	mV	10/2/2006	313	3	10	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_546	739834.75	1007492	2042	mV	10/2/2006	2044	3	3	Cultural Debris	10/11/2006		-	
Local Training Area	HS_552	739869.25	1007481.5	192	mV	10/2/2006	195	3	0	Cultural Debris	10/11/2006	4" alum scrap	Pass	KC
Local Training Area	HS_554	739879.25	1007495	172	mV	10/2/2006	172	3	0	Cultural Debris	10/11/2006	8" scrap metal	Pass	KC
Local Training Area	HS_555	739889.75	1007499.75	124	mV	10/2/2006	125	3	0	Cultural Debris	10/11/2006	2" scrap metal	Pass	KC
Local Training Area	HS_558	739920.5	1007523	355	mV	10/2/2006	357	3	5	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_575	740068.25	1007454.75	386	mV	10/2/2006	388	3	8	Cultural Debris	10/11/2006	Iron rod	Pass	KC
Local Training Area	HS_581	740073.75	1007493.75	125	mV	10/2/2006	123	3	4	Cultural Debris	10/11/2006	Truck brake part	-	
Local Training Area	HS_582	740074	1007478.25	30281	mV	10/2/2006	5000	3	36	Cultural Debris	10/11/2006	Vehicle battery tray	Pass	KC
Local Training Area	HS_586	740285.5	1007480.25	154	mV	10/2/2006	156	3	17	Cultural Debris	10/11/2006	1 ea S hook and some wire	-	
Local Training Area	HS_636	740419	1007590	82	mV	11/30/2006	82	3	13	Cultural Debris	11/6/2006	R/R spike	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Local Training Area	HS_643	740440.25	1007546	90	mV	11/30/2006	90	3	13	Cultural Debris	11/6/2006	R/R spike	-	
Local Training Area	HS_654	740365.75	1007586.5	102	mV	10/2/2006	100	3	12	Cultural Debris	10/11/2006	Bolt	-	
Local Training Area	HS_668	740293.75	1007630.25	608	mV	10/2/2006	609	3	3	Cultural Debris	10/11/2006	R/R spike	-	
Grenade Range	GRA1-1	736995	1007468	16	Mv	7/21/2006	21	2	4	Cultural Debris	7/25/2006	Trash	Pass	KC
Grenade Range	GRA1-7	736961.5	1007451.25	32	Mv	7/21/2006	33	2	5	Cultural Debris	7/25/2006	Nails	Pass	KC
Grenade Range	GRA4-5	736966.5	1008059.75	52	Mv	7/20/2006	20	2	2	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRA7-4	736930.25	1008768.75	19	Mv	7/21/2006	19	2	12	Cultural Debris	7/24/2006	Trash	-	
Grenade Range	GRB1-1	737183	1007471.75	25	Mv	7/21/2006	27	2	6	Cultural Debris	7/25/2006	3ea Nails	-	
Grenade Range	GRB3-104	737204.25	1007906.25	43	Mv	7/26/2006	56	2	4	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-109	737145.5	1007877.75	28	Mv	7/26/2006	39	2	4	Munitions Debris	7/27/2006	two 40mm heads, 1" deep & 2" deep	-	
Grenade Range	GRB3-11	737141.35	1007769.76	16	Mv	7/26/2006	19	2	6	Cultural Debris	7/27/2006	Trash	-	
Grenade Range	GRB3-112	737139	1007891	50	Mv	7/26/2006	54	2	5	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-114	737135.25	1007904.25	39	Mv	7/26/2006	39	2	8	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-115	737140.5	1007907.5	50	Mv	7/26/2006	50	2	10	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-116	737132.75	1007908.75	38	Mv	7/26/2006	39	2	3	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-15	737111.75	1007774	70	Mv	7/26/2006	66	2	10	Cultural Debris	7/27/2006	Wire	-	
Grenade Range	GRB3-2	737112	1007895.25	45	Mv	7/26/2006	39	2	4	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-20	737084	1007778.75	22	Mv	7/26/2006	24	2	4	Cultural Debris	7/27/2006	Wire	-	
Grenade Range	GRB3-28	737062.5	1007892.75	25	Mv	7/26/2006	29	2	8	Cultural Debris	7/27/2006	Nail & 40mm head	-	
Grenade Range	GRB3-39	737126	1007992.5	48	Mv	7/26/2006	45	2	4	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-5	737136.25	1007856.25	44	Mv	7/26/2006	43	2	18	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-52	737129.75	1007943.5	44	Mv	7/26/2006	50	2	3	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-55	737137.5	1007932	37	Mv	7/26/2006	54	2	3	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-56	737144.5	1007926.5	16	Mv	7/26/2006	17	2	4	Cultural Debris	7/27/2006	Trash	Pass	KC
Grenade Range	GRB3-57	737148.75	1007925.5	26	Mv	7/26/2006	29	2	10	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-70	737205	1007991.25	76	Mv	7/26/2006	80	2	20	MPPEH	7/27/2006	M-73 sub cal motor	-	
Grenade Range	GRB3-73	737219.25	1007952	77	Mv	7/26/2006	178	2	15	Munitions Debris	7/27/2006	two 40mm heads, both 2" deep	Pass	KC
Grenade Range	GRB3-74	737238.5	1007975.25	34	Mv	7/26/2006	36	2	3	Munitions Debris	7/27/2006	two 40mm heads, 2" deep & 3" deep	-	
Grenade Range	GRB3-77	737236	1007924.75	39	Mv	7/26/2006	33	2	3	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-78	737248.25	1007919.5	35	Mv	7/26/2006	37	2	8	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-82	737238	1007879.5	63	Mv	7/26/2006	75	2	6	Munitions Debris	7/27/2006	two 40mm heads	-	
Grenade Range	GRB3-85	737224	1007848.75	21	Mv	7/26/2006	24	2	1	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-90	737235.26	1007762.28	26	Mv	7/26/2006	75	2	10	Munitions Debris	7/27/2006	two 40mm heads, 2" deep & 3" deep	Pass	KC
Grenade Range	GRB3-95	737171.5	1007816.75	27	Mv	7/26/2006	28	2	5	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB4-42	737104.5	1008222.5	65	Mv	7/20/2006	45	2	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-60	737141.75	1008186.5	43	Mv	7/20/2006	75	2	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-65	737240.5	1008159.25	16	Mv	7/20/2006	25	2	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB4-66	737235.5	1008156.5	28	Mv	7/20/2006	35	2	2	Cultural Debris	7/24/2006	Seed Item	Pass	KC
Grenade Range	GRB4-76	737224.5	1008082.5	36	Mv	7/20/2006	45	2	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB5-1	737142.77	1008487.45	69	Mv	7/27/2006	150	2	8	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-101	737143	1008304.5	22	Mv	7/27/2006	70	2	4	MPPEH	8/1/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-11	737126.75	1008467.5	46	Mv	7/26/2006	50	2	3	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRB5-132	737041	1008472.25	206	Mv	7/26/2006	210	2	5	Cultural Debris	7/31/2006	Wire	-	
Grenade Range	GRB5-138	737084.25	1008459.25	104	Mv	7/26/2006	123	2	5	MPPEH	7/31/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-140	737087.49	1008470.56	20	Mv	7/26/2006	30	2	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-156	737118.75	1008497.75	45	Mv	7/26/2006	114	2	10	MPPEH	8/1/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-18	737110.24	1008444.62	50	Mv	7/26/2006	152	2	9	MPPEH	7/31/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB5-21	737114.55	1008435.87	36	Mv	7/26/2006	83	2	1	MPPEH	7/31/2006	M-73 sub cal	-	
Grenade Range	GRB5-26	737142.25	1008459.75	81	Mv	7/27/2006	130	2	7	MPPEH	8/1/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB5-31	737157.54	1008479.76	13	Mv	7/27/2006	30	2	3	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRB5-36	737191.81	1008472.41	24	Mv	7/27/2006	79	2	24	MPPEH	8/1/2006	M-73 sub cal	-	
Grenade Range	GRB5-37	737180.5	1008466.75	36	Mv	7/27/2006	48	2	6	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRB5-39	737182	1008441.76	58	Mv	7/27/2006	145	2	12	MPPEH	8/1/2006	M-73 sub cal	-	
Grenade Range	GRB5-40	737196.25	1008447	166	Mv	7/27/2006	200	2	10	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-43	737229.5	1008467	41	Mv	7/25/2006	41	2	3	Munitions Debris	8/1/2006	40mm head	-	

APPENDIX C
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Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB5-45	737217.5	1008432	83	Mv	7/27/2006	92	2	15	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB5-59	737130.25	1008416.5	19	Mv	7/26/2006	69	2	1	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB5-77	737135.98	1008382.38	35	Mv	7/27/2006	170	2	4	MPPEH	8/1/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB5-90	737071.25	1008396.5	48	Mv	7/26/2006	48	2	1	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRB6-1	737112.15	1008576.71	96	Mv	7/18/2006	270	2	8	MPPEH	7/20/2006	M-73 sub cal motor. B6-0001 and B6-0241 are the same item. Also found scrap metal	Pass	KC
Grenade Range	GRB6-10	737080	1008542	44	Mv	7/17/2006	105	2	8	Cultural Debris	7/19/2006	Wire from an old fence	-	
Grenade Range	GRB6-101	737093	1008674	193	Mv	7/18/2006	150	2	8	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-100 and B6-101 are same item	-	
Grenade Range	GRB6-109	737056.25	1008688	20	Mv	7/18/2006	230	2	8	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-108 and B6-109 are same item	Pass	KC
Grenade Range	GRB6-11	737074.75	1008540.75	22	Mv	7/17/2006	55	2	12	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRB6-111	737060.25	1008692.25	25	Mv	7/18/2006	130	2	6	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-112 and B6-111 are same item	-	
Grenade Range	GRB6-113	737055	1008693.25	17	Mv	7/18/2006	40	2	8	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-114	737040.75	1008708	31	Mv	7/18/2006	50	2	4	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRB6-116	737048.75	1008714.25	184	Mv	7/18/2006	180	2	8	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-117 and B6-116 are same item	Pass	KC
Grenade Range	GRB6-118	737058.75	1008716.75	42	Mv	7/18/2006	80	2	6	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-119 and B6-118 are same item	-	
Grenade Range	GRB6-12	737073.75	1008542.75	21	Mv	7/17/2006	45	2	6	Cultural Debris	7/19/2006	Wire bits from an old fence	-	
Grenade Range	GRB6-120	737068.75	1008713.25	26	Mv	7/18/2006	85	2	10	MPPEH	7/19/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB6-122	737067	1008719	18	Mv	7/18/2006	100	2	6	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-121 and B6-122 are same item	-	
Grenade Range	GRB6-123	737062.75	1008724.5	42	Mv	7/18/2006	230	2	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-124	737061.75	1008729	120	Mv	7/18/2006	180	2	6	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRB6-125	737047.75	1008728.25	42	Mv	7/18/2006	55	2	4	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-127	737054.25	1008736.5	25	Mv	7/18/2006	45	2	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-129	737069.25	1008737.25	65	Mv	7/18/2006	202	2	3	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-130 and B6-129 are same item	-	
Grenade Range	GRB6-13	737069.75	1008543.25	33	Mv	7/17/2006	30	2	4	Cultural Debris	7/19/2006	Wire bits from an old fence	-	
Grenade Range	GRB6-131	737072.25	1008732.5	21	Mv	7/18/2006	55	2	4	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-133	737105.86	1008739.6	50	Mv	7/18/2006	165	2	7	MPPEH	7/19/2006	40mm head & M-73 sub cal	-	
Grenade Range	GRB6-137	737084.5	1008715.5	35	Mv	7/18/2006	210	2	6	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-136 and B6-137 are same item	Pass	KC
Grenade Range	GRB6-138	737083.75	1008703.75	95	Mv	7/18/2006	130	2	8	MPPEH	7/19/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB6-145	737114.5	1008714	21	Mv	7/18/2006	180	2	10	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRB6-148	737127.49	1008713.03	34	Mv	7/18/2006	130	2	10	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-159	737237	1008701.25	44	Mv	7/18/2006	80	2	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-160	737249.27	1008626.67	23	Mv	7/18/2006	52	2	4	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-161	737242.25	1008619.25	31	Mv	7/18/2006	44	2	5	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-162	737221.75	1008628.25	34	Mv	7/18/2006	40	2	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-163	737222.25	1008593.75	42	Mv	7/18/2006	62	2	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRB6-166	737193	1008581	64	Mv	7/18/2006	150	2	10	MPPEH	7/20/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-169	737178.25	1008580.75	135	Mv	7/18/2006	170	2	6	No Contact	7/20/2006	M-73 sub cal motor. B6-0169 and B6-0170 are the same item.	-	
Grenade Range	GRB6-172	737158.28	1008576.36	42	Mv	7/18/2006	120	2	14	MPPEH	7/20/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB6-187	737245.25	1008561.25	52	Mv	7/18/2006	120	2	6	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-186 and B6-187 are same item	-	
Grenade Range	GRB6-188	737234.5	1008538	50	Mv	7/18/2006	65	2	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-19	737062.25	1008558.75	17	Mv	7/18/2006	25	2	9	Cultural Debris	7/20/2006	Wire pieces from old fence	Pass	KC
Grenade Range	GRB6-190	737243.42	1008516.87	36	Mv	7/18/2006	53	2	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-191	737223.5	1008524	3	Mv	7/18/2006	80	2	10	MPPEH	7/19/2006	M-73 sub cal	-	
Grenade Range	GRB6-195	737178.59	1008534.87	125	Mv	7/18/2006	165	2	8	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-196 and B6-195 are same item	-	
Grenade Range	GRB6-20	737053.37	1008540.33	62	Mv	7/17/2006	80	2	19	Cultural Debris	7/19/2006	Wire bits from an old fence	Pass	KC
Grenade Range	GRB6-200	737180.63	1008522.09	69	Mv	7/18/2006	180	2	6	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-199 and B6-200 are same item	-	
Grenade Range	GRB6-209	737121	1008505	60	Mv	7/18/2006	85	2	10	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-210 and B6-209 are same item	-	
Grenade Range	GRB6-21	737049.25	1008543.25	23	Mv	7/17/2006	20	2	10	Cultural Debris	7/19/2006	Wire from an old fence	Pass	KC
Grenade Range	GRB6-214	737103.9	1008504.04	66	Mv	7/18/2006	90	2	6	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-212 and B6-214 are same item	-	
Grenade Range	GRB6-219	737105.5	1008514.5	84	Mv	7/18/2006	125	2	5	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-218 and B6-219 are same item	-	
Grenade Range	GRB6-220	737096.75	1008515.75	51	Mv	7/18/2006	75	2	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-224	737121	1008545.75	51	Mv	7/18/2006	40	2	24	Cultural Debris	7/19/2006	Wire bits from an old fence	Pass	KC
Grenade Range	GRB6-225	737123.25	1008546	36	Mv	7/18/2006	28	2	5	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRB6-226	737124.25	1008551.25	117	Mv	7/18/2006	190	2	4	MPPEH	7/20/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-229	737117	1008548	68	Mv	7/18/2006	85	2	8	Cultural Debris	7/19/2006	Wire bits from old fence	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION				DIG RESULTS				QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	Initials	
Grenade Range	GRB6-23	737009.75	1008540.25	24	Mv	7/17/2006	22	2	20	Cultural Debris	7/19/2006	Wire from an old fence	Pass	KC	
Grenade Range	GRB6-234	737116.75	1008558.5	46	Mv	7/18/2006	175	2	8	No Contact	7/20/2006	M-73 sub cal motor. B6-0234 and B6-0232 are the same item.	-		
Grenade Range	GRB6-235	737123.5	1008565.5	110	Mv	7/18/2006	145	2	6	MPPEH	7/20/2006	M-73 sub cal motor	-		
Grenade Range	GRB6-237	737132.25	1008564.25	44	Mv	7/18/2006	80	2	4	Munitions Debris	7/20/2006	40mm head	Pass	KC	
Grenade Range	GRB6-239	737128	1008574	33	Mv	7/18/2006	65	2	4	Munitions Debris	7/20/2006	40mm head	-		
Grenade Range	GRB6-25	737017.75	1008574	19	Mv	7/18/2006	17	2	3	Cultural Debris	7/19/2006	Nail	-		
Grenade Range	GRB6-26	737000.41	1008634.08	25	Mv	7/18/2006	30	2	6	Cultural Debris	7/19/2006	Trash, Anomalies B6-27 and B6-26 are same item	Pass	KC	
Grenade Range	GRB6-28	737007.75	1008677	26	Mv	7/18/2006	45	2	6	Cultural Debris	7/19/2006	Wire	Pass	KC	
Grenade Range	GRB6-32	737025.5	1008660.25	46	Mv	7/18/2006	70	2	3	Munitions Debris	7/19/2006	40mm head	-		
Grenade Range	GRB6-36	737052.5	1008617.75	86	Mv	7/18/2006	115	2	8	MPPEH	7/20/2006	M-73 sub cal motor. B6-0037 and B6-0036 are the same item.	Pass	KC	
Grenade Range	GRB6-43	737087.75	1008607.5	18	Mv	7/18/2006	65	2	3	Munitions Debris	7/20/2006	40mm head	-		
Grenade Range	GRB6-45	737101.75	1008596	49	Mv	7/18/2006	90	2	3	Munitions Debris	7/20/2006	40mm head	Pass	KC	
Grenade Range	GRB6-47	737111.75	1008607.25	23	Mv	7/18/2006	40	2	8	Cultural Debris	7/20/2006	Trash, B6-0048 and B6-0047 are the same item.	Pass	KC	
Grenade Range	GRB6-51	737116.25	1008589	25	Mv	7/18/2006	70	2	4	Munitions Debris	7/20/2006	40mm head	-		
Grenade Range	GRB6-52	737120.75	1008594.25	21	Mv	7/18/2006	45	2	3	Cultural Debris	7/20/2006	Trash	-		
Grenade Range	GRB6-54	737123.25	1008598.25	60	Mv	7/18/2006	170	2	8	MPPEH	7/20/2006	M-73 sub cal motor. B6-0054 and B6-0055 are the same item.	-		
Grenade Range	GRB6-56	737132.25	1008610.75	38	Mv	7/18/2006	70	2	1	Munitions Debris	7/20/2006	40mm head	Pass	KC	
Grenade Range	GRB6-58	737106.75	1008630	47	Mv	7/18/2006	47	2	4	Munitions Debris	7/20/2006	40mm head	Pass	KC	
Grenade Range	GRB6-59	737095	1008629.75	85	Mv	7/18/2006	115	2	1	Munitions Debris	7/20/2006	40mm head	Pass	KC	
Grenade Range	GRB6-68	737126	1008655.75	83	Mv	7/18/2006	140	2	10	MPPEH	7/20/2006	M-73 sub cal motor	-		
Grenade Range	GRB6-71	737129.25	1008639	147	Mv	7/18/2006	185	2	8	No Contact	7/20/2006	M-73 sub cal motor. B6-0071 and B6-0070 are the same item.	Pass	KC	
Grenade Range	GRB6-73	737159.75	1008628	48	Mv	7/18/2006	60	2	4	Munitions Debris	7/20/2006	40mm head	Pass	KC	
Grenade Range	GRB6-74	737163.75	1008618	30	Mv	7/18/2006	55	2	2	Munitions Debris	7/20/2006	40mm head	-		
Grenade Range	GRB6-75	737176	1008608.5	37	Mv	7/18/2006	50	2	3	Munitions Debris	7/20/2006	40mm head	-		
Grenade Range	GRB6-79	737189.25	1008652.5	48	Mv	7/18/2006	85	2	12	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC	
Grenade Range	GRB6-82	737166.25	1008667	26	Mv	7/18/2006	90	2	10	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-83 and B6-82 are same item	Pass	KC	
Grenade Range	GRB6-89	737146.5	1008671.5	28	Mv	7/18/2006	225	2	4	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC	
Grenade Range	GRB6-94	737119.5	1008685.5	99	Mv	7/18/2006	155	2	10	MPPEH	7/19/2006	M-73 sub cal motor	-		
Grenade Range	GRB7-16	737080.25	1008813.75	103	Mv	7/21/2006	123	2	10	MPPEH	7/24/2006	M-73 sub cal	Pass	KC	
Grenade Range	GRB7-18	737063.95	1008766.9	60	Mv	7/21/2006	72	2	12	MPPEH	7/24/2006	M-73 sub cal	Pass	KC	
Grenade Range	GRB7-20	737037.5	1008773.5	30	Mv	7/21/2006	34	2	20	No Contact	7/24/2006	M-73 sub cal, Anomalies B7-20 and B7-21 are same item	Pass	KC	
Grenade Range	GRB7-3	737219	1008894.5	34	Mv	7/21/2006	36	2	14	Cultural Debris	7/24/2006	Trash	Pass	KC	
Grenade Range	GRB7-6	737169.5	1008800.5	42	Mv	7/21/2006	62	2	4	Munitions Debris	7/24/2006	40mm head	Pass	KC	
Grenade Range	GRB7-8	737163	1008779.75	17	Mv	7/21/2006	19	2	14	Cultural Debris	7/24/2006	Trash	Pass	KC	
Grenade Range	GRC2-12	737283.32	1007716.81	29	Mv	7/25/2006	50	2	3	Munitions Debris	8/23/2006	40mm	-		
Grenade Range	GRC2-23	737284	1007569.75	50	Mv	7/25/2006	12	2	24	Cultural Debris	8/23/2006	Scrap metal	Pass	KC	
Grenade Range	GRC2-34	737284	1007523.75	121	Mv	7/25/2006	123	2	1	Munitions Debris	8/23/2006	40mm	-		
Grenade Range	GRC2-9	737362.25	1007726.75	42	Mv	7/25/2006	56	2	5	Munitions Debris	8/23/2006	40mm	-		
Grenade Range	GRC3-102	737353.25	1007995.75	56	Mv	7/26/2006	50	2	1	Munitions Debris	7/27/2006	Frag	-		
Grenade Range	GRC3-118	737413	1007916.25	19	Mv	7/25/2006	20	2	8	Cultural Debris	7/31/2006	Nail	-		
Grenade Range	GRC3-13	737256.61	1007772.64	63	Mv	7/26/2006	70	2	3	Cultural Debris	7/31/2006	Wire	-		
Grenade Range	GRC3-130	737477.38	1007811.06	18	Mv	7/26/2006	65	2	4	Munitions Debris	7/31/2006	40mm head	-		
Grenade Range	GRC3-131	737475.75	1007779.75	31	Mv	7/26/2006	25	2	10	Cultural Debris	7/31/2006	Wire	-		
Grenade Range	GRC3-133	737416	1007785.5	18	Mv	7/26/2006	16	2	8	Cultural Debris	7/31/2006	Trash	-		
Grenade Range	GRC3-14	737253	1007776.25	70	Mv	7/26/2006	55	2	24	Cultural Debris	7/31/2006	Wire	-		
Grenade Range	GRC3-15	737285	1007805.75	40	Mv	7/25/2006	45	2	1	Munitions Debris	7/31/2006	40mm head	-		
Grenade Range	GRC3-16	737274	1007833.75	27	Mv	7/25/2006	63	2	5	MPPEH	7/31/2006	M-73 sub cal motor	-		
Grenade Range	GRC3-2	737365.5	1007789.25	38	Mv	7/26/2006	50	2	3	Munitions Debris	7/31/2006	40mm head	-		
Grenade Range	GRC3-27	737276.75	1007926.5	23	Mv	7/25/2006	58	2	5	Munitions Debris	7/27/2006	Frag	Pass	KC	
Grenade Range	GRC3-30	737312.75	1007918.5	49	Mv	7/26/2006	48	2	18	Cultural Debris	7/31/2006	Nail	-		
Grenade Range	GRC3-33	737302.84	1007904.94	51	Mv	7/26/2006	50	2	10	Munitions Debris	7/31/2006	40mm head	-		
Grenade Range	GRC3-39	737313	1007850	48	Mv	7/25/2006	75	2	3	Munitions Debris	7/31/2006	40mm head	-		
Grenade Range	GRC3-42	737324.5	1007858.75	50	Mv	7/25/2006	65	2	2	Munitions Debris	7/31/2006	40mm head	-		
Grenade Range	GRC3-44	737307.75	1007893.25	23	Mv	7/25/2006	75	2	10	Munitions Debris	7/31/2006	40mm head	Pass	KC	
Grenade Range	GRC3-47	737314.75	1007901	66	Mv	7/25/2006	52	2	4	Munitions Debris	7/31/2006	40mm head	Pass	KC	

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Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC3-50	737343	1007884.75	42	Mv	7/25/2006	60	2	1	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-53	737360.75	1007875.75	32	Mv	7/25/2006	60	2	4	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-54	737357	1007889.5	36	Mv	7/25/2006	45	2	5	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-55	737360.25	1007889	36	Mv	7/25/2006	50	2	2	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-56	737367.25	1007880.25	34	Mv	7/25/2006	58	2	5	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-59	737372.5	1007891.25	42	Mv	7/25/2006	65	2	6	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-62	737379	1007905	32	Mv	7/26/2006	38	2	4	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-63	737372	1007900.75	27	Mv	7/25/2006	33	2	3	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-69	737353.75	1007923.75	38	Mv	7/25/2006	50	2	9	Munitions Debris	7/31/2006	40mm head & 1ea piece of scrap metal	-	
Grenade Range	GRC3-71	737341.75	1007933.25	48	Mv	7/26/2006	48	2	8	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-73	737355.25	1007948.5	26	Mv	7/26/2006	32	2	8	Munitions Debris	7/27/2006	Frag	Pass	KC
Grenade Range	GRC3-75	737362	1007943.75	48	Mv	7/26/2006	59	2	6	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-76	737366.5	1007930.5	25	Mv	7/26/2006	31	2	4	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-77	737377	1007925.5	38	Mv	7/26/2006	42	2	1	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-78	737396	1007944.5	55	Mv	7/26/2006	48	2	5	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-81	737374	1007970.25	40	Mv	7/26/2006	43	2	1	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-82	737368.75	1007971.5	30	Mv	7/26/2006	39	2	3	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-83	737351.76	1007971.6	34	Mv	7/26/2006	44	2	4	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-87	737333.75	1007951	58	Mv	7/26/2006	52	2	5	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-88	737306	1007967	17	Mv	7/26/2006	17	2	2	Cultural Debris	7/27/2006	Trash	Pass	KC
Grenade Range	GRC3-91	737268.5	1007975.25	35	Mv	7/25/2006	45	2	1	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-92	737251.75	1007964.75	32	Mv	7/25/2006	45	2	3	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-93	737253.31	1007982.54	37	Mv	7/25/2006	55	2	10	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRC3-94	737260.25	1007983.25	24	Mv	7/25/2006	38	2	1	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-96	737302.75	1007992.75	32	Mv	7/26/2006	35	2	3	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-97	737319.5	1007998.25	43	Mv	7/26/2006	48	2	1	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC4-104	737252.75	1008066.25	40	Mv	7/20/2006	70	2	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-105	737255	1008078.25	35	Mv	7/20/2006	70	2	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-113	737282.75	1008093	37	Mv	7/20/2006	65	2	2	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-121	737326.75	1008144	60	Mv	7/20/2006	60	2	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-128	737339.5	1008164.5	55	Mv	7/20/2006	60	2	3	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-137	737353.25	1008174.75	41	Mv	7/20/2006	70	2	2	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRC4-17	737304.75	1008185.25	66	Mv	7/20/2006	70	2	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC4-49	737413.5	1008220	40	Mv	7/21/2006	55	2	0	Munitions Debris	7/24/2006	40mm round	-	
Grenade Range	GRC4-56	737443.75	1008182.75	28	Mv	7/21/2006	65	2	2	Munitions Debris	7/25/2006	40mm head	Pass	KC
Grenade Range	GRC5-12	737316.5	1008479.25	52	Mv	7/27/2006	55	2	2	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-14	737285.25	1008498.75	37	Mv	7/27/2006	42	2	3	Munitions Debris	8/1/2006	40mm & 1 ea piece of scrap metal	Pass	KC
Grenade Range	GRC5-145	737470	1008417.75	31	Mv	8/1/2006	32	2	8	Cultural Debris	8/2/2006	Nail	Pass	KC
Grenade Range	GRC5-146	737468.25	1008419	32	Mv	8/1/2006	32	2	20	Cultural Debris	8/2/2006	Nail	-	
Grenade Range	GRC5-148	737455.75	1008417.5	42	Mv	8/1/2006	59	2	7	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-149	737431.25	1008412.75	40	Mv	7/27/2006	31	2	8	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-15	737272.75	1008497	43	Mv	7/27/2006	57	2	3	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-151	737411.25	1008430.75	40	Mv	8/1/2006	48	2	16	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-153	737426.5	1008449	52	Mv	8/1/2006	55	2	7	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-160	737472.25	1008493.75	38	Mv	8/1/2006	36	2	4	Cultural Debris	8/1/2006	Wire	-	
Grenade Range	GRC5-166	737433	1008484	22	Mv	8/1/2006	25	2	10	Cultural Debris	8/1/2006	Wire	-	
Grenade Range	GRC5-167	737431.25	1008499.5	56	Mv	8/1/2006	63	2	8	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-174	737405.75	1008451.75	61	Mv	8/1/2006	63	2	6	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-175	737409.25	1008450.5	40	Mv	8/1/2006	45	2	6	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-183	737350.75	1008447	135	Mv	7/27/2006	155	2	4	MPPEH	8/1/2006	M-73 sub cal	-	
Grenade Range	GRC5-184	737373	1008446	62	Mv	7/27/2006	145	2	5	MPPEH	8/1/2006	M-73 sub cal	-	
Grenade Range	GRC5-187	737375.81	1008411.42	92	Mv	8/1/2006	96	2	2	MPPEH	8/2/2006	M-73 sub cal motor	-	
Grenade Range	GRC5-189	737372.75	1008405.25	41	Mv	8/1/2006	42	2	4	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-190	737367	1008387.75	49	Mv	8/1/2006	49	2	5	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-191	737373.75	1008386.75	56	Mv	8/1/2006	56	2	4	Munitions Debris	8/2/2006	40mm head	Pass	KC

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Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC5-192	737377	1008371.5	41	Mv	8/1/2006	43	2	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-196	737333.25	1008392.5	40	Mv	7/27/2006	54	2	6	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-199	737323.25	1008394.25	45	Mv	7/27/2006	62	2	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-2	737318.75	1008419.25	57	Mv	7/27/2006	67	2	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-200	737322	1008397	133	Mv	7/27/2006	194	2	8	MPPEH	8/2/2006	M-73 sub cal motor	-	
Grenade Range	GRC5-202	737330.75	1008402	52	Mv	7/27/2006	52	2	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-207	737352.25	1008407.25	58	Mv	7/27/2006	48	2	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-209	737349.75	1008418.5	46	Mv	7/27/2006	61	2	8	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-211	737332.25	1008411.25	52	Mv	7/27/2006	39	2	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-22	737262	1008448.25	49	Mv	7/27/2006	51	2	5	Munitions Debris	8/1/2006	40mm head	Pass	KC
Grenade Range	GRC5-23	737291.75	1008444.25	25	Mv	7/27/2006	111	2	6	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-24	737287.5	1008424.25	37	Mv	7/27/2006	60	2	6	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-25	737269	1008426.5	25	Mv	7/27/2006	25	2	10	Munitions Debris	8/2/2006	Frag	-	
Grenade Range	GRC5-29	737260.75	1008410.5	77	Mv	7/27/2006	58	2	12	Cultural Debris	8/2/2006	Nail	-	
Grenade Range	GRC5-34	737291.5	1008394.5	36	Mv	7/27/2006	52	2	6	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-35	737303.5	1008394	31	Mv	7/27/2006	39	2	24	MPPEH	8/2/2006	M-73 sub cal motor	-	
Grenade Range	GRC5-37	737307.75	1008387.5	36	Mv	7/27/2006	40	2	12	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-39	737299.75	1008385	42	Mv	7/27/2006	62	2	8	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-40	737299.75	1008379.25	157	Mv	7/27/2006	156	2	10	MPPEH	8/2/2006	M-73 sub cal	-	
Grenade Range	GRC5-42	737309	1008369	41	Mv	7/27/2006	41	2	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-43	737300	1008366.5	47	Mv	7/27/2006	56	2	4	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-45	737299.5	1008350.75	42	Mv	7/27/2006	44	2	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-52	737325.5	1008344.5	37	Mv	7/27/2006	36	2	3	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-57	737318.75	1008324.25	51	Mv	7/27/2006	75	2	1	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-7	737319.25	1008444.5	19	Mv	7/27/2006	23	2	4	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC6-02	737430.5	1008574.5	53	Mv	7/17/2006	119	2	2	MPPEH	7/19/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC6-04	737431.75	1008578.5	58	Mv	7/17/2006	61	2	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-05	737427.5	1008585	41	Mv	7/17/2006	50	2	2	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-07	737421.63	1008576.5	58	Mv	7/17/2006	68	2	2	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-101	737337.5	1008594.75	53	Mv	7/17/2006	75	2	2	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-106	737352.75	1008583.5	38	Mv	7/17/2006	38	2	3	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-107	737348.5	1008575.75	62	Mv	7/17/2006	63	2	6	MPPEH	7/20/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC6-11	737413.25	1008559.75	35	Mv	7/17/2006	37	2	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-115	737376.25	1008547.5	106	Mv	7/17/2006	123	2	2	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-124	737375.75	1008595.5	74	Mv	7/17/2006	90	2	3	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRC6-125	737368.58	1008621.67	31	Mv	7/17/2006	32	2	5	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-128	737395.75	1008680.25	34	Mv	7/17/2006	35	2	2	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-132	737360.5	1008683.25	23	Mv	7/17/2006	27	2	6	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-140	737262.75	1008718.5	29	Mv	7/17/2006	32	2	3	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-141	737273.75	1008722.75	29	Mv	7/17/2006	28	2	3	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-145	737295.75	1008734.75	29	Mv	7/17/2006	29	2	2	Cultural Debris	7/20/2006	Wire	-	
Grenade Range	GRC6-148	737338.75	1008743.25	34	Mv	7/17/2006	42	2	1	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-150	737419	1008736.5	48	Mv	7/17/2006	66	2	3	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-151	737428.75	1008736.75	42	Mv	7/17/2006	47	2	1	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-154	737447.25	1008728.25	50	Mv	7/17/2006	65	2	2	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-16	737382.25	1008547	32	Mv	7/17/2006	32	2	2	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-162	737433.5	1008692.5	34	Mv	7/17/2006	36	2	1	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC6-163	737410.45	1008692.51	83	Mv	7/17/2006	103	2	2	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-176	737437	1008588	47	Mv	7/17/2006	63	2	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-185	737470.5	1008558.25	73	Mv	7/17/2006	93	2	8	Cultural Debris	7/19/2006	Wire and seed item	-	
Grenade Range	GRC6-191	737461.75	1008549	16	Mv	7/17/2006	23	2	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-27	737366.5	1008546.5	57	Mv	7/17/2006	88	2	1	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-34	737351.75	1008546.25	25	Mv	7/17/2006	32	2	1	Cultural Debris	7/19/2006	Wire	Pass	KC
Grenade Range	GRC6-36	737352	1008548.5	20	Mv	7/17/2006	29	2	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-42	737346.25	1008542.25	17	Mv	7/17/2006	19	2	1	Cultural Debris	7/19/2006	Wire	Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS				QPOST-DIG QC		
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	Initials
Grenade Range	GRC6-45	737336.75	1008530	28	Mv	7/17/2006	28	2	1	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRC6-46	737328.25	1008546.75	48	Mv	7/17/2006	59	2	2	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRC6-54	737296.25	1008520.25	18	Mv	7/17/2006	19	2	2	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-57	737264.5	1008504.25	28	Mv	7/17/2006	28	2	1	Cultural Debris	7/19/2006	Wire	-	
Grenade Range	GRC6-69	737286	1008543	153	Mv	7/17/2006	186	2	2	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC6-76	737293.5	1008581.25	99	Mv	7/17/2006	106	2	8	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-84	737262.25	1008617.25	139	Mv	7/17/2006	123	2	2	MPPEH	7/20/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC6-86	737267	1008658	35	Mv	7/17/2006	36	2	5	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRC6-89	737296.63	1008646.79	62	Mv	7/17/2006	108	2	2	MPPEH	7/20/2006	M-73 sub cal motor	-	
Grenade Range	GRC6-93	737331.75	1008652	87	Mv	7/17/2006	151	2	1	MPPEH	7/20/2006	M-73 sub cal	-	
Grenade Range	GRC6-99	737320.25	1008624	54	Mv	7/18/2006	56	2	2	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRC7-10	737318.5	1008829.25	37	Mv	7/21/2006	44	2	4	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-12	737289.25	1008870.5	26	Mv	7/21/2006	27	2	6	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-14	737303.5	1008884.75	31	Mv	7/21/2006	70	2	8	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-25	737455.25	1008828.25	21	Mv	7/21/2006	22	2	22	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-6	737332.25	1008762.5	29	Mv	7/21/2006	33	2	6	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-7	737292.5	1008762.25	41	Mv	7/21/2006	43	2	22	MPPEH	7/24/2006	M-73 sub cal	-	
Grenade Range	GRC7-8	737304	1008792.75	31	Mv	7/21/2006	34	2	12	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRD3-2	737502.25	1007907	52	Mv	7/21/2006	60	2	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRD4-7	737607.8	1008189.71	22	Mv	7/21/2006	33	2	2	Cultural Debris	7/25/2006	Wire	Pass	KC
Grenade Range	GRD5-11	737595.25	1008305	133	Mv	7/21/2006	113	2	20	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRD5-27	737532	1008346.5	59	Mv	7/21/2006	76	2	6	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRD5-30	737504.68	1008326.56	40	Mv	7/21/2006	45	2	4	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRD6-14	737520	1008543	47	Mv	7/31/2006	48	2	2	Cultural Debris	7/24/2006	More wire from #12 and #13 did not remove every piece	Pass	KC
Grenade Range	GRD6-16	737512.25	1008541.5	20	Mv	7/31/2006	19	2	6	Cultural Debris	7/24/2006	Same fence line as #12, #13, #14, #15 could not remove all pieces	Pass	KC
Grenade Range	GRD6-5	737593.25	1008628.75	40	Mv	7/31/2006	40	2	1	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRGAP_001	737156.75	1008016	330	mV	10/3/2006	330	2	13	Munitions Debris	10/12/2006	40 mm base, 3ea	Pass	KC
Grenade Range	GRGAP_002	737156.25	1008024.25	23	mV	10/3/2006	23	2	10	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_006	737198.25	1008074.25	147	mV	10/3/2006	149	2	3	MPPEH	10/12/2006	M-73 sub cal	Pass	KC
Grenade Range	GRGAP_009	737194.5	1008066	163	mV	10/3/2006	165	2	20	MPPEH	10/12/2006	M-73 sub cal	Pass	KC
Grenade Range	GRGAP_012	737321	1008033.75	24	mV	10/3/2006	25	2	6	Munitions Debris	10/12/2006	40mm base	Pass	KC
Grenade Range	GRGAP_019	737427.5	1008086.75	28	mV	10/3/2006	28	2	12	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_021	737434.5	1008084	17	mV	10/3/2006	19	2	10	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_022	737441.25	1008088.25	60	mV	10/3/2006	57	2	13	Munitions Debris	10/12/2006	40 mm base	Pass	KC
Grenade Range	GRGAP_028	737436.75	1008099.75	35	mV	10/3/2006	37	2	13	Munitions Debris	10/12/2006	Sub cal with head	-	
Grenade Range	GRGAP_031	737408.25	1008094.75	44	mV	10/3/2006	45	2	5	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_032	737405.794	1008096.208	38	mV	10/3/2006	39	2	10	Cultural Debris	10/12/2006	Nails	Pass	KC
Grenade Range	GRGAP_034	737359.75	1008170	57	mV	10/3/2006	58	2	8	Munitions Debris	10/12/2006	Small Arms, blank cart.	-	
Grenade Range	GRGAP_049	737157.75	1008004.75	29	mV	10/3/2006	28	2	14	Cultural Debris	10/12/2006	Nails	Pass	KC
Local Training Area	HS_042	739920.75	1007214.75	1671	mV	10/2/2006	1671	2	16	Munitions Debris	10/11/2006	Box fins/slag	-	
Local Training Area	HS_044	739907	1007212	1992	mV	10/2/2006	1992	2	10	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_049	739857.75	1007199.75	192	mV	10/2/2006	192	2	24	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_053	739876.25	1007168.5	2071	mV	10/2/2006	2071	2	5	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_054	739880	1007175	196	mV	10/2/2006	196	2	2	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_058	739923.25	1007175	266	mV	10/2/2006	266	2	24	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_071	740001.5	1007237.5	1003	mV	10/2/2006	1003	2	5	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_074	739992.25	1007222.75	31119	mV	10/2/2006	5000	2	12	Munitions Debris	10/11/2006	Box fin	Pass	KC
Local Training Area	HS_076	739961.25	1007222	955	mV	10/2/2006	955	2	24	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_098	740015.25	1007372.75	4634	mV	10/2/2006	4634	2	3	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_109	739926	1007270.75	122	mV	10/2/2006	122	2	24	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_112	739911.5	1007289	2114	mV	10/2/2006	2114	2	12	Munitions Debris	10/11/2006	Box fins	-	
Local Training Area	HS_115	739891	1007331	324	mV	10/2/2006	324	2	12	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_120	739838.25	1007368	182	mV	10/2/2006	182	2	12	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_123	739847.5	1007327	514	mV	10/2/2006	514	2	14	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_129	739860.768	1007268.879	288	mV	10/2/2006	289	2	18	Cultural Debris	10/11/2006	-	-	

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		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	Initials
Local Training Area	HS_134	739544.5	1007233.75	316	mV	10/2/2006	316	2	8	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_137	739419.5	1007346.25	51	mV	11/30/2006	51	2	30	Munitions Debris	11/2/2006	Frag	-	
Local Training Area	HS_138	739369.75	1007345.75	41	mV	11/30/2006	42	2	1	Cultural Debris	11/2/2006	Scrap metal	-	
Local Training Area	HS_152	738338.25	1007299.25	155	mV	10/2/2006	152	2	3	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_155	738001	1007434.75	105	mV	10/2/2006	105	2	5	Cultural Debris	10/10/2006	Wire handle	Pass	KC
Local Training Area	HS_160	738046.75	1007489.75	100	mV	10/2/2006	99	2	6	Cultural Debris	10/10/2006	Door knob	Pass	KC
Local Training Area	HS_184	737870.5	1007476.75	100	mV	10/2/2006	102	2	18	Cultural Debris	10/10/2006	Found 3 ea latches, a small piece of wire around frag	Pass	KC
Local Training Area	HS_194	737833.75	1007474	124	mV	10/2/2006	123	2	15	Munitions Debris	10/10/2006	37 mm projectile, AP-T	Pass	KC
Local Training Area	HS_195	737827	1007449.5	347	mV	10/2/2006	345	2	10	Cultural Debris	10/10/2006	Scrap metal, 2 pieces	Pass	KC
Local Training Area	HS_217	737927	1007223	427	mV	10/2/2006	429	2	5	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_220	737912.75	1007223.25	452	mV	10/2/2006	453	2	3	Cultural Debris	10/10/2006	Rod anchored in ground	Pass	KC
Local Training Area	HS_221	737907.75	1007223.25	389	mV	10/2/2006	390	2	2	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_235	737768.75	1007240.5	148	mV	10/2/2006	149	2	12	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_236	737767.5	1007238.5	211	mV	10/2/2006	210	2	8	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_248	737888.75	1007106.25	219	mV	10/2/2006	219	2	12	Cultural Debris	10/10/2006		Pass	KC
Local Training Area	HS_285	740307.104	1007556.261	129	mV	10/2/2006	132	2	6	Cultural Debris	10/11/2006	Steel rod and scrap metal	-	
Local Training Area	HS_299	740046.5	1007536.75	429	mV	10/2/2006	431	2	17	Cultural Debris	10/11/2006	Large bolt	Pass	KC
Local Training Area	HS_300	740057.5	1007544.5	322	mV	10/2/2006	324	2	5	Cultural Debris	10/11/2006	Iron rod	Pass	KC
Local Training Area	HS_311	739998.5	1007565.25	45	mV	11/30/2006	45	2	24	Cultural Debris	11/6/2006	Banding	-	
Local Training Area	HS_313	739989.54	1007565.148	37	mV	11/30/2006	37	2	8	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_316	739976.75	1007584	178	mV	10/2/2006	176	2	5	Cultural Debris	10/11/2006	Wire	Pass	KC
Local Training Area	HS_317	739971.5	1007584.75	315	mV	10/2/2006	318	2	14	Cultural Debris	10/11/2006	Wire, chopped up by the mower	Pass	KC
Local Training Area	HS_319	739964.75	1007584.75	348	mV	10/2/2006	350	2	0	Cultural Debris	10/11/2006	10" scrap metal	Pass	KC
Local Training Area	HS_320	739959.75	1007588	750	mV	10/2/2006	750	2	0	Cultural Debris	10/11/2006	5" scrap metal	-	
Local Training Area	HS_322	739945.75	1007586	489	mV	10/2/2006	491	2	3	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_323	739951	1007570.75	87	mV	11/30/2006	87	2	30	Cultural Debris	11/6/2006	Iron rod	-	
Local Training Area	HS_325	739941.5	1007564.75	268	mV	10/2/2006	269	2	3	Cultural Debris	10/11/2006		-	
Local Training Area	HS_328	739920.75	1007591.75	4072	mV	10/2/2006	4071	2	2	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_329	739908.5	1007591.5	2091	mV	10/2/2006	2090	2	4	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_340	739836.75	1007578.75	811	mV	10/2/2006	814	2	6	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_342	739827.75	1007573	441	mV	10/2/2006	442	2	6	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_344	739817.25	1007573.25	431	mV	10/2/2006	430	2	10	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_348	739795	1007544.25	294007	mV	10/2/2006	5000	2	3	Cultural Debris	10/11/2006		-	
Local Training Area	HS_352	739767.5	1007512.5	1681	mV	10/2/2006	1684	2	4	Cultural Debris	10/11/2006		-	
Local Training Area	HS_356	739505.75	1007557.25	680	mV	10/2/2006	682	2	0	Munitions Debris	10/17/2006	Small Arms, 9x .50 cal heads	-	
Local Training Area	HS_357	739496.5	1007574.25	77	mV	11/30/2006	77	2	12	Cultural Debris	11/6/2006	2 nails	-	
Local Training Area	HS_361	739461	1007556.75	20	mV	11/30/2006	20	2	20	Munitions Debris	11/6/2006	Small Arms, .50 cal head	-	
Local Training Area	HS_381	738900	1007549.75	50	mV	11/30/2006	50	2	15	Cultural Debris	11/2/2006	metal spring	-	
Local Training Area	HS_394	738485	1007510.75	2061	mV	10/2/2006	2061	2	2	Cultural Debris	10/10/2006	Very large tent peg	Pass	KC
Local Training Area	HS_399	738446.5	1007502.75	288	mV	10/2/2006	289	2	14	Cultural Debris	10/10/2006	R/R Spike, 2ea	Pass	KC
Local Training Area	HS_401	738418.75	1007497.25	261	mV	10/2/2006	263	2	18	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_415	738257.588	1007427.354	39	mV	11/30/2006	39	2	8	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_420	738306.25	1007404	398	mV	10/2/2006	399	2	13	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_447	738485.75	1007486.75	128	mV	10/2/2006	129	2	5	Cultural Debris	10/10/2006	Washer 2ea, iron hook,	Pass	KC
Local Training Area	HS_451	738497.75	1007472.75	46	mV	11/30/2006	46	2	36	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_456	738500.75	1007434.5	33	mV	11/30/2006	33	2	12	Cultural Debris	11/6/2006	Can lid	-	
Local Training Area	HS_457	738503.5	1007425	162	mV	10/2/2006	161	2	24	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_466	738455.25	1007384	66	mV	11/30/2006	66	2	3	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_474	738911.25	1007393.75	189	mV	10/2/2006	189	2	5	Munitions Debris	10/10/2006	Frag	Pass	KC
Local Training Area	HS_479	738939.75	1007493.25	50	mV	11/30/2006	50	2	8	Cultural Debris	11/2/2006	Nail	-	
Local Training Area	HS_510	739422.5	1007451	316	mV	10/2/2006	317	2	3	Cultural Debris	10/11/2006	Track drive wheel piece	Pass	KC
Local Training Area	HS_513	739507.25	1007447.5	667	mV	10/2/2006	668	2	0	Munitions Debris	10/17/2006	Small Arms, 54x .50 cal heads removed. .50 cal pit, did not clear.	-	
Local Training Area	HS_523	739778.776	1007478.072	121	mV	10/2/2006	120	2	18	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_527	739777.25	1007459.75	738	mV	10/2/2006	740	2	2	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_529	739803.349	1007461.085	698	mV	10/2/2006	700	2	24	Cultural Debris	10/11/2006		Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Local Training Area	HS_538	739831.25	1007526.25	208	mV	10/2/2006	209	2	15	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_542	739858.5	1007520.25	571	mV	10/2/2006	573	2	5	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_544	739864.5	1007492.75	2113	mV	10/2/2006	2114	2	0	Cultural Debris	10/11/2006	15" scrap metal	Pass	KC
Local Training Area	HS_549	739841.115	1007463.394	1020	mV	10/2/2006	1020	2	4	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_550	739848.75	1007458.25	479	mV	10/2/2006	480	2	24	Cultural Debris	10/11/2006		-	
Local Training Area	HS_556	739900.815	1007521.445	42	mV	11/30/2006	42	2	12	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_561	739899.5	1007495.25	369	mV	10/2/2006	370	2	0	Cultural Debris	10/11/2006	4" scrap metal	Pass	KC
Local Training Area	HS_567	740002.5	1007430.75	167	mV	10/2/2006	167	2	48	Cultural Debris	10/11/2006	Handle	Pass	KC
Local Training Area	HS_570	740008	1007466	138	mV	10/2/2006	137	2	10	Cultural Debris	10/11/2006	Trailer pin	Pass	KC
Local Training Area	HS_591	740303.5	1007514	110	mV	10/2/2006	110	2	6	Cultural Debris	10/11/2006	R/R spike	-	
Local Training Area	HS_640	740420.75	1007555	88	mV	11/30/2006	88	2	6	Cultural Debris	11/6/2006	Bolt	-	
Local Training Area	HS_642	740445.75	1007549.25	190	mV	10/2/2006	190	2	19	Cultural Debris	10/11/2006	R/R spike	-	
Local Training Area	HS_645	740429.75	1007523.25	211	mV	10/2/2006	213	2	5	Cultural Debris	10/11/2006	R/R spike	-	
Grenade Range	GRB2-40	737119.5	1007524	23	Mv	7/25/2006	22	1	48	Hot Soil	8/1/2006	Hot rock	-	
Grenade Range	GRB3-3	737104.75	1007894.25	59	Mv	7/26/2006	56	1	1	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-41	737130	1007982.5	44	Mv	7/26/2006	42	1	2	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-43	737128	1007972	49	Mv	7/26/2006	51	1	4	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-49	737125.25	1007930	37	Mv	7/26/2006	52	1	20	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-58	737159.75	1007940.25	25	Mv	7/26/2006	24	1	1	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-59	737154	1007947.25	53	Mv	7/26/2006	66	1	2	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-60	737144.75	1007958	73	Mv	7/26/2006	100	1	5	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-65	737148.25	1007973.25	44	Mv	7/26/2006	68	1	2	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-66	737150.5	1007988	61	Mv	7/26/2006	62	1	20	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-7	737131	1007845.5	43	Mv	7/26/2006	61	1	3	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRB3-71	737203.5	1007963.5	67	Mv	7/26/2006	91	1	4	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-75	737238	1007950.5	45	Mv	7/26/2006	41	1	3	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-81	737244.75	1007892.75	33	Mv	7/26/2006	52	1	9	Munitions Debris	7/27/2006	two 40mm heads, 1" deep & 2" deep	-	
Grenade Range	GRB3-88	737220.25	1007815.5	29	Mv	7/26/2006	31	1	24	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-92	737192	1007773.75	23	Mv	7/26/2006	24	1	7	Cultural Debris	7/27/2006	Wire & 40mm head	-	
Grenade Range	GRB3-99	737170	1007853.5	44	Mv	7/26/2006	44	1	8	Munitions Debris	7/27/2006	two 40mm heads, 1" deep & 3" deep	-	
Grenade Range	GRB5-30	737156.12	1008473.29	96	Mv	7/27/2006	35	1	2	MPPEH	8/1/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB5-5	737125.42	1008487.91	77	Mv	7/26/2006	76	1	4	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-146	737131.25	1008726	29	Mv	7/18/2006	85	1	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-149	737134.25	1008704.25	68	Mv	7/18/2006	270	1	6	MPPEH	7/19/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB6-157	737176.03	1008709.45	52	Mv	7/18/2006	230	1	4	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-156 and B6-157 are same item	-	
Grenade Range	GRB6-168	737189	1008586.25	138	Mv	7/18/2006	150	1	8	MPPEH	7/20/2006	M-73 sub cal motor. B6-0168 and B6-0167 are the same item	-	
Grenade Range	GRB6-176	737161.25	1008559.25	24	Mv	7/18/2006	48	1	3	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRB6-183	737220.5	1008549.75	38	Mv	7/18/2006	54	1	4	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-185	737225.25	1008559.5	37	Mv	7/18/2006	70	1	4	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-184 and B6-185 are same item	-	
Grenade Range	GRB6-189	737240.01	1008519.49	28	Mv	7/18/2006	55	1	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-193	737211.25	1008534.25	70	Mv	7/18/2006	100	1	4	MPPEH	7/19/2006	M-73 sub cal motor	-	
Grenade Range	GRB6-201	737181.25	1008519.25	45	Mv	7/18/2006	115	1	8	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-202 and B6-201 are same item	Pass	KC
Grenade Range	GRB6-204	737175.5	1008510.25	143	Mv	7/18/2006	205	1	2	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-203 and B6-204 are same item	-	
Grenade Range	GRB6-206	737167.23	1008518.87	55	Mv	7/18/2006	110	1	12	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-205 and B6-206 are same item	-	
Grenade Range	GRB6-207	737128.25	1008510.25	89	Mv	7/18/2006	140	1	1	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-208	737118.25	1008509.25	45	Mv	7/18/2006	65	1	3	Munitions Debris	7/19/2006	40mm head	-	
Grenade Range	GRB6-215	737104.5	1008507	60	Mv	7/18/2006	90	1	5	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-216 and B6-215 are same item	-	
Grenade Range	GRB6-217	737112.44	1008514.31	100	Mv	7/18/2006	175	1	2	MPPEH	7/19/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB6-221	737096.33	1008521.61	24	Mv	7/18/2006	45	1	1	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRB6-238	737137	1008571	54	Mv	7/18/2006	80	1	10	Cultural Debris	7/20/2006	Wire pieces from old fence	Pass	KC
Grenade Range	GRB6-240	737122	1008576.25	54	Mv	7/18/2006	90	1	2	Cultural Debris	7/20/2006	Trash	-	
Grenade Range	GRB6-31	737032	1008666	47	Mv	7/18/2006	100	1	1	Munitions Debris	7/19/2006	40mm head	Pass	KC
Grenade Range	GRB6-41	737056.5	1008605.25	52	Mv	7/18/2006	65	1	1	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRB6-6	737100.59	1008559.97	68	Mv	7/18/2006	115	1	8	No Contact	7/20/2006	M-73 sub cal motor. B6-0005 and B6-0006 are the same item.	-	
Grenade Range	GRB6-61	737087.75	1008628.75	40	Mv	7/18/2006	50	1	4	Munitions Debris	7/20/2006	40mm head	-	

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS				QPOST-DIG QC		
		Location (ft) Easting (X) Northing (Y)	Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	Initials	
Grenade Range	GRB6-66	737099	1008653.75	17	Mv	7/18/2006	52	1	10	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRB6-67	737119.25	1008652	37	Mv	7/18/2006	53	1	5	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRB6-72	737137.75	1008638.25	53	Mv	7/18/2006	60	1	4	Munitions Debris	7/20/2006	40mm head	-	
Grenade Range	GRB6-76	737172	1008629.25	34	Mv	7/18/2006	62	1	1	Munitions Debris	7/20/2006	40mm head	Pass	KC
Grenade Range	GRB6-80	737186.42	1008665.85	84	Mv	7/18/2006	90	1	12	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-81 and B6-80 are same item	Pass	KC
Grenade Range	GRB6-85	737166.75	1008654.75	83	Mv	7/18/2006	190	1	5	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-86 and B6-85 are same item	-	
Grenade Range	GRB6-9	737092.75	1008556.75	63	Mv	7/18/2006	135	1	6	No Contact	7/20/2006	M-73 sub cal motor. B6-0009 and B6-0008 are the same item.	Pass	KC
Grenade Range	GRB7-10	737117.25	1008755.5	60	Mv	7/21/2006	62	1	24	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB7-13	737082.75	1008759.25	80	Mv	7/21/2006	81	1	8	MPPEH	7/24/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB7-14	737094	1008781.25	30	Mv	7/21/2006	70	1	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-15	737086	1008782.5	38	Mv	7/21/2006	63	1	5	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-17	737077.75	1008796.25	38	Mv	7/21/2006	39	1	3	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRB7-2	737177.25	1008886.25	44	Mv	7/21/2006	74	1	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-25	737047	1008837.5	46	Mv	7/21/2006	61	1	1	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-27	737048.75	1008853	20	Mv	7/21/2006	35	1	2	Munitions Debris	7/24/2006	40mm	Pass	KC
Grenade Range	GRB7-32	737076.5	1008861.25	17	Mv	7/21/2006	41	1	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-33	737153	1008858.5	25	Mv	7/21/2006	26	1	12	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRB7-9	737158.87	1008775.16	38	Mv	7/21/2006	93	1	2	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRC2-19	737309.47	1007550.24	38	Mv	7/25/2006	39	1	24	Cultural Debris	8/23/2006	Numerous nails, did not remove all	Pass	KC
Grenade Range	GRC2-20	737307	1007549	65	Mv	7/25/2006	69	1	24	Cultural Debris	8/23/2006	Numerous nails, did not remove all	Pass	KC
Grenade Range	GRC2-32	737274.5	1007513.25	22	Mv	7/25/2006	22	1	4	Cultural Debris	8/23/2006	Scrap metal. Anomalies C2-32 & C2-33 are the same item.	Pass	KC
Grenade Range	GRC2-33	737278	1007514.75	28	Mv	7/25/2006	28	1	4	Cultural Debris	8/23/2006	Scrap metal. Anomalies C2-32 & C2-33 are the same item.	Pass	KC
Grenade Range	GRC3-103	737368	1007997.25	44	Mv	7/26/2006	48	1	1	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-104	737376.82	1007999.55	25	Mv	7/26/2006	26	1	2	Munitions Debris	7/27/2006	40mm head	Pass	KC
Grenade Range	GRC3-109	737488	1007996	24	Mv	7/26/2006	46	1	3	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-20	737259	1007857.75	55	Mv	7/25/2006	75	1	1	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-25	737260.25	1007900	36	Mv	7/25/2006	55	1	3	Munitions Debris	7/27/2006	Frag	Pass	KC
Grenade Range	GRC3-29	737302.5	1007935.75	49	Mv	7/26/2006	50	1	2	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC3-31	737305	1007916	58	Mv	7/26/2006	65	1	6	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-32	737309	1007911	52	Mv	7/25/2006	65	1	7	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-34	737294	1007901.25	41	Mv	7/25/2006	70	1	8	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-41	737327.25	1007855.5	16	Mv	7/25/2006	40	1	2	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-45	737308.83	1007899.78	33	Mv	7/25/2006	65	1	1	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-49	737339.75	1007897.75	47	Mv	7/25/2006	55	1	5	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-57	737370	1007878.25	21	Mv	7/25/2006	50	1	6	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-61	737385.25	1007896.75	43	Mv	7/26/2006	42	1	1	Munitions Debris	7/31/2006	40mm head	Pass	KC
Grenade Range	GRC3-64	737368.25	1007902.75	46	Mv	7/25/2006	75	1	1	Munitions Debris	7/31/2006	40mm head	-	
Grenade Range	GRC3-85	737332.75	1007968.75	51	Mv	7/26/2006	52	1	3	Munitions Debris	7/27/2006	Frag	-	
Grenade Range	GRC4-107	737263.5	1008087.75	31	Mv	7/20/2006	96	1	1	Munitions Debris	7/24/2006	40mm head	-	
Grenade Range	GRC4-129	737342.5	1008162.25	38	Mv	7/20/2006	57	1	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC5-10	737318.25	1008469.25	21	Mv	7/27/2006	22	1	20	Cultural Debris	8/1/2006	Trash	-	
Grenade Range	GRC5-13	737303.5	1008496.5	50	Mv	7/27/2006	57	1	1	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC5-163	737452.5	1008491.25	97	Mv	8/1/2006	99	1	12	MPPEH	8/1/2006	M-73 sub cal motor	-	
Grenade Range	GRC5-17	737270	1008485.25	95	Mv	7/27/2006	63	1	13	MPPEH	8/1/2006	M-73 sub cal	Pass	KC
Grenade Range	GRC5-193	737354.75	1008382.25	47	Mv	7/27/2006	71	1	1	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-197	737327.75	1008385.25	89	Mv	7/27/2006	93	1	5	Munitions Debris	8/2/2006	40mm head & Small Arms, 5.56 blank cart (also found)	-	
Grenade Range	GRC5-198	737318	1008384.25	38	Mv	7/27/2006	46	1	1	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-206	737350.5	1008404.75	46	Mv	7/27/2006	66	1	2	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-210	737346	1008418	34	Mv	7/27/2006	36	1	12	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-27	737266.75	1008416.75	63	Mv	7/27/2006	64	1	8	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-28	737264.5	1008410.75	26	Mv	7/27/2006	42	1	9	Cultural Debris	8/2/2006	Nails	-	
Grenade Range	GRC5-4	737326.75	1008424.5	39	Mv	7/27/2006	49	1	4	Munitions Debris	8/2/2006	40mm head	Pass	KC
Grenade Range	GRC5-56	737330.5	1008333	34	Mv	7/27/2006	33	1	3	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-9	737315.5	1008456.75	22	Mv	7/27/2006	45	1	7	Munitions Debris	8/1/2006	40mm head	-	
Grenade Range	GRC6-10	737421	1008560	48	Mv	7/17/2006	73	1	1	Munitions Debris	7/19/2006	40mm head	Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	Initials
Grenade Range	GRC7-19	737360.75	1008891.5	30	Mv	7/21/2006	34	1	12	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-20	737397.25	1008888.5	54	Mv	7/21/2006	54	1	3	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRC7-22	737434.25	1008878.5	21	Mv	7/21/2006	22	1	20	Cultural Debris	7/24/2006	Trash	Pass	KC
Grenade Range	GRC7-9	737314.25	1008793.75	42	Mv	7/21/2006	43	1	2	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRD5-18	737594.86	1008426.38	64	Mv	7/21/2006	131	1	2	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRD5-32	737529	1008313.75	40	Mv	7/21/2006	71	1	24	MPPEH	7/24/2006	M-73 sub cal motor	Pass	KC
Grenade Range	GRD6-11	737556.5	1008557	20	Mv	7/31/2006	19	1	24	Cultural Debris	7/24/2006	Wire from an old fence	Pass	KC
Grenade Range	GRD6-8	737573.75	1008561.25	24	Mv	7/31/2006	25	1	20	Munitions Debris	7/24/2006	40mm head	Pass	KC
Grenade Range	GRGAP_026	737437.25	1008096.25	115	mV	10/3/2006	118	1	26	Cultural Debris	10/12/2006	Nails.	Pass	KC
Grenade Range	GRGAP_027	737439.75	1008099.5	27	mV	10/3/2006	26	1	8	Cultural Debris	10/12/2006	Nails	-	
Grenade Range	GRGAP_029	737433.5	1008102.75	23	mV	10/3/2006	22	1	6	Cultural Debris	10/12/2006	Nails	Pass	KC
Local Training Area	HS_051	739838	1007171	1366	mV	10/2/2006	1366	1	12	Cultural Debris	10/11/2006	Garbage pit	Pass	KC
Local Training Area	HS_057	739910.5	1007176	4018	mV	10/2/2006	4018	1	18	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_060	739947.25	1007186.25	701	mV	10/2/2006	701	1	4	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_065	739999.75	1007200.75	25847	mV	10/2/2006	5000	1	5	Cultural Debris	10/11/2006	-	Pass	KC
Local Training Area	HS_066	740015.872	1007204.615	2091	mV	10/2/2006	2091	1	15	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_084	740029.75	1007270.75	226	mV	10/2/2006	226	1	2	Cultural Debris	10/11/2006	Pallet	-	
Local Training Area	HS_086	740011.25	1007306.75	483	mV	10/2/2006	483	1	6	Munitions Debris	10/11/2006	Bomb fins	-	
Local Training Area	HS_101	739984.25	1007370.25	367	mV	10/2/2006	367	1	5	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_105	739941.75	1007333.75	1328	mV	10/2/2006	1328	1	8	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_118	739904	1007368.5	167	mV	10/2/2006	167	1	24	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_119	739865.25	1007375.25	74600	mV	10/2/2006	5000	1	1	Cultural Debris	10/11/2006	-	-	
Local Training Area	HS_136	739459	1007324.25	545	mV	10/2/2006	545	1	2	Cultural Debris	10/11/2006	-	Pass	KC
Local Training Area	HS_140	738941	1007323.25	167	mV	10/2/2006	166	1	12	Cultural Debris	10/10/2006	-	Pass	KC
Local Training Area	HS_156	738012	1007487.25	445	mV	10/2/2006	445	1	12	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
Local Training Area	HS_157	738018.5	1007487.25	181	mV	10/2/2006	180	1	10	Cultural Debris	10/10/2006	Angle iron	Pass	KC
Local Training Area	HS_226	737842.5	1007228.5	2147	mV	10/2/2006	2148	1	2	Cultural Debris	10/10/2006	-	Pass	KC
Local Training Area	HS_255	737940.25	1007194.5	130	mV	10/2/2006	130	1	5	Munitions Debris	10/10/2006	slap flare	Pass	KC
Local Training Area	HS_256	737949.75	1007193.5	426	mV	10/2/2006	426	1	4	Cultural Debris	10/10/2006	-	Pass	KC
Local Training Area	HS_331	739894	1007566.25	138	mV	10/2/2006	141	1	3	Cultural Debris	10/11/2006	-	Pass	KC
Local Training Area	HS_333	739867.5	1007580	303	mV	10/2/2006	304	1	10	Cultural Debris	10/11/2006	-	Pass	KC
Local Training Area	HS_346	739803.5	1007564.5	265	mV	10/2/2006	266	1	2	Cultural Debris	10/11/2006	-	Pass	KC
Local Training Area	HS_358	739482.75	1007574.25	111	mV	10/2/2006	111	1	1	Cultural Debris	10/11/2006	Scrap aluminum	Pass	KC
Local Training Area	HS_362	739449.5	1007558.75	55	mV	11/30/2006	55	1	15	Munitions Debris	11/6/2006	Small Arms, two .50 cal heads	-	
Local Training Area	HS_384	738824.268	1007561.97	370	mV	10/2/2006	370	1	9	Cultural Debris	10/10/2006	Metal strap, 2ea, 30 cal rounds, and 2ea wing nuts.	Pass	KC
Local Training Area	HS_405	738378.25	1007526.25	131	mV	10/2/2006	131	1	5	Cultural Debris	10/10/2006	Banding and wire	Pass	KC
Local Training Area	HS_407	738330.75	1007525.25	924	mV	10/2/2006	925	1	7	Cultural Debris	10/10/2006	Iron bar and banding	Pass	KC
Local Training Area	HS_414	738263.75	1007439.75	1693	mV	10/2/2006	1693	1	6	Cultural Debris	10/10/2006	Steel plate and an iron rod	Pass	KC
Local Training Area	HS_416	738270.75	1007412.75	99	mV	11/30/2006	99	1	10	Cultural Debris	11/6/2006	Banding	-	
Local Training Area	HS_424	738320	1007453.5	1377	mV	10/2/2006	1377	1	8	Cultural Debris	10/10/2006	Molding	Pass	KC
Local Training Area	HS_434	738396.5	1007408.75	182	mV	10/2/2006	183	1	14	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
Local Training Area	HS_452	738491	1007467.75	43	mV	11/30/2006	44	1	6	Cultural Debris	11/6/2006	Nail	-	
Local Training Area	HS_453	738494.5	1007462.5	86	mV	11/30/2006	86	1	9	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_459	738526	1007421.75	1053	mV	10/2/2006	1053	1	4	Cultural Debris	10/10/2006	Iron rod	Pass	KC
Local Training Area	HS_460	738502.488	1007414.021	46	mV	11/30/2006	46	1	20	Cultural Debris	11/6/2006	Banding	-	
Local Training Area	HS_461	738498.25	1007407.25	117	mV	10/2/2006	117	1	6	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
Local Training Area	HS_463	738498.75	1007418.25	29	mV	11/30/2006	29	1	13	Cultural Debris	11/6/2006	Banding	-	
Local Training Area	HS_464	738494	1007421	96	mV	11/30/2006	96	1	10	Cultural Debris	11/6/2006	Nail	-	
Local Training Area	HS_473	738842.5	1007397.5	347	mV	10/2/2006	347	1	20	Cultural Debris	10/10/2006	2 ea large metal pins	Pass	KC
Local Training Area	HS_475	738877	1007486	95	mV	11/30/2006	95	1	6	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_481	738997.75	1007506.75	16	mV	11/30/2006	16	1	3	Cultural Debris	11/2/2006	Nail	-	
Local Training Area	HS_483	739003.839	1007518.382	372	mV	10/2/2006	373	1	6	Cultural Debris	10/10/2006	Tail light part	-	
Local Training Area	HS_484	739005.75	1007531.75	234	mV	10/2/2006	235	1	9	Cultural Debris	10/10/2006	Reflector frame	Pass	KC
Local Training Area	HS_514	739502	1007463	41	mV	11/30/2006	41	1	3	Munitions Debris	11/6/2006	Small Arms, .50 cal head	-	
Local Training Area	HS_515	739502	1007472	17	mV	11/30/2006	17	1	3	Munitions Debris	11/6/2006	Small Arms, .50 cal head	-	

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS				QPOST-DIG QC		
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Local Training Area	HS_516	739486.25	1007459.5	19	mV	11/30/2006	18	1	6	Munitions Debris	11/6/2006	Small Arms, .50 cal head	-	
Local Training Area	HS_517	739474.173	1007488.556	35	mV	11/30/2006	36	1	4	Munitions Debris	11/6/2006	Small Arms, .50 cal head	-	
Local Training Area	HS_518	739487	1007494.5	28	mV	11/30/2006	28	1	13	Cultural Debris	11/6/2006	Nails	-	
Local Training Area	HS_528	739782.5	1007464.75	3172	mV	10/2/2006	3170	1	4	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_532	739819.5	1007491.75	411	mV	10/2/2006	410	1	18	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_545	739849.75	1007494.25	1726	mV	10/2/2006	1728	1	6	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_547	739835.25	1007481.75	175	mV	10/2/2006	174	1	6	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_557	739914	1007525.75	1628	mV	10/2/2006	1628	1	5	Cultural Debris	10/11/2006		Pass	KC
Local Training Area	HS_562	739909.226	1007486.648	101	mV	10/2/2006	100	1	0	Cultural Debris	10/11/2006	5" scrap metal	-	
Local Training Area	HS_566	739982.779	1007461.25	254	mV	10/2/2006	253	1	3	Cultural Debris	10/11/2006	Lug wrench	-	
Local Training Area	HS_646	740416.25	1007522.5	35	mV	11/30/2006	34	1	6	Cultural Debris	11/6/2006	Spike	-	
Grenade Range	GRA1-4	736967.75	1007472	18	Mv	7/21/2006	21	0	0	Cultural Debris	7/25/2006	Same as #5	Pass	KC
Grenade Range	GRA1-8	736947.88	1007415.47	19	Mv	7/21/2006	19	0	0	No Contact	7/25/2006		-	
Grenade Range	GRA3-1	736993	1007960.75	17	Mv	7/25/2006	17	0	0	No Contact	7/27/2006		-	
Grenade Range	GRA3-3	736959.75	1007977.75	19	Mv	7/25/2006	20	0	0	No Contact	7/27/2006		-	
Grenade Range	GRA4-4	736957.75	1008003.25	20	Mv	7/20/2006	18	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRA5-1	736997.25	1008479	20	Mv	7/31/2006	16	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-11	736939.5	1008398.25	19	Mv	7/31/2006	19	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-12	736963.5	1008370.25	26	Mv	7/31/2006	28	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-15	736984	1008364.75	17	Mv	7/31/2006	19	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-2	736988	1008493.5	17	Mv	7/31/2006	18	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-4	736964.75	1008491	23	Mv	7/31/2006	28	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-5	736955.75	1008489.25	18	Mv	7/31/2006	19	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-7	736951	1008451	26	Mv	7/31/2006	29	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA5-8	736949	1008414.75	27	Mv	7/31/2006	39	0	0	No Contact	8/1/2006		-	
Grenade Range	GRA6-3	736949.5	1008644.5	23	Mv	7/17/2006	16	0	0	No Contact	7/19/2006		Pass	KC
Grenade Range	GRA7-10	736940.75	1008884.75	16	Mv	7/21/2006	23	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRA7-11	736937.25	1008863	17	Mv	7/21/2006	23	0	0	No Contact	7/24/2006	No contact within two feet of flag.	Pass	KC
Grenade Range	GRA7-3	736929.25	1008770.25	18	Mv	7/21/2006	19	0	0	Cultural Debris	7/24/2006	Trash, Same as #4	-	
Grenade Range	GRA7-5	736931.75	1008769.5	23	Mv	7/21/2006	23	0	4	Cultural Debris	7/24/2006	Trash, Same as #4	Pass	KC
Grenade Range	GRA7-7	736975.75	1008835.25	20	Mv	7/21/2006	21	0	0	No Contact	7/24/2006	No contact within two feet of flag.	Pass	KC
Grenade Range	GRA7-8	736988.25	1008850.25	18	Mv	7/21/2006	32	0	0	No Contact	7/24/2006	No contact within two feet of flag.	Pass	KC
Grenade Range	GRA7-9	736957.25	1008844	38	Mv	7/21/2006	27	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRA-7A-1	736919.5	1008853.6	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	M-73 sub cal, motor. found inside polygon A-7	-	
Grenade Range	GRA-7B-1	736917.4	1008857.5	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Nail. found inside polygon A-7	-	
Grenade Range	GRA-7C-1	736922.1	1008861.9	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Hinge found inside polygon A-7	-	
Grenade Range	GRA-7D-1	736927.1	1008856.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Scrap metal. close to flag A-7B-1.	-	
Grenade Range	GRB1-4	737173.5	1007499.5	33	Mv	7/21/2006	33	0	0	No Contact	7/25/2006		Pass	KC
Grenade Range	GRB1-5	737054	1007497	18	Mv	7/21/2006	8	0	0	No Contact	7/25/2006		Pass	KC
Grenade Range	GRB1-6	737006.5	1007432.25	21	Mv	7/21/2006	22	0	0	No Contact	7/25/2006		Pass	KC
Grenade Range	GRB2-02	737213.25	1007700	20	Mv	7/25/2006	37	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-03	737189	1007744.25	18	Mv	7/25/2006	22	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-04	737163.25	1007721.5	20	Mv	7/25/2006	19	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-05	737160.5	1007700	18	Mv	7/25/2006	22	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-06	737160.75	1007690.25	24	Mv	7/25/2006	22	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-07	737161	1007683.25	30	Mv	7/25/2006	32	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-08	737161	1007677.75	18	Mv	7/25/2006	12	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-09	737164	1007678.75	29	Mv	7/25/2006	23	0	0	No Contact	8/1/2006		-	
Grenade Range	GRB2-10	737184.25	1007679.5	19	Mv	7/25/2006	23	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-11	737171.5	1007674	18	Mv	7/25/2006	25	0	0	No Contact	8/1/2006		-	
Grenade Range	GRB2-12	737164	1007670.25	31	Mv	7/25/2006	29	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-16	737110.25	1007582.5	24	Mv	7/25/2006	23	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-22	737043.75	1007530	34	Mv	7/25/2006	32	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-25	737046	1007517.75	23	Mv	7/25/2006	23	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-27	737070.25	1007512.25	18	Mv	7/25/2006	8	0	0	Cultural Debris	8/1/2006	Scrap metal	-	

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		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB2-35	737085.25	1007566.25	21	Mv	7/25/2006	22	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-36	737123.75	1007552.25	24	Mv	7/25/2006	26	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-37	737123.25	1007548	34	Mv	7/25/2006	35	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-38	737113.8	1007540.23	1	Mv	7/25/2006	16	0	0	No Contact	8/1/2006		-	
Grenade Range	GRB2-39	737109	1007529.75	16	Mv	7/25/2006	23	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-42	737142.75	1007547.25	20	Mv	7/25/2006	21	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-43	737171	1007532.25	16	Mv	7/25/2006	16	0	0	No Contact	8/1/2006		-	
Grenade Range	GRB2-47	737170.5	1007505.25	34	Mv	7/25/2006	33	0	0	No Contact	8/1/2006		-	
Grenade Range	GRB2-48	737171.25	1007504.25	20	Mv	7/25/2006	21	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-49	737172.5	1007501.5	22	Mv	7/25/2006	22	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRB2-52	737181.75	1007568	21	Mv	7/21/2006	20	0	20	Cultural Debris	8/1/2006	Concrete pad	-	
Grenade Range	GRB2-53	737187.75	1007571.5	25	Mv	7/25/2006	23	0	24	Cultural Debris	8/1/2006	Concrete pad	-	
Grenade Range	GRB3-105	737194.25	1007898.25	17	Mv	7/26/2006	14	0	0	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-12	737143.5	1007756.25	38	Mv	7/26/2006	29	0	0	No Contact	7/27/2006		Pass	KC
Grenade Range	GRB3-13	737124.5	1007773.5	22	Mv	7/26/2006	41	0	0	Hot Soil	7/27/2006	Hot Rock	-	
Grenade Range	GRB3-17	737123	1007752	18	Mv	7/26/2006	18	0	0	No Contact	7/27/2006		-	
Grenade Range	GRB3-18	737109	1007752	20	Mv	7/26/2006	21	0	0	No Contact	7/27/2006		-	
Grenade Range	GRB3-19	737082	1007757.5	22	Mv	7/25/2006	51	0	0	No Contact	7/27/2006		Pass	KC
Grenade Range	GRB3-24	737056.25	1007777.75	35	Mv	7/26/2006	37	0	0	Cultural Debris	7/27/2006	Trash, Same as #25	-	
Grenade Range	GRB3-27	737030.5	1007878	16	Mv	7/26/2006	25	0	0	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-29	737080.5	1007914.25	58	Mv	7/26/2006	63	0	10	Cultural Debris	7/27/2006	40mm head and Seed item. B3-0029 and B3-0030 are the same item.	Pass	KC
Grenade Range	GRB3-36	737098.75	1007969.5	22	Mv	7/26/2006	23	0	0	No Contact	7/27/2006		Pass	KC
Grenade Range	GRB3-37	737105.5	1007977.25	18	Mv	7/26/2006	39	0	0	No Contact	7/27/2006		Pass	KC
Grenade Range	GRB3-38	737112.25	1007998	23	Mv	7/26/2006	21	0	1	Cultural Debris	7/27/2006	Soda can	Pass	KC
Grenade Range	GRB3-42	737120.75	1007975	38	Mv	7/26/2006	36	0	0	No Contact	7/27/2006		Pass	KC
Grenade Range	GRB3-45	737112	1007946.25	17	Mv	7/26/2006	16	0	0	No Contact	7/27/2006		-	
Grenade Range	GRB3-53	737141.75	1007940	30	Mv	7/26/2006	86	0	15	Munitions Debris	7/27/2006	Same as #54	Pass	KC
Grenade Range	GRB3-61	737146	1007966.75	16	Mv	7/26/2006	17	0	0	No Contact	7/27/2006		Pass	KC
Grenade Range	GRB3-62	737149.25	1007966.5	18	Mv	7/26/2006	24	0	0	Munitions Debris	7/27/2006	Same as #64	-	
Grenade Range	GRB3-63	737149	1007968.5	25	Mv	7/26/2006	32	0	0	Munitions Debris	7/27/2006	Same as #64	-	
Grenade Range	GRB3-72	737216.5	1007954	115	Mv	7/26/2006	123	0	20	Munitions Debris	7/27/2006	Same as #73	-	
Grenade Range	GRB3-79	737239.25	1007902.5	20	Mv	7/26/2006	23	0	0	No Contact	7/27/2006		-	
Grenade Range	GRB3-80	737240.5	1007901.75	28	Mv	7/26/2006	23	0	0	Munitions Debris	7/27/2006	40mm head	-	
Grenade Range	GRB3-9	737114.75	1007817.25	18	Mv	7/26/2006	36	0	0	Cultural Debris	7/27/2006	Trash, Same as #8	-	
Grenade Range	GRB3-91	737235.5	1007760	28	Mv	7/26/2006	32	0	0	Munitions Debris	7/27/2006	Same as #90	-	
Grenade Range	GRB3-98	737161	1007856.25	18	Mv	7/26/2006	21	0	0	Cultural Debris	7/27/2006	Trash, Same as #97	-	
Grenade Range	GRB-3A-2	737166	1007765.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/28/2006	Several pieces of wire thru out polygon B-3-2	-	
Grenade Range	GRB-3G-1	737093.6	1007764.8	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	pieces of wire found inside polygon B-3-1	-	
Grenade Range	GRB-3H-1	737099.9	1007771.8	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Nails found inside polygon B-3-1	-	
Grenade Range	GRB-3I-1	737105.5	1007766.9	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/27/2006	Small animal trap found in polygon B-3-1	-	
Grenade Range	GRB4-18	737128.75	1008070.75	30	Mv	7/20/2006	19	0	0	No Contact	7/24/2006		-	
Grenade Range	GRB4-20	737150.75	1008050.25	18	Mv	7/20/2006	20	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRB4-21	737153.25	1008045.75	17	Mv	7/20/2006	25	0	0	No Contact	7/24/2006		-	
Grenade Range	GRB4-22	737145.25	1008039.25	19	Mv	7/20/2006	25	0	0	No Contact	7/24/2006		-	
Grenade Range	GRB4-28	737074.75	1008074	17	Mv	7/20/2006	20	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRB4-29	737103.25	1008091.75	18	Mv	7/20/2006	17	0	0	No Contact	7/24/2006		-	
Grenade Range	GRB4-32	737098.75	1008109.75	29	Mv	7/20/2006	20	0	0	No Contact	7/24/2006		-	
Grenade Range	GRB4-39	737119.25	1008200	23	Mv	7/20/2006	35	0	0	No Contact	7/24/2006		-	
Grenade Range	GRB5-102	737142.5	1008313.25	75	Mv	7/27/2006	98	0	0	No Contact	8/1/2006		-	
Grenade Range	GRB5-117	737106.75	1008270.75	18	Mv	7/26/2006	23	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-119	737100	1008289	56	Mv	7/26/2006	69	0	0	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRB5-124	737034.75	1008367.75	16	Mv	7/26/2006	15	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-127	737035	1008419	36	Mv	7/26/2006	21	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-13	737108.75	1008467.25	32	Mv	7/26/2006	36	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-133	737041.5	1008469.5	203	Mv	7/26/2006	213	0	0	No Contact	7/31/2006		Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB5-134	737053	1008465.25	17	Mv	7/26/2006	29	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-139	737087.18	1008458.86	89	Mv	7/26/2006	90	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRB5-147	737101.14	1008479.81	39	Mv	7/26/2006	74	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-149	737099	1008484.25	25	Mv	7/26/2006	25	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-15	737107.25	1008459.25	45	Mv	7/26/2006	54	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-150	737105.25	1008487	63	Mv	7/26/2006	96	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-153	737107.75	1008492.5	28	Mv	7/26/2006	28	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-155	737116.75	1008495.75	98	Mv	7/26/2006	146	0	0	Munitions Debris	8/1/2006	Same as #156	-	
Grenade Range	GRB5-157	737133	1008491.75	62	Mv	7/27/2006	130	0	12	Munitions Debris	8/1/2006	Same as #4	-	
Grenade Range	GRB5-19	737109.75	1008442	67	Mv	7/26/2006	116	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-2	737143.5	1008484	43	Mv	7/27/2006	100	0	12	Munitions Debris	8/1/2006	Same as #1	-	
Grenade Range	GRB5-20	737115.75	1008438.75	26	Mv	7/26/2006	70	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-27	737141.75	1008462.25	52	Mv	7/27/2006	130	0	0	Munitions Debris	8/1/2006	Same as #26	-	
Grenade Range	GRB5-34	737169.59	1008496.92	30	Mv	7/27/2006	70	0	12	Munitions Debris	8/1/2006	Same as #33	Pass	KC
Grenade Range	GRB5-41	737197.75	1008450	22	Mv	7/27/2006	120	0	14	Munitions Debris	8/1/2006	Same as #40	-	
Grenade Range	GRB5-44	737214.5	1008433.25	72	Mv	7/27/2006	155	0	10	Munitions Debris	8/1/2006	Same ad #45	-	
Grenade Range	GRB5-61	737114.25	1008424.25	23	Mv	7/26/2006	35	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-63	737112	1008421.75	55	Mv	7/26/2006	64	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-66	737095.75	1008428.25	185	Mv	7/27/2006	180	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-68	737093.5	1008438.5	88	Mv	7/26/2006	88	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-73	737097.75	1008410.75	51	Mv	7/26/2006	52	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-81	737128	1008355.75	51	Mv	7/26/2006	78	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-84	737100.5	1008363	18	Mv	7/26/2006	22	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRB5-88	737077.25	1008379.75	84	Mv	7/26/2006	137	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-9	737122.5	1008471.75	40	Mv	7/26/2006	32	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-92	737074.25	1008358.75	23	Mv	7/26/2006	23	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRB5-94	737096.25	1008337.5	29	Mv	7/26/2006	52	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB5-97	737099	1008327.5	20	Mv	7/26/2006	73	0	0	No Contact	7/31/2006		-	
Grenade Range	GRB-5A-2	737151.9	1008292.5	1	Mv	7/12/2006	1	0	0	MPPEH	7/26/2006	40 M-73 sub cal found in polygon B-7-2	-	
Grenade Range	GRB-5A-3	737166.9	1008294.9	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	two M-73 sub cal, motor. found inside polygon B-5-3	-	
Grenade Range	GRB-5B-2	737150.4	1008302.5	1	Mv	7/12/2006	1	0	0	MPPEH	7/26/2006	15 M-73 sub cal, motor found in polygon B-7-2	-	
Grenade Range	GRB6-100	737095.3	1008672.32	40	Mv	7/18/2006	140	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-100 and B6-101 are same item	Pass	KC
Grenade Range	GRB6-105	737070.75	1008677	19	Mv	7/18/2006	25	0	0	No Contact	7/19/2006		-	
Grenade Range	GRB6-108	737056.25	1008685.75	131	Mv	7/18/2006	230	0	0	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-108 and B6-109 are same item	-	
Grenade Range	GRB6-112	737059.5	1008694.25	28	Mv	7/18/2006	125	0	0	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-112 and B6-111 are same item	Pass	KC
Grenade Range	GRB6-117	737049	1008717.25	48	Mv	7/18/2006	100	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-117 and B6-116 are same item	-	
Grenade Range	GRB6-119	737060.25	1008712.75	68	Mv	7/18/2006	120	0	0	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-119 and B6-118 are same item	-	
Grenade Range	GRB6-121	737067	1008716.25	36	Mv	7/18/2006	85	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-121 and B6-122 are same item	-	
Grenade Range	GRB6-130	737069.5	1008732.25	20	Mv	7/18/2006	155	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-130 and B6-129 are same item	-	
Grenade Range	GRB6-136	737084.85	1008718.44	36	Mv	7/18/2006	125	0	0	MPPEH	7/19/2006	M-73 sub cal. Anomalies B6-136 and B6-137 are same item	-	
Grenade Range	GRB6-143	737091.75	1008706.25	44	Mv	7/18/2006	77	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-142 and B6-143 are same item	-	
Grenade Range	GRB6-15	737067.25	1008548	51	Mv	7/17/2006	60	0	0	Cultural Debris	7/20/2006	Wire pieces from old fence. B6-0014 and B6-0015 are the same item	-	
Grenade Range	GRB6-151	737133	1008697.5	53	Mv	7/18/2006	130	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-150 and B6-151 are same item	Pass	KC
Grenade Range	GRB6-153	737131.5	1008687.5	87	Mv	7/18/2006	100	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-153 and B6-152 are same item	-	
Grenade Range	GRB6-155	737146.5	1008688	209	Mv	7/18/2006	200	0	0	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-154 and B6-155 are same item	-	
Grenade Range	GRB6-156	737175.75	1008712.5	62	Mv	7/18/2006	175	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-156 and B6-157 are same item	-	
Grenade Range	GRB6-167	737190.75	1008584	54	Mv	7/18/2006	190	0	0	No Contact	7/20/2006	M-73 sub cal motor. B6-0168 and B6-0167 are the same item	Pass	KC
Grenade Range	GRB6-17	737072.32	1008550.29	48	Mv	7/17/2006	75	0	0	Cultural Debris	7/20/2006	B6-016 and B6-017 are the same item. Wire pieces from old fence	-	
Grenade Range	GRB6-170	737176	1008580.5	74	Mv	7/18/2006	95	0	0	MPPEH	7/20/2006	M-73 sub cal motor. B6-0169 and B6-0170 are the same item.	-	
Grenade Range	GRB6-173	737164.04	1008564.83	55	Mv	7/18/2006	150	0	0	MPPEH	7/20/2006	M-73 sub cal motor. B6-0173 and B6-0174 are the same item.	-	
Grenade Range	GRB6-181	737196.5	1008566	27	Mv	7/18/2006	25	0	0	No Contact	7/20/2006		-	
Grenade Range	GRB6-184	737223.75	1008557.75	36	Mv	7/18/2006	35	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-184 and B6-185 are same item	-	
Grenade Range	GRB6-186	737244.5	1008565.5	48	Mv	7/18/2006	180	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-186 and B6-187 are same item	-	
Grenade Range	GRB6-196	737177.5	1008532.5	199	Mv	7/18/2006	220	0	0	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-196 and B6-195 are same item	-	
Grenade Range	GRB6-199	737179.25	1008523.75	39	Mv	7/18/2006	145	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-199 and B6-200 are same item	-	

**APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity**

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRB6-2	737115.75	1008574.25	50	Mv	7/18/2006	130	0	0	Munitions Debris	7/20/2006	B6-0003 and B6-0002 are the same item.	-	
Grenade Range	GRB6-202	737177.73	1008519.71	62	Mv	7/18/2006	170	0	0	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-202 and B6-201 are same item	-	
Grenade Range	GRB6-203	737176.25	1008513.75	84	Mv	7/18/2006	100	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-203 and B6-204 are same item	-	
Grenade Range	GRB6-205	737169.5	1008521.25	17	Mv	7/18/2006	165	0	0	MPPEH	7/19/2006	M-73 sub cal motor. Anomalies B6-205 and B6-206 are same item	-	
Grenade Range	GRB6-210	737121.25	1008502.25	82	Mv	7/18/2006	80	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-210 and B6-209 are same item	-	
Grenade Range	GRB6-212	737104.75	1008501.5	64	Mv	7/18/2006	90	0	0	No Contact	7/19/2006	Anomalies B6-212 is associated w M-73 sub cal, both flags marked the item	-	
Grenade Range	GRB6-216	737105.75	1008510.5	90	Mv	7/18/2006	135	0	5	Cultural Debris	7/19/2006	Anomalies B6-215 is associated w M-73 sub cal, both flags marked the item	-	
Grenade Range	GRB6-218	737107.06	1008517.41	63	Mv	7/18/2006	80	0	0	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-218 and B6-219 are same item	-	
Grenade Range	GRB6-232	737114.25	1008559.25	84	Mv	7/18/2006	200	0	0	MPPEH	7/20/2006	M-73 sub cal motor. B6-0234 and B6-0232 are the same item.	-	
Grenade Range	GRB6-241	737113.25	1008579.75	45	Mv	7/18/2006	125	0	0	No Contact	7/20/2006	M-73 sub cal motor. B6-0001 and B6-0241 are the same item. Also found scrap meta	Pass	KC
Grenade Range	GRB6-27	737009	1008673.25	16	Mv	7/18/2006	65	0	0	Cultural Debris	7/19/2006	Trash, Anomalies B6-27 and B6-26 are same item	-	
Grenade Range	GRB6-37	737050	1008617.75	72	Mv	7/18/2006	140	0	0	No Contact	7/20/2006	M-73 sub cal motor. B6-0037 and B6-0036 are the same item.	-	
Grenade Range	GRB6-38	737044	1008612	38	Mv	7/18/2006	40	0	0	Cultural Debris	7/20/2006	Seed item, B6-0038 and B6-0039 are the same item.	-	
Grenade Range	GRB6-46	737105.75	1008598	41	Mv	7/18/2006	80	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRB6-48	737114.25	1008607.25	17	Mv	7/18/2006	25	0	0	Cultural Debris	7/20/2006	Trash, B6-0048 and B6-0047 are the same item.	Pass	KC
Grenade Range	GRB6-5	737102.75	1008559.75	53	Mv	7/18/2006	125	0	0	MPPEH	7/20/2006	M-73 sub cal motor. B6-0005 and B6-0006 are the same item.	Pass	KC
Grenade Range	GRB6-55	737125.75	1008597.75	109	Mv	7/18/2006	150	0	0	No Contact	7/20/2006	M-73 sub cal motor. B6-0054 and B6-0055 are the same item.	Pass	KC
Grenade Range	GRB6-64	737075.5	1008650.25	31	Mv	7/18/2006	55	0	0	No Contact	7/20/2006		Pass	KC
Grenade Range	GRB6-65	737078	1008649	61	Mv	7/18/2006	90	0	0	Cultural Debris	7/20/2006	Trash, B6-0065 and B6-0062 are the same item.	-	
Grenade Range	GRB6-69	737126.75	1008652.25	118	Mv	7/18/2006	118	0	0	Munitions Debris	7/20/2006	This contact was removed during a prior dig, has been checked by QC and the flag for that contact has been removed by QC (a M73)	Pass	KC
Grenade Range	GRB6-70	737128.5	1008642.25	66	Mv	7/18/2006	80	0	0	MPPEH	7/20/2006	M-73 sub cal motor. B6-0071 and B6-0070 are the same item.	-	
Grenade Range	GRB6-78	737186	1008648	185	Mv	7/18/2006	125	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-78 and B6-77 are same item	-	
Grenade Range	GRB6-8	737094.5	1008558.5	98	Mv	7/18/2006	95	0	0	MPPEH	7/20/2006	M-73 sub cal motor. B6-0009 and B6-0008 are the same item.	-	
Grenade Range	GRB6-81	737184.25	1008664.25	149	Mv	7/18/2006	225	0	0	No Contact	7/19/2006	M-73 sub cal motor. Anomalies B6-81 and B6-80 are same item	-	
Grenade Range	GRB6-83	737167.5	1008664	80	Mv	7/18/2006	110	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-83 and B6-82 are same item	-	
Grenade Range	GRB6-86	737164.5	1008654.25	43	Mv	7/18/2006	190	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-86 and B6-85 are same item	Pass	KC
Grenade Range	GRB6-96	737113.5	1008674.25	140	Mv	7/18/2006	145	0	0	No Contact	7/19/2006	M-73 sub cal. Anomalies B6-96 and B6-97 are same item	Pass	KC
Grenade Range	GRB-6A-2	737093.1	1008532.2	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Steel handle found inside polygon B-6-2 btw flags A, B, H, & I	-	
Grenade Range	GRB-6A-3A	737078.7	1008566.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	28" x 13" large piece of alum panel found between A & F flags	-	
Grenade Range	GRB-6A-3B	737078.7	1008566.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Several pieces of exhaust manifold found between A & F flags	-	
Grenade Range	GRB-6A-3C	737078.7	1008566.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Starter solinoid found between A & F flags	-	
Grenade Range	GRB-6A-3D	737078.7	1008566.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Starter housing rear plate found between A & F flags	-	
Grenade Range	GRB-6A-3E	737078.7	1008566.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Light fixture pieces found between A & F flags	-	
Grenade Range	GRB-6A-3F	737078.7	1008566.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Metal screws found between A & F flags	-	
Grenade Range	GRB-6B-1	737108	1008526.5	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	M-73 sub cal found between B & E flags	-	
Grenade Range	GRB-6B-2	737087.9	1008539.2	1	Mv	10/16/2006	1	0	0	Munitions Debris	7/20/2006	Two 40mm heads found inside polygon B-6-2 btw flags A, B, H, & I	-	
Grenade Range	GRB-6B-3A	737081.3	1008584.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Starter housing found between B & G flags	-	
Grenade Range	GRB-6B-3B	737081.3	1008584.4	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	14x M-73 sub cal found between B & G flags	-	
Grenade Range	GRB-6B-3C	737081.3	1008584.4	1	Mv	10/16/2006	1	0	0	Munitions Debris	7/20/2006	four 40mm heads found between B & G flags	-	
Grenade Range	GRB-6B-3D	737081.3	1008584.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Steel washer found between B & G flags	-	
Grenade Range	GRB-6B-3E	737081.3	1008584.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	6" long piece of wire found between B & E flags	-	
Grenade Range	GRB-6B-3F	737081.3	1008584.4	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Steel bracket found between B & E flags	-	
Grenade Range	GRB-6C-1	737117.7	1008530.3	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	two M-73 sub cal found between C & D flags	-	
Grenade Range	GRB-6C-2	737081.4	1008539.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Old fence line running thru polygon from H to B, and C & D	-	
Grenade Range	GRB-6D-2	737082	1008544.3	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Wire pieces found throughout the entire polygon.	-	
Grenade Range	GRB-6D-3A	737092.5	1008600.7	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	M-73 sub cal found between D & E flags	-	
Grenade Range	GRB-6D-3B	737092.5	1008600.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Armature of a starter found between D & E flags	-	
Grenade Range	GRB-6D-3C	737092.5	1008600.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Scrap metal found between D & E flags	-	
Grenade Range	GRB-6E-1	737113.1	1008519.7	1	Mv	10/16/2006	1	0	0	Munitions Debris	7/20/2006	40mm head found between B & E flags	-	
Grenade Range	GRB-6G-3A	737104.6	1008565	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	Seven M-73 sub cal found between H & G flags	-	
Grenade Range	GRB-6G-3B	737104.6	1008565	1	Mv	10/16/2006	1	0	0	Munitions Debris	7/20/2006	three 40mm heads found between H & G flags	-	
Grenade Range	GRB-6G-3C	737104.6	1008565	1	Mv	10/16/2006	1	0	0	Cultural Debris	7/20/2006	Wire found between H & G flags	-	
Grenade Range	GRB-6I-2	737102.1	1008531.6	1	Mv	10/16/2006	1	0	0	MPPEH	7/20/2006	12 M-73 sub cal found between B & H, I & A flags	-	

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	Initials	
Grenade Range	GRB7-11	737116.75	1008751.25	36	Mv	7/21/2006	122	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRB7-12	737083.5	1008755.25	62	Mv	7/21/2006	72	0	0	Munitions Debris	7/24/2006	Same as #13	Pass	KC
Grenade Range	GRB7-19	737057.39	1008776.43	63	Mv	7/21/2006	63	0	0	MPPEH	7/24/2006	M-73 sub cal	Pass	KC
Grenade Range	GRB7-21	737036.25	1008777.5	22	Mv	7/21/2006	65	0	20	MPPEH	7/24/2006	M-73 sub cal, Anomalies B7-20 and B7-21 are same item	Pass	KC
Grenade Range	GRB7-24	737023.5	1008820.25	44	Mv	7/21/2006	58	0	10	Cultural Debris	7/24/2006	Trash, Same as #23	Pass	KC
Grenade Range	GRB7-28	737048.25	1008856	23	Mv	7/21/2006	36	0	0	Munitions Debris	7/24/2006	Same as #27	Pass	KC
Grenade Range	GRB7-31	737069.75	1008886.25	105	Mv	7/21/2006	142	0	0	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRB-7A-2	737112	1008768	1	Mv	10/16/2006	1	0	0	Munitions Debris	8/4/2006	40mm head found inside polygon B-7-2	-	
Grenade Range	GRB-7B-2	737128.6	1008769.6	1	Mv	10/16/2006	1	0	0	MPPEH	8/4/2006	M-73 sub cal, motor found inside polygon B-7-2	-	
Grenade Range	GRC1-2	737287.75	1007491.75	22	Mv	7/21/2006	28	0	0	No Contact	7/25/2006		Pass	KC
Grenade Range	GRC1-3	737286.25	1007494	17	Mv	7/21/2006	18	0	0	No Contact	7/25/2006		Pass	KC
Grenade Range	GRC2-10	737288.75	1007744.5	18	Mv	7/25/2006	13	0	0	No Contact	8/23/2006		-	
Grenade Range	GRC2-11	737282	1007737	26	Mv	7/25/2006	12	0	0	No Contact	8/23/2006		-	
Grenade Range	GRC2-13	737323.25	1007671.5	17	Mv	7/25/2006	19	0	0	No Contact	8/23/2006		-	
Grenade Range	GRC2-17	737394.5	1007588.75	26	Mv	7/25/2006	25	0	0	No Contact	8/23/2006		-	
Grenade Range	GRC2-24	737283.5	1007571.5	25	Mv	7/25/2006	12	0	0	No Contact	8/23/2006		Pass	KC
Grenade Range	GRC2-25	737284	1007591.25	16	Mv	7/25/2006	16	0	0	Munitions Debris	8/23/2006	40mm head	-	
Grenade Range	GRC2-26	737272.75	1007617	21	Mv	7/25/2006	12	0	0	No Contact	8/23/2006		-	
Grenade Range	GRC2-27	737251	1007583.25	17	Mv	7/25/2006	21	0	0	No Contact	8/23/2006		-	
Grenade Range	GRC2-29	737255	1007507.25	18	Mv	7/25/2006	23	0	0	No Contact	8/23/2006		Pass	KC
Grenade Range	GRC2-30	737256.75	1007504.25	21	Mv	7/25/2006	22	0	0	No Contact	8/23/2006		Pass	KC
Grenade Range	GRC2-31	737281	1007504.5	35	Mv	7/25/2006	36	0	0	No Contact	8/23/2006		-	
Grenade Range	GRC2-35	737294.5	1007524	42	Mv	7/21/2006	4000	0	0	Cultural Debris	8/23/2006	Legs of observation tower, bolts	-	
Grenade Range	GRC2-38	737317	1007528.75	38	Mv	7/25/2006	41	0	0	Cultural Debris	8/23/2006	Nail pit, numerous nails. Anomalies C2-38 & C2-39 are the same items.	Pass	KC
Grenade Range	GRC2-39	737319.75	1007529.25	16	Mv	7/25/2006	17	0	0	Cultural Debris	8/23/2006	Nail pit, numerous nails. Anomalies C2-38 & C2-39 are the same items.	Pass	KC
Grenade Range	GRC2-41	737326.75	1007534	18	Mv	7/25/2006	21	0	0	Cultural Debris	8/23/2006	Nail pit	-	
Grenade Range	GRC2-45	737335	1007524.5	40	Mv	7/25/2006	40	0	0	Cultural Debris	8/23/2006	Nail pit	Pass	KC
Grenade Range	GRC2-46	737332.5	1007525.25	23	Mv	7/25/2006	27	0	0	Cultural Debris	8/23/2006	Nail pit	Pass	KC
Grenade Range	GRC2-47	737335.25	1007522	63	Mv	7/25/2006	63	0	0	Cultural Debris	8/23/2006	Nail pit	Pass	KC
Grenade Range	GRC2-48	737330	1007516.25	17	Mv	7/25/2006	18	0	0	Cultural Debris	8/23/2006	Nail pit	Pass	KC
Grenade Range	GRC2-49	737336.5	1007519.75	38	Mv	7/25/2006	52	0	0	Cultural Debris	8/23/2006	Nail pit	Pass	KC
Grenade Range	GRC2-50	737383	1007503.25	19	Mv	7/25/2006	13	0	0	No Contact	8/23/2006		Pass	KC
Grenade Range	GRC2-51	737433.75	1007516.25	18	Mv	7/25/2006	18	0	0	No Contact	8/23/2006		Pass	KC
Grenade Range	GRC2-56	737464.75	1007549.5	22	Mv	7/25/2006	22	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRC2-57	737452	1007556.25	26	Mv	7/25/2006	13	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRC-2A-1	737328.8	1007524.8	1	Mv	7/12/2006	1	0	0	Cultural Debris	7/26/2006	Nails found in polygon C-2-1	-	
Grenade Range	GRC3-101	737343.5	1007998.5	354	Mv	7/26/2006	300	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRC3-11	737306.25	1007767	32	Mv	7/26/2006	60	0	0	Munitions Debris	7/31/2006	Same as #10	-	
Grenade Range	GRC3-12	737259.5	1007771.5	45	Mv	7/26/2006	88	0	0	Cultural Debris	7/31/2006	Trash, Same wire as #13	-	
Grenade Range	GRC3-120	737395.75	1007900	21	Mv	7/26/2006	22	0	0	No Contact	7/31/2006		Pass	KC
Grenade Range	GRC3-122	737427.75	1007879.5	35	Mv	7/25/2006	72	0	12	No Contact	7/31/2006	Seed item, C3-0121 and C3-0122 are the same item.	-	
Grenade Range	GRC3-126	737499	1007844.25	45	Mv	7/26/2006	76	0	8	Cultural Debris	7/31/2006	Trash, Same as 127	-	
Grenade Range	GRC3-134	737413.5	1007774	47	Mv	7/26/2006	60	0	0	Cultural Debris	7/31/2006	Trash, Same as #135	-	
Grenade Range	GRC3-17	737272	1007835.5	48	Mv	7/25/2006	95	0	12	Munitions Debris	7/31/2006	Same as #16	-	
Grenade Range	GRC3-19	737252.75	1007834	26	Mv	7/26/2006	24	0	0	Cultural Debris	7/31/2006	Trash, Same as #18	-	
Grenade Range	GRC3-35	737293.75	1007892.25	44	Mv	7/20/2006	55	0	10	Cultural Debris	7/31/2006	Trash, Same as #36	-	
Grenade Range	GRC3-98	737340	1007995.25	27	Mv	7/26/2006	300	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRC4-1	737354	1008191.25	34	Mv	7/20/2006	115	0	0	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRC4-101	737295.75	1008060.75	17	Mv	7/20/2006	38	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRC4-134	737377.27	1008168.63	90	Mv	7/20/2006	175	0	0	Munitions Debris	7/24/2006	40mm empty round	Pass	KC
Grenade Range	GRC4-135	737365.75	1008169.75	20	Mv	7/20/2006	45	0	0	Munitions Debris	7/24/2006	Small Arms, three 5.56 casings	-	
Grenade Range	GRC4-2	737351.25	1008191	79	Mv	7/20/2006	120	0	0	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRC4-20	737280.5	1008191.75	18	Mv	7/20/2006	18	0	0	No Contact	7/24/2006		-	
Grenade Range	GRC4-4	737342.75	1008177.75	147	Mv	7/20/2006	240	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRC4-52	737486.75	1008193.75	22	Mv	7/21/2006	20	0	0	No Contact	7/25/2006		Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS				QPOST-DIG QC		
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC4-6	737333.25	1008187.25	26	Mv	7/20/2006	56	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRC4-81	737351.5	1008033.5	54	Mv	7/21/2006	175	0	0	No Contact	7/25/2006		-	
Grenade Range	GRC-4C-1B	737354.9	1008173.5	1	Mv	10/16/2006	1	0	0	Munitions Debris	8/4/2006	Small Arms, two 5.56mm blanks found inside polygon C-4-1	-	
Grenade Range	GRC-4D-1	737359.8	1008161.6	1	Mv	10/16/2006	1	0	0	Munitions Debris	8/4/2006	Small Arms, three 5.56mm blank found inside polygon C-4-1	-	
Grenade Range	GRC-4E-1A	737355.4	1008158.5	1	Mv	10/16/2006	1	0	0	MPPEH	8/4/2006	two M-73 sub cal empty found inside polygon C-4-1	-	
Grenade Range	GRC-4E-1B	737355.4	1008158.5	1	Mv	10/16/2006	1	0	0	Munitions Debris	8/4/2006	40mm head found inside polygon C-4-1	-	
Grenade Range	GRC5-129	737428.25	1008272.75	16	Mv	8/1/2006	15	0	0	No Contact	8/1/2006		Pass	KC
Grenade Range	GRC5-131	737472.75	1008275.75	20	Mv	8/1/2006	23	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-133	737454.5	1008305.75	24	Mv	8/1/2006	33	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-134	737439.75	1008312.5	20	Mv	8/1/2006	20	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-136	737424.5	1008324.75	16	Mv	8/1/2006	15	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-138	737425.25	1008346.25	23	Mv	8/1/2006	21	0	0	No Contact	8/2/2006		Pass	KC
Grenade Range	GRC5-143	737495	1008406.75	18	Mv	8/1/2006	15	0	0	No Contact	8/2/2006		-	
Grenade Range	GRC5-158	737491.5	1008476.25	28	Mv	8/1/2006	32	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-159	737467.25	1008484	28	Mv	8/1/2006	25	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-16	737271.75	1008488.25	43	Mv	7/27/2006	36	0	0	Munitions Debris	8/1/2006	Same as #17	-	
Grenade Range	GRC5-164	737451.5	1008488.5	136	Mv	8/1/2006	155	0	12	Munitions Debris	8/1/2006	Same as #163	-	
Grenade Range	GRC5-165	737441.5	1008487.25	16	Mv	8/1/2006	16	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-169	737399.75	1008484.5	24	Mv	8/1/2006	21	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-170	737398.75	1008483	24	Mv	8/1/2006	21	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-172	737400	1008474.25	26	Mv	8/1/2006	21	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-176	737394.25	1008450.75	18	Mv	8/1/2006	21	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-177	737384.25	1008459	16	Mv	8/1/2006	17	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRC5-18	737268.75	1008488	32	Mv	7/27/2006	52	0	0	Munitions Debris	8/1/2006	Same as #17	-	
Grenade Range	GRC5-185	737376.25	1008445.25	93	Mv	8/1/2006	109	0	0	Munitions Debris	8/1/2006	Same as #184	-	
Grenade Range	GRC5-186	737388.25	1008437.25	20	Mv	8/1/2006	16	0	0	No Contact	8/1/2006		-	
Grenade Range	GRC5-188	737373.25	1008410.5	25	Mv	8/1/2006	32	0	0	No Contact	8/2/2006		-	
Grenade Range	GRC5-194	737345.25	1008379	44	Mv	8/1/2006	55	0	20	Munitions Debris	8/2/2006	40mm head	-	
Grenade Range	GRC5-195	737343	1008378.5	42	Mv	7/27/2006	56	0	12	Munitions Debris	8/2/2006	Same as #194	-	
Grenade Range	GRC5-201	737324	1008398.25	21	Mv	7/27/2006	111	0	0	Munitions Debris	8/2/2006	Same as #200	Pass	KC
Grenade Range	GRC5-203	737341.75	1008398.75	16	Mv	8/1/2006	15	0	0	Cultural Debris	8/1/2006	Scrap metal	-	
Grenade Range	GRC5-205	737344.5	1008406.75	98	Mv	7/27/2006	123	0	8	Cultural Debris	8/2/2006	Wrench same as #204	Pass	KC
Grenade Range	GRC5-26	737266.5	1008426.25	18	Mv	7/27/2006	55	0	0	Munitions Debris	8/2/2006	Same as #25	Pass	KC
Grenade Range	GRC5-36	737307.25	1008393.5	78	Mv	7/27/2006	77	0	0	Munitions Debris	8/2/2006	Same as #351	-	
Grenade Range	GRC5-41	737300.25	1008377.5	135	Mv	7/27/2006	136	0	10	Munitions Debris	8/2/2006	Same as #40	-	
Grenade Range	GRC5-5	737318	1008434.75	39	Mv	7/27/2006	75	0	0	Cultural Debris	8/1/2006	Trash, Same as #6	-	
Grenade Range	GRC5-72	737299	1008303.5	156	Mv	7/27/2006	163	0	0	No Contact	8/2/2006		-	
Grenade Range	GRC5-85	737337.5	1008285.25	76	Mv	7/27/2006	75	0	0	No Contact	8/2/2006		Pass	KC
Grenade Range	GRC5-86	737334.75	1008284.25	107	Mv	7/27/2006	108	0	0	No Contact	8/2/2006		-	
Grenade Range	GRC5-91	737328	1008276	54	Mv	7/27/2006	55	0	0	No Contact	8/2/2006		Pass	KC
Grenade Range	GRC6-03	737433.25	1008574.75	29	Mv	7/17/2006	29	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-08	737426.75	1008567.75	56	Mv	7/17/2006	58	0	0	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRC6-103	737339.75	1008589	49	Mv	7/17/2006	55	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-108	737348	1008574.25	64	Mv	7/17/2006	65	0	0	No Contact	7/20/2006		Pass	KC
Grenade Range	GRC6-112	737363.5	1008551.25	26	Mv	7/17/2006	42	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-114	737371.75	1008548.25	18	Mv	7/17/2006	24	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-117	737375.75	1008554.75	23	Mv	7/17/2006	23	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-119	737393.25	1008575	18	Mv	7/17/2006	23	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-122	737379.25	1008581.25	62	Mv	7/17/2006	74	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-129	737387.5	1008698.75	20	Mv	7/17/2006	16	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-133	737360.5	1008686	18	Mv	7/17/2006	18	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-137	737301.75	1008706	53	Mv	7/17/2006	86	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-143	737294	1008740.25	25	Mv	7/17/2006	165	0	0	No Contact	7/20/2006		Pass	KC
Grenade Range	GRC6-147	737303.75	1008735	166	Mv	7/17/2006	171	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-15	737385	1008548.5	84	Mv	7/17/2006	127	0	0	No Contact	7/19/2006		-	

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Seneca Army Depot Activity

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		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRC6-157	737474.25	1008713	20	Mv	7/17/2006	21	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-174	737461.5	1008600.5	17	Mv	7/17/2006	19	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-177	737443	1008582.75	39	Mv	7/17/2006	41	0	0	Cultural Debris	8/1/2006	Scrap metal	Pass	KC
Grenade Range	GRC6-194	737436.25	1008555.5	44	Mv	7/17/2006	52	0	0	No Contact	7/19/2006		Pass	KC
Grenade Range	GRC6-20	737381.5	1008502.5	24	Mv	7/17/2006	21	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-32	737353.5	1008539.75	44	Mv	7/17/2006	45	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-47	737324.75	1008551	26	Mv	7/17/2006	44	0	0	No Contact	7/19/2006		Pass	KC
Grenade Range	GRC6-53	737311	1008550.5	39	Mv	7/17/2006	63	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-58	737253.01	1008500.34	32	Mv	7/17/2006	32	0	0	No Contact	7/19/2006		Pass	KC
Grenade Range	GRC6-61	737277.5	1008539	210	Mv	7/17/2006	222	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-65	737269	1008553	21	Mv	7/17/2006	39	0	0	No Contact	7/19/2006		Pass	KC
Grenade Range	GRC6-66	737271	1008554.25	27	Mv	7/17/2006	32	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-72	737298.5	1008561.75	17	Mv	7/17/2006	16	0	0	No Contact	7/19/2006		Pass	KC
Grenade Range	GRC6-74	737293	1008562	71	Mv	7/17/2006	74	0	0	No Contact	7/19/2006		-	
Grenade Range	GRC6-75	737293.75	1008564	50	Mv	7/17/2006	50	0	0	No Contact	7/19/2006		Pass	KC
Grenade Range	GRC6-77	737294.75	1008584.5	84	Mv	7/17/2006	108	0	0	No Contact	7/20/2006		Pass	KC
Grenade Range	GRC6-82	737267.5	1008624.5	81	Mv	7/17/2006	112	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC6-85	737250.88	1008625.81	36	Mv	7/17/2006	36	0	0	No Contact	7/20/2006		-	
Grenade Range	GRC-6A-2	737303.5	1008538.6	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/24/2006	Polygon C6-2, piece found near flag C-6A-2, 1" x 2" pc scrap metal.	-	
Grenade Range	GRC-6C-2	737308.8	1008551.3	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	Pieces of wire found inside polygon C-6-2	-	
Grenade Range	GRC-6E-2	737315.8	1008541.2	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	Pieces of wire found inside polygon C-6-2	-	
Grenade Range	GRC-6F-2	737310.3	1008537.1	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/24/2006	Polygon C6-2, piece found near flag C-6F-2, 15" pc wire.	-	
Grenade Range	GRC-6H-1A	737269.6	1008540.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	scrap metal 6" x 3" found inside polygon C-6-1	-	
Grenade Range	GRC-6H-1B	737269.6	1008540.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	5" long piece of wire found inside polygon C-6-1	-	
Grenade Range	GRC-6H-1C	737269.6	1008540.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	3" long piece of wire found inside polygon C-6-1	-	
Grenade Range	GRC-6H-1D	737269.6	1008540.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	1" long piece of wire found inside polygon C-6-1	-	
Grenade Range	GRC-6H-1E	737269.6	1008540.7	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	Scrap metal 3" x 2" found inside polygon C-6-1	-	
Grenade Range	GRC7-16	737345.5	1008913.25	16	Mv	7/21/2006	22	0	0	No Contact	7/24/2006	No contact	Pass	KC
Grenade Range	GRC7-23	737470.5	1008851.75	19	Mv	7/21/2006	20	0	0	Cultural Debris	7/24/2006	Trash, Same as #24	Pass	KC
Grenade Range	GRC7-4	737332.75	1008790.25	327	Mv	7/21/2006	357	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRC-7A-1	737265	1008773.5	1	Mv	10/16/2006	1	0	0	Munitions Debris	8/4/2006	40mm head found inside polygon C-7-1	-	
Grenade Range	GRC-7A-2	737416.1	1008785.1	1	Mv	10/16/2006	1	0	0	MPPEH	8/4/2006	Three M-73 sub cal, motor found inside polygon C-7-2	-	
Grenade Range	GRC-7B-1	737262.6	1008802.6	1	Mv	10/16/2006	1	0	0	MPPEH	8/4/2006	two M-73 sub cal, motor found inside polygon C-7-1	-	
Grenade Range	GRC-7B-2	737425.2	1008821.6	1	Mv	10/16/2006	1	0	0	Munitions Debris	8/4/2006	Three 40mm heads found inside polygon C-7-2	-	
Grenade Range	GRC-7C-1	737271.7	1008816.9	1	Mv	7/12/2006	1	0	0	Cultural Debris	8/8/2006	Trash found in polygon C-7-1	-	
Grenade Range	GRC-7C-2	737452.6	1008823.2	1	Mv	7/12/2006	1	0	0	Munitions Debris	8/8/2006	40mm head found in polygon C-7-2	-	
Grenade Range	GRC-7D-2	737463.3	1008796.7	1	Mv	7/18/2007	1	0	0	Cultural Debris	8/8/2006	Trash found in polygon C-7-2	-	
Grenade Range	GRD1-2	737535	1007495.25	17	Mv	7/21/2006	22	0	0	Cultural Debris	7/25/2006	Trash	-	
Grenade Range	GRD3-13	737531.75	1007979	17	Mv	7/21/2006	25	0	0	Cultural Debris	7/24/2006	Trash, Same as #12	Pass	KC
Grenade Range	GRD3-15	737516	1007986.75	20	Mv	7/21/2006	20	0	0	Cultural Debris	7/24/2006	Trash, Same as #14	-	
Grenade Range	GRD-3A-1	737594.2	1007771	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	Mower guard with chains welded to it. 2' x 8" Found inside polygon D-3-1	-	
Grenade Range	GRD4-18	737513	1008174.75	17	Mv	7/21/2006	17	0	0	No Contact	7/25/2006		Pass	KC
Grenade Range	GRD4-21	737518	1008190.5	17	Mv	7/21/2006	20	0	0	No Contact	7/25/2006		Pass	KC
Grenade Range	GRD5-13	737566	1008350	17	Mv	7/21/2006	16	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD5-14	737562.5	1008363	22	Mv	7/21/2006	10	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD5-19	737568.25	1008444	18	Mv	7/21/2006	19	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD5-2	737520	1008267.5	28	Mv	7/21/2006	16	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD5-25	737506.5	1008357	20	Mv	7/21/2006	21	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD6-1	737561.75	1008692.75	23	Mv	7/31/2006	23	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD6-18	737500.55	1008636.71	80	Mv	7/31/2006	86	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD6-19	737509	1008673	21	Mv	7/31/2006	23	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD6-20	737505.75	1008701.25	21	Mv	7/31/2006	21	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD6-21	737505	1008712.75	17	Mv	7/31/2006	18	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD6-3	737555.5	1008671	22	Mv	7/31/2006	23	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD6-4	737550.5	1008642	25	Mv	7/31/2006	25	0	0	No Contact	7/24/2006		Pass	KC

APPENDIX C
SEAD 007-R-01 (Grenade Range) All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code	QC Initials
Grenade Range	GRD6-6	737578.25	1008610.75	17	Mv	7/31/2006	15	0	0	No Contact	7/24/2006		-	
Grenade Range	GRD6-7	737565	1008583.5	23	Mv	7/31/2006	25	0	0	No Contact	7/24/2006		Pass	KC
Grenade Range	GRD-6F-1	737612.7	1008547.2	1	Mv	10/16/2006	1	0	0	Cultural Debris	8/4/2006	polygon D-6-1 has wire from west to east thru out. Cannot clear, should consider scrapping. exposed wire in four places thru polygon.	-	
Grenade Range	GRGAP_013	737326.75	1007990	278	mV	10/3/2006	277	0	8	Cultural Debris	10/12/2006	Nail	Pass	KC
Grenade Range	GRGAP_014	737333.5	1007989.5	19	mV	10/3/2006	20	0	12	Cultural Debris	10/12/2006	Nail	Pass	KC
Grenade Range	GRGAP_023	737444.25	1008090	32	mV	10/3/2006	36	0	14	Munitions Debris	10/12/2006	40 mm base	Pass	KC
Grenade Range	GRGAP_036	737446.75	1008796.75	22	mV	10/3/2006	23	0	0	No Contact	10/10/2006		-	
Local Training Area	HS_005	738342.25	1007135.75	160	mV	10/2/2006	160	0	0	No Contact	10/10/2006		Pass	KC
Local Training Area	HS_010	738431.896	1007168.555	41123	mV	10/2/2006	5000	0	2	Cultural Debris	10/10/2006	Barb wire	Pass	KC
Local Training Area	HS_016	738503.5	1007237.75	71	mV	11/30/2006	72	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_017	738506.5	1007223	18	mV	11/30/2006	17	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_020	738783.25	1007196.25	16	mV	11/30/2006	16	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_021	738789.5	1007197.5	23	mV	11/30/2006	23	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_025	738882.799	1007186.74	39	mV	11/30/2006	39	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_027	739416.704	1007246.811	30	mV	11/30/2006	31	0	0	No Contact	11/2/2006		Pass	KC
Local Training Area	HS_142	738929	1007267.75	16	mV	11/30/2006	16	0	18	Cultural Debris	11/2/2006	Wire	-	
Local Training Area	HS_146	738811.5	1007258.25	37	mV	11/30/2006	37	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_149	738523.5	1007286.5	27	mV	11/30/2006	27	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_324	739945.75	1007567.75	29	mV	11/30/2006	29	0	8	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_355	739508.25	1007545.25	79	mV	11/30/2006	80	0	0	No Contact	11/6/2006		-	
Local Training Area	HS_363	739425.75	1007564.25	21	mV	11/30/2006	21	0	0	No Contact	11/6/2006		-	
Local Training Area	HS_364	739415.719	1007565.701	34	mV	11/30/2006	35	0	0	No Contact	11/6/2006		-	
Local Training Area	HS_379	738950.75	1007543.5	47	mV	11/30/2006	46	0	4	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_471	738820.5	1007489.75	19	mV	11/30/2006	18	0	0	No Contact	11/2/2006		-	
Local Training Area	HS_559	739940.56	1007530.681	39	mV	11/30/2006	39	0	6	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_563	739911.25	1007458.5	61	mV	11/30/2006	61	0	3	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_564	739919.286	1007464.714	37	mV	11/30/2006	36	0	6	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_565	739935.777	1007465.208	45	mV	11/30/2006	45	0	20	Cultural Debris	11/6/2006	Scrap metal	-	
Local Training Area	HS_569	740000.75	1007463	230	mV	10/2/2006	233	0	2	Cultural Debris	10/11/2006	Wire and large bolt on surface	Pass	KC
Local Training Area	HS_603	740526.61	1007524.212	183	mV	10/2/2006	186	0	8	Cultural Debris	10/11/2006	Scrap metal	-	
Local Training Area	HS_638	740420.5	1007570.5	90	mV	11/30/2006	90	0	6	Cultural Debris	11/6/2006	Wire	-	
Local Training Area	HS_639	740424.214	1007564.727	40	mV	11/30/2006	39	0	8	Cultural Debris	11/6/2006	Wire	-	

Note: QC Code (-) indicates the Anomaly was not QC'ed, (Pass) indicates the Anomaly was QC'ed and was acceptable.

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46A18-0009	748953	1007557.25	889	Mv	8/16/2006	444	24	48	Cultural Debris	8/22/2006	Same as #14	Pass	KC
46A18-0011	748949	1007559.5	587	Mv	8/16/2006	631	24	36	Cultural Debris	8/22/2006	same ad #14	Pass	KC
46A18-0033	748947	1007548	148	Mv	8/16/2006	80	24	24	Hot Soil	8/22/2006	Large hot rock	Pass	KC
46C18-0014	749147.5	1007566.75	111	Mv	8/21/2006	50	24	18	Cultural Debris	8/22/2006	Fence post	-	
46E16-0029	749442.25	1007359.5	93	Mv	8/21/2006	45	24	6	Cultural Debris	8/22/2006	Trash	Pass	KC
46A18-0018	748980	1007573.5	349	Mv	8/16/2006	168	22	36	Cultural Debris	8/22/2006	Same as #19	Pass	KC
46A18-0019	748978	1007570.75	343	Mv	8/16/2006	235	22	8	Cultural Debris	8/22/2006	Steel bar	-	
46A18-0030	748975.75	1007573	154	Mv	8/16/2006	76	22	18	Cultural Debris	8/22/2006	Same as #19	-	
46E16-0036	749453.5	1007363.25	57	Mv	8/21/2006	25	22	5	Cultural Debris	8/22/2006	Trash	-	
46A16-0038	748896.5	1007470.5	226	Mv	8/16/2006	132	18	5	Munitions Debris	8/23/2006	Numerous pieces of small frag and brass pieces, dug down to water. Could not clear, will take mechanical digging	-	
46E08-0023	749434.25	1006462	234	Mv	8/21/2006	115	18	12	Munitions Debris	8/29/2006	Small Arms, piece of 50 cal . cart. and part of a 75mm proj. [base] 2 digs	Pass	KC
46K06-0070	750105.75	1006239.75	67	Mv	8/10/2006	39	18	15	Cultural Debris	8/29/2006		-	
46E16-0033	749449.5265	1007346.355	66	Mv	8/21/2006	33	15	5	Cultural Debris	8/22/2006	Trash	Pass	KC
46K04-0020	750224.5	1005847	420	Mv	8/15/2006	220	15	48	Cultural Debris	8/31/2006	Trash	-	
46K06-0017	750157	1006172.75	207	Mv	8/10/2006	158	15	5	Munitions Debris	8/29/2006	slap flare	Pass	KC
46K06-0039	750200.75	1006071.5	107	Mv	8/10/2006	63	15	2	Munitions Debris	8/29/2006	M-17 smoke round	Pass	KC
46C18-0016	749035.5	1007591.25	100	Mv	8/21/2006	50	14	1	Cultural Debris	8/22/2006	Trash	Pass	KC
46E10-0008	749389.5	1006574.25	310	Mv	8/21/2006	164	14	5	Munitions Debris	8/28/2006	Fuze PT/TF 1907	Pass	KC
46K04-0033	750129.25	1005816.75	250	Mv	8/15/2006	157	14	5	Munitions Debris	9/5/2006	candle cart.	Pass	KC
46K06-0013	750174	1006026	260	Mv	8/10/2006	130	14	3	Cultural Debris	8/29/2006		Pass	KC
46K08-0015	750038	1006384.75	69	Mv	8/9/2006	22	14	7	Cultural Debris	8/29/2006	Seed Item	-	
46G06-0071	749656.25	1006127	136	Mv	8/10/2006	86	13	24	Munitions Debris	8/30/2006	Flare piece	-	
46A16-0034	748892	1007477.25	258	Mv	8/16/2006	362	12	4	Cultural Debris	8/24/2006	Trash	-	
46A16-0039	748971.25	1007379.5	218	Mv	8/16/2006	216	12	12	Cultural Debris	8/23/2006	Pliers	-	
46C16-0003	749035.04	1007384.56	508	Mv	8/21/2006	261	12	24	Cultural Debris	9/6/2006	Scrap metal, several pieces	-	
46C18-0005	749175	1007540.5	425	Mv	8/21/2006	210	12	8	Cultural Debris	8/23/2006	Trash	Pass	KC
46G08-0035	749595.75	1006338	82	Mv	8/16/2006	41	12	30	Cultural Debris	8/29/2006	Trash, Same as #47 and #54	Pass	KC
46G08-0047	749592.5	1006337.75	63	Mv	8/16/2006	39	12	24	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0054	749593.25	1006340.75	59	Mv	8/16/2006	39	12	18	Cultural Debris	8/29/2006	Trash, Same as #47	Pass	KC
46I04-0066	749949.5	1005898.25	54	Mv	8/15/2006	29	12	20	Munitions Debris	9/5/2006	Slap flare	-	
46K02-0025	750086.75	1005640.5	186	Mv	8/14/2006	136	12	10	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K04-0029	750031.75	1005985	294	Mv	8/15/2006	263	12	8	Munitions Debris	9/5/2006	slap flare	Pass	KC
46K04-0045	750118	1005865.25	195	Mv	8/15/2006	126	12	10	Munitions Debris	9/5/2006	M-62 smoke pieces	-	
46K04-0106	750141.75	1005781	83	Mv	8/15/2006	74	12	8	Cultural Debris	9/5/2006		-	
46K04-0158	750139.75	1005933.25	61	Mv	8/15/2006	36	12	20	Cultural Debris	9/5/2006		-	
46K06-0014	750097	1006085	236	Mv	8/10/2006	132	12	4	Munitions Debris	8/29/2006	slap flare	Pass	KC
46K06-0022	750163.5	1006071	177	Mv	8/10/2006	96	12	15	Munitions Debris	8/29/2006	slap flare	-	
46K06-0034	750179	1006011.75	138	Mv	8/10/2006	85	12	7	Cultural Debris	8/29/2006		Pass	KC
46K06-0049	750182.75	1006038.25	86	Mv	8/10/2006	42	12	3	Cultural Debris	8/29/2006		Pass	KC
46K06-0065	750153	1006090.75	71	Mv	8/10/2006	56	12	4	Cultural Debris	8/29/2006		Pass	KC
46K06-0072	750166	1006081.75	66	Mv	8/10/2006	33	12	10	Munitions Debris	8/29/2006	2.36" rkt scrap pieces	Pass	KC
46K06-0076	750170.25	1006033.5	62	Mv	8/10/2006	64	12	5	Cultural Debris	8/29/2006		-	
46K06-0077	750037.5	1006048	61	Mv	8/10/2006	61	12	3	Cultural Debris	8/29/2006		Pass	KC
46K06-0080	750058.75	1006079.25	59	Mv	8/10/2006	23	12	18	Cultural Debris	8/29/2006		Pass	KC
46K06-0087	750133.5	1006067.25	56	Mv	8/10/2006	28	12	18	Cultural Debris	8/29/2006		-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46K06-0089	750118	1006144.25	55	Mv	8/10/2006	44	12	24	Cultural Debris	8/29/2006		-	
46K06-0092	750191.75	1006074.5	54	Mv	8/10/2006	56	12	4	Cultural Debris	8/29/2006		Pass	KC
46K06-0101	750170	1006027	50	Mv	8/10/2006	54	12	5	Cultural Debris	8/29/2006		-	
46K08-0017	750140	1006266.75	66	Mv	8/17/2006	36	12	4	Cultural Debris	8/29/2006		-	
46M06-0018	750267.75	1006104.75	33	Mv	9/13/2006	33	12	12	Cultural Debris	9/28/2006		-	
46G06-0059	749586.5	1006078	190	Mv	8/14/2006	19	11	24	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0066	749704.25	1006102.25	161	Mv	8/10/2006	93	11	20	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46K04-0083	750136.5	1005964.5	99	Mv	8/15/2006	88	11	9	Munitions Debris	8/31/2006	M-65 smoke pieces	-	
46K04-0090	750187.25	1005823.75	97	Mv	8/15/2006	45	11	5	Cultural Debris	8/31/2006	Trash	-	
46M04-0023	750304.5	1005878.75	393	Mv	8/14/2006	165	11	5	Cultural Debris	8/30/2006	Seed Item	Pass	KC
46E08-0025	749459	1006396.25	222	Mv	8/21/2006	110	10	6	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E10-0018	749399.25	1006678	90	Mv	8/21/2006	52	10	24	Cultural Debris	8/28/2006	Trash	Pass	KC
46E10-0023	749397.25	1006680.75	59	Mv	8/9/2006	41	10	24	Cultural Debris	8/28/2006	Trash, Same as #18	Pass	KC
46E14-0016	749476	1007071.25	365	Mv	8/21/2006	96	10	12	Cultural Debris	8/24/2006	Piece of 4in angle iron	Pass	KC
46G06-0065	749621	1006136.25	169	Mv	8/14/2006	122	10	9	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0068	749617.75	1006143.25	147	Mv	8/10/2006	125	10	13	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0072	749644.25	1006204.25	126	Mv	8/10/2006	99	10	8	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0082	749599.25	1006055.5	78	Mv	8/14/2006	45	10	20	Cultural Debris	8/30/2006	Horse shoe piece	-	
46I04-0030	749761.75	1005922.25	98	Mv	8/15/2006	47	10	14	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0103	749955.5	1005896.5	39	Mv	9/13/2006	39	10	8	Munitions Debris	9/28/2006	Flare piece	-	
46I06-0049	749857.5	1006243.75	62	Mv	8/10/2006	79	10	4	Munitions Debris	8/30/2006	Flare /smoke piece	-	
46K02-0020	750069	1005709.5	267	Mv	8/14/2006	189	10	30	Munitions Debris	9/5/2006	Flare candle holder	Pass	KC
46K04-0002	750134.75	1005942	2778	Mv	8/15/2006	1965	10	8	MPPEH	9/5/2006	75mm projectile shrap	-	
46K04-0051	750150.5	1005762	164	Mv	8/15/2006	85	10	5	Cultural Debris	9/5/2006		-	
46K04-0054	750138	1005842.5	161	Mv	8/15/2006	98	10	5	Cultural Debris	9/5/2006		Pass	KC
46K04-0080	750140.5	1005929	106	Mv	8/15/2006	95	10	10	Cultural Debris	9/5/2006		-	
46K04-0084	750147	1005765.5	99	Mv	8/15/2006	83	10	2	Cultural Debris	9/5/2006		-	
46K04-0172	750004	1005850	56	Mv	8/15/2006	29	10	4	Cultural Debris	9/5/2006		-	
46K06-0008	750144.25	1006118.75	330	Mv	8/10/2006	169	10	3	Munitions Debris	8/29/2006	slap flare	Pass	KC
46K06-0027	750120.75	1006146.75	163	Mv	8/10/2006	143	10	8	Cultural Debris	8/29/2006		Pass	KC
46K06-0029	750164.5	1006053.75	160	Mv	8/10/2006	90	10	15	Munitions Debris	8/29/2006	slap flare	-	
46K06-0038	750107	1006025.5	114	Mv	8/10/2006	100	10	7	Cultural Debris	8/29/2006		-	
46K06-0044	750174	1006052.75	91	Mv	8/10/2006	36	10	4	Cultural Debris	8/29/2006		-	
46K06-0052	750056	1006043	85	Mv	8/10/2006	44	10	4	Cultural Debris	8/29/2006		-	
46K06-0054	750136.5	1006083.5	83	Mv	8/10/2006	45	10	5	Cultural Debris	8/29/2006		Pass	KC
46K06-0066	750126.5	1006095.25	70	Mv	8/10/2006	93	10	12	Cultural Debris	8/29/2006		Pass	KC
46K06-0086	750133.5	1006043.25	56	Mv	8/10/2006	29	10	9	Cultural Debris	8/29/2006		-	
46K06-0091	750217.5	1006123.5	55	Mv	8/10/2006	51	10	4	Cultural Debris	8/29/2006		Pass	KC
46K08-0016	750159	1006448.5	67	Mv	8/9/2006	35	10	4	Cultural Debris	8/29/2006		-	
46K08-0049	750121.5	1006258.75	33	Mv	9/13/2006	33	10	16	Cultural Debris	9/28/2006		-	
46M02-0018	750259.5	1005633.25	81	Mv	8/14/2006	65	10	24	Cultural Debris	9/6/2006		-	
46M02-0030	750339.25	1005749.25	51	Mv	8/14/2006	57	10	4	Cultural Debris	9/6/2006		-	
46C08-0009	749242.25	1006439.5	14	Mv	9/13/2006	14	9	6	Cultural Debris	9/25/2006	Scrap metal	Pass	KC
46C10-0003	749219.1772	1006617.99	83	Mv	8/16/2006	65	9	4	Cultural Debris	8/28/2006	Trash	-	
46E08-0012	749467.5	1006355	388	Mv	8/21/2006	186	9	2	Munitions Debris	8/29/2006	Flare piece	-	
46E10-0019	749324.5	1006659.25	78	Mv	8/21/2006	36	9	24	Cultural Debris	8/28/2006	Trash, Same as #27	Pass	KC
46E12-0003	749462.25	1006931.5	556	Mv	8/21/2006	230	9	3	Cultural Debris	8/24/2006	Seed item #13	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46E16-0032	749436	1007368.5	67	Mv	8/21/2006	32	9	5	Cultural Debris	8/22/2006	Trash	Pass	KC
46E18-0007	749466.75	1007593.25	54	Mv	8/21/2006	25	9	5	Cultural Debris	8/22/2006	Trash	-	
46G06-0040	749611	1006146.75	306	Mv	8/10/2006	13	9	20	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0050	749575.5	1006181.25	258	Mv	8/10/2006	252	9	20	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0061	749637	1006158.25	180	Mv	8/10/2006	205	9	12	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G08-0013	749577.25	1006331.25	387	Mv	8/16/2006	153	9	18	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46I04-0008	749973.75	1005944.25	337	Mv	8/15/2006	203	9	8	Cultural Debris	8/31/2006	Seed item #11, 46I04-0008 and 46I04-0032 are the same item.	Pass	KC
46I04-0028	749800.25	1005948.25	106	Mv	8/15/2006	57	9	10	Cultural Debris	8/31/2006	Scrap iron	-	
46I04-0032	749972.25	1005947.75	93	Mv	8/15/2006	140	9	20	No Contact	8/31/2006	Seed item #11, 46I04-0008 and 46I04-0032 are the same item.	-	
46I14-0021	749982.25	1007017.75	58	Mv	8/16/2006	32	9	5	Cultural Debris	8/24/2006		Pass	KC
46K02-0033	750157.5657	1005624.058	134	Mv	8/14/2006	136	9	18	Munitions Debris	9/5/2006	Same as #38	-	
46K02-0038	750155.2392	1005626.013	104	Mv	8/14/2006	104	9	18	Munitions Debris	9/5/2006	Flare candle holder	-	
46K06-0016	750163.75	1006021.5	218	Mv	8/10/2006	139	9	8	Cultural Debris	8/29/2006		-	
46K06-0075	750207.5	1006081.5	62	Mv	8/10/2006	32	9	8	Cultural Debris	8/29/2006		-	
46M02-0019	750291.3318	1005671.508	80	Mv	8/14/2006	69	9	12	Cultural Debris	9/6/2006		-	
46M04-0059	750361.5	1005897.5	90	Mv	8/14/2006	33	9	6	Cultural Debris	8/30/2006	Trash	Pass	KC
46A16-0013	748958	1007444.75	818	Mv	8/16/2006	444	8	3	MPPEH	8/23/2006	75mm projectile with mk 5 p/d fuze, empty	-	
46A16-0035	748997.75	1007346.25	258	Mv	8/16/2006	253	8	15	Munitions Debris	8/23/2006	Flare cartridge	Pass	KC
46A16-0053	748988.75	1007361.25	134	Mv	8/16/2006	153	8	18	Cultural Debris	8/23/2006	Barbed wire pieces	-	
46A16-0063	748988.25	1007364.75	104	Mv	8/16/2006	52	8	18	Cultural Debris	8/23/2006	Trash, Same as #53	Pass	KC
46A16-0073	748940.2707	1007351.691	77	Mv	8/16/2006	36	8	20	Cultural Debris	8/23/2006	Trash	-	
46C18-0027	749175.75	1007532	69	Mv	8/21/2006	33	8	24	Cultural Debris	8/23/2006	Trash	Pass	KC
46E08-0007	749280	1006334.5	442	Mv	8/21/2006	220	8	18	Cultural Debris	8/29/2006	Trash	-	
46E08-0011	749278.75	1006331	401	Mv	8/21/2006	200	8	24	Cultural Debris	8/29/2006	Trash, Same as #7	Pass	KC
46E08-0017	749401.75	1006464.25	319	Mv	8/21/2006	153	8	5	Munitions Debris	8/29/2006	Fuze	-	
46E08-0029	749422	1006431	175	Mv	8/21/2006	78	8	4	Munitions Debris	8/29/2006	Frag, 75mm	Pass	KC
46E10-0039	749318.75	1006699.75	38	Mv	9/13/2006	38	8	6	Munitions Debris	9/25/2006	2.36in fin parts	Pass	KC
46E10-0046	749311	1006536.75	34	Mv	9/13/2006	34	8	5	Munitions Debris	9/26/2006	37 mm Cartridge peice	Pass	KC
46E12-0007	749437	1006753.5	99	Mv	8/21/2006	52	8	5	Cultural Debris	8/24/2006	Cap crimpers	Pass	KC
46G04-0006	749622	1005988.25	149	Mv	8/15/2006	74	8	20	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0033	749575.25	1006204.25	350	Mv	8/10/2006	156	8	6	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0038	749662	1006161.25	319	Mv	8/10/2006	363	8	17	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0044	749709.25	1006180.25	288	Mv	8/10/2006	136	8	6	Munitions Debris	8/30/2006	Frag	-	
46G06-0046	749587.75	1006173.5	280	Mv	8/14/2006	153	8	11	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0051	749631	1006154.75	246	Mv	8/10/2006	156	8	6	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0054	749616	1006185	218	Mv	8/14/2006	200	8	4	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G08-0015	749587.75	1006431.5	358	Mv	8/16/2006	165	8	24	Cultural Debris	8/29/2006	Bolts and nails	Pass	KC
46G10-0006	749563.002	1006749.066	2576	Mv	8/21/2006	1736	8	5	Cultural Debris	8/28/2006	Wire	Pass	KC
46G14-0009	749533.875	1007105.375	319	Mv	8/16/2006	168	8	7	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0073	749597.5	1007144.75	72	Mv	8/17/2006	42	8	12	Cultural Debris	8/23/2006		-	
46G14-0245	749700	1007118.5	40	Mv	9/13/2006	40	8	12	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46I04-0007	749817	1005828	380	Mv	8/15/2006	174	8	20	Munitions Debris	8/31/2006	Flare piece	-	
46I04-0023	749968	1005760	159	Mv	8/15/2006	74	8	8	Munitions Debris	8/31/2006	Frag	-	
46I06-0041	749974.25	1006246	75	Mv	8/10/2006	63	8	8	Munitions Debris	8/30/2006	Frag	-	
46I06-0070	749760	1006199	51	Mv	8/10/2006	53	8	14	Munitions Debris	8/30/2006	Frag	-	
46I08-0034	749950	1006480	55	Mv	8/17/2006	29	8	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0038	749812.25	1006258	50	Mv	8/21/2006	26	8	10	Cultural Debris	8/28/2006		Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46I14-0027	749755.5	1007027.25	53	Mv	8/17/2006	26	8	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46K02-0019	750130.5	1005733	287	Mv	8/14/2006	236	8	13	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0021	750228.5	1005653	242	Mv	8/14/2006	213	8	6	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0022	750005	1005682.75	219	Mv	8/14/2006	213	8	15	Cultural Debris	9/5/2006		-	
46K04-0009	750164.0946	1005858.563	1202	Mv	8/15/2006	621	8	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0036	750195.75	1005808.25	239	Mv	8/15/2006	153	8	4	Munitions Debris	8/31/2006	M27	-	
46K04-0038	750182	1005990.5	231	Mv	8/15/2006	112	8	9	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0040	750034	1005950.75	224	Mv	8/15/2006	142	8	6	Munitions Debris	9/5/2006	slap flare	Pass	KC
46K04-0056	750064	1005786.5	156	Mv	8/15/2006	107	8	6	Cultural Debris	9/5/2006		-	
46K04-0105	750014.5	1005949.75	83	Mv	8/15/2006	47	8	14	Cultural Debris	9/5/2006		-	
46K04-0111	750194	1005753.5	81	Mv	8/15/2006	42	8	6	Munitions Debris	8/31/2006	M-65 smoke candle	-	
46K04-0127	750145.6712	1005768.663	74	Mv	8/15/2006	75	8	6	Cultural Debris	9/5/2006		-	
46K04-0134	750037.75	1005914.5	70	Mv	8/15/2006	49	8	24	Cultural Debris	9/5/2006		-	
46K04-0136	750107.25	1005805.25	69	Mv	8/15/2006	36	8	4	Cultural Debris	9/5/2006		Pass	KC
46K04-0150	750033.75	1005874.75	62	Mv	8/15/2006	31	8	24	Cultural Debris	9/5/2006		-	
46K04-0159	750136.75	1005924.5	61	Mv	8/15/2006	52	8	7	Cultural Debris	9/5/2006		-	
46K04-0176	750124.5	1005821.75	55	Mv	8/15/2006	51	8	10	Cultural Debris	9/5/2006		-	
46K04-0188	750127.5	1005943.75	51	Mv	8/15/2006	32	8	3	Cultural Debris	9/5/2006		-	
46K04-0191	750143	1005957.5	51	Mv	8/15/2006	26	8	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0193	750151.5	1005767.5	50	Mv	8/15/2006	45	8	10	Cultural Debris	9/5/2006		-	
46K06-0023	750168	1006037.75	176	Mv	8/10/2006	126	8	2	Cultural Debris	8/29/2006		-	
46K06-0024	750121	1006080.5	174	Mv	8/10/2006	63	8	6	Cultural Debris	8/29/2006		-	
46K06-0042	750028	1006037	97	Mv	8/10/2006	96	8	6	Cultural Debris	8/30/2006	Trash	Pass	KC
46K06-0043	750149.5	1006094.75	95	Mv	8/10/2006	83	8	4	Cultural Debris	8/29/2006		-	
46K06-0057	750119.75	1006113.25	78	Mv	8/10/2006	152	8	4	Cultural Debris	8/29/2006		-	
46K06-0078	750131	1006065.5	61	Mv	8/10/2006	33	8	12	Cultural Debris	8/29/2006		-	
46K06-0082	750133.25	1006158.75	58	Mv	8/10/2006	56	8	4	Cultural Debris	8/29/2006		Pass	KC
46K06-0095	750124.75	1006045.75	54	Mv	8/10/2006	22	8	12	Cultural Debris	8/29/2006		-	
46K08-0003	750166.75	1006258.75	284	Mv	8/17/2006	162	8	12	Munitions Debris	8/29/2006	M-17 smoke pieces	-	
46K08-0011	750116.5	1006382.75	76	Mv	8/9/2006	57	8	2	Cultural Debris	8/29/2006		-	
46K08-0020	750066	1006352	52	Mv	8/9/2006	32	8	8	Cultural Debris	8/29/2006		-	
46K10-0017	750081	1006635.75	41	Mv	9/13/2006	41	8	8	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46M02-0016	750278	1005648	107	Mv	8/14/2006	175	8	8	Cultural Debris	9/6/2006		-	
46M02-0025	750346.75	1005730	62	Mv	8/14/2006	32	8	14	Cultural Debris	9/6/2006		-	
46M02-0027	750344.25	1005744.25	60	Mv	8/14/2006	48	8	10	Cultural Debris	9/6/2006		Pass	KC
46M04-0038	750288	1005960.25	203	Mv	8/14/2006	86	8	3	Cultural Debris	8/30/2006	Trash	-	
46M04-0040	750390	1005869	195	Mv	8/14/2006	108	8	6	Munitions Debris	8/30/2006	Slapflare	-	
46M04-0053	750382	1005805.5	129	Mv	8/14/2006	72	8	6	Cultural Debris	8/30/2006	Trash	-	
46M04-0065	750308.5	1005997	80	Mv	8/14/2006	42	8	14	Cultural Debris	8/30/2006	Trash	-	
46M04-0116	750333.5	1005760.75	37	Mv	9/13/2006	37	8	6	Munitions Debris	9/28/2006	Frag	-	
46M06-0015	750295.75	1006026.25	40	Mv	9/13/2006	40	8	10	Cultural Debris	9/28/2006		-	
46M06-0108	750311.25	1006010.25	11	Mv	9/13/2006	11	8	12	Munitions Debris	9/28/2006	Frag	-	
46E08-0047	749342	1006492.75	49	Mv	9/13/2006	49	7	6	Cultural Debris	9/26/2006	Scrap metal	Pass	KC
46E10-0073	749307	1006500	25	Mv	9/13/2006	25	7	4	Cultural Debris	9/26/2006	Nail	Pass	KC
46E12-0005	749486.75	1006956.75	127	Mv	8/21/2006	111	7	12	Cultural Debris	8/24/2006	Nails	Pass	KC
46E12-0020	749497	1006833.5	70	Mv	8/21/2006	35	7	4	Cultural Debris	8/24/2006	Trash	Pass	KC
46E14-0008	749418.25	1007053.25	1424	Mv	8/21/2006	756	7	20	Cultural Debris	8/24/2006	Large bolt,washers,nut 3 large screws[phone pole type]	Pass	KC

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SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46E14-0020	749464	1007049.75	185	Mv	8/21/2006	96	7	6	Cultural Debris	8/24/2006	Trash	Pass	KC
46E20-0003	749412	1007759.75	56	Mv	8/21/2006	25	7	5	Cultural Debris	8/22/2006	Trash	-	
46G06-0053	749594.5	1006171.5	237	Mv	8/14/2006	157	7	12	Munitions Debris	8/30/2006	Flare piece Same as #77	Pass	KC
46G06-0060	749643.75	1006173	187	Mv	8/10/2006	123	7	24	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0067	749651.75	1006157.5	154	Mv	8/10/2006	163	7	4	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0069	749580	1006186.25	138	Mv	8/10/2006	152	7	36	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0077	749591.75	1006173.25	94	Mv	8/14/2006	111	7	24	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0628	749730.25	1006063.5	11	Mv	9/13/2006	11	7	12	Hot Soil	9/28/2006	Hot rock	-	
46G08-0026	749520.25	1006374.75	160	Mv	8/16/2006	80	7	20	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46G08-0062	749658	1006331	54	Mv	8/16/2006	28	7	12	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0069	749521.25	1006449.5	45	Mv	9/13/2006	45	7	6	Munitions Debris	9/26/2006	Flare piece	Pass	KC
46G10-0050	749623.25	1006507	74	Mv	8/21/2006	36	7	14	Cultural Debris	8/28/2006	Wrench	Pass	KC
46G10-0139	749750	1006688	26	Mv	9/13/2006	26	7	9	Cultural Debris	9/28/2006	Scrap metal	Pass	KC
46G10-0144	749510	1006532	25	Mv	9/13/2006	25	7	16	Munitions Debris	9/28/2006	Small Arms, .50 cal head	Pass	KC
46G14-0010	749563.75	1007140	309	Mv	8/17/2006	175	7	6	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0013	749572.75	1007157	288	Mv	8/17/2006	152	7	3	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0018	749589	1007105.5	244	Mv	8/16/2006	126	7	6	Munitions Debris	8/23/2006	M-17 smoke pieces	Pass	KC
46G14-0154	749632.75	1007066.25	51	Mv	8/16/2006	31	7	5	Cultural Debris	8/23/2006		Pass	KC
46G14-0156	749644.5	1007097.25	51	Mv	8/16/2006	26	7	12	Munitions Debris	8/23/2006	Small Arms, brass	Pass	KC
46G16-0044	749661	1007253.5	38	Mv	9/13/2006	38	7	8	Munitions Debris	9/25/2006	Small Arms, .50 cal pieces	-	
46I04-0010	749889.75	1005800.5	308	Mv	8/15/2006	154	7	9	Cultural Debris	8/31/2006		Pass	KC
46I04-0047	749892	1005873.75	65	Mv	8/15/2006	37	7	6	Munitions Debris	9/5/2006	Frag	-	
46I04-0049	749939.75	1005989	62	Mv	8/15/2006	33	7	14	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0006	749871.75	1006181	518	Mv	8/10/2006	236	7	20	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0015	749871	1006247.75	143	Mv	8/10/2006	161	7	19	Munitions Debris	8/30/2006	Flare /smoke piece	Pass	KC
46I06-0030	749828.25	1006110.25	95	Mv	8/10/2006	80	7	9	Munitions Debris	8/31/2006	Signal Flare /Smoke piece, 2 pieces/2 digs	Pass	KC
46I06-0046	749859.75	1006158.75	65	Mv	8/10/2006	44	7	18	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0059	749945.75	1006048	56	Mv	8/10/2006	57	7	6	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0172	749925.25	1006051.5	30	Mv	9/13/2006	30	7	5	Munitions Debris	9/28/2006	Flare piece	-	
46I14-0014	749888.75	1007214.75	88	Mv	8/16/2006	47	7	24	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46K02-0006	750043	1005614.5	2079	Mv	8/14/2006	2300	7	12	Cultural Debris	9/5/2006	Scrap metal	Pass	KC
46K02-0009	750045.5	1005618.5	1474	Mv	8/14/2006	1457	7	18	Cultural Debris	9/5/2006	Scrap metal	-	
46K02-0041	750068.75	1005654	99	Mv	8/14/2006	99	7	13	Cultural Debris	9/5/2006	Scrap metal	-	
46K02-0056	750082.25	1005710	55	Mv	8/14/2006	66	7	10	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0073	750150.25	1005732.5	41	Mv	9/13/2006	41	7	24	Munitions Debris	9/28/2006	Fare piece	-	
46K04-0148	750144.5	1005799	64	Mv	8/15/2006	64	7	10	Cultural Debris	9/5/2006		-	
46K06-0026	750206.75	1006166	165	Mv	8/10/2006	96	7	12	Munitions Debris	8/29/2006	M-17 smoke pieces	Pass	KC
46K06-0047	750179	1006065	89	Mv	8/10/2006	62	7	24	Cultural Debris	8/29/2006		Pass	KC
46K06-0059	750135.5	1006194.5	76	Mv	8/10/2006	45	7	4	Cultural Debris	8/29/2006		Pass	KC
46K06-0069	750157	1006112.5	67	Mv	8/10/2006	56	7	5	Cultural Debris	8/29/2006		-	
46K06-0085	750074.75	1006030	58	Mv	8/10/2006	36	7	10	Cultural Debris	8/29/2006		-	
46K06-0103	750120	1006098.5	50	Mv	8/10/2006	33	7	3	Cultural Debris	8/29/2006		Pass	KC
46K06-0340	750067	1006099.5	22	Mv	9/13/2006	22	7	20	Munitions Debris	9/28/2006	Flare piece	-	
46K06-0591	750005.5	1006098.75	15	Mv	9/13/2006	15	7	11	Munitions Debris	9/28/2006	Fare piece	-	
46M02-0006	750359.25	1005735	734	Mv	8/14/2006	369	7	10	Cultural Debris	9/6/2006	Fence post	-	
46M02-0009	750351.5	1005743.75	354	Mv	8/14/2006	299	7	12	Munitions Debris	9/6/2006	M-62 smoke pieces	Pass	KC
46M02-0023	750251	1005637.25	67	Mv	8/14/2006	36	7	4	Cultural Debris	9/6/2006	Trash	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46M02-0026	750304.5	1005725.75	61	Mv	8/14/2006	61	7	14	Cultural Debris	9/6/2006		-	
46M04-0088	750356.75	1005753.75	53	Mv	8/14/2006	23	7	4	Cultural Debris	8/30/2006	Trash	Pass	KC
46A16-0052	748875.3359	1007442.534	135	Mv	8/16/2006	56	6	24	Cultural Debris	8/22/2006	Nail	Pass	KC
46E08-0020	749445.5	1006381	304	Mv	8/21/2006	152	6	24	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0024	749429.7382	1006459.926	228	Mv	8/21/2006	112	6	5	Munitions Debris	8/29/2006	Frag 75mm	Pass	KC
46E08-0026	749276.25	1006348	198	Mv	8/21/2006	94	6	6	Munitions Debris	8/28/2006	Slap flare	Pass	KC
46E08-0031	749374.25	1006364.25	93	Mv	8/21/2006	25	6	24	Cultural Debris	8/29/2006	Seed item #12, 46E08-0031 and 46E08-0035 are the same item.	Pass	KC
46E08-0035	749370.75	1006363.5	81	Mv	8/21/2006	29	6	18	No Contact	8/29/2006	Seed item #12, 46E08-0031 and 46E08-0035 are the same item.	Pass	KC
46E08-0045	749412.75	1006489.75	53	Mv	8/21/2006	25	6	8	Cultural Debris	8/29/2006	Trash	Pass	KC
46E08-0046	749430	1006465.25	51	Mv	8/21/2006	24	6	8	Cultural Debris	8/29/2006	Trash	Pass	KC
46E10-0006	749494	1006588.25	406	Mv	8/21/2006	209	6	8	Cultural Debris	8/28/2006	Trash	Pass	KC
46E10-0017	749408	1006662	105	Mv	8/21/2006	61	6	5	Munitions Debris	8/28/2006	Small Arms, .50 cal piece	Pass	KC
46E10-0022	749414.5	1006605.25	67	Mv	8/21/2006	42	6	14	Cultural Debris	8/28/2006	Trash	Pass	KC
46E10-0024	749307.25	1006626.25	54	Mv	8/10/2006	173	6	6	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46E12-0006	749447	1006966.75	125	Mv	8/21/2006	60	6	15	Cultural Debris	8/24/2006	Trash	-	
46E12-0008	749455.25	1006978	92	Mv	8/21/2006	25	6	20	Cultural Debris	8/24/2006	Large bolt/washers/nut- 3 large screws [phone pole type]	Pass	KC
46E14-0053	749453.25	1007078.25	58	Mv	8/21/2006	68	6	8	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46E18-0003	749498.25	1007612.75	144	Mv	8/21/2006	95	6	4	Cultural Debris	8/22/2006	Trash	-	
46E18-0006	749378.6414	1007522.49	73	Mv	8/21/2006	61	6	5	Cultural Debris	8/22/2006	Seed Item	-	
46G06-0034	749609	1006184.5	333	Mv	8/14/2006	349	6	8	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0041	749593.25	1006168.5	301	Mv	8/14/2006	152	6	14	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0047	749552.5	1006150	271	Mv	8/10/2006	157	6	15	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0049	749620.25	1006177	261	Mv	8/14/2006	263	6	19	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0057	749562.5	1006178.75	201	Mv	8/10/2006	185	6	12	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0058	749566.5	1006096	201	Mv	8/14/2006	100	6	18	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0063	749639.5	1006171.25	173	Mv	8/10/2006	124	6	20	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0097	749668.5	1006241.25	54	Mv	8/10/2006	49	6	12	Cultural Debris	8/30/2006	Chain piece	Pass	KC
46G06-0105	749729.25	1006113	48	Mv	9/13/2006	48	6	13	Munitions Debris	9/28/2006	Flare piece	-	
46G08-0017	749588	1006427.5	337	Mv	8/16/2006	156	6	24	Cultural Debris	8/29/2006	Steel grating broken up	-	
46G08-0020	749588.5	1006423.75	229	Mv	8/16/2006	115	6	24	Cultural Debris	8/29/2006	Steel grating broken up	-	
46G08-0024	749592	1006432.25	174	Mv	8/16/2006	126	6	20	Cultural Debris	8/29/2006	Nails	Pass	KC
46G10-0004	749737.25	1006591.5	3348	Mv	8/21/2006	1423	6	12	MPPEH	8/28/2006	MK7A2 (USA) Training mine	Pass	KC
46G14-0016	749540.5	1007117	260	Mv	8/17/2006	135	6	9	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0029	749558.75	1007152	148	Mv	8/17/2006	69	6	4	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0033	749576.75	1007155.75	139	Mv	8/17/2006	73	6	4	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0062	749505.75	1007120.25	78	Mv	8/16/2006	51	6	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0074	749615.25	1007104.75	72	Mv	8/16/2006	38	6	7	Cultural Debris	8/23/2006		Pass	KC
46G14-0085	749594	1007206.5	68	Mv	8/17/2006	37	6	7	Cultural Debris	8/23/2006		Pass	KC
46G14-0092	749674.75	1007002.5	64	Mv	8/16/2006	31	6	15	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0096	749607.25	1007002.75	62	Mv	8/16/2006	35	6	11	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0097	749591	1007129.5	62	Mv	8/17/2006	34	6	3	Cultural Debris	8/23/2006		Pass	KC
46G14-0112	749600.5	1007150.25	59	Mv	8/17/2006	27	6	3	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0119	749500	1007105.75	58	Mv	8/16/2006	31	6	8	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0124	749668.147	1007050.629	57	Mv	8/16/2006	37	6	9	Munitions Debris	8/23/2006	Small Arms, brass pieces	-	
46G14-0136	749614	1007082.25	55	Mv	8/16/2006	31	6	7	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0145	749553.25	1007128.75	53	Mv	8/17/2006	25	6	10	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0155	749649.5	1007069.75	51	Mv	8/16/2006	23	6	24	Munitions Debris	8/23/2006	Small Arms, brass	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G14-0158	749580.9155	1007162.997	50	Mv	8/17/2006	30	6	15	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0843	749526.5	1007099	13	Mv	9/13/2006	13	6	3	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46I04-0042	749956.5	1005970.5	71	Mv	8/15/2006	38	6	24	Cultural Debris	8/31/2006	Bolt	Pass	KC
46I04-0044	749907.75	1005778.25	70	Mv	8/15/2006	35	6	18	Cultural Debris	8/31/2006	Chain	Pass	KC
46I04-0045	749925.25	1005807	70	Mv	8/15/2006	35	6	5	Cultural Debris	9/5/2006	Scrap metal	-	
46I04-0046	749866	1005969.5	67	Mv	8/15/2006	37	6	9	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0005	749976.25	1006006.25	609	Mv	8/10/2006	69	6	8	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0053	749810	1006102	59	Mv	8/10/2006	45	6	12	Munitions Debris	8/30/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0056	749847.2913	1006125.913	58	Mv	8/10/2006	77	6	8	Munitions Debris	8/31/2006	Frag	Pass	KC
46I06-0073	749853.25	1006195.75	49	Mv	9/13/2006	49	6	23	Cultural Debris	9/28/2006	Wire	-	
46I08-0022	749818	1006470	101	Mv	8/17/2006	59	6	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0032	749822.5	1006470.25	59	Mv	8/17/2006	33	6	4	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0037	749921.75	1006371.75	51	Mv	8/17/2006	28	6	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46I10-0018	749913.25	1006710	174	Mv	8/9/2006	56	6	4	Cultural Debris	8/28/2006	Trash	Pass	KC
46I14-0008	749998	1007233.25	194	Mv	8/16/2006	87	6	12	Cultural Debris	8/24/2006		-	
46I14-0010	749792.5	1007045	134	Mv	8/16/2006	64	6	24	Cultural Debris	8/24/2006		Pass	KC
46I14-0022	749957.75	1007089	58	Mv	8/16/2006	29	6	12	Cultural Debris	8/24/2006		-	
46I16-0011	749834	1007379.5	44	Mv	9/13/2006	44	6	5	Munitions Debris	9/25/2006	Small Arms, .50 cal pieces	-	
46K02-0001	750125.5	1005707.5	75174	Mv	8/14/2006	3699	6	14	Cultural Debris	9/5/2006	Tractor weight	-	
46K02-0013	750130.75	1005706.75	608	Mv	8/14/2006	456	6	8	Munitions Debris	9/5/2006	Base plate	-	
46K02-0018	750168.5	1005602.75	343	Mv	8/14/2006	252	6	24	Munitions Debris	9/5/2006	Flare candle holder	-	
46K02-0027	750066.75	1005665.75	161	Mv	8/14/2006	163	6	12	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0029	750169.25	1005600.25	151	Mv	8/14/2006	118	6	24	Munitions Debris	9/5/2006	Same as #18	-	
46K02-0030	750097.75	1005689.25	144	Mv	8/14/2006	86	6	15	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0107	750236.5	1005658.75	28	Mv	9/13/2006	28	6	22	Munitions Debris	9/28/2006	Fare piece	-	
46K04-0003	750172.75	1005853	1750	Mv	8/15/2006	1235	6	5	MPPEH	8/31/2006	75mm projectile he	-	
46K04-0014	750102.25	1005815	673	Mv	8/15/2006	352	6	8	Cultural Debris	9/5/2006		-	
46K04-0019	750130	1005857.25	465	Mv	8/15/2006	236	6	10	Cultural Debris	9/5/2006		-	
46K04-0024	750163.5	1005864.5	344	Mv	8/15/2006	152	6	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0026	750110.25	1005950.75	313	Mv	8/15/2006	165	6	3	Munitions Debris	8/31/2006	M-65 smoke pieces	-	
46K04-0027	750135.5	1005866.5	299	Mv	8/15/2006	152	6	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0034	750135	1005886.75	248	Mv	8/15/2006	123	6	4	Munitions Debris	8/31/2006	M-65 smoke pieces	-	
46K04-0041	750086.25	1005931.5	214	Mv	8/15/2006	118	6	14	Cultural Debris	9/5/2006		-	
46K04-0055	750214.5	1005854	157	Mv	8/15/2006	86	6	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0058	750129.5	1005849	149	Mv	8/15/2006	123	6	12	Cultural Debris	9/5/2006		-	
46K04-0068	750245	1005824	123	Mv	8/15/2006	63	6	4	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0073	750052.75	1005919.75	115	Mv	8/15/2006	85	6	6	Cultural Debris	9/5/2006		-	
46K04-0074	750193	1005751.75	112	Mv	8/15/2006	65	6	4	Cultural Debris	8/31/2006	Trash	-	
46K04-0076	750110.25	1005853.75	108	Mv	8/15/2006	61	6	10	Cultural Debris	9/5/2006		-	
46K04-0077	750127.6048	1005860.144	108	Mv	8/15/2006	80	6	12	Cultural Debris	9/5/2006		-	
46K04-0085	750089.75	1005797.75	98	Mv	8/15/2006	91	6	4	Cultural Debris	9/5/2006		-	
46K04-0098	750203.5	1005905	86	Mv	8/15/2006	68	6	5	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0120	750164	1005891.5	77	Mv	8/15/2006	65	6	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0121	750125.5	1005783.25	77	Mv	8/15/2006	85	6	12	Cultural Debris	9/5/2006		-	
46K04-0128	750052.75	1005783.75	74	Mv	8/15/2006	96	6	20	Cultural Debris	9/5/2006		-	
46K04-0137	750107	1005814.25	68	Mv	8/15/2006	42	6	8	Cultural Debris	9/5/2006		Pass	KC
46K04-0142	750035.75	1005768.25	66	Mv	8/15/2006	42	6	2	Cultural Debris	9/5/2006		-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46K04-0156	750108.25	1005811.5	62	Mv	8/15/2006	16	6	24	Cultural Debris	9/5/2006		Pass	KC
46K04-0168	750127	1005771.5	56	Mv	8/15/2006	36	6	4	Cultural Debris	9/5/2006		Pass	KC
46K04-0173	750240.25	1005958.25	56	Mv	8/15/2006	66	6	5	Cultural Debris	8/30/2006	Trash	-	
46K04-0180	750187.25	1005988.25	53	Mv	8/15/2006	53	6	5	Cultural Debris	8/30/2006	Trash	-	
46K04-0184	750092.25	1005870	52	Mv	8/15/2006	26	6	18	Cultural Debris	9/5/2006		Pass	KC
46K04-0190	750153	1005780.5	51	Mv	8/15/2006	26	6	8	Cultural Debris	9/5/2006		-	
46K04-0296	750097.75	1005883	35	Mv	9/13/2006	35	6	7	Munitions Debris	9/28/2006	Fare piece	-	
46K06-0018	750141	1006036.25	195	Mv	8/10/2006	82	6	14	Cultural Debris	8/29/2006		-	
46K06-0019	750072.25	1006087.75	185	Mv	8/10/2006	95	6	24	Cultural Debris	8/29/2006		Pass	KC
46K06-0030	750190.25	1006138.5	153	Mv	8/10/2006	194	6	4	Munitions Debris	8/29/2006	slap flare	-	
46K06-0031	750127.25	1006078.25	145	Mv	8/10/2006	108	6	4	Cultural Debris	8/29/2006		Pass	KC
46K06-0040	750119.75	1006072	107	Mv	8/10/2006	107	6	4	Cultural Debris	8/29/2006		Pass	KC
46K06-0041	750141.5	1006017.75	105	Mv	8/10/2006	23	6	9	Cultural Debris	8/29/2006		-	
46K06-0058	750188.75	1006000.25	77	Mv	8/10/2006	40	6	18	Cultural Debris	8/29/2006		-	
46K06-0060	750142	1006013.5	76	Mv	8/10/2006	34	6	12	Cultural Debris	8/29/2006		-	
46K06-0071	750177.75	1006148.75	66	Mv	8/10/2006	96	6	7	Cultural Debris	8/29/2006		-	
46K06-0081	750160.75	1006195.5	58	Mv	8/10/2006	38	6	15	Cultural Debris	8/29/2006		Pass	KC
46K06-0098	750046.5	1006241.5	52	Mv	8/10/2006	52	6	4	Cultural Debris	8/29/2006		-	
46K06-0100	750004	1006223	51	Mv	8/10/2006	53	6	0	Cultural Debris	10/25/2006	Scrap metal	-	
46K06-0102	750111.25	1006030	50	Mv	8/10/2006	39	6	12	Cultural Debris	8/29/2006		Pass	KC
46K06-0174	750201.75	1006011.5	34	Mv	9/13/2006	34	6	18	Munitions Debris	9/28/2006	Frag	-	
46K08-0004	750131	1006334.5	190	Mv	8/17/2006	86	6	7	Cultural Debris	8/29/2006		-	
46K08-0019	750153	1006497.75	54	Mv	8/9/2006	23	6	7	Munitions Debris	8/29/2006	Small Arms, .50 cal pieces	-	
46K08-0030	750060.75	1006357	43	Mv	9/13/2006	43	6	10	Munitions Debris	9/28/2006	Frag	-	
46M02-0004	750334.75	1005732	932	Mv	8/14/2006	869	6	5	Munitions Debris	9/6/2006	slap flare	Pass	KC
46M02-0008	750339	1005738	483	Mv	8/14/2006	186	6	4	Munitions Debris	9/6/2006	slap flare	Pass	KC
46M02-0011	750339	1005746.5	313	Mv	8/14/2006	184	6	4	Cultural Debris	9/6/2006	M-62 smoke (also found near flag)	-	
46M02-0034	750317	1005730.25	42	Mv	9/13/2006	42	6	24	Munitions Debris	9/28/2006	Frag	-	
46M04-0025	750393.5	1005772.5	349	Mv	8/14/2006	156	6	11	Munitions Debris	8/30/2006	slapflare	-	
46M04-0027	750399.5	1005772.75	336	Mv	8/14/2006	333	6	6	Munitions Debris	8/30/2006	Slapflare	-	
46M04-0063	750323.5	1005832.5	83	Mv	8/14/2006	39	6	8	Cultural Debris	8/30/2006	Trash	-	
46M04-0078	750317.75	1005848.25	62	Mv	8/14/2006	46	6	5	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0079	750417.25	1005833.5	61	Mv	8/14/2006	32	6	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0083	750278.75	1005854	55	Mv	8/14/2006	47	6	3	Cultural Debris	8/30/2006	Trash	-	
46M06-0008	750292.25	1006005.25	61	Mv	8/16/2006	31	6	10	Cultural Debris	8/30/2006	Trash	-	
46M06-0011	750284	1006000.5	55	Mv	8/16/2006	32	6	14	Cultural Debris	8/30/2006	Trash	-	
46A18-0020	748993.25	1007522.75	316	Mv	8/16/2006	156	5	14	Cultural Debris	8/22/2006	Two digs	Pass	KC
46A18-0024	748998	1007519.5	228	Mv	8/16/2006	223	5	20	Cultural Debris	8/22/2006	Iron rod	Pass	KC
46C08-0003	749245	1006413.75	50	Mv	8/16/2006	25	5	6	Cultural Debris	9/26/2006	Same as #4 chain hook	-	
46C16-0004	749033.74	1007387.94	284	Mv	8/21/2006	130	5	24	Cultural Debris	9/6/2006	Farm plow piece	-	
46C18-0003	749118.5	1007593	451	Mv	8/21/2006	123	5	22	Cultural Debris	8/22/2006	Wire pieces	Pass	KC
46E08-0006	749393.25	1006369.25	627	Mv	8/21/2006	315	5	24	Munitions Debris	8/29/2006	2,36 motor	Pass	KC
46E08-0009	749474.75	1006336	413	Mv	8/21/2006	205	5	24	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0027	749468.5	1006415	193	Mv	8/21/2006	98	5	18	Munitions Debris	8/29/2006	Flaer piece	Pass	KC
46E08-0028	749477.75	1006419.5	191	Mv	8/21/2006	92	5	15	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0030	749387.25	1006307.75	95	Mv	8/21/2006	45	5	18	Cultural Debris	8/29/2006	Trash	Pass	KC
46E08-0124	749468.5	1006313	19	Mv	9/13/2006	19	5	8	Cultural Debris	9/26/2006	Wire	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46E10-0021	749487	1006524.75	67	Mv	8/21/2006	35	5	10	Cultural Debris	8/28/2006	Nails	Pass	KC
46E12-0004	749376.25	1006752.75	159	Mv	8/21/2006	78	5	4	Cultural Debris	8/24/2006	Trash	Pass	KC
46E14-0022	749406.25	1007042.5	181	Mv	8/21/2006	93	5	10	Cultural Debris	8/24/2006	Trash	Pass	KC
46E14-0065	749458.5	1007080.25	47	Mv	9/13/2006	47	5	5	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46E14-0140	749499	1007011.25	24	Mv	9/13/2006	24	5	7	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46E16-0024	749451.25	1007349.75	288	Mv	8/21/2006	125	5	5	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0038	749396.25	1007468	50	Mv	8/21/2006	23	5	2	Cultural Debris	8/22/2006	Trash	-	-
46E18-0005	749466.75	1007577.75	73	Mv	8/21/2006	53	5	36	Cultural Debris	8/22/2006	Trash	-	-
46E18-0008	749495	1007574.5	53	Mv	8/21/2006	26	5	8	Munitions Debris	8/22/2006	Small Arms	-	-
46E18-0009	749439	1007540.5	50	Mv	8/21/2006	23	5	3	Cultural Debris	8/22/2006	Trash	-	-
46G04-0005	749587	1005986.75	175	Mv	8/15/2006	94	5	10	Munitions Debris	8/30/2006	Flare piece	-	-
46G04-0012	749616.75	1005969.75	70	Mv	8/15/2006	33	5	8	Munitions Debris	8/30/2006	Flare piece	-	-
46G04-0014	749669.9697	1005968.506	50	Mv	8/15/2006	27	5	6	Munitions Debris	8/30/2006	Flare piece	-	-
46G04-0015	749703.25	1005971	49	Mv	9/13/2006	50	5	20	Munitions Debris	9/28/2006	Flare piece	-	-
46G04-0022	749741	1005938.5	32	Mv	9/13/2006	32	5	9	Munitions Debris	9/28/2006	Flare piece	-	-
46G06-0037	749583.5	1006174.25	319	Mv	8/14/2006	359	5	16	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0042	749575.25	1006193.5	294	Mv	8/10/2006	185	5	8	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0045	749638.75	1006199	287	Mv	8/10/2006	235	5	6	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0052	749614.5	1006179	242	Mv	8/14/2006	123	5	24	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0074	749642.5	1006213.75	111	Mv	8/10/2006	115	5	6	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0083	749669.75	1006016.75	77	Mv	8/10/2006	36	5	20	Munitions Debris	8/30/2006	Flare piece	-	-
46G06-0088	749629.75	1006166.25	63	Mv	8/14/2006	33	5	18	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0092	749617.75	1006156	58	Mv	8/10/2006	66	5	14	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G08-0057	749600.25	1006439.5	57	Mv	8/16/2006	58	5	10	Cultural Debris	8/29/2006		-	-
46G10-0041	749573.25	1006537.25	101	Mv	8/9/2006	42	5	24	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0009	749557	1006768	859	Mv	8/21/2006	411	5	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0027	749723.25	1006776.75	62	Mv	8/21/2006	37	5	4	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0032	749627.25	1006795.5	58	Mv	8/21/2006	32	5	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0035	749584.25	1006943.75	55	Mv	8/21/2006	27	5	4	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0005	749538.5	1007149	525	Mv	8/17/2006	267	5	2	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46G14-0021	749554.25	1007151	228	Mv	8/17/2006	123	5	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46G14-0027	749541	1007110.75	149	Mv	8/17/2006	89	5	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46G14-0031	749567.5	1007136.25	140	Mv	8/17/2006	74	5	10	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	-
46G14-0034	749529.5	1007108.5	137	Mv	8/16/2006	87	5	6	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46G14-0057	749581.5	1007138.75	80	Mv	8/17/2006	39	5	6	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	-
46G14-0061	749541.75	1007013.75	79	Mv	8/16/2006	38	5	6	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0078	749695.75	1007049.25	70	Mv	8/16/2006	37	5	4	Cultural Debris	8/22/2006	Trash	Pass	KC
46G14-0081	749514.75	1007094.5	69	Mv	8/16/2006	40	5	3	Cultural Debris	8/24/2006	Trash	-	-
46G14-0083	749501	1007068.75	68	Mv	8/16/2006	39	5	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46G14-0094	749650.25	1007080.25	63	Mv	8/16/2006	38	5	3	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0100	749663	1007023	62	Mv	8/16/2006	30	5	6	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0113	749575.5	1007125	59	Mv	8/17/2006	32	5	5	Munitions Debris	8/23/2006	Small Arms, brass pieces	-	-
46G14-0116	749615.25	1007055.75	58	Mv	8/16/2006	29	5	12	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0123	749602.25	1007136.75	57	Mv	8/17/2006	29	5	8	Munitions Debris	8/23/2006	Small Arms, brass pieces	-	-
46G14-0125	749545.5	1007137.75	57	Mv	8/17/2006	26	5	7	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46G14-0133	749580.25	1007174.25	56	Mv	8/17/2006	25	5	12	Cultural Debris	8/23/2006	Wire	Pass	KC
46G14-0142	749617.5	1007183.75	53	Mv	8/17/2006	28	5	18	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G14-0151	749594.75	1007191.75	51	Mv	8/17/2006	30	5	10	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0157	749615.25	1007190.25	51	Mv	8/17/2006	29	5	18	Munitions Debris	8/23/2006	Small Arms, brass	Pass	KC
46G14-0161	749525.5	1007010.75	50	Mv	8/16/2006	29	5	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0411	749733.5	1007065.75	29	Mv	9/13/2006	29	5	24	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46I04-0015	749878	1005977.5	207	Mv	8/15/2006	104	5	30	Munitions Debris	8/31/2006	Slap flare	-	-
46I04-0020	749813.25	1005969.75	190	Mv	8/15/2006	85	5	4	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46I04-0024	749847.5	1005822	146	Mv	8/15/2006	81	5	6	Cultural Debris	8/31/2006	Wire	-	-
46I04-0041	749859.25	1005985	74	Mv	8/15/2006	32	5	12	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0052	749941.5	1005773.25	61	Mv	8/15/2006	32	5	20	Cultural Debris	8/31/2006		-	-
46I04-0057	749860.75	1005956.25	60	Mv	8/15/2006	30	5	6	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0079	749900.25	1005965.25	45	Mv	9/13/2006	45	5	13	Munitions Debris	9/28/2006	Flare piece	-	-
46I06-0007	749864.75	1006216.75	491	Mv	8/10/2006	255	5	20	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46I06-0009	749966.75	1006085.75	366	Mv	8/10/2006	156	5	24	Cultural Debris	8/31/2006	Horse shoe	Pass	KC
46I06-0020	749825.5	1006237.25	114	Mv	8/10/2006	75	5	22	Munitions Debris	8/30/2006	Frag	-	-
46I06-0021	749904.5	1006138	113	Mv	8/10/2006	32	5	20	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0022	749976.25	1006069.75	111	Mv	8/10/2006	55	5	7	Munitions Debris	8/31/2006	Signal Flare /Smoke piece 2pieces	Pass	KC
46I06-0032	749765.25	1006046	91	Mv	8/10/2006	50	5	24	Cultural Debris	8/31/2006	Chain piece	-	-
46I06-0034	749810.5	1006087	88	Mv	8/10/2006	44	5	22	Munitions Debris	8/30/2006	Frag	-	-
46I06-0038	749963.5	1006033	77	Mv	8/10/2006	72	5	7	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46I06-0042	749812.25	1006107.5	74	Mv	8/10/2006	104	5	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46I06-0045	749842.5	1006167	65	Mv	8/10/2006	42	5	20	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46I06-0048	749934.75	1006079	62	Mv	8/10/2006	32	5	14	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46I06-0051	749751	1006238.75	59	Mv	8/10/2006	55	5	8	Cultural Debris	8/30/2006		Pass	KC
46I06-0071	749851.5	1006175.5	50	Mv	8/10/2006	25	5	22	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46I06-0358	749970	1006072.75	18	Mv	9/13/2006	18	5	7	Munitions Debris	9/28/2006	Flare piece	-	-
46I08-0016	749792.25	1006461.25	211	Mv	8/17/2006	116	5	2	Cultural Debris	8/28/2006		Pass	KC
46I08-0017	749970.25	1006410.75	122	Mv	8/17/2006	69	5	9	Cultural Debris	8/28/2006		Pass	KC
46I08-0019	749812.25	1006419.25	116	Mv	8/17/2006	62	5	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0023	749802	1006260.75	100	Mv	8/21/2006	57	5	8	Cultural Debris	8/28/2006	Trash	-	-
46I08-0024	749960.75	1006355.75	94	Mv	8/17/2006	41	5	8	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0026	749974.25	1006291.75	90	Mv	8/17/2006	48	5	9	Cultural Debris	8/28/2006	Trash	-	-
46I08-0029	749812	1006430	80	Mv	8/17/2006	37	5	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0033	749905.25	1006267.75	59	Mv	8/21/2006	30	5	6	Cultural Debris	8/28/2006		Pass	KC
46I08-0035	749993.25	1006257	54	Mv	8/17/2006	29	5	3	Cultural Debris	8/28/2006	Trash	-	-
46I08-0075	749791.75	1006368.5	29	Mv	9/13/2006	29	5	20	Cultural Debris	9/28/2006	Large nail	Pass	KC
46I10-0026	749979	1006708.5	93	Mv	8/9/2006	45	5	4	Cultural Debris	8/28/2006		-	-
46I10-0028	749936.5	1006527.75	90	Mv	8/9/2006	33	5	2	Cultural Debris	8/28/2006	Trash	-	-
46I10-0031	749784	1006663.25	73	Mv	8/9/2006	16	5	7	Cultural Debris	8/28/2006		Pass	KC
46I10-0038	749785.25	1006660.25	60	Mv	8/9/2006	15	5	10	Cultural Debris	8/28/2006	Trash	Pass	KC
46I10-0127	749779	1006500.5	22	Mv	9/13/2006	22	5	24	Cultural Debris	9/28/2006	Nail	Pass	KC
46I12-0007	749934.5	1006750	463	Mv	8/16/2006	40	5	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0013	749754.25	1006844.25	135	Mv	8/16/2006	70	5	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46I12-0017	749971	1006830.5	80	Mv	8/16/2006	41	5	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0018	749786.5	1006997.25	80	Mv	8/16/2006	42	5	3	Cultural Debris	8/28/2006	Trash	-	-
46I12-0040	749770.5	1006901.25	46	Mv	9/13/2006	46	5	16	Cultural Debris	9/28/2006		-	-
46I12-0074	749939.5	1006983.5	32	Mv	9/13/2006	32	5	24	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46I14-0009	749972.25	1007171.75	141	Mv	8/17/2006	81	5	10	Cultural Debris	8/24/2006		-	-

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SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46I16-0010	749754.5	1007426.5	53	Mv	8/17/2006	31	5	4	Cultural Debris	8/22/2006	Trash	-	
46I18-0002	749839.5	1007506.25	140	Mv	8/17/2006	73	5	4	Cultural Debris	8/22/2006	Seed Item	-	
46K02-0007	750047.25	1005615.25	1950	Mv	8/14/2006	1900	5	36	Munitions Debris	9/5/2006	Frag	Pass	KC
46K02-0012	750153.5	1005699	635	Mv	8/14/2006	363	5	14	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0014	750065.5	1005616.25	534	Mv	8/14/2006	256	5	36	Munitions Debris	9/5/2006	Frag	Pass	KC
46K02-0016	750186	1005693.25	359	Mv	8/14/2006	296	5	16	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0024	750084.5	1005678	196	Mv	8/14/2006	189	5	9	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0032	750140.5	1005741	134	Mv	8/14/2006	69	5	23	Cultural Debris	9/5/2006	Chain piece	Pass	KC
46K02-0042	750193.5	1005715.5	92	Mv	8/14/2006	112	5	14	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0062	750182.5	1005749	52	Mv	8/14/2006	36	5	10	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0063	750072	1005734.75	51	Mv	8/14/2006	80	5	6	Munitions Debris	9/5/2006	Fuze piece	-	
46K04-0001	750230.25	1005857.5	4222	Mv	8/15/2006	2300	5	5	Cultural Debris	8/30/2006	Trash	-	
46K04-0013	750175.25	1005855.25	679	Mv	8/15/2006	454	5	4	MPPEH	8/31/2006	proj VT nose fuze	Pass	KC
46K04-0021	750109	1005994	395	Mv	8/15/2006	253	5	4	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0025	750156.75	1005866.75	339	Mv	8/15/2006	143	5	4	Cultural Debris	8/31/2006	Trash	-	
46K04-0037	750099.25	1005862.5	235	Mv	8/15/2006	63	5	5	Munitions Debris	9/5/2006	Small Arms, .50 cal pieces	Pass	KC
46K04-0059	750147.75	1005818.25	148	Mv	8/15/2006	75	5	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0061	750129	1005996.75	145	Mv	8/14/2006	74	5	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0063	750038	1005802.75	139	Mv	8/15/2006	90	5	4	Cultural Debris	9/5/2006	Trash	-	
46K04-0066	750159.25	1005893	131	Mv	8/15/2006	86	5	8	Cultural Debris	8/31/2006	Trash	-	
46K04-0082	750155.5	1005923.75	103	Mv	8/15/2006	98	5	4	Cultural Debris	8/31/2006	Trash	-	
46K04-0087	750214.75	1005946	98	Mv	8/15/2006	56	5	9	Cultural Debris	8/30/2006	Trash	-	
46K04-0088	750178.5	1005996.75	98	Mv	8/15/2006	68	5	6	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0089	750137.75	1005905.75	97	Mv	8/15/2006	56	5	5	Cultural Debris	9/5/2006	Trash	-	
46K04-0094	750154.75	1005830	92	Mv	8/15/2006	46	5	2	Cultural Debris	8/31/2006	Trash	-	
46K04-0097	750229.5	1005980.75	86	Mv	8/15/2006	83	5	4	Cultural Debris	8/30/2006	Trash	-	
46K04-0099	750234	1005855.25	86	Mv	8/15/2006	42	5	2	Cultural Debris	8/30/2006	Trash	-	
46K04-0101	750228.25	1005877.25	85	Mv	8/15/2006	66	5	4	Cultural Debris	8/30/2006	Trash	-	
46K04-0109	750044.5	1005761.25	81	Mv	8/15/2006	40	5	4	Cultural Debris	9/5/2006	Trash	Pass	KC
46K04-0115	750125.25	1005925	78	Mv	8/15/2006	63	5	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0119	750104.25	1005766.75	77	Mv	8/15/2006	36	5	6	Cultural Debris	9/5/2006	Trash	-	
46K04-0122	750248.5	1005893.5	77	Mv	8/15/2006	34	5	2	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0123	750021.75	1005981.75	77	Mv	8/15/2006	36	5	3	Cultural Debris	9/5/2006	Trash	-	
46K04-0125	750174.25	1005765.5	74	Mv	8/15/2006	48	5	3	Cultural Debris	9/5/2006	Trash	-	
46K04-0135	750114	1005754	69	Mv	8/15/2006	33	5	7	Cultural Debris	9/5/2006	Trash	-	
46K04-0138	750157.75	1005929.5	67	Mv	8/15/2006	86	5	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0139	750182	1005960.5	67	Mv	8/15/2006	56	5	2	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0144	750078	1005979.75	65	Mv	8/15/2006	63	5	3	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0151	750122	1005820	62	Mv	8/15/2006	38	5	12	Cultural Debris	9/5/2006	Trash	Pass	KC
46K04-0161	750094.5	1005930.75	60	Mv	8/15/2006	32	5	16	Cultural Debris	9/5/2006	Trash	-	
46K04-0170	750158.1308	1005977.081	56	Mv	8/15/2006	103	5	3	Cultural Debris	8/30/2006	Trash	-	
46K04-0178	750112	1005814.5	55	Mv	8/15/2006	42	5	3	Cultural Debris	9/5/2006	Trash	Pass	KC
46K04-0181	750087.25	1005813.25	53	Mv	8/15/2006	45	5	3	Munitions Debris	9/5/2006	Small Arms, .50 cal pieces	-	
46K04-0183	750199.75	1005917.25	52	Mv	8/15/2006	26	5	5	Cultural Debris	8/30/2006	Trash	-	
46K06-0021	750133.25	1006054.25	183	Mv	8/10/2006	90	5	8	Cultural Debris	8/29/2006	Trash	-	
46K06-0032	750080.25	1006002	143	Mv	8/10/2006	76	5	6	Cultural Debris	8/29/2006	Trash	-	
46K06-0036	750170.75	1006179.5	122	Mv	8/10/2006	152	5	6	Munitions Debris	8/29/2006	M-17 smoke pieces	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46K06-0050	750060.25	1006137.5	86	Mv	8/10/2006	43	5	24	Cultural Debris	8/29/2006		-	
46K06-0051	750049.75	1006085.25	85	Mv	8/10/2006	73	5	3	Cultural Debris	8/29/2006		Pass	KC
46K06-0056	750191.5	1006015.75	79	Mv	8/10/2006	80	5	5	Cultural Debris	8/29/2006		-	
46K06-0073	750062.75	1006097.25	66	Mv	8/10/2006	33	5	3	Cultural Debris	8/29/2006		-	
46K06-0079	750037	1006109.5	60	Mv	8/10/2006	32	5	10	Cultural Debris	8/29/2006		Pass	KC
46K06-0083	750043.75	1006028.75	58	Mv	8/10/2006	44	5	6	Cultural Debris	8/29/2006		-	
46K06-0084	750059.5	1006060	58	Mv	8/10/2006	25	5	10	Cultural Debris	8/29/2006		Pass	KC
46K06-0114	750096.5	1006125.5	46	Mv	9/13/2006	46	5	6	Cultural Debris	9/28/2006		-	
46K08-0006	750055.5	1006305.5	117	Mv	8/17/2006	47	5	8	Cultural Debris	8/29/2006		-	
46K08-0008	750064	1006345.5	98	Mv	8/9/2006	77	5	4	Cultural Debris	8/29/2006		-	
46K08-0018	750118.5	1006287.5	57	Mv	8/17/2006	31	5	8	Cultural Debris	8/29/2006		-	
46K10-0003	750100	1006628	111	Mv	8/9/2006	33	5	9	Cultural Debris	8/28/2006	Trash	-	
46K10-0009	750121.25	1006639.5	62	Mv	8/9/2006	69	5	3	Cultural Debris	8/28/2006	Trash	-	
46M02-0003	750298	1005737	1309	Mv	8/14/2006	1323	5	4	Cultural Debris	9/6/2006		Pass	KC
46M02-0017	750279.25	1005724.75	101	Mv	8/14/2006	56	5	14	Cultural Debris	9/6/2006		-	
46M02-0022	750263.5	1005644.25	69	Mv	8/14/2006	36	5	6	Cultural Debris	9/6/2006		-	
46M02-0040	750303.25	1005734.5	30	Mv	9/13/2006	30	5	24	Cultural Debris	9/28/2006		-	
46M04-0002	750417.5	1005779.5	2405	Mv	8/14/2006	1563	5	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0012	750319.75	1005803.25	786	Mv	8/14/2006	453	5	5	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0013	750315.5	1005932.25	778	Mv	8/14/2006	369	5	4	Cultural Debris	8/30/2006		-	
46M04-0019	750368.75	1005775.75	496	Mv	8/14/2006	500	5	8	Munitions Debris	8/30/2006	Slapflare	-	
46M04-0021	750407.5	1005848.25	417	Mv	8/14/2006	232	5	3	Cultural Debris	8/30/2006	Trash	-	
46M04-0022	750356.75	1005935	397	Mv	8/14/2006	163	5	8	Munitions Debris	8/30/2006	Slapflare	Pass	KC
46M04-0028	750311.25	1005821	333	Mv	8/14/2006	293	5	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0030	750415.75	1005850.75	283	Mv	8/14/2006	196	5	4	Cultural Debris	8/30/2006	Trash	-	
46M04-0031	750390.5	1005760.25	282	Mv	8/14/2006	321	5	4	Cultural Debris	8/30/2006	Trash	-	
46M04-0039	750257.625	1005836	197	Mv	8/14/2006	86	5	6	Cultural Debris	8/30/2006	Trash	-	
46M04-0041	750356.25	1005825.25	193	Mv	8/14/2006	65	5	9	Munitions Debris	8/30/2006	Slapflare	-	
46M04-0054	750377.25	1005922.5	125	Mv	8/14/2006	52	5	4	Cultural Debris	8/30/2006		Pass	KC
46M04-0060	750271	1005896.75	87	Mv	8/14/2006	69	5	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0061	750304.75	1005895	87	Mv	8/14/2006	61	5	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0072	750298.25	1005988.75	69	Mv	8/14/2006	32	5	6	Cultural Debris	8/30/2006	Trash	-	
46M04-0074	750255.125	1005768	65	Mv	8/14/2006	63	5	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0077	750322.75	1005755.25	62	Mv	8/14/2006	35	5	6	Cultural Debris	8/30/2006	Trash	-	
46M06-0006	750301.75	1006052.75	134	Mv	8/16/2006	72	5	4	Cultural Debris	8/30/2006	Trash	-	
46M06-0007	750292.5	1006089	118	Mv	8/16/2006	52	5	4	Cultural Debris	8/30/2006	Trash	-	
46M06-0009	750277	1006054.5	59	Mv	8/16/2006	34	5	6	Cultural Debris	8/30/2006		-	
46M06-0010	750295.75	1006001.75	58	Mv	8/16/2006	36	5	6	Cultural Debris	8/30/2006	Trash	-	
46A16-0042	748896	1007480	192	Mv	8/16/2006	102	4	0	Cultural Debris	10/25/2006	Wire	-	
46A16-0047	748961.5	1007351	171	Mv	8/16/2006	168	4	30	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0058	748922.25	1007355.75	119	Mv	8/16/2006	85	4	8	Cultural Debris	8/23/2006	Trash	-	
46A16-0068	748970	1007338.75	89	Mv	8/16/2006	96	4	14	Cultural Debris	8/23/2006	Car part	Pass	KC
46A16-0077	748904.75	1007358	69	Mv	8/16/2006	70	4	36	Cultural Debris	8/23/2006	Trash	Pass	KC
46A18-0017	748998.7339	1007522.768	402	Mv	8/16/2006	236	4	24	Cultural Debris	8/22/2006	Trash	Pass	KC
46A18-0027	748996.5	1007525.75	170	Mv	8/16/2006	85	4	24	Cultural Debris	8/22/2006	Nail	Pass	KC
46A18-0028	748988.75	1007533.25	169	Mv	8/16/2006	80	4	36	Cultural Debris	8/22/2006	Steel rod	Pass	KC
46A18-0038	748985.25	1007594.75	106	Mv	8/16/2006	52	4	18	Cultural Debris	8/22/2006	Trash, 2 digs	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46A18-0040	748993.75	1007519	103	Mv	8/16/2006	53	4	30	Munitions Debris	8/22/2006	Small Arms, .30 cal head	Pass	KC
46A18-0048	748992.75	1007597.5	74	Mv	8/16/2006	53	4	9	Cultural Debris	8/22/2006	Nail	-	
46C08-0004	749245.9504	1006409.96	47	Mv	9/13/2006	45	4	14	Cultural Debris	9/26/2006	Chain hook	Pass	KC
46C10-0002	749219.7295	1006602.11	87	Mv	8/16/2006	42	4	12	Cultural Debris	8/28/2006	Wire	-	
46C10-0005	749245.25	1006521.75	30	Mv	9/13/2006	30	4	5	Munitions Debris	9/25/2006	Small Arms, .50 cal head	-	
46C10-0006	749227.25	1006604.5	29	Mv	9/13/2006	29	4	3	Cultural Debris	9/25/2006	Wire	Pass	KC
46C10-0009	749235	1006515.5	24	Mv	9/13/2006	24	4	0	Cultural Debris	10/25/2006	Scrap metal	Pass	KC
46C16-0010	749022.82	1007414.98	60	Mv	8/21/2006	33	4	20	Munitions Debris	9/6/2006	Small Arms, cartridge	-	
46C16-0011	749038.6005	1007387.595	52	Mv	8/22/2006	27	4	24	Cultural Debris	9/6/2006	Metal spike	-	
46C16-0012	749024.12	1007431.88	51	Mv	8/22/2006	26	4	6	Cultural Debris	9/6/2006	Nail	-	
46C18-0011	749121.25	1007589.5	150	Mv	8/21/2006	74	4	2	Cultural Debris	8/22/2006	Large nail	Pass	KC
46C18-0022	749163	1007543.5	77	Mv	8/21/2006	36	4	2	Cultural Debris	8/23/2006	Trash	Pass	KC
46C18-0023	749121.5	1007571.75	74	Mv	8/21/2006	37	4	6	Cultural Debris	8/22/2006	Trash	-	
46C18-0028	749102.5	1007629.5	68	Mv	8/21/2006	32	4	8	Cultural Debris	8/22/2006	Beer can	-	
46C18-0030	749188.25	1007512.25	62	Mv	8/21/2006	30	4	12	Cultural Debris	8/23/2006	Trash	Pass	KC
46E08-0004	749434	1006472	770	Mv	8/21/2006	377	4	5	Munitions Debris	8/29/2006	Base piece of a 75 mm projo.	Pass	KC
46E08-0008	749391.25	1006367	441	Mv	8/21/2006	218	4	14	Munitions Debris	8/29/2006	Part of a 75 mm projo	-	
46E08-0015	749454.75	1006386	370	Mv	8/21/2006	186	4	24	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0019	749470.5	1006408.75	304	Mv	8/21/2006	152	4	20	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0036	749367	1006313	81	Mv	8/21/2006	29	4	8	Cultural Debris	8/29/2006		-	
46E08-0037	749449.5	1006416.5	81	Mv	8/21/2006	40	4	6	Cultural Debris	8/29/2006	Trash	Pass	KC
46E08-0041	749443.75	1006467	70	Mv	8/21/2006	34	4	12	Munitions Debris	8/29/2006	Frag, 75mm	Pass	KC
46E08-0043	749449	1006419.75	59	Mv	8/21/2006	27	4	0	Cultural Debris	10/23/2006	Alum scrap	Pass	KC
46E08-0058	749497.75	1006331	37	Mv	9/13/2006	35	4	20	Cultural Debris	9/26/2006	Nail	Pass	KC
46E10-0007	749340.75	1006613.75	390	Mv	8/21/2006	192	4	30	Munitions Debris	8/28/2006	Frag	Pass	KC
46E10-0010	749488.75	1006521.25	202	Mv	8/21/2006	98	4	5	Cultural Debris	8/28/2006		Pass	KC
46E10-0012	749334.75	1006617	115	Mv	8/21/2006	68	4	12	Cultural Debris	8/28/2006	Trash	Pass	KC
46E10-0013	749334.75	1006610	113	Mv	8/21/2006	60	4	12	Munitions Debris	8/28/2006	Small Arms, 3 digs, 3ea 50 cal heads	Pass	KC
46E10-0020	749307.75	1006621.5	68	Mv	8/21/2006	40	4	7	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46E10-0032	749355.25	1006666.5	45	Mv	9/13/2006	45	4	15	Munitions Debris	9/25/2006	Small Arms, .50 cal head	Pass	KC
46E12-0014	749387.75	1006757.75	78	Mv	8/21/2006	86	4	3	Cultural Debris	8/24/2006	Wire	Pass	KC
46E12-0019	749410.25	1006943.75	72	Mv	8/21/2006	32	4	9	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0027	749346.75	1006907.75	58	Mv	8/21/2006	26	4	7	Munitions Debris	8/24/2006	Small Arms, .50 cal head	-	
46E12-0028	749439.75	1006995.25	57	Mv	8/21/2006	25	4	4	Cultural Debris	8/24/2006	Trash	Pass	KC
46E12-0038	749421	1006924	50	Mv	8/21/2006	25	4	9	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E14-0019	749491.75	1007056.5	185	Mv	8/21/2006	96	4	15	Cultural Debris	8/23/2006	Trash	Pass	KC
46E14-0027	749487	1007057.75	151	Mv	8/21/2006	76	4	20	Cultural Debris	8/24/2006	Wire	-	
46E14-0032	749495.25	1007050	138	Mv	8/21/2006	59	4	10	Munitions Debris	8/23/2006	Small Arms, .50 cal head	Pass	KC
46E14-0033	749475.75	1007077.5	131	Mv	8/21/2006	72	4	6	Cultural Debris	10/23/2006	Alum scrap	-	
46E14-0041	749483.5408	1007049.386	87	Mv	8/21/2006	43	4	24	Cultural Debris	8/24/2006	Dug a 2 foot dia. hole round the flag found no visible metal-possible rust accumulation	Pass	KC
46E14-0043	749489	1007053.25	77	Mv	8/21/2006	36	4	12	Cultural Debris	8/24/2006	Wire	Pass	KC
46E14-0058	749490	1007086.25	53	Mv	8/21/2006	25	4	24	Cultural Debris	8/23/2006	Wire	-	
46E14-0062	749495	1007096.25	51	Mv	8/21/2006	26	4	24	Cultural Debris	8/23/2006	Trash	-	
46E16-0027	749492.25	1007283.25	156	Mv	8/21/2006	75	4	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0034	749436.5	1007342.5	63	Mv	8/21/2006	23	4	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0037	749428.54	1007331.854	52	Mv	8/21/2006	23	4	7	Cultural Debris	8/22/2006	Trash	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
46G04-0010	749618.25	1005941.5	78	Mv	8/15/2006	37	4	24	Munitions Debris	8/30/2006	Flare piece	-	
46G04-0033	749702.5	1005940.5	18	Mv	9/13/2006	18	4	10	Hot Soil	9/28/2006	Hot rock	-	
46G06-0032	749645.5	1006134.25	359	Mv	8/10/2006	169	4	10	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0048	749650.625	1006172.625	271	Mv	8/10/2006	235	4	6	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0056	749612.25	1006144.25	208	Mv	8/10/2006	150	4	19	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0062	749723.5	1006021.25	178	Mv	8/10/2006	168	4	20	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0070	749565.75	1006194	137	Mv	8/10/2006	132	4	18	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0078	749641.25	1006070	85	Mv	8/10/2006	45	4	3	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0087	749733.5	1006113	73	Mv	8/10/2006	59	4	7	Cultural Debris	8/30/2006	Chain pieces	Pass	KC
46G06-0090	749742.75	1006080.25	61	Mv	8/10/2006	37	4	10	Munitions Debris	8/30/2006	Flare piece 2pieces	-	
46G06-0094	749717.5	1006142.75	57	Mv	8/10/2006	42	4	8	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0102	749705.5	1006126.25	50	Mv	8/10/2006	25	4	8	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0103	749569.25	1006085.75	50	Mv	8/14/2006	52	4	20	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0123	749657	1006092	37	Mv	9/13/2006	37	4	18	Munitions Debris	9/28/2006	Flare piecs	-	
46G06-0301	749648.25	1006090	18	Mv	9/13/2006	18	4	30	Cultural Debris	9/28/2006	Nail	-	
46G08-0001	749568.75	1006402	2202	Mv	8/16/2006	999	4	6	Cultural Debris	8/29/2006	Large bolt w/nut and washers	Pass	KC
46G08-0007	749547	1006408.25	737	Mv	8/16/2006	352	4	20	Cultural Debris	8/29/2006	Large bolt,nut and washers	-	
46G08-0025	749504.75	1006383	167	Mv	8/16/2006	84	4	20	Munitions Debris	8/29/2006	Fuze piece	Pass	KC
46G08-0030	749646.5	1006417.75	136	Mv	8/16/2006	68	4	20	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0038	749542.75	1006432	77	Mv	8/16/2006	92	4	9	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46G08-0039	749571.5	1006364.25	73	Mv	8/16/2006	63	4	6	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46G08-0042	749745	1006372.75	72	Mv	8/16/2006	67	4	6	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46G08-0044	749580.5	1006426	69	Mv	8/16/2006	53	4	8	Cultural Debris	8/29/2006	Nails	Pass	KC
46G08-0046	749501.25	1006417.25	64	Mv	8/16/2006	29	4	18	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0048	749617.25	1006378	63	Mv	8/16/2006	39	4	9	Munitions Debris	9/26/2006	Small Arms, .50 cal head	-	
46G08-0064	749642.5	1006481.25	52	Mv	8/16/2006	36	4	6	Munitions Debris	8/29/2006	Small Arms, .50 cal head	Pass	KC
46G08-0072	749500.5	1006421.75	41	Mv	9/13/2006	41	4	8	Cultural Debris	9/26/2006		-	
46G08-0136	749522.25	1006476	21	Mv	9/13/2006	21	4	36	Cultural Debris	9/26/2006	Scrap metal	Pass	KC
46G10-0016	749517.75	1006539	582	Mv	8/21/2006	264	4	20	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0017	749729.75	1006584.25	499	Mv	8/21/2006	263	4	10	MPPEH	8/28/2006	Type 93 (Japan) Training mine	Pass	KC
46G10-0027	749520.25	1006537.5	166	Mv	8/21/2006	89	4	22	Cultural Debris	8/28/2006	Metal pieces scatted by mower	Pass	KC
46G10-0034	749526.5	1006550.75	120	Mv	8/21/2006	61	4	14	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0038	749513.5	1006693	113	Mv	8/21/2006	72	4	12	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46G10-0039	749545.25	1006693.5	112	Mv	8/21/2006	71	4	14	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0045	749710	1006721.5	90	Mv	8/21/2006	48	4	5	MPPEH	8/28/2006	M10 Landmine fuse	Pass	KC
46G10-0052	749730.75	1006718.75	71	Mv	8/21/2006	39	4	24	Cultural Debris	8/28/2006	Aluminum slag	-	
46G10-0054	749511.25	1006618.5	66	Mv	8/21/2006	39	4	22	Cultural Debris	8/28/2006		Pass	KC
46G10-0055	749738	1006696.25	62	Mv	8/10/2006	43	4	5	Munitions Debris	8/28/2006	Small Arms, .50 cal head	-	
46G12-0015	749747.625	1006829.375	136	Mv	8/21/2006	84	4	4	Cultural Debris	8/28/2006	Trash	-	
46G12-0021	749732.25	1006917.5	68	Mv	8/21/2006	30	4	4	Cultural Debris	8/28/2006	Trash	-	
46G12-0022	749551	1006793	68	Mv	8/21/2006	31	4	6	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0034	749590.75	1006989	57	Mv	8/21/2006	26	4	8	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0095	749674	1006787.75	36	Mv	9/13/2006	36	4	4	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0003	749515.25	1007065.25	635	Mv	8/16/2006	320	4	8	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0004	749542.5	1007146.5	555	Mv	8/17/2006	261	4	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0012	749534.25	1007114.25	300	Mv	8/17/2006	147	4	7	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0014	749512.75	1007063.25	280	Mv	8/16/2006	162	4	4	Cultural Debris	8/24/2006	Trash	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G14-0023	749558	1007147	178	Mv	8/17/2006	82	4	9	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0024	749555	1007144.25	170	Mv	8/17/2006	74	4	6	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0026	749519.5	1007083.25	149	Mv	8/16/2006	74	4	7	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0032	749551	1007152.5	140	Mv	8/17/2006	74	4	20	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0037	749601.25	1007105	114	Mv	8/16/2006	68	4	14	Cultural Debris	8/23/2006		Pass	KC
46G14-0039	749560.75	1007155.25	107	Mv	8/17/2006	61	4	2	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0042	749509.25	1007046.25	99	Mv	8/16/2006	50	4	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0044	749569.25	1007151	98	Mv	8/17/2006	47	4	10	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0045	749534.25	1007100.25	96	Mv	8/16/2006	54	4	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0046	749518	1007142.25	95	Mv	8/17/2006	51	4	5	Munitions Debris	8/24/2006	Small Arms, brass pieces	-	
46G14-0047	749587	1007173.25	93	Mv	8/17/2006	47	4	12	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0053	749518.5	1007050.5	83	Mv	8/16/2006	44	4	2	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0055	749507.25	1007025.25	81	Mv	8/16/2006	46	4	4	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0058	749520.75	1007024.25	80	Mv	8/16/2006	43	4	9	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0059	749534.5	1007050	80	Mv	8/16/2006	43	4	4	Cultural Debris	8/24/2006	Trash	-	
46G14-0064	749535.75	1007086.25	77	Mv	8/16/2006	47	4	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0066	749600.75	1007145	75	Mv	8/17/2006	38	4	5	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0067	749622	1007025.25	74	Mv	8/16/2006	45	4	8	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0069	749500	1007058.25	73	Mv	8/16/2006	40	4	5	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0071	749604.5	1007217.25	72	Mv	8/17/2006	36	4	6	Munitions Debris	8/23/2006	Small Arms, brass pieces	-	
46G14-0072	749509.5	1007088.25	72	Mv	8/16/2006	52	4	3	Cultural Debris	8/24/2006	Trash	-	
46G14-0075	749549.5	1007122.25	72	Mv	8/17/2006	41	4	7	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0076	749542.25	1007132.5	72	Mv	8/17/2006	39	4	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0090	749573.75	1007139.75	65	Mv	8/17/2006	37	4	4	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0091	749511.5	1007029.75	64	Mv	8/16/2006	39	4	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0103	749546.25	1007131.5	61	Mv	8/17/2006	29	4	5	Munitions Debris	8/24/2006	Small Arms, brass pieces	-	
46G14-0105	749537.75	1007099.5	61	Mv	8/16/2006	36	4	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0106	749548.25	1007012.25	60	Mv	8/16/2006	32	4	42	Cultural Debris	8/24/2006		Pass	KC
46G14-0107	749591.5	1007139.75	60	Mv	8/17/2006	32	4	15	Munitions Debris	8/23/2006	Small Arms, brass pieces	-	
46G14-0108	749676.5	1007019.5	60	Mv	8/16/2006	30	4	7	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0109	749576.75	1007119.5	59	Mv	8/17/2006	33	4	4	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0110	749550	1007112.5	59	Mv	8/17/2006	27	4	6	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0115	749529	1007076.25	59	Mv	8/16/2006	32	4	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0120	749606.743	1007187.52	58	Mv	8/17/2006	32	4	7	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0121	749603	1007156.5	58	Mv	8/17/2006	31	4	7	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0122	749542	1007005.25	57	Mv	8/16/2006	31	4	2	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0126	749513	1007048.75	57	Mv	8/16/2006	27	4	3	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0130	749592	1007155.25	56	Mv	8/17/2006	30	4	12	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0131	749561.5	1007118	56	Mv	8/17/2006	29	4	12	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0132	749531.75	1007080.75	56	Mv	8/16/2006	31	4	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0135	749575.5	1007117.25	55	Mv	8/17/2006	29	4	12	Munitions Debris	8/23/2006	Small Arms, brass pieces	-	
46G14-0137	749610.5	1007104.75	54	Mv	8/16/2006	32	4	5	Cultural Debris	8/23/2006		-	
46G14-0139	749517.25	1007046.25	54	Mv	8/16/2006	30	4	8	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0140	749549.25	1007084.5	54	Mv	8/16/2006	32	4	2	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0143	749603.75	1007085.25	53	Mv	8/16/2006	30	4	9	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0152	749511.25	1007091.75	51	Mv	8/16/2006	26	4	2	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0159	749564.5	1007122.25	50	Mv	8/17/2006	26	4	4	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G14-0162	749606.5	1007137	50	Mv	8/17/2006	28	4	12	Munitions Debris	8/23/2006	Small Arms, brass	Pass	KC
46G14-0544	749533.5	1007123.5	23	Mv	9/13/2006	23	4	10	Cultural Debris	9/28/2006		-	
46G16-0008	749537	1007350.5	160	Mv	8/17/2006	84	4	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0017	749519.5	1007289.75	76	Mv	8/17/2006	38	4	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0022	749518.5	1007315.5	63	Mv	8/17/2006	36	4	4	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0023	749669.25	1007292.75	62	Mv	8/17/2006	34	4	12	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0030	749609.75	1007477.75	52	Mv	8/17/2006	30	4	3	Cultural Debris	8/22/2006	Trash	-	
46G16-0031	749606.25	1007420.75	52	Mv	8/17/2006	29	4	4	Munitions Debris	8/22/2006	Small Arms, brass	-	
46I04-0003	749886.75	1005799.25	642	Mv	8/15/2006	324	4	3	Munitions Debris	9/5/2006	Fuze VT	Pass	KC
46I04-0004	749808.75	1005990.5	537	Mv	8/15/2006	214	4	12	Munitions Debris	8/31/2006	Frag	-	
46I04-0019	749934.5	1005906	192	Mv	8/15/2006	163	4	7	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46I04-0021	749814.75	1005871.75	171	Mv	8/15/2006	168	4	13	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0025	749822.25	1005869.5	115	Mv	8/15/2006	67	4	10	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0027	749788.25	1005972.25	111	Mv	8/15/2006	65	4	7	Cultural Debris	8/31/2006		-	
46I04-0029	749832.75	1005964	103	Mv	8/15/2006	52	4	8	Cultural Debris	8/31/2006	Chain piece	-	
46I04-0031	749872.5	1005943	98	Mv	8/15/2006	51	4	10	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0034	749884	1005902.75	81	Mv	8/15/2006	40	4	13	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0040	749947.25	1005798	75	Mv	8/15/2006	33	4	8	Munitions Debris	9/5/2006	Frag	-	
46I04-0055	749916.25	1005833.75	60	Mv	8/15/2006	32	4	10	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46I04-0058	749950.75	1005876	57	Mv	8/15/2006	29	4	6	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46I04-0059	749878.25	1005991.25	57	Mv	8/15/2006	30	4	9	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0060	749930	1005968.5	57	Mv	8/15/2006	28	4	15	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0067	749962.5	1005836.5	53	Mv	8/15/2006	28	4	24	Munitions Debris	9/5/2006	Frag	-	
46I04-0068	749905.25	1005869.75	53	Mv	8/15/2006	25	4	9	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0070	749847.75	1005907.75	50	Mv	8/15/2006	25	4	17	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46I04-0124	749939.5	1005954.5	34	Mv	9/13/2006	34	4	36	Munitions Debris	9/28/2006	Flare piece	-	
46I06-0013	749879.75	1006229	218	Mv	8/10/2006	135	4	17	Cultural Debris	8/31/2006	Chain piece	-	
46I06-0014	749976	1006136.5	207	Mv	8/10/2006	100	4	6	Munitions Debris	8/31/2006	Frag	-	
46I06-0027	749788.75	1006106.875	101	Mv	8/10/2006	61	4	13	Cultural Debris	8/30/2006	Chain piece	Pass	KC
46I06-0028	749822.5	1006113.25	98	Mv	8/10/2006	118	4	10	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0029	749867.75	1006199	97	Mv	8/10/2006	45	4	24	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0031	749875.25	1006234.5	93	Mv	8/10/2006	86	4	9	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0036	749936	1006143.75	78	Mv	8/10/2006	69	4	8	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0039	749878.75	1006043.75	75	Mv	8/10/2006	56	4	24	Munitions Debris	8/30/2006	Frag	-	
46I06-0043	749967.75	1006020.75	71	Mv	8/10/2006	53	4	9	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0047	749917.75	1006069	64	Mv	8/10/2006	23	4	22	Munitions Debris	9/28/2006	Flare piece	-	
46I06-0050	749950.25	1006090.25	61	Mv	8/10/2006	41	4	5	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0052	749892	1006085.25	59	Mv	8/10/2006	75	4	10	Munitions Debris	8/30/2006	Frag	-	
46I06-0057	749851	1006093.75	58	Mv	8/10/2006	45	4	8	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0058	749972	1006107.25	56	Mv	8/10/2006	58	4	1	Cultural Debris	10/23/2006	Alum scrap	Pass	KC
46I06-0061	749955.25	1006070	55	Mv	8/10/2006	22	4	24	Munitions Debris	8/31/2006	Signal Flare /Smoke piece 3 pieces	-	
46I06-0067	749944.5	1006125.25	52	Mv	8/10/2006	27	4	10	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0068	749863.75	1006120.25	52	Mv	8/10/2006	76	4	9	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I06-0105	749756.25	1006041.25	40	Mv	9/13/2006	40	4	23	Hot Soil	9/28/2006	Hot rock	-	
46I08-0011	749852	1006265.75	366	Mv	8/21/2006	183	4	4	Cultural Debris	8/28/2006	Trash	-	
46I08-0021	749836.25	1006260	107	Mv	8/21/2006	57	4	26	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0028	749999.75	1006393.25	90	Mv	8/17/2006	46	4	6	Cultural Debris	8/29/2006		-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46I08-0030	749981.25	1006355.75	70	Mv	8/17/2006	42	4	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0031	749920.25	1006445.75	66	Mv	8/17/2006	39	4	0	Cultural Debris	10/23/2006	Scrap metal	Pass	KC
46I08-0043	749958	1006370.5	44	Mv	9/13/2006	44	4	16	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46I10-0008	749974	1006714	925	Mv	8/9/2006	333	4	8	Cultural Debris	8/28/2006		-	-
46I10-0009	749808	1006621.5	366	Mv	8/9/2006	166	4	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46I10-0022	749972	1006625.25	140	Mv	8/9/2006	62	4	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46I10-0025	749937.5	1006743.5	98	Mv	8/15/2006	49	4	3	Cultural Debris	8/28/2006	Trash	-	-
46I10-0041	749930	1006707.5	54	Mv	8/21/2006	26	4	12	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46I10-0043	749988.25	1006679.75	53	Mv	8/9/2006	32	4	2	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46I10-0234	749989.75	1006627	14	Mv	9/13/2006	14	4	8	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0004	749937.7865	1006750.456	832	Mv	8/16/2006	823	4	3	Cultural Debris	8/28/2006	Trash	-	-
46I12-0008	749982.25	1006855.75	361	Mv	8/16/2006	184	4	5	Cultural Debris	8/28/2006		-	-
46I12-0010	749908.5	1006759.5	253	Mv	8/16/2006	145	4	4	Cultural Debris	8/28/2006		-	-
46I12-0011	749757.75	1006992.25	209	Mv	8/16/2006	109	4	3	Cultural Debris	8/28/2006		Pass	KC
46I12-0014	749980.25	1006788.5	119	Mv	8/16/2006	62	4	4	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0019	749755	1006914.25	79	Mv	8/16/2006	38	4	2	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46I12-0023	749994.5	1006966.25	63	Mv	8/16/2006	35	4	4	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0026	749773.75	1006786	60	Mv	8/16/2006	31	4	5	Cultural Debris	8/28/2006	Trash	-	-
46I12-0031	749782	1006921.25	56	Mv	8/16/2006	24	4	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46I12-0033	749773.25	1006920	55	Mv	8/16/2006	28	4	4	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0034	749985.5	1006832	51	Mv	8/16/2006	27	4	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0063	749908.5	1006856.75	36	Mv	9/13/2006	36	4	6	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0114	749979.9782	1006987.076	23	Mv	9/13/2006	23	4	24	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46I12-0258	749985.75	1006992.5	12	Mv	9/13/2006	12	4	4	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	-
46I14-0011	749790	1007040	118	Mv	8/16/2006	61	4	7	Cultural Debris	8/24/2006		Pass	KC
46I14-0013	749793.5	1007048.25	107	Mv	8/16/2006	56	4	24	Cultural Debris	8/24/2006		Pass	KC
46I14-0015	749977	1007041.75	74	Mv	8/16/2006	38	4	2	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46I14-0019	749949	1007107.25	62	Mv	8/16/2006	32	4	6	Cultural Debris	8/24/2006		-	-
46I14-0020	749762.25	1007078.5	61	Mv	8/16/2006	33	4	8	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46I14-0024	749761	1007023.25	56	Mv	8/17/2006	29	4	15	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	Pass	KC
46I14-0028	749955	1007202.75	52	Mv	8/16/2006	23	4	12	Cultural Debris	8/24/2006		-	-
46I14-0029	749891.75	1007145.75	52	Mv	8/16/2006	54	4	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46I18-0007	749875.25	1007545	59	Mv	8/17/2006	34	4	5	Cultural Debris	8/22/2006	Trash	-	-
46I18-0018	749820	1007557.5	31	Mv	9/13/2006	31	4	24	Cultural Debris	9/25/2006		-	-
46K02-0002	750201	1005611.25	37548	Mv	8/14/2006	3600	4	20	Cultural Debris	9/5/2006	Fence post	-	-
46K02-0003	750231	1005637	5907	Mv	8/14/2006	3600	4	8	Cultural Debris	9/5/2006	Fene post	-	-
46K02-0035	750086.25	1005700.5	119	Mv	8/14/2006	75	4	11	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0048	750114.5	1005653.75	75	Mv	8/14/2006	105	4	7	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	-
46K02-0051	750165.75	1005678.5	66	Mv	8/14/2006	80	4	23	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0053	750108.5	1005611.75	64	Mv	8/14/2006	56	4	20	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	-
46K02-0059	750074	1005715.75	55	Mv	8/14/2006	62	4	14	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0061	750121.5	1005643	53	Mv	8/14/2006	25	4	8	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	-
46K02-0077	750112.25	1005663.75	37	Mv	9/13/2006	37	4	3	Munitions Debris	9/28/2006	Fare piece	-	-
46K04-0008	750223.75	1005980.25	1208	Mv	8/15/2006	666	4	4	Cultural Debris	8/30/2006	Trash	-	-
46K04-0010	750100	1005812.5	1100	Mv	8/15/2006	500	4	20	Cultural Debris	9/5/2006		-	-
46K04-0017	750163.75	1005971.25	564	Mv	8/15/2006	369	4	3	Cultural Debris	8/30/2006	Trash	-	-
46K04-0018	750088	1005899.75	506	Mv	8/15/2006	339	4	4	Munitions Debris	9/5/2006	slap flare	-	-

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46K04-0028	750098	1005897.25	294	Mv	8/15/2006	143	4	4	Cultural Debris	9/5/2006		-	
46K04-0030	750122.25	1005943.75	293	Mv	8/15/2006	152	4	7	Cultural Debris	9/5/2006		-	
46K04-0044	750162	1005932	206	Mv	8/15/2006	125	4	3	Cultural Debris	9/5/2006		-	
46K04-0046	750125.25	1005892.25	180	Mv	8/15/2006	111	4	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0049	750180	1005904.75	172	Mv	8/15/2006	113	4	4	Cultural Debris	8/31/2006	Trash	-	
46K04-0053	750161.25	1005787.5	162	Mv	8/15/2006	96	4	7	Cultural Debris	9/5/2006		Pass	KC
46K04-0057	750031.25	1005957.25	151	Mv	8/15/2006	52	4	14	Cultural Debris	9/5/2006		Pass	KC
46K04-0064	750003	1005967.5	132	Mv	8/15/2006	32	4	9	Cultural Debris	9/5/2006		-	
46K04-0067	750216.75	1005906	125	Mv	8/15/2006	68	4	2	Cultural Debris	8/30/2006	Trash	-	
46K04-0069	750186	1005942	122	Mv	8/15/2006	63	4	3	Cultural Debris	8/30/2006	Trash	-	
46K04-0070	750022.5	1005858.5	121	Mv	8/15/2006	62	4	18	Cultural Debris	9/5/2006		-	
46K04-0071	750152.25	1005785.5	120	Mv	8/15/2006	36	4	10	Cultural Debris	9/5/2006		-	
46K04-0081	750176.5	1005882.75	105	Mv	8/15/2006	28	4	4	Cultural Debris	8/31/2006	Trash	-	
46K04-0091	750021.5	1005986	97	Mv	8/15/2006	63	4	6	Cultural Debris	9/5/2006		Pass	KC
46K04-0092	750186.25	1005971.25	97	Mv	8/15/2006	69	4	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0096	750055.5	1005838	87	Mv	8/15/2006	70	4	5	Cultural Debris	9/5/2006		-	
46K04-0102	750178.5	1005933.5	85	Mv	8/15/2006	69	4	2	Cultural Debris	8/30/2006	Trash	-	
46K04-0107	750148.75	1005842.5	82	Mv	8/15/2006	69	4	3	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0110	750051.25	1005876	81	Mv	8/15/2006	62	4	3	Cultural Debris	9/5/2006		-	
46K04-0116	750147.75	1005986.5	78	Mv	8/15/2006	58	4	48	Cultural Debris	8/30/2006	Trash	-	
46K04-0124	750172.75	1005885.5	76	Mv	8/15/2006	45	4	9	Cultural Debris	8/31/2006	Trash	-	
46K04-0129	750226	1005870	73	Mv	8/15/2006	36	4	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0130	750157.75	1005804.5	72	Mv	8/15/2006	46	4	5	Cultural Debris	8/31/2006	Trash	-	
46K04-0131	750152.75	1005877.25	72	Mv	8/15/2006	37	4	4	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0132	750177.25	1005981.5	72	Mv	8/15/2006	36	4	9	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0154	750019.25	1005961.25	62	Mv	8/15/2006	35	4	18	Cultural Debris	9/5/2006		-	
46K04-0155	750217.25	1005893.25	62	Mv	8/15/2006	31	4	6	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0157	750151.25	1005885.25	61	Mv	8/15/2006	63	4	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0179	750166.5	1005893.75	53	Mv	8/15/2006	41	4	6	Cultural Debris	8/31/2006	Trash	-	
46K04-0189	750084.25	1005968.75	51	Mv	8/15/2006	26	4	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0270	750233.9465	1005858.82	38	Mv	9/13/2006	38	4	10	Munitions Debris	9/28/2006	Frag	-	
46K04-0829	750003.25	1005898.5	14	Mv	9/13/2006	14	4	15	Munitions Debris	9/28/2006	Flare piece	-	
46K06-0001	750136.5	1006139.25	1325	Mv	8/10/2006	890	4	2	Cultural Debris	8/29/2006	Survey stake	Pass	KC
46K06-0009	750144	1006123.25	307	Mv	8/10/2006	334	4	5	Cultural Debris	8/29/2006		-	
46K06-0010	750103.75	1006075.25	301	Mv	8/10/2006	154	4	5	Munitions Debris	8/29/2006	slap flare	Pass	KC
46K06-0025	750186.25	1006112.5	170	Mv	8/10/2006	104	4	2	Cultural Debris	8/29/2006		Pass	KC
46K06-0053	750121.75	1006025.5	85	Mv	8/10/2006	56	4	7	Cultural Debris	8/29/2006		-	
46K06-0088	750186.75	1006224.75	55	Mv	8/10/2006	25	4	3	Cultural Debris	8/29/2006		-	
46K06-0090	750030.25	1006072	55	Mv	8/10/2006	23	4	0	Cultural Debris	10/23/2006		-	
46K06-0093	750115.75	1006004.5	54	Mv	8/10/2006	41	4	5	Cultural Debris	8/29/2006		-	
46K06-0094	750188.25	1006114.75	54	Mv	8/10/2006	54	4	5	Cultural Debris	8/29/2006		Pass	KC
46K06-0096	750187.5	1006216.25	53	Mv	8/10/2006	58	4	3	Cultural Debris	8/29/2006		-	
46K06-0099	750076.25	1006116.25	52	Mv	8/10/2006	155	4	6	Cultural Debris	8/29/2006		-	
46K06-0146	750146.25	1006009.5	39	Mv	9/13/2006	39	4	24	Munitions Debris	9/28/2006	Frag	-	
46K08-0007	750077.25	1006265.5	107	Mv	8/17/2006	58	4	10	Munitions Debris	8/29/2006	projectile nose fuze	-	
46K08-0012	750022.75	1006392.5	76	Mv	8/9/2006	77	4	2	Cultural Debris	8/29/2006		-	
46K08-0014	750114.5	1006300	73	Mv	8/17/2006	39	4	9	Cultural Debris	8/28/2006	Trash	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46K08-0023	750036.5	1006265.25	48	Mv	9/13/2006	48	4	12	Munitions Debris	9/28/2006	Frag	-	
46K08-0080	750079	1006375.5	24	Mv	9/13/2006	24	4	2	Munitions Debris	9/28/2006	Frag	-	
46K10-0004	750107	1006629.75	103	Mv	8/9/2006	39	4	6	Cultural Debris	8/28/2006	Trash	-	
46K10-0013	750094.5	1006531.75	45	Mv	9/13/2006	45	4	24	Cultural Debris	9/28/2006		-	
46K10-0036	750029.25	1006565	26	Mv	9/13/2006	26	4	2	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46M02-0001	750264	1005659.75	2142	Mv	8/14/2006	2100	4	12	Cultural Debris	9/6/2006	Fence post	-	
46M02-0005	750279.75	1005672.75	795	Mv	8/14/2006	565	4	6	Cultural Debris	9/6/2006		-	
46M02-0013	750278	1005700	134	Mv	8/14/2006	79	4	8	Cultural Debris	9/6/2006		-	
46M02-0031	750250	1005735.25	51	Mv	8/14/2006	132	4	18	Cultural Debris	9/6/2006		Pass	KC
46M02-0046	750308.75	1005711.5	25	Mv	9/13/2006	25	4	18	Munitions Debris	9/28/2006	Frag	-	
46M04-0010	750364	1005807.25	1224	Mv	8/14/2006	699	4	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0014	750307	1005762.5	763	Mv	8/14/2006	325	4	4	Cultural Debris	8/30/2006	Trash	-	
46M04-0016	750347.25	1005838.75	701	Mv	8/14/2006	454	4	5	Munitions Debris	8/30/2006	Slapflare	-	
46M04-0017	750428.25	1005813.75	562	Mv	8/14/2006	105	4	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0024	750414.75	1005794	352	Mv	8/14/2006	201	4	3	Munitions Debris	8/30/2006	Slapflare	-	
46M04-0058	750290.5	1005852.25	96	Mv	8/14/2006	39	4	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0062	750292.75	1005885.5	86	Mv	8/14/2006	79	4	3	Cultural Debris	8/30/2006	Trash	-	
46M04-0064	750262.1064	1005784.747	81	Mv	8/14/2006	39	4	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0068	750257.5	1005909.5	76	Mv	8/14/2006	32	4	6	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0071	750408.25	1005764.75	70	Mv	8/14/2006	39	4	4	Cultural Debris	8/30/2006	Trash	-	
46M04-0080	750266.5	1005926	60	Mv	8/14/2006	23	4	4	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0082	750278	1005868	56	Mv	8/14/2006	23	4	4	Cultural Debris	8/30/2006	Trash	-	
46M04-0087	750253.5	1005892.75	54	Mv	8/14/2006	23	4	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M06-0002	750300	1006034.25	871	Mv	8/16/2006	153	4	5	Munitions Debris	8/30/2006	Slapflare	-	
46M06-0003	750327	1006003.75	364	Mv	8/16/2006	158	4	3	Munitions Debris	8/30/2006	Slapflare	-	
46A16-0018	748927	1007344.25	679	Mv	8/16/2006	375	3	18	Cultural Debris	8/23/2006	Trash	-	
46A16-0030	748944.75	1007329.25	305	Mv	8/16/2006	153	3	10	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0071	748876	1007493.25	78	Mv	8/16/2006	36	3	7	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0082	748951.75	1007451.5	57	Mv	8/16/2006	29	3	20	Munitions Debris	8/23/2006	Frag	Pass	KC
46A16-0092	748976.75	1007497	46	Mv	9/13/2006	46	3	10	Munitions Debris	9/25/2006	Small Arms, .50 cal head	-	
46A18-0026	748997	1007536	170	Mv	8/16/2006	69	3	2	Cultural Debris	8/22/2006		Pass	KC
46A18-0029	749000	1007516.5	157	Mv	8/16/2006	74	3	4	Cultural Debris	10/25/2006	Wire	Pass	KC
46A18-0035	748927.75	1007587.75	135	Mv	8/16/2006	68	3	20	Munitions Debris	8/22/2006	M-48 series fuze	-	
46A18-0050	748936.5	1007512.5	65	Mv	8/16/2006	65	3	8	Munitions Debris	8/22/2006	20 mm piece	Pass	KC
46C08-0002	749248.25	1006396	355	Mv	8/16/2006	223	3	6	Cultural Debris	9/26/2006	Plow piece	-	
46C10-0004	749225	1006597.75	51	Mv	8/16/2006	26	3	4	Cultural Debris	8/28/2006		-	
46C10-0031	749234.25	1006611	11	Mv	9/13/2006	11	3	4	Cultural Debris	9/25/2006	Wire	Pass	KC
46C16-0006	749025.42	1007381.44	106	Mv	8/21/2006	53	3	30	Cultural Debris	8/23/2006	Trash	-	
46C18-0004	749014.4461	1007601.531	443	Mv	8/21/2006	538	3	10	Cultural Debris	8/22/2006	Trash	Pass	KC
46C18-0006	749156.25	1007550.25	307	Mv	8/21/2006	150	3	0	Cultural Debris	10/25/2006	Wire	Pass	KC
46C18-0008	749019	1007600.5	250	Mv	8/21/2006	125	3	14	Cultural Debris	8/22/2006	Chain pieces	Pass	KC
46C18-0010	749057.25	1007613	160	Mv	8/21/2006	125	3	10	Cultural Debris	8/22/2006	Trash	Pass	KC
46C18-0012	749097.25	1007629.25	130	Mv	8/21/2006	62	3	24	Munitions Debris	8/22/2006	Frag	Pass	KC
46C18-0019	749118.25	1007600	85	Mv	8/21/2006	40	3	18	Cultural Debris	8/22/2006	Trash	Pass	KC
46C18-0024	749124.5	1007573.5	72	Mv	8/21/2006	39	3	7	Cultural Debris	8/22/2006	Trash	Pass	KC
46C18-0029	749142.5	1007553.25	63	Mv	8/21/2006	32	3	2	Cultural Debris	8/22/2006		-	
46C18-0031	749165.5464	1007540.976	59	Mv	8/21/2006	25	3	14	Cultural Debris	8/23/2006	Bucket handle	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46E08-0005	749397.5	1006335	710	Mv	8/21/2006	354	3	5	Munitions Debris	8/29/2006	Slap flare piece	Pass	KC
46E08-0014	749395.75	1006367.75	384	Mv	8/21/2006	190	3	20	Munitions Debris	8/29/2006	2,36 warhead [practice]	Pass	KC
46E08-0016	749437.5	1006454.25	367	Mv	8/21/2006	160	3	10	Munitions Debris	8/29/2006	Slap flare	Pass	KC
46E08-0022	749450.5	1006367.25	256	Mv	8/21/2006	120	3	9	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0033	749410.75	1006496.25	86	Mv	8/21/2006	30	3	5	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0034	749500	1006362.5	82	Mv	8/21/2006	31	3	20	Cultural Debris	8/29/2006	Wire	-	
46E08-0040	749451.75	1006375.25	75	Mv	8/21/2006	35	3	8	Cultural Debris	8/29/2006	Trash	Pass	KC
46E08-0053	749498.5	1006464.75	43	Mv	9/13/2006	43	3	36	Munitions Debris	9/26/2006	100 series fuze piece	-	
46E10-0014	749281.25	1006723.75	111	Mv	8/10/2006	188	3	6	Cultural Debris	8/28/2006	Trash	-	
46E10-0015	749332.5	1006613.25	110	Mv	8/21/2006	59	3	4	Munitions Debris	8/28/2006	Small Arms, 3 digs, 3 ea 50 cal heads	Pass	KC
46E10-0016	749333	1006621.25	109	Mv	8/21/2006	61	3	8	Munitions Debris	8/28/2006	Small Arms, 2 digs, 2 ea 50cal heads	Pass	KC
46E10-0026	749400	1006664.5	52	Mv	8/21/2006	29	3	20	Cultural Debris	8/28/2006	Trash	Pass	KC
46E12-0009	749389.5	1006972.5	90	Mv	8/21/2006	45	3	14	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0010	749387.5	1006985	87	Mv	8/21/2006	30	3	14	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0013	749427.5	1006964.25	84	Mv	8/21/2006	30	3	20	Munitions Debris	8/24/2006	Small Arms, two .50 cal heads	Pass	KC
46E12-0016	749379.5	1006927.5	72	Mv	8/21/2006	32	3	8	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0018	749446.25	1006964	72	Mv	8/21/2006	35	3	15	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0021	749380	1006905	63	Mv	8/21/2006	30	3	9	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0023	749445.75	1006989.25	63	Mv	8/21/2006	30	3	20	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0024	749425.25	1006974.25	63	Mv	8/21/2006	30	3	10	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0026	749353.25	1006894.25	59	Mv	8/21/2006	26	3	17	Munitions Debris	8/24/2006	Small Arms, .50 cal head	-	
46E12-0030	749411	1006997.25	57	Mv	8/21/2006	25	3	8	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0034	749487.25	1006997.75	51	Mv	8/21/2006	25	3	6	Cultural Debris	8/24/2006	Como wire	Pass	KC
46E12-0035	749422.75	1006995.25	51	Mv	8/21/2006	25	3	18	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0041	749347.25	1006883.5	48	Mv	9/13/2006	48	3	2	Munitions Debris	9/25/2006	Small Arms, .50 cal head	-	
46E12-0052	749458.25	1006925.5	42	Mv	9/13/2006	44	3	15	Munitions Debris	9/25/2006	Small Arms, .50 cal head	-	
46E12-0065	749436.25	1006907.25	35	Mv	9/13/2006	35	3	26	Munitions Debris	9/25/2006	Small Arms, .50 cal head	-	
46E12-0126	749450	1006980	23	Mv	9/13/2006	23	3	19	Munitions Debris	9/25/2006	Small Arms, .50 cal head	-	
46E14-0028	749478.5	1007064.5	150	Mv	8/21/2006	75	3	10	Cultural Debris	8/24/2006	Chain piece 8 links and 14in piece of wire	Pass	KC
46E14-0030	749493.875	1007075.875	146	Mv	8/21/2006	72	3	6	Munitions Debris	8/23/2006	Small Arms, .50 cal head	-	
46E14-0034	749473.5	1007075.5	122	Mv	8/21/2006	63	3	3	Cultural Debris	9/28/2006		-	
46E14-0045	749499	1007068.5	69	Mv	8/21/2006	34	3	8	Munitions Debris	8/23/2006	Small Arms, two .50 cal. Heads	Pass	KC
46E14-0048	749469	1007003.25	64	Mv	8/21/2006	53	3	6	Cultural Debris	8/24/2006	Nails	Pass	KC
46E14-0051	749484	1007121.75	60	Mv	8/21/2006	30	3	18	Hot Soil	8/23/2006		-	
46E14-0052	749497.25	1007086	59	Mv	8/21/2006	32	3	8	Cultural Debris	8/23/2006	Wire	-	
46E14-0054	749454	1007006	57	Mv	8/21/2006	29	3	14	Munitions Debris	8/24/2006	Small Arms, two .50 cal head	Pass	KC
46E14-0096	749480	1007036	36	Mv	9/13/2006	36	3	5	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46E16-0019	749419.25	1007300	4784	Mv	8/21/2006	2345	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0022	749430	1007313.5	1111	Mv	8/21/2006	555	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0026	749488.75	1007284.75	193	Mv	8/21/2006	108	3	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0028	749500	1007316.75	96	Mv	8/21/2006	46	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0030	749473.75	1007321.5	78	Mv	8/21/2006	36	3	3	Cultural Debris	8/22/2006	Trash	-	
46E16-0031	749430.75	1007379.5	76	Mv	8/21/2006	42	3	5	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0035	749435.1435	1007288.718	61	Mv	8/21/2006	30	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0039	749450.25	1007370	44	Mv	9/13/2006	44	3	18	Cultural Debris	9/25/2006		-	
46E16-0040	749449.7306	1007292.198	40	Mv	9/13/2006	40	3	16	Munitions Debris	9/25/2006	Frag	-	
46E16-0049	749440.1324	1007341.2	31	Mv	9/13/2006	31	3	24	Munitions Debris	9/25/2006	Frag	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46E20-0004	749404.75	1007757.5	52	Mv	8/21/2006	27	3	14	Cultural Debris	8/22/2006	Trash	-	
46G04-0002	749726.25	1005945.75	919	Mv	8/15/2006	468	3	18	Munitions Debris	8/30/2006	Flare piece	-	
46G04-0003	749729.4279	1005946.735	446	Mv	8/15/2006	276	3	18	Munitions Debris	8/30/2006	Same as #2 Flare piece	-	
46G04-0004	749608	1005971.25	288	Mv	8/15/2006	151	3	24	Cultural Debris	8/30/2006		-	
46G04-0007	749672	1005914.25	97	Mv	8/15/2006	51	3	20	Munitions Debris	8/30/2006	Flare piece	-	
46G04-0009	749657.75	1005952.5	79	Mv	8/15/2006	39	3	10	Munitions Debris	8/30/2006	Flare piece	-	
46G04-0011	749702	1005906.25	73	Mv	8/15/2006	39	3	24	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0031	749656	1006141.25	362	Mv	8/10/2006	152	3	10	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0035	749577.25	1006173	333	Mv	8/10/2006	153	3	12	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0043	749644.25	1006150.25	291	Mv	8/10/2006	152	3	15	Cultural Debris	8/29/2006	Trash	Pass	KC
46G06-0064	749664	1006226.5	170	Mv	8/10/2006	150	3	20	Munitions Debris	8/30/2006	Frag	Pass	KC
46G06-0073	749596.25	1006153.75	120	Mv	8/14/2006	53	3	3	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0075	749725.75	1006091.5	110	Mv	8/10/2006	55	3	10	Munitions Debris	8/30/2006	Flare piece 2 pieces	-	
46G06-0076	749667.75	1006065.75	95	Mv	8/10/2006	132	3	8	Cultural Debris	8/30/2006	Bolt and a flare piece 2 digs	-	
46G06-0079	749738.5	1006000.5	84	Mv	8/10/2006	52	3	4	Munitions Debris	8/30/2006	Flare piece	-	
46G06-0080	749726.25	1006124.25	84	Mv	8/10/2006	64	3	7	Cultural Debris	8/30/2006	Chain pieces	-	
46G06-0095	749631.5	1006215	56	Mv	8/10/2006	87	3	5	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0098	749645.75	1006233.75	52	Mv	8/10/2006	58	3	9	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0100	749745	1006234.25	51	Mv	8/10/2006	53	3	12	Cultural Debris	8/30/2006	Wire chopped up by mower	-	
46G06-0101	749741.75	1006233.5	50	Mv	8/10/2006	56	3	17	Cultural Debris	8/30/2006	Wire chopped up by mower	-	
46G08-0003	749550.5	1006408.75	1528	Mv	8/16/2006	753	3	16	Cultural Debris	8/29/2006	Large bolt w/washers and nut	Pass	KC
46G08-0012	749595.75	1006355	517	Mv	8/16/2006	371	3	24	Munitions Debris	8/29/2006	Frag, Same as #16	Pass	KC
46G08-0016	749597.25	1006352.5	346	Mv	8/16/2006	154	3	20	Munitions Debris	8/29/2006	Frag	Pass	KC
46G08-0022	749627	1006437.25	190	Mv	8/16/2006	96	3	18	Cultural Debris	8/29/2006		Pass	KC
46G08-0028	749578.75	1006402.5	146	Mv	8/16/2006	123	3	12	Cultural Debris	8/29/2006		Pass	KC
46G08-0032	749658	1006466.25	94	Mv	8/16/2006	53	3	6	Munitions Debris	8/29/2006	Flare piece	-	
46G08-0037	749568	1006437.75	78	Mv	8/16/2006	36	3	8	Cultural Debris	8/29/2006	Nail	Pass	KC
46G08-0041	749625.5	1006440	72	Mv	8/16/2006	58	3	12	Cultural Debris	8/29/2006		Pass	KC
46G08-0045	749661.75	1006477.5	65	Mv	8/16/2006	50	3	10	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46G08-0049	749642.5	1006410.25	63	Mv	8/16/2006	39	3	6	Munitions Debris	8/29/2006	Small Arms, .50 cal head	Pass	KC
46G08-0050	749618.25	1006318.75	61	Mv	8/16/2006	45	3	4	Cultural Debris	8/29/2006	Wire	Pass	KC
46G08-0051	749616.25	1006313.75	61	Mv	8/16/2006	33	3	16	Cultural Debris	8/29/2006	Wire	Pass	KC
46G08-0052	749566	1006408	60	Mv	8/16/2006	33	3	9	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0055	749623.5	1006439	58	Mv	8/16/2006	56	3	20	Cultural Debris	8/29/2006		Pass	KC
46G08-0056	749566.25	1006484.5	57	Mv	8/16/2006	53	3	20	Cultural Debris	8/29/2006		Pass	KC
46G08-0060	749667	1006312.25	56	Mv	8/16/2006	33	3	14	Cultural Debris	10/26/2006	Wire	-	
46G10-0015	749522.25	1006551.75	612	Mv	8/21/2006	350	3	24	Cultural Debris	8/28/2006	Trash	-	
46G10-0020	749610	1006516.5	375	Mv	8/21/2006	182	3	12	Cultural Debris	8/28/2006	Tent peg	Pass	KC
46G10-0024	749741.75	1006631.75	227	Mv	8/21/2006	126	3	18	Cultural Debris	8/28/2006	Same as #29	Pass	KC
46G10-0028	749739.25	1006631.5	160	Mv	8/21/2006	86	3	18	Cultural Debris	8/28/2006	Same as #26	Pass	KC
46G10-0029	749742.75	1006630	144	Mv	8/21/2006	78	3	18	Cultural Debris	8/28/2006		Pass	KC
46G10-0030	749505.5	1006613.25	138	Mv	8/21/2006	74	3	18	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0033	749722	1006727.75	126	Mv	8/21/2006	76	3	10	Munitions Debris	8/28/2006	Frag	Pass	KC
46G10-0036	749664	1006692.75	117	Mv	8/21/2006	59	3	6	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46G10-0040	749714.75	1006527.25	110	Mv	8/21/2006	53	3	5	Munitions Debris	8/28/2006	Flare piece	Pass	KC
46G10-0046	749716.25	1006521	89	Mv	8/21/2006	49	3	4	Munitions Debris	8/28/2006	Flare piece	Pass	KC
46G10-0049	749728.5	1006747.25	75	Mv	8/21/2006	43	3	8	Munitions Debris	8/28/2006	Small Arms, .50 cal head and a piece of aluminum	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G10-0051	749720	1006591.25	71	Mv	8/21/2006	41	3	30	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46G10-0053	749583.5	1006520.25	67	Mv	8/21/2006	32	3	10	Cultural Debris	8/28/2006		Pass	KC
46G10-0056	749525	1006516.25	62	Mv	8/21/2006	39	3	24	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0058	749730.5	1006554	60	Mv	8/21/2006	36	3	12	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46G10-0061	749716.5	1006733	54	Mv	8/21/2006	36	3	6	Cultural Debris	8/28/2006	M-2 fuze lighter	Pass	KC
46G10-0062	749701.25	1006731.25	54	Mv	8/21/2006	29	3	2	Munitions Debris	8/28/2006	Frag	-	
46G10-0066	749732.25	1006592	50	Mv	8/21/2006	38	3	4	Munitions Debris	8/28/2006	Flare piece	Pass	KC
46G12-0008	749559.25	1006765.5	1010	Mv	8/21/2006	562	3	3	Cultural Debris	8/28/2006		Pass	KC
46G12-0012	749727.5	1006779.75	196	Mv	8/21/2006	94	3	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0017	749606	1006838	105	Mv	8/21/2006	54	3	6	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0018	749605.5	1006903	90	Mv	8/21/2006	50	3	5	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0019	749687.75	1006982.5	75	Mv	8/21/2006	27	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	
46G12-0023	749626.75	1006861	67	Mv	8/21/2006	37	3	48	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0024	749560	1006923.25	66	Mv	8/21/2006	32	3	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0025	749606.5	1006937.75	65	Mv	8/21/2006	41	3	48	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0026	749698.25	1006815.5	64	Mv	8/21/2006	34	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0029	749685.75	1006849	61	Mv	8/21/2006	39	3	5	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0030	749692.5	1006762.75	61	Mv	8/21/2006	29	3	4	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0031	749581	1006958.5	59	Mv	8/21/2006	36	3	5	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0033	749645	1006892.25	57	Mv	8/21/2006	28	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0038	749685.75	1006838.75	52	Mv	8/21/2006	32	3	5	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0039	749550.5	1006961.75	51	Mv	8/21/2006	41	3	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0040	749598	1006970	50	Mv	8/21/2006	29	3	5	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G12-0137	749715.5	1006997.25	30	Mv	9/13/2006	30	3	6	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46G12-0339	749708.25	1006797.5	17	Mv	9/13/2006	17	3	2	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0007	749695.25	1007107.75	364	Mv	8/16/2006	178	3	5	Munitions Debris	8/22/2006	M-66 smoke pieces	Pass	KC
46G14-0008	749536	1007105	342	Mv	8/16/2006	210	3	14	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0011	749537	1007115.75	307	Mv	8/17/2006	154	3	0	Cultural Debris	10/23/2006	Scrap metal	-	
46G14-0015	749548.5	1007148.75	270	Mv	8/17/2006	145	3	12	Cultural Debris	8/24/2006		-	
46G14-0019	749596	1007137	239	Mv	8/17/2006	128	3	5	Cultural Debris	8/23/2006		-	
46G14-0028	749566.75	1007155.75	149	Mv	8/17/2006	78	3	8	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0035	749553.25	1007105.25	128	Mv	8/17/2006	71	3	6	Cultural Debris	8/24/2006	Trash	-	
46G14-0038	749572.75	1007142.5	113	Mv	8/16/2006	61	3	7	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0040	749515	1007037.25	104	Mv	8/16/2006	59	3	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	Pass	KC
46G14-0041	749718	1007139	102	Mv	8/16/2006	53	3	4	Munitions Debris	8/22/2006	Small Arms, brass pieces	Pass	KC
46G14-0048	749572	1007125.75	91	Mv	8/17/2006	51	3	4	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0049	749706.5	1007100.25	90	Mv	8/16/2006	49	3	8	Cultural Debris	8/22/2006	Trash	Pass	KC
46G14-0051	749558	1007246.875	86	Mv	8/17/2006	42	3	4	Cultural Debris	8/23/2006	Wire	Pass	KC
46G14-0052	749527.25	1007092.5	85	Mv	8/16/2006	51	3	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0054	749706.25	1007068	81	Mv	8/16/2006	45	3	8	Cultural Debris	8/22/2006	Trash	-	
46G14-0056	749565	1007149.5	81	Mv	8/17/2006	45	3	10	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0060	749679	1007141.5	79	Mv	8/16/2006	42	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G14-0068	749571	1007238.25	74	Mv	8/17/2006	47	3	5	Cultural Debris	8/23/2006	Wire	Pass	KC
46G14-0070	749583.75	1007099	73	Mv	8/16/2006	41	3	14	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0077	749623.75	1007198	71	Mv	8/17/2006	34	3	8	Munitions Debris	8/23/2006	Small Arms, brass pieces	-	
46G14-0080	749600	1007048.75	69	Mv	8/16/2006	43	3	6	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0082	749591.75	1007208.5	68	Mv	8/17/2006	40	3	6	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G14-0084	749546.75	1007127.5	68	Mv	8/17/2006	32	3	8	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0086	749704.5	1007064	67	Mv	8/16/2006	38	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G14-0087	749622.75	1007221.5	66	Mv	8/17/2006	38	3	4	Cultural Debris	8/23/2006		-	
46G14-0088	749539.5	1007133.25	66	Mv	8/17/2006	30	3	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0089	749503	1007071.5	66	Mv	8/16/2006	36	3	2	Cultural Debris	8/24/2006	Trash	-	
46G14-0093	749524.25	1007087.25	63	Mv	8/16/2006	37	3	2	Cultural Debris	8/24/2006		-	
46G14-0102	749509	1007021.25	61	Mv	8/16/2006	33	3	3	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0104	749700.25	1007135.25	61	Mv	8/16/2006	36	3	3	Cultural Debris	8/22/2006	Trash	-	
46G14-0114	749679	1007058.75	59	Mv	8/16/2006	30	3	9	Cultural Debris	8/22/2006	Trash	Pass	KC
46G14-0118	749737	1007084.5	58	Mv	8/16/2006	31	3	2	Cultural Debris	8/22/2006	Trash	-	
46G14-0127	749514.75	1007077.25	57	Mv	8/16/2006	31	3	2	Cultural Debris	8/24/2006	Trash	-	
46G14-0129	749579.25	1007100.25	57	Mv	8/16/2006	30	3	10	Munitions Debris	8/23/2006	Small Arms, brass pieces	Pass	KC
46G14-0138	749500.25	1007093.25	54	Mv	8/17/2006	29	3	2	Cultural Debris	8/24/2006	Trash	-	
46G14-0141	749542.5	1007081	54	Mv	8/16/2006	26	3	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0144	749541.75	1007084	53	Mv	8/16/2006	31	3	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0146	749510.5	1007017.75	53	Mv	8/16/2006	30	3	5	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46G14-0147	749714.9035	1007134.866	52	Mv	8/16/2006	29	3	4	Munitions Debris	8/22/2006	Small Arms, brass	Pass	KC
46G14-0149	749661.5	1007057.25	52	Mv	8/16/2006	29	3	4	Munitions Debris	8/23/2006	Small Arms, brass	Pass	KC
46G14-0150	749529.5	1007022.5	52	Mv	8/16/2006	27	3	4	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0153	749538.75	1007020	51	Mv	8/16/2006	29	3	5	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0164	749608.75	1007101.25	50	Mv	8/16/2006	28	3	6	Munitions Debris	8/23/2006	Small Arms, brass	Pass	KC
46G14-0182	749709	1007069.25	47	Mv	9/13/2006	47	3	24	Cultural Debris	9/28/2006		-	
46G16-0009	749504	1007315.5	138	Mv	8/17/2006	76	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0010	749534.5	1007255.75	127	Mv	8/17/2006	68	3	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0012	749569.75	1007304.25	100	Mv	8/17/2006	51	3	4	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0013	749679.5	1007254.25	99	Mv	8/17/2006	57	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0018	749544.75	1007339.75	76	Mv	8/17/2006	41	3	2	Cultural Debris	8/22/2006	Trash	-	
46G16-0019	749727.5	1007259	74	Mv	8/17/2006	39	3	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0020	749636.5	1007329.25	70	Mv	8/17/2006	37	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0026	749610.75	1007390.25	57	Mv	8/17/2006	31	3	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0029	749618.5	1007386.25	55	Mv	8/17/2006	30	3	6	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0048	749724.75	1007430.25	35	Mv	9/13/2006	35	3	18	Munitions Debris	9/25/2006	Small Arms, .50 cal pieces	-	
46I04-0012	749878.75	1005839.25	275	Mv	8/15/2006	143	3	6	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46I04-0014	749998.5	1005896.75	216	Mv	8/15/2006	105	3	6	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0017	749849.5	1005820.5	204	Mv	8/15/2006	101	3	8	Cultural Debris	8/31/2006	Wire	-	
46I04-0022	749923.5	1005810.25	162	Mv	8/15/2006	84	3	30	Munitions Debris	9/5/2006	Frag	-	
46I04-0026	749796.75	1005948.75	114	Mv	8/15/2006	59	3	9	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0033	749770	1005911.25	86	Mv	8/15/2006	45	3	8	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0035	749998.5	1005973.75	81	Mv	8/15/2006	67	3	8	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0038	749881	1005850.25	78	Mv	8/15/2006	39	3	10	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46I04-0043	749981.5	1005887.5	71	Mv	8/15/2006	36	3	11	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0051	749991.5	1005906.75	61	Mv	8/15/2006	37	3	6	Munitions Debris	8/31/2006	Frag	-	
46I04-0056	749926.25	1005810.25	60	Mv	8/15/2006	30	3	8	Munitions Debris	9/5/2006	Frag	-	
46I04-0061	749875.75	1005995.75	56	Mv	8/15/2006	27	3	5	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0063	749998.5	1005891	55	Mv	8/15/2006	30	3	10	Munitions Debris	8/31/2006	M-2 igniter	Pass	KC
46I04-0065	749999	1005883.5	54	Mv	8/15/2006	36	3	5	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0069	749849.5	1005912.25	50	Mv	8/15/2006	23	3	6	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46106-0012	749915.5	1006161.5	230	Mv	8/10/2006	55	3	20	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46106-0016	749874.25	1006182.75	139	Mv	8/10/2006	63	3	14	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46106-0018	749871.5	1006036	121	Mv	8/10/2006	65	3	8	Munitions Debris	8/30/2006	Frag	-	-
46106-0023	749800	1006236	110	Mv	8/10/2006	99	3	6	Munitions Debris	8/30/2006	Frag	-	-
46106-0024	749970.75	1006100.25	104	Mv	8/10/2006	52	3	15	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46106-0026	749793.5	1006103	102	Mv	8/10/2006	62	3	18	Munitions Debris	8/30/2006	Frag	Pass	KC
46106-0033	749838.5	1006198.5	91	Mv	8/10/2006	88	3	6	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46106-0035	749896.25	1006078.75	79	Mv	8/10/2006	74	3	6	Munitions Debris	8/30/2006	Frag	-	-
46106-0037	749812.5	1006069.5	78	Mv	8/10/2006	45	3	12	Munitions Debris	8/30/2006	Frag	-	-
46106-0044	749958.75	1006069	71	Mv	8/10/2006	34	3	5	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	-
46106-0054	749800.75	1006106	59	Mv	8/10/2006	64	3	24	Cultural Debris	8/30/2006		Pass	KC
46106-0060	749858.25	1006011	55	Mv	8/10/2006	58	3	15	Munitions Debris	8/30/2006	Frag	-	-
46106-0063	749923.5	1006181.5	54	Mv	8/10/2006	45	3	24	Munitions Debris	8/31/2006	Frag	Pass	KC
46106-0064	749838	1006230.75	53	Mv	8/10/2006	58	3	12	Munitions Debris	8/30/2006	Frag	-	-
46106-0065	749779	1006213.25	53	Mv	8/10/2006	53	3	14	Munitions Debris	8/30/2006	Frag	-	-
46108-0010	749757.5	1006254.25	423	Mv	8/21/2006	241	3	5	Cultural Debris	8/28/2006	Trash	-	-
46108-0013	749762.75	1006251.25	257	Mv	8/21/2006	134	3	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46108-0018	749799.5	1006416.5	119	Mv	8/17/2006	54	3	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46108-0027	749792.25	1006381.75	90	Mv	8/17/2006	46	3	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46108-0055	749980.25	1006252.5	35	Mv	9/13/2006	35	3	12	Munitions Debris	9/28/2006	Flare piece	-	-
46110-0012	749789.5	1006687.5	253	Mv	8/9/2006	53	3	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0013	749922.25	1006632.5	251	Mv	8/9/2006	125	3	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0015	749782.375	1006543.125	201	Mv	8/15/2006	102	3	4	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0016	749981.5	1006710.25	197	Mv	8/9/2006	115	3	2	Cultural Debris	8/28/2006		-	-
46110-0017	749937.5	1006728	196	Mv	8/15/2006	100	3	5	Cultural Debris	8/28/2006	Trash	-	-
46110-0019	749765.5	1006720.75	160	Mv	8/9/2006	69	3	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0021	749918.6255	1006639.567	144	Mv	8/9/2006	33	3	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0029	749935	1006650.25	85	Mv	8/9/2006	45	3	2	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46110-0030	749791.25	1006744.75	80	Mv	8/15/2006	42	3	4	Cultural Debris	8/28/2006	Trash	-	-
46110-0034	749990.75	1006704.25	67	Mv	8/9/2006	32	3	2	Cultural Debris	8/28/2006	Trash	-	-
46110-0035	749904.25	1006538.75	64	Mv	8/9/2006	52	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46110-0036	749990.25	1006708.5	63	Mv	8/9/2006	34	3	4	Cultural Debris	8/28/2006	Trash	-	-
46110-0037	749999.75	1006623	62	Mv	8/9/2006	62	3	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0039	749889.25	1006647.25	59	Mv	8/9/2006	33	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46110-0040	749960	1006584	56	Mv	8/9/2006	42	3	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0042	749751.75	1006597	53	Mv	8/10/2006	33	3	1	Cultural Debris	8/28/2006	Trash	Pass	KC
46110-0044	749987	1006708	52	Mv	8/9/2006	26	3	2	Cultural Debris	8/28/2006	Trash	-	-
46110-0045	749892.5	1006658	51	Mv	8/9/2006	23	3	5	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46112-0006	749897.25	1006787	510	Mv	8/16/2006	274	3	5	Cultural Debris	8/28/2006		-	-
46112-0009	749764.25	1006836.5	341	Mv	8/16/2006	302	3	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46112-0015	749759.5	1006823.75	88	Mv	8/21/2006	45	3	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46112-0024	749980	1006990.25	62	Mv	8/16/2006	33	3	2	Cultural Debris	8/28/2006	Trash	-	-
46112-0025	749755.25	1006796.5	61	Mv	8/16/2006	32	3	4	Cultural Debris	8/28/2006	Trash	Pass	KC
46112-0027	749760.75	1006989	57	Mv	8/16/2006	26	3	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46112-0029	749758	1006962	57	Mv	8/16/2006	23	3	5	Cultural Debris	8/28/2006	Trash	Pass	KC
46112-0030	749756.5	1006910	57	Mv	8/16/2006	29	3	4	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-
46112-0032	749973.5	1006832.5	55	Mv	8/16/2006	29	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	-

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46I12-0035	749987.75	1006894	50	Mv	8/16/2006	27	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	
46I14-0017	749782.75	1007005.75	64	Mv	8/16/2006	39	3	15	Cultural Debris	8/24/2006		-	
46I14-0030	749771.5	1007078.75	49	Mv	9/13/2006	49	3	16	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46I14-0086	749923.5	1007014.5	20	Mv	9/13/2006	20	3	24	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46I14-0120	749752.25	1007036.5	16	Mv	9/13/2006	16	3	8	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	-	
46I16-0004	749917.75	1007341	154	Mv	8/17/2006	80	3	3	Cultural Debris	8/22/2006	Trash	-	
46I16-0005	749944.5	1007337	83	Mv	8/17/2006	51	3	3	Cultural Debris	8/22/2006	Trash	-	
46I16-0006	749989.5	1007251.75	76	Mv	8/17/2006	36	3	2	Cultural Debris	8/22/2006	Trash	-	
46I16-0007	749815	1007478.5	60	Mv	8/17/2006	37	3	2	Cultural Debris	8/22/2006	Trash	-	
46I16-0008	749798.75	1007438.5	57	Mv	8/17/2006	27	3	6	Cultural Debris	8/22/2006	Trash	-	
46I16-0055	749839	1007479.25	21	Mv	9/13/2006	21	3	15	Cultural Debris	9/25/2006		-	
46I16-0100	749834.25	1007466	13	Mv	9/13/2006	13	3	20	Cultural Debris	9/25/2006		-	
46I18-0004	749842	1007504.5	114	Mv	8/17/2006	62	3	3	Cultural Debris	8/22/2006	Trash	-	
46K02-0011	750150.25	1005718.75	722	Mv	8/14/2006	633	3	24	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0015	750203.5	1005676.75	490	Mv	8/14/2006	332	3	22	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0017	750168.75	1005727	357	Mv	8/14/2006	176	3	15	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0023	750090.25	1005725.25	207	Mv	8/14/2006	139	3	18	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0026	750018.5	1005644	178	Mv	8/14/2006	123	3	15	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0031	750070.25	1005637.5	136	Mv	8/14/2006	96	3	20	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0034	750141.5	1005684.75	126	Mv	8/14/2006	116	3	9	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0036	750129	1005750	108	Mv	8/14/2006	280	3	6	Cultural Debris	9/5/2006		Pass	KC
46K02-0037	750001	1005713.25	107	Mv	8/14/2006	96	3	14	Cultural Debris	9/5/2006	Scrap metal	Pass	KC
46K02-0045	750033	1005698.75	85	Mv	8/14/2006	93	3	11	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0047	750131.25	1005739.75	76	Mv	8/14/2006	68	3	14	Cultural Debris	8/31/2006	Trash	Pass	KC
46K02-0049	750147.75	1005734.5	73	Mv	8/14/2006	56	3	8	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0054	750079.25	1005624	62	Mv	8/14/2006	46	3	30	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0055	750241.5	1005708.5	58	Mv	8/14/2006	51	3	20	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K02-0058	750177.75	1005685	55	Mv	8/14/2006	74	3	15	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	Pass	KC
46K04-0015	750103.75	1005819.25	659	Mv	8/15/2006	369	3	3	Cultural Debris	8/30/2006	Trash	-	
46K04-0023	750131.25	1005772.25	367	Mv	8/15/2006	216	3	8	MPPEH	9/5/2006	M-27 candle	-	
46K04-0035	750210.5	1005969.75	242	Mv	8/15/2006	53	3	2	Cultural Debris	8/30/2006	Trash	-	
46K04-0047	750161.25	1005889	174	Mv	8/15/2006	86	3	0	Cultural Debris	10/25/2006	Wire	-	
46K04-0065	750164.75	1005923.5	131	Mv	8/15/2006	68	3	3	MPPEH	9/5/2006	bomb nose fuze pieces, M123 tail fuze	-	
46K04-0072	750172.75	1005895	119	Mv	8/15/2006	76	3	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0075	750134.75	1005975.5	110	Mv	8/15/2006	69	3	6	Cultural Debris	8/31/2006		-	
46K04-0079	750174.75	1005782.25	107	Mv	8/15/2006	54	3	14	Cultural Debris	8/31/2006		-	
46K04-0086	750062.25	1005769.5	98	Mv	8/15/2006	86	3	8	Cultural Debris	9/5/2006		-	
46K04-0093	750214.25	1005923.5	96	Mv	8/15/2006	43	3	3	Cultural Debris	8/30/2006	Trash	-	
46K04-0095	750125.25	1005960.25	91	Mv	8/15/2006	93	3	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0100	750012.5	1005789.5	86	Mv	8/15/2006	63	3	4	Cultural Debris	9/5/2006		-	
46K04-0108	750116.75	1005986.25	82	Mv	8/15/2006	96	3	3	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0112	750175	1005917.5	81	Mv	8/15/2006	63	3	8	Cultural Debris	8/31/2006	Trash	-	
46K04-0117	750247	1005838.5	77	Mv	8/15/2006	88	3	5	Cultural Debris	8/30/2006	Trash	Pass	KC
46K04-0126	750042.75	1005841.5	74	Mv	8/15/2006	53	3	18	Cultural Debris	9/5/2006		-	
46K04-0146	750081.75	1005988.25	65	Mv	8/15/2006	42	3	6	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0147	750050.75	1005785.25	64	Mv	8/15/2006	65	3	16	Cultural Debris	9/5/2006		-	
46K04-0152	750180.75	1005772.25	62	Mv	8/15/2006	52	3	4	Cultural Debris	8/31/2006		-	

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SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46K04-0163	750160	1005968.75	59	Mv	8/15/2006	53	3	3	Munitions Debris	8/30/2006	bomb nose fuze	-	
46K04-0167	750118.25	1005926.5	58	Mv	8/15/2006	42	3	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0169	750056.75	1005993	56	Mv	8/15/2006	45	3	7	Cultural Debris	8/31/2006	Trash	-	
46K04-0174	750185	1005902.75	55	Mv	8/15/2006	45	3	8	Cultural Debris	8/31/2006	Trash	-	
46K04-0175	750048	1005797.75	55	Mv	8/15/2006	45	3	16	Cultural Debris	9/5/2006		-	
46K04-0177	750191.5	1005880.75	55	Mv	8/15/2006	26	3	2	Cultural Debris	8/31/2006	Trash	-	
46K04-0186	750180.5	1005899.5	52	Mv	8/15/2006	39	3	4	Munitions Debris	8/31/2006	Small Arms, .50 cal pieces	-	
46K04-0194	750139.25	1005871	50	Mv	8/15/2006	46	3	3	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0336	750200.75	1005803.25	31	Mv	9/13/2006	31	3	19	Munitions Debris	9/28/2006	Fare piece	-	
46K06-0006	750200	1006151.375	427	Mv	8/10/2006	226	3	4	Munitions Debris	8/29/2006	M-17 smoke round	-	
46K06-0015	750025	1006137.75	222	Mv	8/10/2006	121	3	8	Cultural Debris	8/29/2006		Pass	KC
46K06-0020	750141.5	1006042.75	184	Mv	8/10/2006	108	3	12	Cultural Debris	8/29/2006		-	
46K06-0035	750167.75	1006084.5	135	Mv	8/10/2006	44	3	5	Cultural Debris	8/29/2006		Pass	KC
46K06-0046	750089.75	1006142.75	90	Mv	8/10/2006	45	3	8	Cultural Debris	8/29/2006		-	
46K06-0064	750084.75	1006147.5	71	Mv	8/10/2006	41	3	5	Cultural Debris	8/29/2006		Pass	KC
46K06-0067	750140.75	1006026.25	70	Mv	8/10/2006	15	3	10	Cultural Debris	8/29/2006		-	
46K06-0068	750099	1006010.75	68	Mv	8/10/2006	34	3	6	Cultural Debris	8/29/2006		-	
46K06-0074	750120.5	1006105	65	Mv	8/10/2006	44	3	3	Cultural Debris	8/29/2006		Pass	KC
46K08-0005	750020	1006403.75	147	Mv	8/9/2006	72	3	4	Cultural Debris	8/29/2006		Pass	KC
46K10-0005	750015.75	1006645	81	Mv	8/9/2006	22	3	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46K10-0006	750020.75	1006628	74	Mv	8/9/2006	55	3	2	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46K10-0007	750006.75	1006644.25	71	Mv	8/9/2006	33	3	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46K10-0010	750108.5	1006524.75	57	Mv	8/9/2006	26	3	5	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	-	
46K10-0011	750017.25	1006674.25	54	Mv	8/9/2006	25	3	3	Munitions Debris	8/28/2006	Small Arms, .50 cal pieces	Pass	KC
46M02-0028	750318.25	1005725.25	56	Mv	8/14/2006	36	3	5	Cultural Debris	9/6/2006		-	
46M02-0038	750370.5	1005739	34	Mv	9/13/2006	34	3	4	Munitions Debris	9/28/2006	Frag	-	
46M04-0001	750374.5	1005802.25	3964	Mv	8/14/2006	3200	3	4	Cultural Debris	8/30/2006	Trash	-	
46M04-0003	750434.75	1005802.25	2286	Mv	8/14/2006	100	3	2	Cultural Debris	8/30/2006	Trash	-	
46M04-0007	750428.75	1005797.25	1457	Mv	8/14/2006	45	3	18	Cultural Debris	8/30/2006	Trash	-	
46M04-0008	750364.25	1005780	1372	Mv	8/14/2006	1230	3	4	Cultural Debris	8/30/2006		Pass	KC
46M04-0020	750435.3725	1005799.025	437	Mv	8/14/2006	150	3	10	Cultural Debris	8/30/2006	Trash	-	
46M04-0029	750435.6948	1005786.777	329	Mv	8/14/2006	158	3	17	Cultural Debris	8/30/2006	Trash	-	
46M04-0032	750360.25	1005807.5	250	Mv	8/14/2006	259	3	3	Munitions Debris	8/30/2006	Slapflare	-	
46M04-0034	750406.75	1005783.75	244	Mv	8/14/2006	5	3	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0035	750380.5	1005784.25	223	Mv	8/14/2006	115	3	5	Cultural Debris	8/30/2006	Trash	-	
46M04-0036	750294	1005802.5	215	Mv	8/14/2006	325	3	3	Cultural Debris	8/30/2006	Trash	-	
46M04-0046	750287.75	1005951	170	Mv	8/14/2006	92	3	4	Cultural Debris	8/30/2006	Trash	-	
46M04-0047	750269.75	1005759.75	168	Mv	8/14/2006	123	3	3	Cultural Debris	8/30/2006		-	
46M04-0048	750378.5	1005793	158	Mv	8/14/2006	123	3	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0049	750268.25	1005757.75	156	Mv	8/14/2006	126	3	3	Cultural Debris	8/30/2006	Trash	-	
46M04-0050	750345.5	1005884.25	148	Mv	8/14/2006	153	3	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0056	750358.75	1005932	105	Mv	8/14/2006	39	3	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0066	750340	1005888.25	80	Mv	8/14/2006	21	3	5	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0067	750254.5	1005880	78	Mv	8/14/2006	39	3	3	Cultural Debris	8/30/2006	Trash	Pass	KC
46M04-0070	750263	1005806.75	76	Mv	8/14/2006	63	3	3	Cultural Debris	8/30/2006	Trash	-	
46M04-0073	750274.5	1005854	66	Mv	8/14/2006	25	3	6	Cultural Debris	8/30/2006	Trash	-	
46M04-0081	750252.75	1005839.75	57	Mv	8/14/2006	36	3	5	Cultural Debris	8/30/2006	Trash	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY					REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials	
	Easting (X)	Northing (Y)												
46M04-0281	750264	1005768.5	19	Mv	9/13/2006	19	3	4	Munitions Debris	9/28/2006	Frag	-		
46M06-0005	750253.75	1006051.75	152	Mv	8/16/2006	76	3	4	Munitions Debris	8/30/2006	M27 flare	-		
46A16-0009	748927.25	1007359.25	30148	Mv	8/16/2006	3655	2	16	Cultural Debris	8/23/2006	Trash	-		
46A16-0011	748879.75	1007451.5	979	Mv	8/16/2006	466	2	20	Munitions Debris	8/23/2006	3.5 in. rocket motor piece	Pass	KC	
46A16-0012	748928.5	1007336.75	830	Mv	8/16/2006	415	2	6	Cultural Debris	8/23/2006	Trash	-		
46A16-0014	748924.5	1007345.75	797	Mv	8/16/2006	368	2	24	Cultural Debris	8/23/2006	Trash, Same as #18	-		
46A16-0019	748929.5	1007409.25	600	Mv	8/16/2006	300	2	20	Cultural Debris	8/23/2006	Metal rod	Pass	KC	
46A16-0020	748906.5	1007497	534	Mv	8/16/2006	263	2	20	Munitions Debris	8/22/2006	Small Arms, cartridge part	-		
46A16-0021	748885.5	1007464.25	495	Mv	8/16/2006	249	2	8	Munitions Debris	8/23/2006	Small Arms, cartridge piece	-		
46A16-0024	748882.8138	1007431.981	431	Mv	8/16/2006	216	2	24	Munitions Debris	8/23/2006	Small Arms, cartridge pieces	Pass	KC	
46A16-0026	748910.25	1007393.5	347	Mv	8/16/2006	365	2	24	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0028	748903.5	1007445.75	332	Mv	8/16/2006	332	2	30	MPPEH	8/23/2006	30 MM Projectile	Pass	KC	
46A16-0031	748902.5	1007483.25	271	Mv	8/16/2006	362	2	5	Cultural Debris	8/22/2006	Trash	-		
46A16-0033	748917.5	1007443.25	267	Mv	8/16/2006	265	2	30	Munitions Debris	8/23/2006	Fuze piece	Pass	KC	
46A16-0037	748874.5	1007369	243	Mv	8/16/2006	253	2	3	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0041	748887.75	1007487	197	Mv	8/16/2006	233	2	10	Munitions Debris	8/23/2006	Small Arms, cartridge piece	Pass	KC	
46A16-0045	748879.5	1007387	177	Mv	8/16/2006	89	2	20	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0046	748882.25	1007351.5	176	Mv	8/16/2006	89	2	15	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0049	748913.5	1007438.5	156	Mv	8/16/2006	153	2	36	MPPEH	8/23/2006	30 MM Projectile	Pass	KC	
46A16-0050	748945	1007442.25	148	Mv	8/16/2006	153	2	16	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0055	748878.25	1007469.75	124	Mv	8/16/2006	135	2	18	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0057	748882.75	1007355.75	123	Mv	8/16/2006	125	2	14	Cultural Debris	8/23/2006	Trash, Same as #46	Pass	KC	
46A16-0061	748963.75	1007457.75	113	Mv	8/16/2006	123	2	36	Munitions Debris	8/23/2006	60mm mortar piece	Pass	KC	
46A16-0064	748911.25	1007389.5	99	Mv	8/16/2006	46	2	20	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0065	748964	1007450.75	98	Mv	8/16/2006	51	2	18	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0066	748879.25	1007496	94	Mv	8/16/2006	9	2	14	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0067	748973.25	1007437.5	90	Mv	8/16/2006	46	2	24	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0074	748984.25	1007379.5	77	Mv	8/16/2006	68	2	40	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0076	748991	1007370.5	76	Mv	8/16/2006	56	2	36	Cultural Debris	8/23/2006	Foil bag piece	Pass	KC	
46A16-0079	748984.75	1007479.75	69	Mv	8/16/2006	46	2	8	Cultural Debris	8/22/2006	Trash	-		
46A16-0080	748920.75	1007408	63	Mv	8/16/2006	31	2	9	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0081	748931.25	1007451.5	59	Mv	8/16/2006	32	2	18	MPPEH	8/23/2006	30MM Projectile	Pass	KC	
46A16-0083	748877.75	1007474.25	57	Mv	8/16/2006	29	2	0	Cultural Debris	10/25/2006	Scrap metal	Pass	KC	
46A16-0084	748969	1007434.75	56	Mv	8/16/2006	31	2	27	Munitions Debris	8/23/2006	MK 2 grenade [practice]	Pass	KC	
46A16-0085	748896	1007452.75	53	Mv	8/16/2006	63	2	14	Munitions Debris	8/23/2006	Small Arms, .50 cal head	Pass	KC	
46A16-0087	748907.5	1007445.25	50	Mv	8/16/2006	52	2	20	Cultural Debris	8/23/2006	Trash	Pass	KC	
46A16-0098	748931	1007448.75	42	Mv	9/13/2006	44	2	6	Cultural Debris	9/25/2006	Slag	-		
46A16-0117	748971.5	1007448.25	31	Mv	9/13/2006	31	2	18	Cultural Debris	9/25/2006	Steel fitting piece	-		
46A18-0004	748930.75	1007597.5	4624	Mv	8/16/2006	2200	2	28	Cultural Debris	8/22/2006	Trash	-		
46A18-0014	748944.75	1007561.75	432	Mv	8/16/2006	222	2	0	Cultural Debris	10/25/2006	Bolt	Pass	KC	
46A18-0021	748951.6998	1007539.954	292	Mv	8/16/2006	300	2	8	Cultural Debris	8/22/2006	Trash	Pass	KC	
46A18-0032	748961.75	1007547.25	150	Mv	8/16/2006	76	2	20	Munitions Debris	8/22/2006	Expanded blasting cap piece	Pass	KC	
46A18-0034	748965.75	1007577.25	140	Mv	8/16/2006	70	2	8	Cultural Debris	8/22/2006	Barbed wire	Pass	KC	
46A18-0041	748969.1249	1007576.467	91	Mv	8/16/2006	46	2	20	Cultural Debris	8/22/2006	Same as #34 [barbed wire]	Pass	KC	
46A18-0042	748962.5	1007580.5	90	Mv	8/16/2006	45	2	22	Cultural Debris	8/22/2006	Trash	Pass	KC	
46A18-0045	748941.25	1007524.75	80	Mv	8/16/2006	53	2	10	Munitions Debris	8/22/2006	Small Arms, cartridge piece	Pass	KC	
46A18-0051	748892.75	1007526.25	63	Mv	8/16/2006	52	2	12	Munitions Debris	8/22/2006	Frag	Pass	KC	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46A18-0052	748998.75	1007540.25	63	Mv	8/16/2006	53	2	0	Cultural Debris	10/25/2006	Wire	Pass	KC
46A18-0057	748986.75	1007536.75	56	Mv	8/16/2006	53	2	30	Cultural Debris	8/22/2006	Trash	Pass	KC
46C16-0002	749023.0685	1007421.048	548	Mv	8/21/2006	213	2	24	Cultural Debris	9/6/2006	Scrap metal	-	-
46C18-0026	749053.25	1007611.5	69	Mv	8/21/2006	33	2	36	Cultural Debris	10/25/2006	Wire	-	-
46C18-0034	749185.7812	1007520.199	54	Mv	8/21/2006	25	2	2	Cultural Debris	8/23/2006	Trash	Pass	KC
46E08-0001	749446.75	1006485.75	49009	Mv	8/16/2006	3000	2	2	Cultural Debris	8/29/2006	Trash	Pass	KC
46E08-0013	749462.75	1006449.75	386	Mv	8/21/2006	170	2	10	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E08-0018	749434	1006476	308	Mv	8/21/2006	150	2	12	Munitions Debris	8/29/2006	Fuze 1907 PT/TF /and 1 ea PD fuze	Pass	KC
46E08-0038	749439.5	1006345	80	Mv	8/21/2006	40	2	22	Cultural Debris	8/29/2006	Iron rod	-	-
46E08-0039	749457.75	1006448	80	Mv	8/21/2006	40	2	3	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46E10-0004	749488.75	1006705	878	Mv	8/21/2006	458	2	4	Munitions Debris	8/28/2006	Frag	Pass	KC
46E12-0012	749356.25	1006895.5	84	Mv	8/21/2006	30	2	6	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0015	749337.25	1006950.25	72	Mv	8/21/2006	35	2	9	Cultural Debris	8/24/2006	Trash	Pass	KC
46E12-0017	749335	1006952.5	72	Mv	8/21/2006	36	2	14	Cultural Debris	8/24/2006	Farm tool piece	Pass	KC
46E12-0029	749442.5	1006973.25	57	Mv	8/21/2006	25	2	5	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0031	749372.25	1006910	56	Mv	8/21/2006	25	2	5	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0033	749377.25	1006925.75	52	Mv	8/21/2006	25	2	24	Cultural Debris	8/24/2006	Dug several places around flag found no vivible metal-possible rust accumulations	Pass	KC
46E12-0036	749429	1006990.75	50	Mv	8/21/2006	25	2	22	Cultural Debris	8/24/2006	Trash	Pass	KC
46E12-0037	749443.75	1006982.75	50	Mv	8/21/2006	25	2	6	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E12-0039	749441	1006998.5	50	Mv	8/21/2006	22	2	0	Cultural Debris	10/23/2006	Scrap metal	Pass	KC
46E12-0107	749325.25	1006990.25	26	Mv	9/13/2006	26	2	24	Cultural Debris	9/25/2006	Scrap metal	-	-
46E12-0335	749403.75	1006940.25	10	Mv	9/13/2006	10	2	6	Cultural Debris	9/25/2006	Nail	-	-
46E14-0017	749407.75	1007053.5	349	Mv	8/21/2006	158	2	6	Cultural Debris	8/24/2006	Trash	-	-
46E14-0018	749485.5856	1007062.814	216	Mv	8/21/2006	108	2	6	Cultural Debris	8/24/2006	Wire several pieces	-	-
46E14-0025	749493	1007066.25	152	Mv	8/21/2006	76	2	20	Cultural Debris	8/23/2006	Trash	Pass	KC
46E14-0035	749420.25	1007064	116	Mv	8/21/2006	58	2	8	Munitions Debris	8/24/2006	Small Arms, .50 cal head	-	-
46E14-0036	749477.25	1007061.5	108	Mv	8/21/2006	54	2	6	Munitions Debris	8/24/2006	Small Arms, .50 cal head	Pass	KC
46E14-0040	749421.561	1007027.875	91	Mv	8/21/2006	45	2	12	MPPEH	8/24/2006	M-60	Pass	KC
46E14-0047	749477.75	1007025.25	66	Mv	8/21/2006	32	2	0	Cultural Debris	10/23/2006	Scrap metal	Pass	KC
46E14-0049	749480.5	1007112.5	62	Mv	8/21/2006	32	2	12	Cultural Debris	8/23/2006	Nails	-	-
46E14-0055	749445	1007096.5	56	Mv	8/21/2006	23	2	24	Munitions Debris	8/24/2006	Small Arms, .30 cal head and wire pieces	-	-
46E14-0060	749439.4597	1007020.833	51	Mv	8/21/2006	26	2	8	Munitions Debris	8/24/2006	Small Arms, .50 cal cart. Piece	Pass	KC
46E14-0061	749488.2541	1007105.97	51	Mv	8/21/2006	23	2	3	Cultural Debris	8/23/2006	Trash	-	-
46E14-0082	749481.5	1007119.5	39	Mv	9/13/2006	39	2	7	Cultural Debris	9/28/2006	Trash	-	-
46E14-0202	749392	1007031	15	Mv	9/13/2006	15	2	6	Munitions Debris	9/25/2006	Small Arms, .38 cal case	-	-
46E16-0020	749421	1007285.5	3805	Mv	8/21/2006	1589	2	2	Cultural Debris	8/22/2006	Trash	-	-
46E16-0023	749486.75	1007287.25	395	Mv	8/21/2006	203	2	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0025	749434.5	1007339.75	209	Mv	8/21/2006	105	2	5	Cultural Debris	8/22/2006	Trash	Pass	KC
46E16-0048	749421	1007291	32	Mv	9/13/2006	32	2	20	Cultural Debris	9/25/2006	Trash	-	-
46G06-0036	749634.75	1006145	332	Mv	8/14/2006	33	2	3	Munitions Debris	8/30/2006	Flare piece	Pass	KC
46G06-0055	749743	1006237.5	218	Mv	8/14/2006	123	2	18	Cultural Debris	8/30/2006	Wire	-	-
46G06-0084	749743.25	1006248.5	77	Mv	8/10/2006	40	2	10	Cultural Debris	8/30/2006	Wire	-	-
46G06-0135	749615.25	1006196.5	33	Mv	9/13/2006	33	2	10	Munitions Debris	9/28/2006	Flare piece	-	-
46G08-0008	749601.25	1006431.5	718	Mv	8/16/2006	356	2	4	Cultural Debris	8/29/2006	Large bolt w/nut and washers	Pass	KC
46G08-0011	749659.5	1006413.75	603	Mv	8/16/2006	301	2	2	Munitions Debris	8/29/2006	Flare piece	Pass	KC
46G08-0014	749633.5	1006382.75	382	Mv	8/16/2006	396	2	24	Munitions Debris	8/29/2006	Flare piece	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G08-0018	749705.25	1006252.75	253	Mv	8/16/2006	175	2	18	Cultural Debris	8/30/2006	Barbed wire	-	
46G08-0019	749668.75	1006356.5	251	Mv	8/16/2006	76	2	9	Cultural Debris	8/29/2006	Wire	-	
46G08-0027	749630.75	1006443.5	149	Mv	8/16/2006	74	2	8	Munitions Debris	8/29/2006	Arming assembly	Pass	KC
46G08-0031	749529.75	1006399.25	103	Mv	8/16/2006	58	2	24	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0033	749677.5	1006425.5	86	Mv	8/16/2006	53	2	18	Cultural Debris	8/29/2006	Nail	-	
46G08-0034	749536.25	1006389.75	83	Mv	8/16/2006	41	2	7	Cultural Debris	8/29/2006	Nails	Pass	KC
46G08-0036	749740.5	1006433	81	Mv	8/16/2006	63	2	3	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0040	749668	1006377.25	73	Mv	8/16/2006	63	2	10	Cultural Debris	8/29/2006	Trash	Pass	KC
46G08-0059	749720.25	1006389.25	56	Mv	8/16/2006	48	2	6	Cultural Debris	8/29/2006	Trash	Pass	KC
46G10-0002	749561.5	1006739.25	3834	Mv	8/21/2006	3000	2	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0003	749529	1006532.25	3396	Mv	8/21/2006	3000	2	6	Cultural Debris	8/28/2006		Pass	KC
46G10-0005	749529.25	1006529.25	3142	Mv	8/21/2006	3000	2	20	Cultural Debris	8/28/2006	Same as#3	Pass	KC
46G10-0008	749532.5	1006580.25	1917	Mv	8/21/2006	812	2	1	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0012	749533.5	1006583.5	967	Mv	8/21/2006	569	2	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46G10-0013	749571.25	1006579	717	Mv	8/21/2006	367	2	18	Cultural Debris	8/28/2006	Same as #14	Pass	KC
46G10-0014	749571.25	1006582.25	700	Mv	8/21/2006	361	2	2	Cultural Debris	8/28/2006		Pass	KC
46G10-0019	749606.25	1006517.25	421	Mv	8/21/2006	215	2	24	Cultural Debris	8/28/2006	Tent peg	Pass	KC
46G10-0021	749738	1006578.75	361	Mv	8/21/2006	190	2	10	MPPEH	8/28/2006	MK-5 AT (UK) Training mine	Pass	KC
46G10-0023	749749	1006732.5	255	Mv	8/22/2006	129	2	14	Munitions Debris	8/28/2006	M-48 fuze piece	Pass	KC
46G10-0026	749742.5	1006715.5	174	Mv	8/21/2006	89	2	18	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46G10-0032	749672	1006709.5	130	Mv	8/21/2006	68	2	24	Cultural Debris	8/28/2006	Trash, Multiple digs around flag	Pass	KC
46G10-0044	749656.8229	1006733.624	93	Mv	8/21/2006	51	2	20	Cultural Debris	8/28/2006	Trash, Multiple digs around flag	Pass	KC
46G10-0057	749733	1006739.75	62	Mv	8/21/2006	36	2	12	Cultural Debris	8/28/2006		Pass	KC
46G10-0060	749749	1006720.75	59	Mv	8/21/2006	28	2	20	Munitions Debris	8/28/2006	Frag	Pass	KC
46G10-0063	749699	1006609	53	Mv	8/21/2006	28	2	24	Munitions Debris	8/28/2006	Small Arms, .50 cal head	Pass	KC
46G10-0065	749556.25	1006746.75	50	Mv	8/21/2006	29	2	5	Cultural Debris	8/28/2006	Wire	Pass	KC
46G10-0091	749689.75	1006644.5	39	Mv	9/13/2006	39	2	4	Munitions Debris	9/28/2006	Small Arms, .50 cal head	Pass	KC
46G10-0253	749725	1006732.75	15	Mv	9/13/2006	15	2	18	Munitions Debris	9/28/2006	Small Arms, blank cart.	Pass	KC
46G12-0013	749696.75	1006791.25	159	Mv	8/21/2006	73	2	3	Cultural Debris	8/28/2006	Trash	-	
46G14-0017	749550	1007145	251	Mv	8/17/2006	131	2	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0025	749525	1007147.5	160	Mv	8/17/2006	84	2	5	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0030	749676.5	1007093	141	Mv	8/16/2006	76	2	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46G14-0036	749565.5	1007134.25	120	Mv	8/17/2006	63	2	8	Cultural Debris	8/23/2006		-	
46G14-0063	749538.75	1007012.75	77	Mv	8/16/2006	42	2	3	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0079	749566	1007119.75	70	Mv	8/17/2006	38	2	7	Munitions Debris	8/23/2006	Small Arms, .50 cal pieces	-	
46G14-0095	749551	1007049.75	63	Mv	8/16/2006	33	2	3	Cultural Debris	8/24/2006	Trash	-	
46G14-0098	749683	1007143.75	62	Mv	8/16/2006	33	2	3	Cultural Debris	8/22/2006	Trash	Pass	KC
46G14-0101	749530.25	1007028.25	61	Mv	8/16/2006	32	2	6	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0117	749514.25	1007073.5	58	Mv	8/16/2006	30	2	2	Cultural Debris	8/24/2006	Trash	Pass	KC
46G14-0128	749569	1007114.5	57	Mv	8/17/2006	31	2	8	Cultural Debris	8/23/2006		Pass	KC
46G14-0148	749505.75	1007080.5	52	Mv	8/16/2006	26	2	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G14-0160	749534.25	1007126.75	50	Mv	8/17/2006	27	2	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46G16-0001	749629.5	1007291.75	132444	Mv	8/17/2006	5000	2	2	Cultural Debris	8/22/2006	Trash	-	
46G16-0007	749649.75	1007332.5	761	Mv	8/17/2006	13	2	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46G16-0025	749536.25	1007261	59	Mv	8/17/2006	29	2	2	Cultural Debris	8/22/2006	Trash	Pass	KC
46I04-0005	749918.5	1005784.5	517	Mv	8/15/2006	500	2	24	Cultural Debris	8/31/2006	Wrench	Pass	KC
46I04-0009	749830	1005973	316	Mv	8/15/2006	162	2	22	Munitions Debris	8/31/2006	Slap flare	-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46I04-0013	749916	1005786.75	272	Mv	8/15/2006	145	2	18	Cultural Debris	8/31/2006	Wrench Same as #5	Pass	KC
46I04-0036	749962.25	1005788	79	Mv	8/15/2006	38	2	2	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I04-0039	749880.25	1005798.25	75	Mv	8/15/2006	45	2	6	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	Pass	KC
46I04-0053	749996.25	1005806.25	61	Mv	8/15/2006	31	2	9	Cultural Debris	8/31/2006		-	
46I04-0064	749976.75	1005882.25	55	Mv	8/15/2006	27	2	21	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I06-0010	749857.25	1006155.25	270	Mv	8/10/2006	293	2	9	Munitions Debris	8/29/2006	Flare piece	-	
46I06-0011	749896.75	1006203	235	Mv	8/10/2006	25	2	4	Cultural Debris	8/31/2006	Trash	Pass	KC
46I06-0019	749898	1006201.25	117	Mv	8/10/2006	45	2	8	Cultural Debris	8/31/2006	Trash	Pass	KC
46I06-0066	749924.5	1006009	53	Mv	8/10/2006	52	2	8	Munitions Debris	8/31/2006	Signal Flare /Smoke piece	-	
46I08-0012	749764.75	1006256.5	352	Mv	8/21/2006	3000	2	2	Cultural Debris	8/28/2006	Trash	-	
46I08-0014	749847	1006261.5	252	Mv	8/21/2006	141	2	0	Cultural Debris	10/23/2006	Scrap metal	Pass	KC
46I08-0020	749797	1006496.25	113	Mv	8/17/2006	59	2	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46I08-0025	749962.5	1006337.5	93	Mv	8/17/2006	46	2	0	Cultural Debris	10/23/2006	Scrap metal	Pass	KC
46I08-0121	749933.5	1006338.5	21	Mv	9/13/2006	21	2	4	Cultural Debris	9/28/2006		-	
46I10-0049	749750.5	1006666.5	47	Mv	9/13/2006	47	2	6	Cultural Debris	9/28/2006	Scrap metal	Pass	KC
46I10-0060	749766.75	1006570.5	42	Mv	9/13/2006	42	2	15	Cultural Debris	9/28/2006	Nails	Pass	KC
46I14-0016	749929.5	1007092.5	68	Mv	8/16/2006	36	2	3	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	
46I14-0026	749770.5	1007086.25	54	Mv	8/16/2006	29	2	4	Cultural Debris	8/24/2006	Trash	-	
46I16-0003	749898.75	1007439.25	170	Mv	8/17/2006	81	2	2	Cultural Debris	8/22/2006	Trash	-	
46K02-0004	750209	1005621.25	2651	Mv	8/14/2006	1890	2	6	Cultural Debris	9/5/2006	Sign piece [mines]	Pass	KC
46K02-0028	750088.75	1005720.75	156	Mv	8/14/2006	199	2	24	Cultural Debris	9/5/2006		-	
46K02-0043	750010.75	1005658.25	89	Mv	8/14/2006	76	2	13	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0046	750097.75	1005638.25	82	Mv	8/14/2006	112	2	7	Munitions Debris	9/5/2006	Signal Flare /Smoke piece	-	
46K02-0060	750104.75	1005683.75	53	Mv	8/14/2006	49	2	8	Cultural Debris	9/5/2006	Scrap metal	Pass	KC
46K02-0149	750220.75	1005711	18	Mv	9/13/2006	18	2	24	Munitions Debris	9/28/2006	Flare piece	-	
46K04-0006	750204.25	1005857.75	1277	Mv	8/15/2006	693	2	2	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0007	750205.75	1005855	1213	Mv	8/15/2006	690	2	7	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0011	750162.5	1005975.25	858	Mv	8/15/2006	400	2	4	MPPEH	8/30/2006	bomb nose fuze, M103	-	
46K04-0050	750080.25	1005980.75	165	Mv	8/15/2006	260	2	3	Cultural Debris	8/31/2006	Trash	Pass	KC
46K04-0052	750080.5	1005959	164	Mv	8/15/2006	36	2	3	Cultural Debris	8/31/2006	Trash	-	
46K04-0113	750093.5	1005848.25	81	Mv	8/15/2006	43	2	6	Cultural Debris	9/5/2006		Pass	KC
46K04-0145	750185.75	1005877.75	65	Mv	8/15/2006	53	2	4	Cultural Debris	8/31/2006	Trash	-	
46K04-0166	750182.75	1005893	58	Mv	8/15/2006	42	2	4	Cultural Debris	8/31/2006	Trash	-	
46K06-0005	750020.5	1006042	500	Mv	8/10/2006	250	2	0	Cultural Debris	10/23/2006	Scrap metal	-	
46K06-0033	750226.75	1006153	142	Mv	8/10/2006	75	2	12	Cultural Debris	8/29/2006		-	
46K06-0037	750232.5	1006152.75	118	Mv	8/10/2006	70	2	12	Cultural Debris	8/29/2006		Pass	KC
46K06-0048	750086.25	1006159	87	Mv	8/10/2006	45	2	4	Cultural Debris	8/29/2006		-	
46K08-0010	750087.25	1006337	77	Mv	8/9/2006	55	2	6	Cultural Debris	8/29/2006		-	
46K10-0002	750034.75	1006680.75	269	Mv	8/9/2006	63	2	3	Cultural Debris	8/28/2006	Trash	-	
46M02-0010	750374.25	1005743.5	342	Mv	8/14/2006	236	2	5	Munitions Debris	9/6/2006	slap flare	-	
46M02-0014	750307	1005692.25	127	Mv	8/14/2006	96	2	12	Cultural Debris	9/6/2006		-	
46M02-0020	750309.25	1005688.5	78	Mv	8/14/2006	69	2	6	Cultural Debris	9/6/2006		-	
46M02-0024	750273.75	1005735.75	62	Mv	8/14/2006	45	2	14	Cultural Debris	9/6/2006		-	
46M02-0029	750310.25	1005670	55	Mv	8/14/2006	39	2	14	Cultural Debris	9/6/2006		-	
46M04-0011	750431.75	1005812.75	1110	Mv	8/14/2006	222	2	3	Cultural Debris	8/30/2006	Trash	-	
46M04-0015	750435.75	1005812.5	735	Mv	8/14/2006	354	2	2	Cultural Debris	8/30/2006	Trash	-	
46M04-0043	750359	1005776	183	Mv	8/14/2006	123	2	2	Cultural Debris	8/30/2006	Trash	Pass	KC

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46A16-0008	748885.75	1007427	82215	Mv	8/16/2006	5000	1	20	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0010	748895	1007387.5	2135	Mv	8/16/2006	2366	1	6	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0023	748899	1007483	473	Mv	8/16/2006	252	1	14	Munitions Debris	8/22/2006	Small Arms, cart piece.	-	
46A16-0027	748952	1007441.75	334	Mv	8/16/2006	333	1	20	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0029	748952.5	1007434.75	306	Mv	8/16/2006	153	1	10	Munitions Debris	8/23/2006	Small Arms, cartridge piece	Pass	KC
46A16-0032	748905	1007486	270	Mv	8/16/2006	135	1	14	Munitions Debris	8/22/2006	Small Arms, cart. Piece	-	
46A16-0036	748983.25	1007474.5	256	Mv	8/16/2006	238	1	36	Cultural Debris	8/22/2006	Trash	Pass	KC
46A16-0040	748893	1007446.75	214	Mv	8/16/2006	216	1	24	MPPEH	8/23/2006	30 MM Projectile	Pass	KC
46A16-0043	748890.75	1007447.75	180	Mv	8/16/2006	92	1	17	Munitions Debris	8/23/2006	Small Arms, cartridge piece	Pass	KC
46A16-0044	748961.75	1007455.25	177	Mv	8/16/2006	86	1	24	Cultural Debris	8/22/2006	Trash	Pass	KC
46A16-0048	748921	1007430.25	157	Mv	8/16/2006	78	1	40	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0060	748979.9531	1007472.901	114	Mv	8/16/2006	57	1	36	Cultural Debris	8/22/2006	Trash, Same as #36	-	
46A16-0062	748960	1007460.25	106	Mv	8/16/2006	53	1	12	Munitions Debris	8/23/2006	Grenade piece [mk2]	Pass	KC
46A16-0072	748884.75	1007487.75	78	Mv	8/16/2006	68	1	4	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0075	748894.5	1007498.25	76	Mv	8/16/2006	81	1	8	Munitions Debris	8/22/2006	Frag	-	
46A16-0078	748901.5	1007475.75	69	Mv	8/16/2006	70	1	24	Munitions Debris	8/22/2006	Small Arms, cart & aluminu pieces	-	
46A16-0088	748879	1007490.5	50	Mv	8/16/2006	25	1	12	Cultural Debris	8/23/2006	Trash	-	
46A16-0089	748887.75	1007435.5	50	Mv	8/16/2006	25	1	19	Munitions Debris	8/23/2006	Small Arms, cartridge piece	Pass	KC
46A18-0001	748885.25	1007514	70128	Mv	8/16/2006	5000	1	20	Cultural Debris	8/22/2006	Pipe cap	Pass	KC
46A18-0003	748882.25	1007518	6366	Mv	8/16/2006	630	1	20	Cultural Debris	8/22/2006	Trash	Pass	KC
46A18-0006	748886.5	1007519	2499	Mv	8/16/2006	2399	1	18	Cultural Debris	8/22/2006	Trash, Same as #3	Pass	KC
46A18-0007	748889.6457	1007516.505	1285	Mv	8/16/2006	633	1	6	Munitions Debris	8/22/2006	Small Arms, cartridge case piece	Pass	KC
46A18-0008	748886.5434	1007511.897	963	Mv	8/16/2006	500	1	8	Munitions Debris	8/22/2006	Frag	Pass	KC
46A18-0016	748909.5	1007507.75	406	Mv	8/16/2006	236	1	10	Cultural Debris	8/22/2006	Trash	Pass	KC
46A18-0031	748923.5	1007531.75	152	Mv	8/16/2006	69	1	10	Cultural Debris	8/22/2006	Trash	Pass	KC
46A18-0039	748953.25	1007588	104	Mv	8/16/2006	52	1	6	Cultural Debris	8/22/2006	Wire	-	
46A18-0043	748957.5	1007547.5	81	Mv	8/16/2006	53	1	14	Cultural Debris	8/22/2006	Trash	Pass	KC
46A18-0055	748877.8751	1007511.03	57	Mv	8/16/2006	63	1	2	Munitions Debris	8/22/2006	Frag	Pass	KC
46A18-0058	748923.5	1007581	53	Mv	8/16/2006	35	1	14	Munitions Debris	8/22/2006	Frag	Pass	KC
46C16-0005	749004.1	1007434.74	136	Mv	8/21/2006	76	1	24	Cultural Debris	9/6/2006	Bolt	-	
46C16-0008	749007.4501	1007433.737	89	Mv	8/21/2006	50	1	24	Cultural Debris	9/6/2006	Same as #5 [bolt]	-	
46C18-0009	749005.5	1007577	175	Mv	8/21/2006	62	1	0	Cultural Debris	10/25/2006	bolt	Pass	KC
46C18-0017	749187.5	1007515	95	Mv	8/21/2006	40	1	6	Cultural Debris	8/23/2006	Nail	Pass	KC
46E08-0044	749499.25	1006358.75	56	Mv	8/21/2006	22	1	6	Cultural Debris	8/29/2006	Wire	-	
46E14-0013	749474.3471	1007108.178	756	Mv	8/21/2006	369	1	3	Cultural Debris	8/23/2006	Trash	-	
46E14-0014	749410.25	1007055.25	467	Mv	8/21/2006	250	1	9	Cultural Debris	8/24/2006	Trash	-	
46E14-0023	749436.5	1007046.5	165	Mv	8/21/2006	125	1	60	Cultural Debris	8/24/2006	Old sign laying in the grass	Pass	KC
46E14-0059	749446.25	1007032.75	53	Mv	8/21/2006	53	1	60	Cultural Debris	8/24/2006	Same sign as #23	Pass	KC
46E16-0017	749429.5	1007294.75	5749	Mv	8/21/2006	2687	1	1	Cultural Debris	8/22/2006	Trash	Pass	KC
46G08-0021	749651	1006314.25	205	Mv	8/16/2006	50	1	20	Cultural Debris	8/29/2006	Wire	Pass	KC
46G08-0023	749654	1006313	184	Mv	8/16/2006	86	1	12	Cultural Debris	8/29/2006	Wire	Pass	KC
46G08-0029	749623.75	1006314.75	140	Mv	8/16/2006	79	1	30	Cultural Debris	8/29/2006	Wire	Pass	KC
46G10-0043	749569	1006538	97	Mv	8/21/2006	46	1	4	Munitions Debris	8/28/2006	Scrap piece of flare	Pass	KC
46G10-0047	749529.75	1006502.75	86	Mv	8/21/2006	45	1	8	Cultural Debris	8/24/2006	Air chuck	Pass	KC
46G10-0064	749726.75	1006522.75	51	Mv	8/21/2006	28	1	0	Cultural Debris	10/23/2006	Scrap metal	Pass	KC
46G12-0001	749582.5	1006919.25	4998	Mv	8/21/2006	3000	1	3	Cultural Debris	8/28/2006	Trash	Pass	KC
46G12-0016	749556.5	1006923.75	133	Mv	8/21/2006	80	1	5	Cultural Debris	8/28/2006	Trash	Pass	KC

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SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46G12-0020	749709.375	1006756.625	72	Mv	8/21/2006	39	1	5	Cultural Debris	8/28/2006	Trash	-	-
46G14-0022	749537.75	1007140.75	226	Mv	8/17/2006	121	1	2	Munitions Debris	8/24/2006	Small Arms, links	-	-
46I06-0040	749847.5	1006123.25	75	Mv	8/10/2006	63	1	0	Cultural Debris	10/23/2006	Scrap metal	Pass	KC
46I08-0015	749810.25	1006495.5	212	Mv	8/17/2006	108	1	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46I10-0002	749970.25	1006731.75	3371	Mv	8/15/2006	1875	1	2	Cultural Debris	8/28/2006	Trash	-	-
46I10-0014	749960.7677	1006731.55	251	Mv	8/15/2006	136	1	2	Cultural Debris	8/28/2006	Trash	-	-
46I12-0016	749754	1006757.75	87	Mv	8/16/2006	45	1	2	Cultural Debris	8/28/2006	Trash	Pass	KC
46I14-0004	749987.25	1007241	774	Mv	8/16/2006	334	1	4	Cultural Debris	8/24/2006		-	-
46I14-0023	749772.25	1007091	57	Mv	8/16/2006	28	1	4	Munitions Debris	8/24/2006	Small Arms, .50 cal pieces	-	-
46K02-0005	750202.904	1005606.649	2464	Mv	8/14/2006	2300	1	6	Cultural Debris	9/5/2006	2 ea fence posts	-	-
46K04-0114	750059.25	1005816.5	78	Mv	8/15/2006	36	1	3	Hot Soil	9/5/2006		-	-
46K06-0061	750003	1006024.5	75	Mv	8/10/2006	38	1	0	Cultural Debris	10/23/2006	Scrap metal	-	-
46M02-0007	750367	1005739.5	571	Mv	8/14/2006	278	1	4	Cultural Debris	9/6/2006	Trash	-	-
46A16-0001	748944.25	1007338	530796	Mv	8/16/2006	5000	0	2	Cultural Debris	8/23/2006	Large piece of metal on surface	-	-
46A16-0002	748934.75	1007340.75	490356	Mv	8/16/2006	5000	0	18	Cultural Debris	8/23/2006	Large piece of metal on surface	Pass	KC
46A16-0004	748943.75	1007345	455475	Mv	8/16/2006	4533	0	2	Cultural Debris	8/23/2006	Large piece of metal on surface	-	-
46A16-0022	748893.375	1007391.125	488	Mv	8/16/2006	300	0	18	Cultural Debris	8/23/2006	Trash	Pass	KC
46A16-0059	748936	1007397.5	115	Mv	8/16/2006	123	0	0	No Contact	8/23/2006		Pass	KC
46A16-0069	748959.25	1007378.5	88	Mv	8/16/2006	58	0	0	No Contact	8/23/2006		-	-
46A16-0070	748973.5	1007409.75	82	Mv	8/16/2006	82	0	0	No Contact	8/23/2006		Pass	KC
46A18-0013	748960.5	1007536.25	538	Mv	8/16/2006	563	0	0	No Contact	8/22/2006		Pass	KC
46A18-0015	748954	1007553	427	Mv	8/16/2006	253	0	0	No Contact	10/26/2006	Flag near prior dig resulting in finding a large in ground pipe that was not removed	Pass	KC
46A18-0022	748955	1007549.75	269	Mv	8/16/2006	265	0	0	No Contact	8/22/2006		Pass	KC
46A18-0023	748947.9387	1007537.19	264	Mv	8/16/2006	154	0	0	No Contact	8/22/2006		Pass	KC
46A18-0025	748948	1007543.25	209	Mv	8/16/2006	104	0	0	Hot Soil	8/22/2006	Hot Rock	Pass	KC
46A18-0037	748951.5	1007535.25	111	Mv	8/16/2006	56	0	0	No Contact	8/22/2006		Pass	KC
46A18-0044	748978.3862	1007599.529	80	Mv	8/16/2006	49	0	0	No Contact	8/22/2006		Pass	KC
46A18-0054	748966.5	1007599	61	Mv	8/16/2006	32	0	0	No Contact	8/22/2006		Pass	KC
46A18-0056	748960.6721	1007543.307	57	Mv	8/16/2006	56	0	0	No Contact	8/22/2006		Pass	KC
46A18-0059	748912.75	1007515.5	52	Mv	8/16/2006	29	0	0	No Contact	8/22/2006	Also checked with schonstedt	Pass	KC
46C08-0005	749243.5	1006441.5	27	Mv	9/13/2006	27	0	0	No Contact	9/26/2006		Pass	KC
46C08-0006	749244.75	1006439.75	20	Mv	9/13/2006	20	0	0	No Contact	9/26/2006		Pass	KC
46C08-0013	749242.75	1006481.5	12	Mv	9/13/2006	12	0	0	No Contact	9/26/2006		Pass	KC
46C10-0012	749234.75	1006607.5	22	Mv	9/13/2006	22	0	0	No Contact	9/25/2006		-	-
46C10-0014	749244.5	1006518.75	19	Mv	9/13/2006	19	0	0	No Contact	9/25/2006		Pass	KC
46C16-0009	749005.4	1007462.3	63	Mv	8/21/2006	29	0	0	No Contact	8/22/2006	No contact within 2 feet of flag	-	-
46C18-0002	749024.75	1007604.75	481	Mv	8/21/2006	241	0	0	No Contact	8/22/2006	No contact within 2 feet of flag	Pass	KC
46C18-0007	749144.75	1007563.75	291	Mv	8/21/2006	126	0	0	Cultural Debris	8/23/2006	Trash, Same as #14	-	-
46C18-0013	749106.5	1007623.5	117	Mv	8/21/2006	56	0	0	No Contact	8/22/2006		Pass	KC
46C18-0015	749129.5	1007575	107	Mv	8/21/2006	54	0	0	No Contact	8/22/2006		-	-
46C18-0025	749092	1007640.25	71	Mv	8/21/2006	30	0	0	No Contact	8/22/2006		Pass	KC
46C18-0035	749064.25	1007614	53	Mv	8/21/2006	5	0	0	No Contact	8/22/2006		Pass	KC
46E08-0085	749301.25	1006436	28	Mv	9/13/2006	28	0	0	No Contact	9/26/2006		Pass	KC
46E10-0025	749377.25	1006749.5	52	Mv	8/21/2006	29	0	0	Cultural Debris	8/28/2006	Same as E-12 0004	Pass	KC
46E10-0134	749298.5	1006743.5	17	Mv	9/13/2006	17	0	0	No Contact	9/25/2006		Pass	KC
46E12-0022	749424.5	1006968	63	Mv	8/21/2006	30	0	0	No Contact	8/24/2006		-	-

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46E14-0021	749487.25	1007112.75	185	Mv	8/21/2006	92	0	0	No Contact	8/23/2006		-	
46E14-0039	749482	1007107.5	92	Mv	8/21/2006	45	0	0	No Contact	8/23/2006		-	
46E14-0050	749449.5	1007023.25	60	Mv	8/21/2006	60	0	0	No Contact	8/24/2006		Pass	KC
46E16-0105	749482.5	1007493.75	16	Mv	9/13/2006	17	0	0	No Contact	9/25/2006		-	
46E18-0004	749441.25	1007544	80	Mv	8/21/2006	63	0	0	No Contact	8/22/2006		-	
46E20-0001	749488.25	1007762	2346	Mv	8/21/2006	1563	0	0	No Contact	8/22/2006		-	
46G04-0023	749599.25	1005989.5	29	Mv	9/13/2006	29	0	0	No Contact	9/28/2006		-	
46G04-0031	749742.75	1005966.5	20	Mv	9/13/2006	20	0	0	No Contact	9/28/2006		-	
46G04-0056	749671.5	1005950.25	12	Mv	9/13/2006	12	0	0	No Contact	9/28/2006		-	
46G06-0085	749595.5	1006046.75	76	Mv	8/14/2006	34	0	0	No Contact	8/30/2006		-	
46G06-0089	749695	1006236.75	62	Mv	8/10/2006	32	0	0	No Contact	8/30/2006		Pass	KC
46G06-0093	749662.5	1006166.25	58	Mv	8/10/2006	34	0	0	No Contact	8/30/2006		Pass	KC
46G06-0225	749697.5	1006097.75	22	Mv	9/13/2006	22	0	0	No Contact	9/28/2006		-	
46G08-0009	749600.5	1006428.5	688	Mv	8/16/2006	1123	0	0	No Contact	8/29/2006		Pass	KC
46G08-0010	749607.5	1006427.5	630	Mv	8/16/2006	362	0	0	No Contact	9/26/2006		Pass	KC
46G08-0063	749599.75	1006328.5	52	Mv	8/16/2006	23	0	0	No Contact	8/29/2006		Pass	KC
46G08-0098	749643.25	1006356.5	28	Mv	9/13/2006	28	0	0	No Contact	9/26/2006		Pass	KC
46G08-0157	749628.25	1006465.5	19	Mv	9/13/2006	19	0	0	No Contact	9/26/2006		-	
46G10-0072	749522	1006515	46	Mv	9/13/2006	46	0	0	No Contact	9/28/2006		Pass	KC
46G10-0474	749544.5	1006548.5	10	Mv	9/13/2006	10	0	0	No Contact	9/28/2006		Pass	KC
46G12-0002	749563.25	1006751.25	4489	Mv	8/21/2006	3000	0	0	No Contact	8/28/2006		Pass	KC
46G12-0010	749525	1006964.5	290	Mv	8/21/2006	168	0	0	Cultural Debris	8/28/2006	Survey stake	Pass	KC
46G12-0014	749694.75	1006788.5	157	Mv	8/21/2006	69	0	2	Hot Soil	8/28/2006		Pass	KC
46G12-0028	749736	1006917.75	62	Mv	8/21/2006	64	0	0	No Contact	8/28/2006		-	
46G12-0036	749582	1006925.25	55	Mv	8/21/2006	28	0	0	No Contact	8/28/2006		Pass	KC
46G12-0060	749706.75	1006795	43	Mv	9/13/2006	43	0	0	No Contact	9/28/2006		Pass	KC
46G12-0243	749639	1006900.75	21	Mv	9/13/2006	21	0	0	No Contact	9/28/2006		-	
46G14-0043	749709.5	1007102.75	98	Mv	8/16/2006	51	0	0	No Contact	8/22/2006		Pass	KC
46G14-0065	749580.25	1007159.25	77	Mv	8/17/2006	37	0	0	No Contact	8/23/2006		Pass	KC
46G14-0099	749675.75	1007058.5	62	Mv	8/16/2006	35	0	0	No Contact	8/22/2006		Pass	KC
46G14-0111	749567.75	1007235	59	Mv	8/17/2006	30	0	0	No Contact	8/23/2006		Pass	KC
46G16-0016	749514.5	1007313	78	Mv	8/17/2006	40	0	0	No Contact	8/22/2006		Pass	KC
46G16-0021	749528.5	1007282.25	68	Mv	8/17/2006	31	0	0	No Contact	8/22/2006		Pass	KC
46G16-0028	749572.75	1007304.75	56	Mv	8/17/2006	27	0	0	No Contact	8/22/2006		Pass	KC
46G16-0068	749654.75	1007405.75	27	Mv	9/13/2006	27	0	0	No Contact	9/25/2006		-	
46G16-0114	749603.25	1007309.25	20	Mv	9/13/2006	20	0	0	No Contact	9/25/2006		-	
46G16-0199	749718.5	1007459.25	14	Mv	9/13/2006	14	0	0	No Contact	9/25/2006		-	
46I04-0016	749920.5	1005896.5	204	Mv	8/15/2006	102	0	0	No Contact	9/5/2006		-	
46I04-0037	749834.75	1005953.75	79	Mv	8/15/2006	38	0	0	No Contact	8/31/2006		Pass	KC
46I04-0050	749882.25	1005895.75	62	Mv	8/15/2006	31	0	0	No Contact	9/5/2006		Pass	KC
46I04-0054	749896.5	1005799	61	Mv	8/15/2006	33	0	0	No Contact	8/31/2006		Pass	KC
46I04-0235	749825	1005888	24	Mv	9/13/2006	24	0	0	No Contact	9/28/2006		-	
46I04-0460	749986.25	1005912.25	17	Mv	9/13/2006	17	0	0	No Contact	9/28/2006		-	
46I04-1075	749916.25	1005954.5	10	Mv	9/13/2006	10	0	0	No Contact	9/28/2006		-	
46I06-0062	749869.25	1006155.25	54	Mv	8/10/2006	62	0	0	No Contact	8/31/2006		-	
46I06-0069	749871.25	1006014.75	51	Mv	8/10/2006	23	0	0	No Contact	8/30/2006		Pass	KC
46I06-0489	749802.5	1006117	15	Mv	9/13/2006	15	0	0	No Contact	9/28/2006		-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46I08-0036	749933.5	1006415.5	52	Mv	8/17/2006	30	0	0	No Contact	8/28/2006		-	
46I08-0219	749931	1006430.25	13	Mv	9/13/2006	13	0	0	No Contact	9/28/2006		-	
46I08-0263	749988.25	1006380.75	11	Mv	9/13/2006	11	0	0	No Contact	9/28/2006		-	
46I10-0010	749934.4319	1006747.785	327	Mv	8/15/2006	164	0	0	No Contact	8/28/2006		-	
46I10-0023	749923	1006661.75	127	Mv	8/21/2006	71	0	0	No Contact	8/28/2006	Pass		KC
46I10-0027	749958.5	1006718.5	91	Mv	8/9/2006	25	0	0	No Contact	8/28/2006		-	
46I10-0032	749938.75	1006740.5	69	Mv	8/15/2006	33	0	0	No Contact	8/28/2006		-	
46I10-0097	749993.25	1006547.75	28	Mv	9/13/2006	28	0	0	No Contact	9/28/2006		-	
46I12-0005	749898.5	1006789.5	536	Mv	8/16/2006	214	0	0	No Contact	8/28/2006		-	
46I12-0020	749896.5	1006757.75	71	Mv	8/16/2006	38	0	0	No Contact	8/28/2006		-	
46I12-0022	749984.25	1006857	65	Mv	8/16/2006	156	0	0	No Contact	8/28/2006		-	
46I14-0025	749931.75	1007011.25	55	Mv	8/16/2006	23	0	0	No Contact	8/24/2006	Pass		KC
46I14-0035	749947.75	1007104.25	38	Mv	9/13/2006	38	0	0	No Contact	9/28/2006		-	
46I14-0056	749957.75	1007226.5	27	Mv	9/13/2006	27	0	0	No Contact	9/28/2006		-	
46I16-0014	749830.5	1007464.25	41	Mv	9/13/2006	41	0	0	No Contact	9/25/2006		-	
46I16-0037	749786.75	1007462	26	Mv	9/13/2006	26	0	0	No Contact	9/25/2006		-	
46I18-0008	749878	1007545	55	Mv	8/17/2006	26	0	0	No Contact	8/22/2006		-	
46I18-0016	749831	1007573	33	Mv	9/13/2006	33	0	0	No Contact	9/25/2006		-	
46I18-0023	749808.25	1007560.25	25	Mv	9/13/2006	25	0	0	No Contact	9/25/2006		-	
46K02-0039	750202	1005735.25	101	Mv	8/14/2006	98	0	0	No Contact	9/5/2006		-	
46K02-0057	750093	1005659.75	55	Mv	8/14/2006	56	0	0	No Contact	9/5/2006		-	
46K02-0092	750176	1005621.5	32	Mv	9/13/2006	32	0	0	No Contact	9/28/2006		-	
46K02-0291	750042.75	1005743.75	10	Mv	9/13/2006	10	0	0	No Contact	9/28/2006		-	
46K04-0031	750161.75	1005861.25	272	Mv	8/15/2006	128	0	0	No Contact	8/31/2006		-	
46K04-0042	750139.25	1005839.75	214	Mv	8/15/2006	185	0	0	No Contact	9/5/2006	Pass		KC
46K04-0043	750181.5381	1005986.416	213	Mv	8/15/2006	123	0	0	No Contact	8/30/2006		-	
46K04-0060	750233.5	1005835.5	146	Mv	8/15/2006	73	0	0	No Contact	8/30/2006	Pass		KC
46K04-0133	750246.75	1005826.5	72	Mv	8/15/2006	29	0	0	No Contact	8/30/2006		-	
46K04-0140	750098.25	1005869.25	67	Mv	8/15/2006	65	0	0	No Contact	9/5/2006	Pass		KC
46K04-0141	750139.25	1005966.5	66	Mv	8/15/2006	33	0	0	No Contact	8/31/2006		-	
46K04-0143	750083.25	1005811.25	65	Mv	8/15/2006	43	0	0	No Contact	9/5/2006		-	
46K04-0160	750044.75	1005810.25	60	Mv	8/15/2006	30	0	0	No Contact	9/5/2006		-	
46K04-0162	750034.75	1005989.25	59	Mv	8/15/2006	54	0	0	No Contact	9/5/2006		-	
46K04-0164	750054	1005774	58	Mv	8/15/2006	32	0	0	No Contact	9/5/2006	Pass		KC
46K04-0165	750026.75	1005882	58	Mv	8/15/2006	42	0	0	No Contact	9/5/2006	Pass		KC
46K04-0468	750171.25	1005943.75	23	Mv	9/13/2006	23	0	0	No Contact	9/28/2006		-	
46K04-0997	750223.25	1005904.75	12	Mv	9/13/2006	12	0	0	No Contact	9/28/2006		-	
46K06-0004	750106.25	1006076.5	625	Mv	8/10/2006	333	0	0	No Contact	8/29/2006		-	
46K06-0011	750200.75	1006156.75	274	Mv	8/10/2006	52	0	0	No Contact	8/29/2006	Pass		KC
46K06-0012	750115.5	1006029	264	Mv	8/10/2006	125	0	0	No Contact	8/29/2006		-	
46K06-0028	750160.75	1006077.5	160	Mv	8/10/2006	114	0	0	No Contact	8/29/2006		-	
46K06-0045	750187.5	1006219.25	90	Mv	8/10/2006	63	0	0	No Contact	8/29/2006		-	
46K06-0062	750217.5	1006044.75	73	Mv	8/10/2006	36	0	0	No Contact	8/29/2006	Pass		KC
46K06-0063	750219.25	1006130	72	Mv	8/10/2006	80	0	0	No Contact	10/26/2006		-	
46K08-0146	750102.5	1006424.25	16	Mv	9/13/2006	16	0	0	No Contact	9/28/2006		-	
46K10-0022	750094.75	1006502	36	Mv	9/13/2006	36	0	0	No Contact	9/28/2006		-	
46K10-0079	750015.25	1006595.75	17	Mv	9/13/2006	17	0	0	No Contact	9/28/2006		-	

APPENDIX C
SEAD 46 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
	Location (ft)		Amp	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ²	QC Initials
	Easting (X)	Northing (Y)											
46M02-0015	750280.5	1005650.25	123	Mv	8/14/2006	89	0	0	No Contact	9/6/2006		-	
46M02-0081	750279.0825	1005743.163	16	Mv	9/13/2006	16	0	0	No Contact	9/28/2006		-	
46M04-0026	750357.0342	1005778.546	336	Mv	8/14/2006	152	0	0	No Contact	8/30/2006		Pass	KC
46M04-0033	750376.25	1005796.25	250	Mv	8/14/2006	125	0	0	No Contact	8/30/2006		Pass	KC
46M04-0037	750352.75	1005756.25	206	Mv	8/14/2006	112	0	0	No Contact	8/30/2006		Pass	KC
46M04-0042	750380.1645	1005788.173	189	Mv	8/14/2006	98	0	0	No Contact	8/30/2006		Pass	KC
46M04-0057	750285.75	1005947.25	102	Mv	8/14/2006	79	0	0	No Contact	8/30/2006		-	
46M04-0069	750301.25	1005949	76	Mv	8/14/2006	43	0	0	No Contact	8/30/2006		-	
46M04-0076	750329.75	1005962.75	63	Mv	8/14/2006	33	0	0	No Contact	8/30/2006		Pass	KC
46M04-0086	750315	1005966.5	54	Mv	8/14/2006	26	0	0	No Contact	8/30/2006		Pass	KC
46M04-0089	750360.5	1005779.75	51	Mv	8/14/2006	56	0	0	No Contact	8/30/2006		Pass	KC
46M04-0093	750364	1005964	48	Mv	9/13/2006	48	0	0	No Contact	9/28/2006		-	
46M04-0104	750316.25	1005793.25	43	Mv	9/13/2006	43	0	0	No Contact	9/28/2006		-	
46M04-0541	750341.25	1005935.25	13	Mv	9/13/2006	13	0	0	No Contact	9/28/2006		-	
46M06-0004	750298.25	1006050.5	318	Mv	8/16/2006	153	0	0	No Contact	8/30/2006		-	
46M06-0012	750259.25	1006118.5	44	Mv	9/13/2006	44	0	0	No Contact	9/28/2006		-	
46M06-0026	750260.75	1006020.5	27	Mv	9/13/2006	27	0	0	No Contact	9/28/2006		-	

Notes:

- 1) DGM survey coordinates were obtained from Shaw E & I Inc SEAD-46/57 Completion Report. GPS survey coordinates were produced by Parsons.
- 2) QC Code (-) indicates the Anomaly was not QC'ed, (Pass) indicates the Anomaly was QC'ed and was acceptable.

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Easting (X)	Northing (Y)	Amp ²	Amp Unit	Date	Amp					Item Description	QC		
SEAD-57	57M16-0018	739320.25	1010034.5	338	Mv	6/6/2006	152	30	0	Cultural Debris	6/10/2006	Trash	-		
SEAD-57	57G14-0019	738576.75	1009977	3160	Mv	6/13/2006	1732	24	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57M12-0202	739399.75	1009667.5	195	Mv	6/2/2006	999	24	1	Cultural Debris	6/7/2006	Trash	Pass	KC	
SEAD-57	57M14-0033	739430	1009824.75	850	Mv	6/6/2006	490	24	10	Cultural Debris	7/5/2006	Steel scam. Same as flag m14-0077, 0033,0034	-		
SEAD-57	57M14-0034	739433.25	1009825	810	Mv	6/6/2006	368	24	10	Cultural Debris	7/5/2006	Steel scam. Same as flag m14-0077, 0033,0034	-		
SEAD-57	57M14-0071	739462	1009817.25	289	Mv	6/6/2006	114	24	2	Munitions Debris	7/5/2006	Frag 8"	Pass	KC	
SEAD-57	57M14-0077	739355.25	1009928	249	Mv	6/6/2006	130	24	10	Cultural Debris	7/5/2006	Steel scam. Same as flag m14-0077, 0033,0034	-		
SEAD-57	57M16-0005	739268	1010135.5	1107	Mv	6/6/2006	440	24	0	Cultural Debris	6/10/2006	Grounding rod	-		
SEAD-57	G09-023	738711.41	1009231.83	4047	nT	8/8/2006	4047	24	12	Cultural Debris	8/9/2006	Conex Box door [could not remove]	-		
SEAD-57	57G16-0025	738613	1010001	817	Mv	6/12/2006	420	22	1	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	F08-010	738528.13	1009027.19	22	nT	8/8/2006	22	22	0	Hot Soil	8/9/2006		-		
SEAD-57 Buffer	C14-015B1	738174.947	1009915.71	634	mV	10/16/2006	634	20	0	Cultural Debris	7/20/2006	16" pipe found near B flag	-		
SEAD-57 Buffer	C14-028	738171.5	1009911.25	31	mV	9/28/2006	31	20	12	Cultural Debris	10/5/2006	pipe	Pass	KC	
SEAD-57	57E14-0024	738301.25	1009927	513	Mv	6/28/2006	250	18	1	Cultural Debris	6/29/2006	Pipe	-		
SEAD-57	57E14-0094	738302.25	1009923.75	131	Mv	6/28/2006	150	18	1	Cultural Debris	6/29/2006	Pipe	-		
SEAD-57	57G14-0027	738632.5	1009993.75	1921	Mv	7/11/2006	960	18	3	Cultural Debris	7/12/2006	Pipe	-		
SEAD-57	57K14-0101	739089.75	1009905.25	204	Mv	6/12/2006	81	18	24	Cultural Debris	6/13/2006	Hinge and nail trash pit	-		
SEAD-57	57K14-0142	739243.25	1009845.25	137	Mv	6/5/2006	2500	18	0	Cultural Debris	6/12/2006	Culvert	-		
SEAD-57	57K14-0154	739105.75	1009822.25	128	Mv	6/12/2006	75	18	4	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0285	739103.5	1009824.75	51	Mv	6/12/2006	26	18	4	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57M14-0021	739357	1009848.5	1943	Mv	6/6/2006	602	18	0	Cultural Debris	6/7/2006	Steel, 12" x 12"	Pass	KC	
SEAD-57	57M14-0105	739335.5	1009816.5	130	Mv	6/5/2006	55	18	1	Cultural Debris	7/5/2006	Wire	Pass	KC	
SEAD-57	57M14-0123	739341	1009842.5	103	Mv	6/6/2006	60	18	12	Cultural Debris	6/7/2006	Steel bolt, 12"	-		
SEAD-57	57O12-0003	739512.5	1009632	29664	Mv	6/5/2006	2765	18	0	Cultural Debris	6/6/2006	Depth 1" to 18", wire 3' continued digging to a 2' diameter. Removed 20 lbs of wire, various size.	-		
SEAD-57	H08-003	738802.876	1009062.4	24	nT	9/6/2006	24	18	4	Hot Soil	9/8/2006	hot rock	-		
SEAD-57	K12-003	739164.939	1009524.58	7	nT	10/16/2006	6	18	3	Hot Soil	10/19/2006	Large hot rock	Pass	KC	
SEAD-57 Buffer	C14-027	738159.5	1009904	18	mV	9/28/2006	18	18	5	Munitions Debris	10/5/2006	Frag	Pass	KC	
SEAD-57	57G16-0069	738609	1010016.5	131	Mv	6/12/2006	65	17	1	Cultural Debris	6/15/2006	Survey stake	-		
SEAD-57	57K14-0218	739090.5	1009909.5	76	Mv	6/8/2006	96	16	24	Cultural Debris	6/13/2006	Scrap pile hiinges and nails	-		
SEAD-57 Buffer	A14-143	738093.75	1009990.25	30	mV	9/28/2006	30	16	4	Munitions Debris	10/5/2006	Frag	Pass	KC	
SEAD-57 Buffer	C14-001	738195.5	1009948	369	mV	9/28/2006	369	16	8	Cultural Debris	10/4/2006	Seed Item	Pass	KC	
SEAD-57 Buffer	C14-002	738195.5	1009950.75	602	mV	9/28/2006	602	16	10	Cultural Debris	10/4/2006	Seed Item	Pass	KC	
SEAD-57 Buffer	C14-015	738184.5	1009921.5	2762	mV	9/28/2006	2762	16	18	Cultural Debris	10/5/2006	Seed item	Pass	KC	
SEAD-57	57G14-0439	738532.75	1009973	50	Mv	6/13/2006	15	15	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57E08-0098	738466	1009095	163	Mv	6/22/2006	80	14	12	Cultural Debris	6/26/2006	Seed Item	-		
SEAD-57	57E14-0021	738451.75	1009793	547	Mv	6/28/2006	160	14	8	Cultural Debris	6/29/2006	Trash	Pass	KC	
SEAD-57	57G14-0390	738610.75	1009883.75	62	Mv	6/13/2006	31	14	18	Cultural Debris	6/19/2006	Trash	Pass	KC	
SEAD-57	57K14-0221	739157.5	1009818.75	74	Mv	6/5/2006	22	14	0	Cultural Debris	6/5/2006	Trash	-		
SEAD-57	57K14-0272	739091.25	1009997.75	54	Mv	6/12/2006	22	14	4	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57M14-0075	739274.5	1009813.75	263	Mv	8/22/2006	137	14	10	Cultural Debris	8/22/2006	Steel scrap. Anomalies M14-0075 & M14-0082 are th same item.	-		
SEAD-57	57M14-0082	739276.5	1009812.5	221	Mv	8/22/2006	134	14	10	Cultural Debris	8/22/2006	Steel scrap. Anomalies M14-0075 & M14-0082 are th same item.	-		
SEAD-57	57M14-0190	739372.5	1009859.25	54	Mv	6/6/2006	26	14	0	Cultural Debris	6/7/2006	Steel wire	Pass	KC	
SEAD-57	F13-019	738566.955	1009630.774	13	nT	10/17/2006	13	14	14	Hot Soil	10/19/2006	rock	-		
SEAD-57	H07-017	738850.96	1008967.67	5	nT	8/8/2006	5	14	3	Hot Soil	8/9/2006	Hotrock	-		
SEAD-57	I12-002	738955.771	1009546.929	14	nT	9/6/2006	14	14	12	Hot Soil	9/8/2006	Large hot rock	Pass	KC	
SEAD-57 Buffer	G18-035	738801.25	1010357.5	28	mV	9/26/2006	28	14	20	Munitions Debris	10/3/2006	Frag	-		
SEAD-57	57G14-0050	738597.5	1009954.75	1156	Mv	7/11/2006	448	13	10	Cultural Debris	7/12/2006	Pipe could not remove	-		
SEAD-57	57C14-0024	738169.75	1009751	3298	Mv	6/14/2006	1095	12	24	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0038	738221.25	1009907.75	414	Mv	6/14/2006	194	12	3	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0050	738241.5	1009800.75	250	Mv	6/14/2006	163	12	8	Cultural Debris	6/15/2006	Trash, Same as 0058 and 0060	-		
SEAD-57	57C14-0112	738192	1009869.25	57	Mv	6/14/2006	23	12	8	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G04-0107	738520.25	1008722.5	93	Mv	6/20/2006	60	12	10	Cultural Debris	6/20/2006	SEED item #4 Anomalies G04-0107 and G04-0144 are the same item.	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G04-0138	738600.75	1008620	69	Mv	6/20/2006	50	12	14	Cultural Debris	6/20/2006	Steel scrap	-	
SEAD-57	57G04-0144	738520	1008725.5	65	Mv	6/20/2006	35	12	10	Cultural Debris	6/20/2006	SEED item #4 Anomalies G04-0107 and G04-0144 are the same item.	-	
SEAD-57	57G14-0041	738596	1009892.25	1475	Mv	6/13/2006	736	12	2	Cultural Debris	6/19/2006	fence gate	Pass	KC
SEAD-57	57G14-0091	738562.25	1009974	491	Mv	6/13/2006	101	12	2	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0135	738592.75	1009939	293	Mv	7/11/2006	200	12	20	Cultural Debris	7/12/2006	Trash	-	
SEAD-57	57G14-0222	738572	1009961.5	159	Mv	6/13/2006	70	12	3	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57I04-0128	738992.25	1008633.75	94	Mv	6/29/2006	60	12	6	Cultural Debris	7/7/2006	Seed Item .03	-	
SEAD-57	57I14-0077	738801.5	1009901.25	389	Mv	6/22/2006	190	12	24	Cultural Debris	6/27/2006	Numerous nails	-	
SEAD-57	57K14-0069	739022.75	1009876.25	289	Mv	6/8/2006	104	12	24	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0191	739005.25	1009986.75	94	Mv	6/12/2006	35	12	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0245	739221.75	1009907.5	64	Mv	6/8/2006	42	12	3	Cultural Debris	6/12/2006	Alum piece, 2 in Depth, 1 in Long, and 6 in from flag. Also half of Horseshoe, 12 in Depth, 6 in Long, and 3 in from flag.	-	
SEAD-57	57M12-0166	739494.25	1009629.75	293	Mv	6/2/2006	999	12	0	Cultural Debris	6/6/2006	Scrap metal, Anomaly M12-0166 and M12-0276 same item.	Pass	KC
SEAD-57	57M12-0186	739305.75	1009732.5	252	Mv	6/2/2006	999	12	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0230	739271.25	1009723.5	150	Mv	6/2/2006	999	12	1	Cultural Debris	6/5/2006	COE seed item #1	-	
SEAD-57	57M12-0249	739414	1009644.75	131	Mv	6/2/2006	999	12	4	Cultural Debris	6/7/2006	Steel scrap, Anomalies M12-0255 and M12-0249 are same item.	-	
SEAD-57	57M12-0255	739412.25	1009643.5	127	Mv	6/2/2006	999	12	4	Cultural Debris	6/7/2006	Steel scrap, Anomalies M12-0255 and M12-0249 are same item.	-	
SEAD-57	57M12-0276	739492	1009630	106	Mv	6/2/2006	999	12	0	Cultural Debris	6/6/2006	Scrap metal, Anomaly M12-0166 and M12-0276 same item.	Pass	KC
SEAD-57	57M12-0343	739488.75	1009594.5	69	Mv	6/2/2006	999	12	0	Cultural Debris	6/6/2006	Remains of a wet cell battery; hole could not be cleared.	-	
SEAD-57	57M14-0137	739347.5	1009765.25	93	Mv	6/5/2006	83	12	1	Cultural Debris	7/5/2006	Cultural debris	Pass	KC
SEAD-57	57M14-0178	739338	1009764	60	Mv	6/5/2006	25	12	1	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57O12-0018	739505.25	1009627	170	Mv	6/5/2006	135	12	0	Cultural Debris	6/6/2006	1wire piece 12" long	-	
SEAD-57	57O12-0019	739512	1009683.75	162	Mv	6/5/2006	121	12	6	Cultural Debris	7/5/2006	Wire same as flag O12-0021,0022,0019	-	
SEAD-57	57O12-0021	739514.75	1009686.5	141	Mv	6/5/2006	72	12	6	Cultural Debris	7/5/2006	Wire same as flag O12-0021,0022,0019	-	
SEAD-57	57O12-0022	739514.5	1009682.75	135	Mv	6/5/2006	65	12	6	Cultural Debris	7/5/2006	Wire same as flag O12-0021,0022,0019	-	
SEAD-57	F06-001	738552.512	1008870.183	10	nT	10/16/2006	10	12	10	Hot Soil	10/19/2006		-	
SEAD-57	F11-poly1a	738581.076	1009557.999	1	nT	10/16/2006	1	12	12	Hot Soil	7/20/2006	Hot rock	-	
SEAD-57	F12-012	738523.129	1009546.624	31	nT	10/17/2006	31	12	12	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	F12-015	738499.545	1009593.575	6	nT	10/17/2006	5	12	16	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	F13-011	738535.563	1009693.657	26	nT	10/17/2006	27	12	13	Cultural Debris	10/19/2006		-	
SEAD-57	F13-027	738611.731	1009671.909	13	nT	10/17/2006	14	12	40	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	F13-034	738609.566	1009730.757	38	nT	10/17/2006	39	12	36	Cultural Debris	10/19/2006	same as f13-35	Pass	KC
SEAD-57	F13-035	738605.236	1009727.904	54	nT	10/17/2006	54	12	28	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	G07-002	738721.045	1008964.402	23	nT	9/6/2006	22	12	6	Hot Soil	9/7/2006	Hot rock	-	
SEAD-57	I10-006	738960.95	1009305.43	22	nT	8/8/2006	22	12	7	Hot Soil	8/9/2006	Hot rock	-	
SEAD-57	I11-008	738907.18	1009418.33	26	nT	8/8/2006	26	12	7	Hot Soil	8/10/2006	Hot rock	Pass	KC
SEAD-57	I11-033	738931.31	1009448.25	55	nT	8/8/2006	55	12	5	Hot Soil	8/10/2006	Hot rock	-	
SEAD-57	I12-010	738899.981	1009534.471	46	nT	9/6/2006	46	12	6	Hot Soil	9/8/2006	Large hot rock	Pass	KC
SEAD-57 Buffer	C14-004	738191.25	1009961.75	16	mV	9/28/2006	16	12	24	Cultural Debris	10/4/2006	Seed Item	Pass	KC
SEAD-57 Buffer	C14-015A2	738178.496	1009931.326	634	mV	10/16/2006	634	12	0	Cultural Debris	7/20/2006	14" pipe found near A flag	-	
SEAD-57	57C14-0098	738186	1009882.25	78	Mv	6/14/2006	30	11	10	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0387	738586.5	1009964.25	62	Mv	6/13/2006	40	11	5	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G16-0059	738611.75	1010006.75	166	Mv	6/12/2006	72	11	2	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	P57K08-14	739231	1009161	42	Mv	7/10/2006	50	11	10	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC
SEAD-57 Buffer	E16-030	738503.5	1010094.5	22	mV	10/2/2006	22	11	16	Cultural Debris	10/4/2006		Pass	KC
SEAD-57	57C14-0039	738225.25	1009878	413	Mv	6/14/2006	115	10	8	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57C14-0044	738228.25	1009877.5	336	Mv	6/14/2006	195	10	8	Cultural Debris	6/15/2006	Trash, Same as 0039	Pass	KC
SEAD-57	57C14-0058	738239.322	1009803.734	166	Mv	6/14/2006	100	10	20	MPPEH	6/21/2006	Nose of 57mm AP	-	
SEAD-57	57E12-0056	738447.25	1009679.75	154	Mv	6/29/2006	120	10	6	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0133	738437.5	1009662	51	Mv	6/29/2006	25	10	12	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E14-0011	738476	1009815.75	1266	Mv	6/28/2006	300	10	14	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0067	738493.75	1009966.5	227	Mv	6/28/2006	150	10	12	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57G14-0013	738594	1009950.75	5026	Mv	7/11/2006	5000	10	8	Cultural Debris	7/12/2006	Same pipe as 0021 could not remove	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G14-0021	738598.25	1009941.25	2861	Mv	7/11/2006	600	10	8	Cultural Debris	7/12/2006	Pipe	-	
SEAD-57	57G14-0067	738730.25	1009771	709	Mv	6/13/2006	570	10	2	Cultural Debris	6/15/2006	Copper wire	-	
SEAD-57	57G14-0086	738608.75	1009936.75	533	Mv	7/11/2006	256	10	20	Cultural Debris	7/12/2006	Steel debris could not remove	-	
SEAD-57	57G14-0140	738635	1009820.25	284	Mv	6/13/2006	845	10	18	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0189	738611.5	1009890	200	Mv	6/13/2006	98	10	12	Cultural Debris	6/19/2006	Bottle cap	Pass	KC
SEAD-57	57G14-0201	738639.75	1009767.75	184	Mv	6/13/2006	130	10	24	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57I04-0042	738784.25	1008641.75	291	Mv	6/29/2006	385	10	0	Cultural Debris	7/7/2006	Matel pipe	-	
SEAD-57	57I14-0206	738846.75	1009993	126	Mv	6/22/2006	45	10	10	Munitions Debris	6/28/2006	Frag	Pass	KC
SEAD-57	57I14-0337	738876.25	1009953	64	Mv	6/22/2006	33	10	10	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57K14-0005	739074.25	1009781	4439	Mv	6/12/2006	1840	10	3	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0067	739103.5	1009896.75	321	Mv	6/8/2006	40	10	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0073	739136.5	1009838.5	266	Mv	6/5/2006	47	10	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0172	739138	1009886.5	108	Mv	6/8/2006	25	10	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0193	739045	1009868.5	90	Mv	6/8/2006	27	10	8	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0223	739100.25	1009911.75	73	Mv	6/8/2006	20	10	10	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0277	739077.5	1009990.5	53	Mv	6/8/2006	20	10	8	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0290	739121	1009811.25	50	Mv	6/5/2006	27	10	10	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K16-0009	739205.75	1010137.5	3104	Mv	6/7/2006	1400	10	0	Cultural Debris	8/23/2006	Angel iron 24" long	-	
SEAD-57	57M06-0103	739357	1008940.25	20	Mv	8/22/2006	15	10	0	Cultural Debris	8/22/2006	Wire 5 pieces	-	
SEAD-57	57M06-0104	739368.25	1008988.25	19	Mv	8/22/2006	23	10	0	Cultural Debris	8/22/2006	wire 5 pieces	-	
SEAD-57	57M08-0003	739484.605	1009015.791	810	Mv	6/5/2006	90	10	0	Cultural Debris	7/5/2006	10pc wire	-	
SEAD-57	57M10-0042	739477.25	1009315	65	Mv	8/1/2006	65	10	0	Cultural Debris	8/22/2006	Alum 2" x 2"	Pass	KC
SEAD-57	57M14-0003	739269.75	1009841.125	541741	Mv	6/5/2006	3000	10	1	Cultural Debris	6/20/2006	Culvert	-	
SEAD-57	57M14-0024	739258.5	1009780.75	1432	Mv	6/5/2006	1300	10	8	Cultural Debris	7/5/2006	Steel scrap same as flag 57m14 0024,0029,0143	-	
SEAD-57	57M14-0029	739261.25	1009780.25	1077	Mv	6/5/2006	120	10	8	Cultural Debris	7/5/2006	Steel scrap same as flag 57m14 0024,0029,0143	-	
SEAD-57	57M14-0063	739262.053	1009753.497	328	Mv	6/6/2006	85	10	6	Cultural Debris	7/5/2006	Wire	-	
SEAD-57	57M14-0120	739389.25	1009816.25	109	Mv	6/6/2006	43	10	6	Cultural Debris	7/5/2006	Culture debris scrap	-	
SEAD-57	57M14-0143	739261.25	1009776.5	88	Mv	6/5/2006	0	10	8	Cultural Debris	7/5/2006	Steel scrap same as flag 57m14 0024,0029,0143	-	
SEAD-57	57M14-0160	739418.25	1009819	67	Mv	6/6/2006	10	10	10	Cultural Debris	7/5/2006	Wire	-	
SEAD-57	F12-007	738513.005	1009524.833	7	nT	10/17/2006	7	10	24	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	F12-026	738558.915	1009569.482	12	nT	10/17/2006	13	10	16	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	F13-008	738511.453	1009695.724	5	nT	10/17/2006	5	10	29	Cultural Debris	10/19/2006	Frag	Pass	KC
SEAD-57	F13-033	738617.045	1009738.433	22	nT	10/17/2006	22	10	32	Cultural Debris	10/19/2006	Frag	-	
SEAD-57	G06-005	738722.113	1008822.683	10	nT	9/6/2006	10	10	8	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	G06-031	738739.06	1008801.866	25	nT	9/6/2006	21	10	8	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	G07-001	738728.919	1008966.404	15	nT	9/6/2006	15	10	24	Cultural Debris	9/7/2006	Frag	Pass	KC
SEAD-57	H08-023	738814.022	1009114.891	47	nT	9/6/2006	47	10	24	Cultural Debris	9/8/2006		-	
SEAD-57	I10-001	738996.94	1009339.58	59	nT	8/8/2006	59	10	4	Cultural Debris	8/9/2006		-	
SEAD-57	J10-004	739061.175	1009294.34	16	nT	9/6/2006	16	10	18	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	P57K10-171	739222.75	1009295.75	24	Mv	7/11/2006	25	10	14	Munitions Debris	7/18/2006	Alum MD Alum MD	-	
SEAD-57	P57K10-46	739220.5	1009428.25	22	Mv	7/13/2006	23	10	14	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57M10-45	739270.5	1009316.25	31	Mv	7/10/2006	39	10	6	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-65	739261.25	1009273	22	Mv	7/10/2006	44	10	8	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-91	739254.5	1009465.75	26	Mv	7/10/2006	47	10	24	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-102	737926.75	1009834	18	mV	9/28/2006	18	10	8	Cultural Debris	10/4/2006	Barbed wire, did not remove all of it.	Pass	KC
SEAD-57 Buffer	E18-022	738567.25	1010327.75	18	mV	9/26/2006	18	10	15	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-001	738708	1010342.5	40	mV	9/26/2006	40	10	24	Cultural Debris	10/3/2006	Bolt	Pass	KC
SEAD-57	57C14-0082	738091.25	1009772.5	115	Mv	6/14/2006	135	9	20	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57E12-0017	738448.25	1009676.75	268	Mv	6/29/2006	30	9	2	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E14-0020	738473.5	1009817.25	548	Mv	6/28/2006	205	9	10	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0105	738285.5	1009768.75	109	Mv	6/28/2006	70	9	6	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57G04-0023	738716	1008709.5	210	Mv	6/20/2006	135	9	6	Cultural Debris	6/21/2006	Tear gas container	-	
SEAD-57	57I16-0075	738753.25	1010118.25	74	Mv	6/12/2006	40	9	0	Cultural Debris	6/14/2006	Pipe 1/2 x 3 in	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description			
		Easting (X)	Northing (Y)												
SEAD-57	57I16-0175	738855.25	1010128.25	32	Mv	9/11/2006	32	9	12	Munitions Debris	9/25/2006	Frag	-		
SEAD-57	57I16-0318	738799.75	1010127	18	Mv	9/11/2006	18	9	6	Cultural Debris	9/25/2006		-		
SEAD-57	57K14-0043	739232.75	1009840.75	450	Mv	6/5/2006	550	9	4	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57M16-0178	739262.25	1010136	28	Mv	9/11/2006	28	9	7	Munitions Debris	9/21/2006	Small Arms, .50 cal head	Pass	KC	
SEAD-57	F09-012	738545.96	1009138.11	9	nT	8/8/2006	9	9	5	Cultural Debris	8/9/2006	Trash	Pass	KC	
SEAD-57	F13-025	738588.999	1009677.617	11	nT	10/17/2006	12	9	13	Cultural Debris	10/19/2006		Pass	KC	
SEAD-57	H10-053	738838.218	1009299.647	46	nT	10/17/2006	46	9	28	Cultural Debris	10/25/2006	Piece of magnet	-		
SEAD-57	P57K08-102	739202.25	1009144	17	Mv	7/10/2006	22	9	14	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K10-111	739235	1009370.25	25	Mv	7/13/2006	37	9	2	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-144	739210.5	1009269.25	41	Mv	7/11/2006	44	9	4	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-61	739194.75	1009412	16	Mv	7/13/2006	23	9	24	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-8	739224.5	1009478.75	22	Mv	7/13/2006	31	9	7	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57M10-90	739254.75	1009463.75	27	Mv	7/10/2006	44	9	14	Munitions Debris	7/10/2006	Frag	-		
SEAD-57 Buffer	A14-065	738034.5	1009832.5	120	mV	9/28/2006	120	9	18	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	C16-031	738256.5	1010016.75	321	mV	9/28/2006	321	9	5	Cultural Debris	10/4/2006		Pass	KC	
SEAD-57 Buffer	C18-006	738290.5	1010265	24	mV	9/26/2006	24	9	13	Munitions Debris	10/4/2006	Frag	Pass	KC	
SEAD-57 Buffer	G18-041	738734.25	1010311.25	33	mV	9/27/2006	33	9	24	Munitions Debris	10/3/2006	Frag	-		
SEAD-57 Buffer	M16-001	739402.25	1010226	31	mV	9/26/2006	31	9	8	Munitions Debris	9/28/2006	Frag	Pass	KC	
SEAD-57	57C14-0047	738106	1009763.25	315	Mv	6/14/2006	184	8	8	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0053	738103	1009762.25	238	Mv	6/14/2006	129	8	8	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0084	738102.5	1009771.5	113	Mv	6/14/2006	130	8	8	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0100	738199.5	1009762.25	76	Mv	6/14/2006	50	8	20	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0248	738234.5	1009807.25	16	Mv	9/11/2006	16	8	12	Munitions Debris	9/21/2006	Frag	Pass	KC	
SEAD-57	57E10-0262	738458.5	1009460.25	34	Mv	9/11/2006	34	8	10	Munitions Debris	9/20/2006	Frag	Pass	KC	
SEAD-57	57E12-0080	738442.5	1009719.75	122	Mv	6/29/2006	45	8	3	Cultural Debris	7/7/2006	Trash	-		
SEAD-57	57E14-0045	738326.75	1009780.75	333	Mv	7/5/2006	333	8	12	Cultural Debris	7/19/2006	Steel scrap	-		
SEAD-57	57E14-0056	738278	1009878.5	256	Mv	6/28/2006	25	8	2	Cultural Debris	6/29/2006	Trash	Pass	KC	
SEAD-57	57E14-0074	738323.232	1009779.713	209	Mv	7/5/2006	209	8	12	Cultural Debris	7/19/2006	Steel scrap	-		
SEAD-57	57E14-0177	738446.75	1009946.25	58	Mv	6/21/2006	25	8	8	Cultural Debris	6/27/2006	Trash	-		
SEAD-57	57G04-0037	738674.25	1008735	179	Mv	6/20/2006	90	8	4	Munitions Debris	6/20/2006	Alum MD	-		
SEAD-57	57G04-0040	738736.75	1008728.75	174	Mv	6/20/2006	100	8	24	Munitions Debris	6/21/2006	Frag	-		
SEAD-57	57G04-0048	738736	1008732	160	Mv	6/20/2006	120	8	24	Munitions Debris	6/21/2006	Frag	-		
SEAD-57	57G04-0161	738512	1008645.75	51	Mv	6/20/2006	20	8	12	Cultural Debris	6/20/2006	Steel scrap	-		
SEAD-57	57G04-0164	738733.25	1008741.5	50	Mv	6/20/2006	50	8	24	Munitions Debris	6/20/2006	Alum MD	-		
SEAD-57	57G14-0002	738531.75	1009801.75	386185	Mv	6/14/2006	3000	8	2	Cultural Debris	6/19/2006	Culvert.	-		
SEAD-57	57G14-0066	738577	1009961.25	764	Mv	6/13/2006	124	8	3	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0096	738602.5	1009969.25	471	Mv	7/11/2006	183	8	0	Cultural Debris	7/12/2006	Pipe same as 0035	-		
SEAD-57	57G14-0105	738617.5	1009784.25	430	Mv	6/13/2006	176	8	22	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0114	738734.75	1009761.25	411	Mv	6/13/2006	230	8	6	Cultural Debris	6/15/2006	Trash	Pass	KC	
SEAD-57	57G14-0180	738747.5	1009965.75	210	Mv	6/14/2006	150	8	1	Munitions Debris	6/15/2006	Frag	Pass	KC	
SEAD-57	57G14-0212	738626.75	1009844	174	Mv	6/13/2006	88	8	18	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57G14-0216	738745	1009980	171	Mv	6/14/2006	100	8	1	Munitions Debris	6/15/2006	Frag	Pass	KC	
SEAD-57	57G14-0297	738723.25	1009864.25	94	Mv	6/13/2006	48	8	10	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G14-0332	738551	1009959.75	79	Mv	6/13/2006	40	8	2	Cultural Debris	6/15/2006	Trash	Pass	KC	
SEAD-57	57G14-0360	738590.75	1009974	69	Mv	7/11/2006	12	8	24	Cultural Debris	7/12/2006	Trash	-		
SEAD-57	57G14-0404	738589.75	1009968	59	Mv	6/13/2006	82	8	4	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G16-0005	738599	1010083	5688	Mv	6/12/2006	3000	8	0	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57G16-0081	738612.25	1010017.25	89	Mv	6/12/2006	60	8	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57G16-0177	738584.75	1010037.25	29	Mv	9/11/2006	29	8	16	Munitions Debris	9/25/2006	Frag	-		
SEAD-57	57I04-0163	738789	1008624	67	Mv	6/29/2006	60	8	0	Cultural Debris	7/7/2006	Wire	Pass	KC	
SEAD-57	57I14-0022	738814.75	1009980.75	1559	Mv	6/22/2006	25	8	12	Munitions Debris	7/19/2006	Steel MD Frag	-		
SEAD-57	57I14-0079	738806.5	1009868.25	381	Mv	6/22/2006	150	8	0	Cultural Debris	6/27/2006	Trash	-		
SEAD-57	57I14-0272	738751.75	1009838.25	89	Mv	6/28/2006	74	8	0	Cultural Debris	10/24/2006	Tent stake	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57I14-0386	738877.75	1009943.75	51	Mv	6/22/2006	25	8	7	Munitions Debris	6/28/2006	Small Arms, .50 cal head	-	
SEAD-57	57I16-0212	738960.75	1010182.5	27	Mv	9/11/2006	27	8	14	Cultural Debris	9/25/2006	Scrap metal	-	
SEAD-57	57I16-0233	738811.75	1010116	25	Mv	9/11/2006	25	8	13	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57K12-0206	739062.25	1009635	127	Mv	6/1/2006	999	8	0	Cultural Debris	6/8/2006	Steel scrap, 1" x 1"; and Alum scrap, 3"	-	
SEAD-57	57K14-0001	739239.5	1009842	25310	Mv	6/5/2006	3400	8	0	Cultural Debris	6/14/2006	Culvert	Pass	KC
SEAD-57	57K14-0019	739106	1009904.75	1097	Mv	6/8/2006	390	8	24	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0021	739024.25	1009855.5	983	Mv	6/6/2006	983	8	4	Cultural Debris	8/1/2006	Steel scrap. Anomalies K14-0016 and K14-0021 are the same item.	-	
SEAD-57	57K14-0026	739024.25	1009898.75	787	Mv	6/8/2006	300	8	4	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0046	739089.5	1009898.25	437	Mv	6/8/2006	203	8	24	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0055	739122.5	1009903	372	Mv	6/8/2006	322	8	24	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0060	739130.75	1009892.5	348	Mv	6/8/2006	177	8	12	Cultural Debris	6/14/2006	Steel scrap	-	
SEAD-57	57K14-0066	739020.75	1009944.75	326	Mv	6/8/2006	200	8	6	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0093	739176.5	1009872.75	219	Mv	6/8/2006	99	8	10	Cultural Debris	6/12/2006	Steel, K12 0150 associated with anomaly	-	
SEAD-57	57K14-0150	739173	1009872	130	Mv	6/8/2006	76	8	10	Cultural Debris	6/12/2006	Steel, K14 0093 associated with anomaly	-	
SEAD-57	57K14-0158	739148.75	1009893.75	120	Mv	6/8/2006	75	8	12	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0166	739098.735	1009903.51	114	Mv	6/12/2006	90	8	24	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0169	739152.5	1009824.25	111	Mv	6/5/2006	33	8	1	Cultural Debris	8/1/2006	Steel scrap. Anomalies K14-0169 and K14-0255 are the same item.	-	
SEAD-57	57K14-0171	739117.75	1009898.25	109	Mv	6/8/2006	45	8	22	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0176	739154.25	1009807.5	106	Mv	6/5/2006	0	8	2	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0188	739026.75	1009905.25	94	Mv	6/8/2006	64	8	1	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57K14-0196	739108.25	1009788.5	86	Mv	6/12/2006	37	8	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0203	739224.5	1009789.25	83	Mv	6/5/2006	90	8	3	Cultural Debris	6/7/2006	Steel. Anomalies K14-0247 and K14-0203 and same item.	-	
SEAD-57	57K14-0235	739128	1009807.25	67	Mv	6/5/2006	17	8	1	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0247	739220.75	1009790.5	63	Mv	6/5/2006	40	8	3	Cultural Debris	6/7/2006	Steel. Anomalies K14-0247 and K14-0203 and same item.	-	
SEAD-57	57K14-0250	739119.25	1009779	63	Mv	7/19/2006	34	8	24	Cultural Debris	10/26/2006	Trash	-	
SEAD-57	57K14-0255	739155.75	1009823.5	60	Mv	6/5/2006	999	8	1	Cultural Debris	8/1/2006	Steel scrap. Anomalies K14-0169 and K14-0255 are the same item.	-	
SEAD-57	57K16-0076	739163.5	1010114.25	126	Mv	6/6/2006	44	8	0	Cultural Debris	8/23/2006	Alum strip 1" x 2"	Pass	KC
SEAD-57	57M06-0009	739473.5	1008973.75	106	Mv	6/5/2006	101	8	0	Cultural Debris	7/5/2006	Steel 1"x1"	-	
SEAD-57	57M08-0005	739486.125	1009011.5	595	Mv	6/5/2006	95	8	0	Cultural Debris	7/5/2006	5pc wire	Pass	KC
SEAD-57	57M08-0015	739435.25	1009242.5	188	Mv	6/5/2006	999	8	1	Cultural Debris	7/5/2006	Alum	Pass	KC
SEAD-57	57M08-0034	739452.25	1009216.25	81	Mv	6/5/2006	999	8	1	Cultural Debris	8/22/2006	Alum	-	
SEAD-57	57M10-0010	739301	1009495	333	Mv	6/2/2006	999	8	0	Munitions Debris	7/5/2006	Frag 1"x5"	-	
SEAD-57	57M12-0006	739499.5	1009637.5	143826	Mv	6/2/2006	999	8	0	Cultural Debris	6/6/2006	Scrap metal, 8" x 30"; and 4 brass casings. Anomalies M12-0006 and M12-0126 are for the same item.	-	
SEAD-57	57M12-0126	739499.25	1009632.75	554	Mv	6/2/2006	999	8	0	Cultural Debris	6/6/2006	Scrap metal, 8" x 30"; and 4 brass casings. Anomalies M12-0006 and M12-0126 are for the same item.	-	
SEAD-57	57M12-0232	739399.75	1009628.25	150	Mv	6/2/2006	999	8	4	Cultural Debris	6/7/2006	Steel scrap	-	
SEAD-57	57M12-0247	739487.5	1009695.5	134	Mv	6/2/2006	999	8	2	Cultural Debris	6/7/2006	Trash	Pass	KC
SEAD-57	57M12-0350	739426	1009642	67	Mv	6/2/2006	999	8	4	Cultural Debris	6/7/2006	Steel scrap	-	
SEAD-57	57M12-0362	739357	1009505	62	Mv	6/2/2006	999	8	0	Cultural Debris	7/5/2006	Alum strip 1"x3"	-	
SEAD-57	57M14-0001	739264	1009841.25	595473	Mv	6/5/2006	3000	8	1	Cultural Debris	6/20/2006	Culvert	-	
SEAD-57	57M14-0018	739260.5	1009787.25	2379	Mv	6/5/2006	1100	8	1	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57M14-0073	739310.25	1009785.25	282	Mv	6/5/2006	115	8	1	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M14-0111	739362.25	1009860.5	120	Mv	6/6/2006	55	8	8	Cultural Debris	6/7/2006	Steel. Anomalies M14-0111 and M14-0130 are the same item	-	
SEAD-57	57M14-0130	739359.5	1009862.75	97	Mv	6/6/2006	116	8	8	Cultural Debris	6/7/2006	Steel. Anomalies M14-0111 and M14-0130 are the same item	Pass	KC
SEAD-57	57M14-0188	739339.75	1009846.25	54	Mv	6/6/2006	99	8	12	Cultural Debris	6/7/2006	Alum	-	
SEAD-57	57O10-0013	739502.5	1009399.75	73	Mv	6/5/2006	28	8	3	Munitions Debris	6/8/2006	Wire. Anomalies O12-0012 and O12-0013 are for the same item.	-	
SEAD-57	57O10-0038	739580.109	1009419.926	27	Mv	9/11/2006	27	8	15	Cultural Debris	9/20/2006	Nail	Pass	KC
SEAD-57	57O10-0053	739514.5	1009308.75	22	Mv	9/11/2006	24	8	2	Cultural Debris	9/20/2006	Trash	Pass	KC
SEAD-57	57O12-0008	739506.734	1009639.82	765	Mv	6/5/2006	384	8	0	Cultural Debris	6/6/2006	6 pieces of wire ranging in size 4" to 6"	-	
SEAD-57	57O12-0009	739511.012	1009643.988	646	Mv	6/5/2006	321	8	0	Cultural Debris	6/6/2006	10 pieces of wire ranging 2" to 6"	-	
SEAD-57	57O12-0012	739507	1009687.75	379	Mv	6/5/2006	185	8	3	Cultural Debris	6/8/2006	Wire. Anomalies O12-0012 and O12-0013 are for the same item.	-	
SEAD-57	57O12-0015	739516.168	1009637.407	341	Mv	6/5/2006	180	8	0	Cultural Debris	6/6/2006	5 pieces of wire ranging 3" to 10"	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Description		
		Easting (X)	Northing (Y)												
SEAD-57	57012-0082	739516.25	1009726.75	16	Mv	9/11/2006	16	8	30	Cultural Debris	9/20/2006	Wrench piece	Pass	KC	
SEAD-57	F10-005	738577.723	1009304.297	40	nT	10/17/2006	40	8	4	MPPEH	10/26/2006	six 3 inch stokes	-		
SEAD-57	F12-010	738513.005	1009537.273	12	nT	10/17/2006	13	8	10	Cultural Debris	10/19/2006		Pass	KC	
SEAD-57	F12-033	738589.097	1009561.691	9	nT	10/17/2006	10	8	12	Hot Soil	10/19/2006	Rock	Pass	KC	
SEAD-57	F12-038	738603.17	1009534.333	8	nT	10/17/2006	9	8	4	Cultural Debris	10/19/2006		Pass	KC	
SEAD-57	F13-005	738513.126	1009748.471	11	nT	10/17/2006	10	8	14	Cultural Debris	10/19/2006		Pass	KC	
SEAD-57	F13-021	738584.472	1009631.758	5	nT	10/17/2006	6	8	12	Hot Soil	10/19/2006	Rock	Pass	KC	
SEAD-57	F13-028	738615.077	1009677.125	18	nT	10/17/2006	19	8	20	Cultural Debris	10/19/2006		Pass	KC	
SEAD-57	F13-030	738609.173	1009704.285	15	nT	10/17/2006	15	8	14	Cultural Debris	10/19/2006		Pass	KC	
SEAD-57	F13-031	738623.442	1009739.614	17	nT	10/17/2006	18	8	12	Cultural Debris	10/19/2006		Pass	KC	
SEAD-57	G06-027	738735.057	1008771.04	13	nT	9/6/2006	13	8	10	Cultural Debris	9/7/2006		Pass	KC	
SEAD-57	G07-004	738705.032	1008974.01	22	nT	9/6/2006	22	8	12	Hot Soil	9/7/2006	Hot rock	-		
SEAD-57	G07-015	738707.167	1008879.264	51	nT	9/6/2006	51	8	4	Hot Soil	9/7/2006	Hot rock	Pass	KC	
SEAD-57	G07-023	738668.735	1008932.909	7	nT	9/6/2006	7	8	16	Cultural Debris	9/7/2006		-		
SEAD-57	G07-024	738626.833	1008957.73	10	nT	9/6/2006	10	8	24	Cultural Debris	9/7/2006		-		
SEAD-57	G08-025	738643.02	1009094.5	52	nT	8/8/2006	52	8	8	Cultural Debris	8/9/2006	Trash	-		
SEAD-57	G11-020	738722.79	1009493.17	15	nT	8/8/2006	15	8	12	Cultural Debris	8/10/2006	Trash	Pass	KC	
SEAD-57	H07-016	738823.27	1008950.05	7	nT	8/8/2006	7	8	4	Cultural Debris	8/9/2006	Trash	Pass	KC	
SEAD-57	H08-035	738797.044	1009090.395	5	nT	9/6/2006	5	8	6	Hot Soil	9/8/2006	Hot rock	-		
SEAD-57	I06-002	738899.05	1008806.47	53	nT	8/8/2006	53	8	3	Hot Soil	8/9/2006	Hotrock	Pass	KC	
SEAD-57	I06-014	738905.19	1008847.13	54	nT	8/8/2006	54	8	2	Hot Soil	8/9/2006	Hotrock	Pass	KC	
SEAD-57	I10-002	738981.13	1009336.62	30	nT	8/8/2006	30	8	2	Cultural Debris	8/9/2006	Trash	Pass	KC	
SEAD-57	I10-017	738945.28	1009293.01	6	nT	8/8/2006	6	8	4	Hot Soil	8/9/2006	Hot rock	Pass	KC	
SEAD-57	I10-018	738944.86	1009285.81	12	nT	8/8/2006	12	8	3	Hot Soil	8/9/2006	Hot rock	Pass	KC	
SEAD-57	I11-032	738925.67	1009441.61	2	nT	8/8/2006	2	8	6	Cultural Debris	8/10/2006	Survey stake	-		
SEAD-57	J10-005	739060.634	1009285.366	5	nT	9/6/2006	5	8	24	Cultural Debris	9/8/2006		-		
SEAD-57	J10-011	739024.413	1009330.452	12	nT	9/6/2006	11	8	24	Cultural Debris	9/8/2006		-		
SEAD-57	P57K06-170	739101.5	1008993.25	37	Mv	7/12/2006	85	8	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K08-103	739195.5	1009148	32	Mv	7/10/2006	51	8	15	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-107	739205.75	1009155.75	29	Mv	7/10/2006	31	8	20	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-158	739228	1009242.5	28	Mv	7/10/2006	36	8	12	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	P57K08-20	739234.75	1009125.5	30	Mv	7/10/2006	67	8	10	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-84	739197.75	1009117.5	39	Mv	7/10/2006	63	8	10	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K10-1	739249.25	1009453.5	54	Mv	7/13/2006	58	8	14	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-109	739226.75	1009383.75	43	Mv	7/13/2006	43	8	18	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-136	739206.25	1009288.25	20	Mv	7/11/2006	23	8	6	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-159	739247.75	1009264.5	35	Mv	7/11/2006	36	8	20	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-16	739162.5	1009496	43	Mv	7/13/2006	43	8	5	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-163	739235.5	1009283	63	Mv	7/11/2006	102	8	10	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-169	739229	1009291.75	24	Mv	7/11/2006	30	8	9	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-174	739228	1009311.75	19	Mv	7/11/2006	23	8	2	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-194	739232.5	1009414	24	Mv	7/13/2006	36	8	6	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-199	739236.5	1009437	87	Mv	7/13/2006	100	8	13	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-3	739233	1009471.5	36	Mv	7/13/2006	36	8	24	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-44	739210.25	1009432.75	35	Mv	7/13/2006	37	8	22	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-67	739193.75	1009401.5	117	Mv	7/13/2006	139	8	20	Munitions Debris	7/17/2006	Multiple digs/pieces	Pass	KC	
SEAD-57	P57M10-32	739352.25	1009288.75	21	Mv	7/10/2006	36	8	6	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-42	739292.25	1009328	57	Mv	7/10/2006	60	8	2	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-46	739276.5	1009315.75	41	Mv	7/10/2006	70	8	6	Munitions Debris	7/10/2006	Multiple digs /pieces [1ea brass cart]	-		
SEAD-57	P57M10-89	739252.5	1009445.25	36	Mv	7/10/2006	81	8	4	Munitions Debris	7/10/2006	Multiple digs/pieces	-		
SEAD-57 Buffer	A14-085	737947.75	1009833.25	196	mV	9/28/2006	196	8	3	Cultural Debris	10/4/2006	Scrap metal	Pass	KC	
SEAD-57 Buffer	A16-012	737956.25	1010095	374	mV	9/28/2006	374	8	4	Cultural Debris	10/10/2006	Plow part	Pass	KC	
SEAD-57 Buffer	A16-089	737973	1010196.5	186	mV	9/28/2006	186	8	14	Munitions Debris	10/9/2006	Frag	Pass	KC	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	A18-005	737946.25	1010283.25	105	mV	9/28/2006	105	8	24	Munitions Debris	10/9/2006	2.36 motor [empty]. Anomalies A18-005 and A18-006 are the same item.	Pass	KC
SEAD-57 Buffer	A18-006	737941.5	1010283.5	30	mV	9/28/2006	30	8	16	Munitions Debris	10/9/2006	2.36 motor [empty]. Anomalies A18-005 and A18-006 are the same item.	Pass	KC
SEAD-57 Buffer	A18-020	738108.25	1010256	36	mV	9/28/2006	36	8	24	Cultural Debris	10/5/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	C14-005	738216.75	1009957.25	61	mV	9/28/2006	61	8	3	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C14-015D1	738189.854	1009931.681	634	mV	10/16/2006	634	8	0	Cultural Debris	7/20/2006	15" pipe found near D flag	-	
SEAD-57 Buffer	C14-024	738126	1009845.75	40	mV	9/28/2006	40	8	3	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	E16-026	738464	1010092.5	30	mV	10/2/2006	30	8	6	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-063	738481	1010245.75	34	mV	10/2/2006	34	8	6	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	G18-004	738695.5	1010328.75	20	mV	9/26/2006	20	8	20	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-030	738744.25	1010276.25	19	mV	9/26/2006	19	8	8	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G18-036	738793	1010353	30	mV	9/26/2006	31	8	12	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	K18-022	739221.28	1010253.07	29	mV	9/26/2006	29	8	6	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	M16-003	739451.28	1010153.27	40	mV	9/26/2006	40	8	12	Cultural Debris	9/28/2006	Trash	-	
SEAD-57	57C14-0040	738235	1009765.25	394	Mv	6/14/2006	160	7	20	Cultural Debris	6/15/2006	Trash, Same as 0061	-	
SEAD-57	57C14-0055	738113.5	1009764	220	Mv	6/14/2006	69	7	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57C14-0061	738233.25	1009761.25	197	Mv	6/14/2006	134	7	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57E10-0004	738486.75	1009341.5	481	Mv	6/28/2006	200	7	10	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0008	738444.75	1009308.25	346	Mv	6/28/2006	114	7	0	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	57E10-0115	738497	1009294.25	150	Mv	6/27/2006	95	7	4	Cultural Debris	7/7/2006	Steel scrap	-	
SEAD-57	57E12-0003	738497.75	1009712	885	Mv	6/28/2006	636	7	5	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0005	738497	1009715.5	830	Mv	6/28/2006	394	7	6	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0046	738444.5	1009665	178	Mv	6/29/2006	15	7	10	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E14-0049	738420.75	1009958.25	305	Mv	6/22/2006	90	7	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	57E14-0058	738447.75	1009795	243	Mv	7/19/2006	243	7	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57E14-0210	738475.75	1009931	50	Mv	6/28/2006	25	7	10	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E16-0009	738463.25	1010049.75	142	Mv	6/21/2006	70	7	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G04-0109	738525.25	1008739.25	90	Mv	6/20/2006	55	7	12	Cultural Debris	6/20/2006	Steel scrap	-	
SEAD-57	57G04-0158	738736.25	1008640	55	Mv	6/20/2006	140	7	8	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0246	738715.5	1008717.75	26	Mv	9/11/2006	26	7	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G14-0048	738610.75	1009947.5	1191	Mv	7/11/2006	300	7	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G14-0345	738622.75	1009973.75	74	Mv	7/11/2006	26	7	2	Cultural Debris	7/12/2006	Nails	-	
SEAD-57	57G14-0389	738557.75	1009961	62	Mv	6/13/2006	10	7	5	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0434	738575	1009967.25	51	Mv	6/13/2006	20	7	5	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0438	738637.75	1009825.5	51	Mv	6/13/2006	337	7	9	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0045	738726.25	1010093.75	232	Mv	6/12/2006	999	7	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G16-0096	738593.75	1010103.25	66	Mv	6/12/2006	15	7	0	Munitions Debris	6/15/2006	Frag	-	
SEAD-57	57G16-0100	738749	1010125	64	Mv	6/12/2006	25	7	0	Hot Soil	10/24/2006	Hot rock	-	
SEAD-57	57G16-0126	738606.25	1010105	43	Mv	10/4/2006	43	7	0	Cultural Debris	10/24/2006	Trash	-	
SEAD-57	57I04-0013	738796.5	1008619.75	604	Mv	6/29/2006	466	7	0	Munitions Debris	7/7/2006	Frag MD	Pass	KC
SEAD-57	57I04-0018	738808.25	1008647.5	524	Mv	6/29/2006	227	7	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0048	738767	1008602	254	Mv	6/29/2006	169	7	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0063	738755.785	1008658.493	207	Mv	6/29/2006	60	7	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I04-0097	738810.25	1008725.75	139	Mv	6/29/2006	130	7	0	Cultural Debris	10/24/2006		-	
SEAD-57	57I04-0153	738758.5	1008676	73	Mv	6/29/2006	40	7	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I14-0006	738755.25	1009961	58822	Mv	6/28/2006	3000	7	8	Cultural Debris	10/26/2006	Fence post	-	
SEAD-57	57I14-0095	738958.25	1009907.75	277	Mv	6/19/2006	85	7	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57I14-0105	738920	1009960.25	250	Mv	6/22/2006	115	7	12	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57I14-0148	738856	1009889.5	186	Mv	6/27/2006	100	7	10	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57I14-0191	738798.25	1009976.5	138	Mv	6/22/2006	70	7	20	Cultural Debris	7/19/2006	Steel scrap	Pass	KC
SEAD-57	57I14-0214	738963.5	1009899.5	121	Mv	6/19/2006	60	7	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57I14-0217	738799.25	1009980.75	119	Mv	6/22/2006	30	7	18	Cultural Debris	6/28/2006	Trash	Pass	KC
SEAD-57	57I14-0236	738986.5	1009948.5	108	Mv	6/19/2006	85	7	14	Munitions Debris	6/27/2006	Alum MD	-	
SEAD-57	57I14-0244	738890	1009784.25	105	Mv	6/27/2006	61	7	0	Munitions Debris	8/23/2006	Frag MD	-	

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Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST- QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Item Description		
		Easting (X)	Northing (Y)												
SEAD-57	57114-0249	738764.75	1009757.25	103	Mv	6/27/2006	52	7	3	Cultural Debris	7/7/2006	Steel scrap	-		
SEAD-57	57114-0252	738956.75	1009776	101	Mv	6/20/2006	45	7	8	Cultural Debris	6/27/2006	Trash	-		
SEAD-57	57114-0278	738839.5	1009858.25	88	Mv	6/27/2006	44	7	0	Munitions Debris	8/23/2006	Frag MD	-		
SEAD-57	57114-0299	738973	1009794	78	Mv	6/20/2006	35	7	4	Cultural Debris	6/27/2006	Trash	Pass	KC	
SEAD-57	57114-0327	738836	1009965	67	Mv	6/28/2006	20	7	0	Munitions Debris	7/7/2006	Alum MD	-		
SEAD-57	57114-0352	738916.25	1009830.75	59	Mv	6/19/2006	90	7	0	Munitions Debris	7/19/2006	Frag	-		
SEAD-57	57114-0360	738848.5	1009921.75	57	Mv	6/22/2006	25	7	24	Munitions Debris	6/27/2006	Frag	-		
SEAD-57	57114-0645	738910.25	1009814.25	24	Mv	9/11/2006	24	7	24	Cultural Debris	9/25/2006	Scrap metal	Pass	KC	
SEAD-57	57116-0335	738965	1010177.75	17	Mv	9/11/2006	17	7	10	Munitions Debris	9/25/2006	Flare scrap piece	-		
SEAD-57	57K12-0222	739151.5	1009634	115	Mv	6/1/2006	999	7	0	Cultural Debris	6/8/2006	Alum disk	-		
SEAD-57	57K14-0096	739056.75	1009775.5	211	Mv	6/8/2006	227	7	20	Cultural Debris	6/12/2006	Trash	Pass	KC	
SEAD-57	57K14-0131	739228.25	1009929.25	147	Mv	6/8/2006	122	7	12	Munitions Debris	6/12/2006	Small Arms, .50 cal head and steel scrap	Pass	KC	
SEAD-57	57K14-0201	739221.5	1009913	83	Mv	7/19/2006	83	7	8	Cultural Debris	8/1/2006	Trash, Anomalies K14-0201 and K14-0264 are the same item.	-		
SEAD-57	57K14-0241	739104.5	1009800	65	Mv	6/12/2006	56	7	24	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0263	739219	1009879.5	58	Mv	6/8/2006	51	7	12	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0281	739082.5	1009823	52	Mv	6/12/2006	18	7	14	Cultural Debris	6/14/2006	Trash	-		
SEAD-57	57K16-0022	739161.25	1010169.5	817	Mv	6/7/2006	690	7	0	Cultural Debris	8/23/2006	Metal rod 36" long	-		
SEAD-57	57K16-0037	739213.25	1010136.5	538	Mv	6/7/2006	280	7	0	Munitions Debris	8/23/2006	Frag 1" x 6"	-		
SEAD-57	57K16-0077	739233.5	1010130.25	125	Mv	6/7/2006	55	7	0	Cultural Debris	8/23/2006	Scrap metal 1" x 2"	-		
SEAD-57	57K16-0146	739084.75	1010193.75	44	Mv	9/11/2006	44	7	15	Cultural Debris	9/21/2006	Scrap metal	-		
SEAD-57	57K16-0204	739241	1010136.5	29	Mv	9/11/2006	29	7	19	Munitions Debris	9/21/2006	Small Arms, .50 cal head	Pass	KC	
SEAD-57	57M12-0116	739261	1009602.75	633	Mv	6/2/2006	999	7	0	Cultural Debris	7/5/2006	Metal rod and wire multiple	-		
SEAD-57	57M12-0197	739417.75	1009575.25	204	Mv	6/2/2006	999	7	0	Cultural Debris	6/6/2006	Alum strip, 48" x 1" x 1/8"	-		
SEAD-57	57M12-0371	739483.25	1009501.75	58	Mv	6/5/2006	35	7	0	Cultural Debris	6/6/2006	Alum, 2" x 2"	Pass	KC	
SEAD-57	57M14-0064	739276.5	1009848	322	Mv	8/1/2006	322	7	18	Cultural Debris	8/1/2006	Steel scrap	-		
SEAD-57	G07-009	738731.054	1008930.24	22	nT	9/6/2006	22	7	24	Cultural Debris	9/7/2006	Trash	Pass	KC	
SEAD-57	G07-011	738743.197	1008910.757	18	nT	9/6/2006	18	7	5	Munitions Debris	9/7/2006	Frag	Pass	KC	
SEAD-57	G07-028	738725.182	1008984.819	19	nT	9/6/2006	19	7	10	Hot Soil	9/7/2006	Hot rock	-		
SEAD-57	G09-016	738626.84	1009158.38	17	nT	8/8/2006	17	7	24	Hot Soil	8/9/2006	Hot Rock	Pass	KC	
SEAD-57	G10-045	738746.97	1009326.75	22	nT	8/8/2006	22	7	8	Cultural Debris	8/10/2006	Trash	-		
SEAD-57	H08-036	738790.952	1009092.34	7	nT	9/6/2006	7	7	12	Hot Soil	9/8/2006	Hot rock	Pass	KC	
SEAD-57	H10-074	738821.158	1009360.395	14	nT	10/17/2006	15	7	26	Cultural Debris	10/25/2006	Metal disc	Pass	KC	
SEAD-57	H10-076	738825.181	1009367.746	18	nT	10/17/2006	18	7	12	Cultural Debris	10/25/2006	Piece of magnet	-		
SEAD-57	H13-034	738842.053	1009727.055	20	nT	10/17/2006	20	7	36	Cultural Debris	10/24/2006	Iron rod	-		
SEAD-57	I10-003	738980.14	1009328.43	3	nT	8/8/2006	3	7	12	Munitions Debris	8/9/2006	Frag	-		
SEAD-57	I13-010	738994.498	1009710.209	5	nT	9/6/2006	6	7	8	Cultural Debris	9/7/2006	Metal disc	Pass	KC	
SEAD-57	J09-012	739010.293	1009203.035	23	nT	10/16/2006	23	7	30	Cultural Debris	10/19/2006	Iron rod	-		
SEAD-57	P57K06-118	739009.75	1008861.75	63	Mv	7/11/2006	105	7	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC	
SEAD-57	P57K06-156	739063.25	1008958.75	33	Mv	7/11/2006	45	7	3	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-177	739132.75	1008994	77	Mv	7/12/2006	135	7	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K08-105	739201.5	1009153.25	18	Mv	7/10/2006	21	7	12	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-109	739205.75	1009167.5	19	Mv	7/10/2006	54	7	10	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-118	739221	1009182.25	49	Mv	7/10/2006	72	7	10	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-137	739212	1009201.5	38	Mv	7/10/2006	67	7	6	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-151	739198	1009243.75	29	Mv	7/10/2006	71	7	10	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-78	739214.25	1009089.75	52	Mv	7/10/2006	100	7	10	Munitions Debris	7/11/2006	Multiple digs/pieces	-		
SEAD-57	P57K08-80	739200.5	1009101	41	Mv	7/10/2006	59	7	4	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-90	739212.25	1009144.25	37	Mv	7/10/2006	67	7	5	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-95	739228.75	1009150	28	Mv	7/10/2006	51	7	15	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-97	739221	1009154	55	Mv	7/10/2006	87	7	8	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K10-101	739213	1009369.25	62	Mv	7/13/2006	62	7	14	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-108	739229.5	1009387.75	35	Mv	7/13/2006	67	7	12	Munitions Debris	7/18/2006	Frag	Pass	KC	
SEAD-57	P57K10-113	739219	1009347.75	42	Mv	7/13/2006	66	7	13	Munitions Debris	7/18/2006	Alum MD Alum MD	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Item		
		Easting (X)	Northing (Y)												
SEAD-57	P57K10-123	739216.75	1009317	65	Mv	7/11/2006	74	7	6	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-130	739206.5	1009302.25	41	Mv	7/11/2006	41	7	8	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-143	739212.75	1009272.75	36	Mv	7/11/2006	38	7	14	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-158	739245	1009250.75	47	Mv	7/11/2006	95	7	4	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-165	739220.75	1009275.5	18	Mv	7/11/2006	36	7	8	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-182	739239.75	1009335.25	21	Mv	7/11/2006	23	7	8	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-191	739242.5	1009408.25	51	Mv	7/13/2006	51	7	4	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-193	739226.25	1009411.75	34	Mv	7/13/2006	49	7	2	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-48	739223.5	1009417.75	24	Mv	7/13/2006	27	7	24	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-62	739196.75	1009409.5	36	Mv	7/13/2006	45	7	10	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-69	739199.5	1009397.25	74	Mv	7/13/2006	88	7	8	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-93	739194.25	1009343.5	56	Mv	7/11/2006	69	7	4	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-94	739197.75	1009338.25	29	Mv	7/11/2006	29	7	24	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57M10-43	739281	1009327.25	23	Mv	7/10/2006	39	7	14	Munitions Debris	7/10/2006	Frag		Pass	KC
SEAD-57	P57M10-85	739258.5	1009441.5	86	Mv	7/10/2006	105	7	4	Munitions Debris	7/10/2006	Frag		-	
SEAD-57 Buffer	A14-091	737887	1009830.25	125	mV	9/28/2006	125	7	8	Cultural Debris	10/10/2006	Scrap metal		-	
SEAD-57 Buffer	A14-092	737893.5	1009832	29	mV	9/28/2006	29	7	8	Cultural Debris	10/10/2006	Same as #91 [scrap metal]		Pass	KC
SEAD-57 Buffer	A14-099	737920.5	1009838	25	mV	9/28/2006	25	7	6	Cultural Debris	10/10/2006			Pass	KC
SEAD-57 Buffer	A14-151	738077	1009934.75	184	mV	9/28/2006	184	7	6	Cultural Debris	10/9/2006			Pass	KC
SEAD-57 Buffer	A16-003	737903.25	1010122.75	52	mV	9/28/2006	52	7	22	Cultural Debris	10/9/2006	Bolt		Pass	KC
SEAD-57 Buffer	A16-064	738105.28	1010225.64	108	mV	9/28/2006	108	7	0	Cultural Debris	10/24/2006	Crushed can		Pass	KC
SEAD-57 Buffer	A16-098	737882.25	1010216	23	mV	9/28/2006	23	7	10	Munitions Debris	10/9/2006	Frag		Pass	KC
SEAD-57 Buffer	C14-017	738164	1009897.25	18	mV	9/28/2006	18	7	10	Cultural Debris	10/5/2006			Pass	KC
SEAD-57 Buffer	C14-022	738141.25	1009850.25	22	mV	9/28/2006	22	7	24	Cultural Debris	10/5/2006			Pass	KC
SEAD-57 Buffer	C16-005	738303	1010235	23	mV	9/28/2006	23	7	3	Munitions Debris	10/4/2006	Frag		Pass	KC
SEAD-57 Buffer	C16-012	738324.75	1010160.75	18	mV	9/28/2006	18	7	21	Munitions Debris	10/4/2006	Frag		Pass	KC
SEAD-57 Buffer	C16-046	738240.5	1010107.25	31	mV	9/28/2006	31	7	19	Munitions Debris	10/4/2006	Frag		Pass	KC
SEAD-57 Buffer	C16-063	738196.5	1010197.25	25	mV	10/2/2006	25	7	3	Cultural Debris	10/4/2006	Scrap metal		Pass	KC
SEAD-57 Buffer	E16-004	738413.75	1010228.5	85	mV	10/2/2006	85	7	8	Cultural Debris	10/4/2006			Pass	KC
SEAD-57 Buffer	E16-042	738600.22	1010157.86	19	mV	10/2/2006	19	7	5	Munitions Debris	10/3/2006	Frag		Pass	KC
SEAD-57 Buffer	E16-051	738568.75	1010230.5	25	mV	10/2/2006	25	7	5	MPPEH	10/3/2006	20mm he head		Pass	KC
SEAD-57 Buffer	E18-004	738499.25	1010254.25	18	mV	9/26/2006	18	7	10	Munitions Debris	10/4/2006	Frag		Pass	KC
SEAD-57 Buffer	E18-005	738494.75	1010283.75	34	mV	9/26/2006	34	7	23	Munitions Debris	10/3/2006	Frag		Pass	KC
SEAD-57 Buffer	E18-006	738517.25	1010282.75	20	mV	9/26/2006	20	7	12	Munitions Debris	10/3/2006	Frag		Pass	KC
SEAD-57 Buffer	E18-009	738563	1010289	19	mV	9/26/2006	19	7	24	Munitions Debris	10/3/2006	Frag		Pass	KC
SEAD-57 Buffer	E18-013	738622.75	1010284.75	49	mV	9/26/2006	49	7	14	Munitions Debris	10/3/2006	Frag		Pass	KC
SEAD-57 Buffer	E18-014	738620.75	1010290.25	108	mV	9/26/2006	108	7	27	Munitions Debris	10/3/2006	2.36 motor, empty		Pass	KC
SEAD-57 Buffer	E18-032	738377.5	1010270.75	21	mV	9/26/2006	21	7	12	Munitions Debris	10/4/2006	Frag		Pass	KC
SEAD-57 Buffer	G16-028	738673.75	1010194	19	mV	9/26/2006	19	7	10	Munitions Debris	10/3/2006	Frag		-	
SEAD-57 Buffer	G18-005	738690.25	1010321.75	46	mV	9/26/2006	46	7	16	Munitions Debris	10/3/2006	20 mm head		Pass	KC
SEAD-57 Buffer	G18-021	738684.85	1010277.41	93	mV	9/26/2006	93	7	4	Munitions Debris	10/3/2006	2.36 motor, empty		Pass	KC
SEAD-57 Buffer	G18-022	738696.5	1010270	20	mV	9/26/2006	20	7	9	Munitions Debris	10/3/2006	Frag		Pass	KC
SEAD-57	57C14-0027	738157.5	1009750.75	2089	Mv	6/14/2006	788	6	2	Cultural Debris	6/15/2006	Trash		-	
SEAD-57	57C14-0059	738105	1009776.75	204	Mv	6/14/2006	180	6	12	Munitions Debris	6/15/2006	Small Arms, .50 cal cart.		-	
SEAD-57	57C14-0087	738103	1009767.75	108	Mv	6/14/2006	114	6	0	Cultural Debris	10/24/2006	Scrap metal		-	
SEAD-57	57C14-0089	738159.5	1009762.75	96	Mv	6/14/2006	45	6	0	Cultural Debris	10/24/2006	Scrap metal		-	
SEAD-57	57C14-0119	738233.75	1009750.75	54	Mv	6/14/2006	50	6	10	Cultural Debris	6/15/2006	Trash		-	
SEAD-57	57E04-0008	738499.5	1008635	12	Mv	9/11/2006	12	6	7	Cultural Debris	9/20/2006			Pass	KC
SEAD-57	57E06-0022	738484.25	1008910.5	36	Mv	9/11/2006	36	6	5	Munitions Debris	9/20/2006	MK25 pieces		Pass	KC
SEAD-57	57E08-0093	738474.5	1009094.75	170	Mv	6/22/2006	73	6	3	Munitions Debris	6/26/2006	Frag		-	
SEAD-57	57E08-0111	738478.5	1009084	151	Mv	6/22/2006	94	6	2	Munitions Debris	6/26/2006	Frag		-	
SEAD-57	57E08-0116	738482.25	1009019.75	146	Mv	6/22/2006	60	6	8	Munitions Debris	6/26/2006	Frag		Pass	KC
SEAD-57	57E08-0139	738475	1009074.5	128	Mv	6/22/2006	94	6	1	Munitions Debris	6/26/2006	Frag		-	

APPENDIX C
SEAD 57 All Dig Results
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Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Easting (X)	Northing (Y)	Amp ²	Amp Unit	Date	Amp					Item	Description		
SEAD-57	57E08-0229	738466.5	1009115.5	17	Mv	9/11/2006	17	6	4	Cultural Debris	9/20/2006		-		
SEAD-57	57E08-0232	738471.75	1009206	16	Mv	9/11/2006	16	6	3	Munitions Debris	9/20/2006	Frag	Pass	KC	
SEAD-57	57E10-0068	738488	1009349.5	186	Mv	6/28/2006	133	6	6	Munitions Debris	7/19/2006	Alum MD	-		
SEAD-57	57E10-0102	738499.25	1009390.25	158	Mv	6/28/2006	94	6	0	Munitions Debris	6/28/2006	Alum MD	-		
SEAD-57	57E10-0146	738459	1009344.75	129	Mv	6/28/2006	120	6	7	Munitions Debris	7/17/2006	Alum MD	Pass	KC	
SEAD-57	57E10-0241	738468.5	1009329.25	56	Mv	6/27/2006	72	6	5	Munitions Debris	7/7/2006	Alum MD	-		
SEAD-57	57E10-0242	738455.75	1009374.5	51	Mv	6/27/2006	34	6	0	Munitions Debris	6/28/2006	Alum MD	-		
SEAD-57	57E10-0248	738497.5	1009286	45	Mv	9/11/2006	45	6	18	Munitions Debris	9/20/2006	Frag	-		
SEAD-57	57E10-0270	738442.25	1009323	30	Mv	9/11/2006	30	6	4	Cultural Debris	9/20/2006		Pass	KC	
SEAD-57	57E10-0275	738474	1009421.5	27	Mv	9/11/2006	27	6	12	Munitions Debris	9/20/2006	Frag	Pass	KC	
SEAD-57	57E10-0314	738499.5	1009405.5	15	Mv	9/11/2006	15	6	8	Munitions Debris	9/20/2006	Frag	Pass	KC	
SEAD-57	57E12-0067	738496.75	1009686.25	139	Mv	6/29/2006	55	6	3	MPPEH	7/7/2006	20mm head and 37mm	-		
SEAD-57	57E12-0077	738465.25	1009616	123	Mv	7/5/2006	75	6	8	Munitions Debris	7/7/2006	Frag	Pass	KC	
SEAD-57	57E12-0119	738466.75	1009627	66	Mv	6/29/2006	25	6	7	MPPEH	7/7/2006	20mm head and 37mm	Pass	KC	
SEAD-57	57E12-0183	738436	1009667.5	26	Mv	9/11/2006	26	6	3	Cultural Debris	9/20/2006		-		
SEAD-57	57E14-0005	738476.5	1009799.75	1969	Mv	6/28/2006	100	6	6	Cultural Debris	6/29/2006	Trash	-		
SEAD-57	57E14-0014	738477.25	1009804.5	1106	Mv	6/28/2006	500	6	6	Cultural Debris	6/29/2006	Trash	-		
SEAD-57	57E14-0055	738326.25	1009924.5	258	Mv	6/28/2006	100	6	2	Cultural Debris	6/29/2006	Seed Item	-		
SEAD-57	57E14-0064	738319.25	1009880.25	231	Mv	6/22/2006	105	6	0	Cultural Debris	7/19/2006	Shipping plug	Pass	KC	
SEAD-57	57E14-0101	738343.75	1009781	114	Mv	7/5/2006	114	6	24	Munitions Debris	7/19/2006	Alum MD	-		
SEAD-57	57E14-0155	738282.5	1009790.25	68	Mv	6/28/2006	25	6	1	Cultural Debris	6/29/2006	Wire	-		
SEAD-57	57E14-0169	738339.5	1009898.5	63	Mv	6/22/2006	27	6	0	Cultural Debris	7/19/2006	Nail	-		
SEAD-57	57E14-0213	738497.25	1009778.25	49	Mv	10/4/2006	48	6	18	Cultural Debris	10/25/2006	Wire	-		
SEAD-57	57E14-0214	738495.75	1009846	49	Mv	9/11/2006	49	6	3	Cultural Debris	9/21/2006		Pass	KC	
SEAD-57	57E14-0313	738303.5	1009955	33	Mv	9/11/2006	33	6	6	Munitions Debris	9/21/2006	Frag	Pass	KC	
SEAD-57	57E14-0592	738319.25	1009826.75	17	Mv	9/11/2006	17	6	14	Cultural Debris	9/21/2006		Pass	KC	
SEAD-57	57E14-0697	738282.75	1009823	14	Mv	9/11/2006	14	6	6	Munitions Debris	9/21/2006	Frag	Pass	KC	
SEAD-57	57E14-0898	738370.25	1009967.25	10	Mv	9/11/2006	10	6	6	Munitions Debris	9/21/2006	Frag	Pass	KC	
SEAD-57	57E16-0034	738447	1010013	19	Mv	9/11/2006	19	6	10	Munitions Debris	9/25/2006	Frag	Pass	KC	
SEAD-57	57E16-0036	738459.25	1010018.75	18	Mv	9/11/2006	18	6	18	Munitions Debris	9/25/2006	Frag	Pass	KC	
SEAD-57	57G04-0063	738681.75	1008605.75	131	Mv	6/20/2006	85	6	0	Cultural Debris	6/20/2006	Alum	-		
SEAD-57	57G04-0085	738719	1008747.75	110	Mv	6/20/2006	70	6	7	Munitions Debris	6/20/2006	Alum MD	-		
SEAD-57	57G04-0086	738738.75	1008616.25	109	Mv	6/20/2006	50	6	24	Munitions Debris	6/21/2006	Frag	-		
SEAD-57	57G04-0093	738535	1008678.75	103	Mv	6/20/2006	35	6	7	Cultural Debris	6/20/2006	Steel scrap	-		
SEAD-57	57G04-0112	738708.75	1008741.75	88	Mv	6/20/2006	55	6	5	Cultural Debris	6/20/2006	Steel scrap	-		
SEAD-57	57G04-0169	738722.5	1008604	48	Mv	9/11/2006	48	6	6	Munitions Debris	9/21/2006	Frag	-		
SEAD-57	57G04-0235	738743.75	1008746	29	Mv	9/11/2006	29	6	10	Cultural Debris	9/20/2006		-		
SEAD-57	57G04-0255	738697.25	1008683.25	24	Mv	9/11/2006	24	6	18	Munitions Debris	9/21/2006	frag	-		
SEAD-57	57G14-0022	738625.75	1009792	2799	Mv	6/13/2006	1188	6	6	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G14-0025	738635.5	1009988.75	2134	Mv	7/11/2006	3000	6	0	Cultural Debris	10/24/2006	Tent stake	-		
SEAD-57	57G14-0064	738629.25	1009786.75	802	Mv	6/13/2006	312	6	24	Cultural Debris	6/20/2006	Trash	Pass	KC	
SEAD-57	57G14-0070	738575.25	1009764.25	679	Mv	6/14/2006	412	6	7	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0077	738578.44	1009764.466	590	Mv	6/14/2006	240	6	8	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0088	738592.5	1009992.75	525	Mv	6/13/2006	280	6	7	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57G14-0116	738639	1009822.75	377	Mv	6/13/2006	251	6	9	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57G14-0127	738534.25	1009988	319	Mv	7/11/2006	152	6	0	Cultural Debris	10/24/2006	Wire	-		
SEAD-57	57G14-0149	738732	1009773.25	268	Mv	6/13/2006	515	6	1	Cultural Debris	6/15/2006	Copper wire	-		
SEAD-57	57G14-0153	738707.75	1009795.25	261	Mv	6/13/2006	153	6	2	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0160	738631.75	1009793.25	250	Mv	6/13/2006	132	6	8	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G14-0169	738549	1009994.5	225	Mv	7/11/2006	125	6	1	Cultural Debris	7/12/2006	metal rod	-		
SEAD-57	57G14-0182	738738	1009761.25	209	Mv	6/13/2006	66	6	6	Munitions Debris	6/15/2006	Frag	Pass	KC	
SEAD-57	57G14-0195	738673.5	1009809	194	Mv	6/13/2006	105	6	0	Cultural Debris	10/24/2006	Scrap metal	-		
SEAD-57	57G14-0223	738553.5	1009816	159	Mv	6/21/2006	65	6	6	Munitions Debris	6/22/2006	Frag	Pass	KC	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G14-0252	738512.75	1009945.5	133	Mv	6/13/2006	52	6	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0255	738600.25	1009768.5	129	Mv	6/14/2006	99	6	8	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0265	738625.5	1009796.5	117	Mv	6/13/2006	976	6	6	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0270	738745.5	1009765.25	114	Mv	6/13/2006	190	6	2	Munitions Debris	6/15/2006	Frag	-	
SEAD-57	57G14-0278	738630	1009822	109	Mv	6/13/2006	71	6	5	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0280	738733.5	1009769	108	Mv	6/13/2006	30	6	24	Cultural Debris	6/15/2006	Copper wire	Pass	KC
SEAD-57	57G14-0325	738750	1009868	82	Mv	7/11/2006	92	6	0	Hot Soil	7/12/2006	Hot asphalt	-	
SEAD-57	57G14-0336	738738.5	1009959	76	Mv	6/14/2006	40	6	20	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0367	738726.5	1009783.5	67	Mv	6/13/2006	35	6	3	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0371	738594.25	1009841.75	66	Mv	6/13/2006	49	6	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G14-0378	738521	1009760.5	64	Mv	6/14/2006	60	6	10	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0394	738729.5	1009984.5	61	Mv	6/14/2006	30	6	18	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0401	738642.5	1009999	60	Mv	7/11/2006	33	6	2	Cultural Debris	7/12/2006	scrap metal	-	
SEAD-57	57G14-0408	738736.17	1009786.572	57	Mv	6/13/2006	41	6	4	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0415	738610.75	1009786.75	55	Mv	6/13/2006	128	6	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G14-0522	738738	1009848.25	36	Mv	9/11/2006	36	6	12	Cultural Debris	9/25/2006		-	
SEAD-57	57G16-0085	738604	1010060	86	Mv	6/12/2006	54	6	8	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0107	738666	1010007.5	56	Mv	6/12/2006	40	6	2	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0130	738720.5	1010024.25	41	Mv	9/11/2006	41	6	15	Cultural Debris	9/25/2006		Pass	KC
SEAD-57	57G16-0142	738695	1010000.75	36	Mv	9/11/2006	36	6	24	Cultural Debris	9/25/2006		Pass	KC
SEAD-57	57G16-0165	738615.75	1010049	31	Mv	9/11/2006	31	6	20	Cultural Debris	9/25/2006		-	
SEAD-57	57I04-0001	738756.75	1008663.75	2671	Mv	6/29/2006	183	6	0	Munitions Debris	7/7/2006	Frag MD	Pass	KC
SEAD-57	57I04-0041	738756	1008682.75	313	Mv	6/29/2006	230	6	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I04-0059	738753.189	1008597.7	219	Mv	6/29/2006	140	6	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0080	738762.5	1008690	158	Mv	6/29/2006	87	6	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I04-0082	738804.25	1008659.5	155	Mv	6/29/2006	122	6	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0092	738758	1008617.75	147	Mv	6/29/2006	108	6	0	Munitions Debris	7/7/2006	Frag MD	Pass	KC
SEAD-57	57I04-0094	738769.25	1008607.75	144	Mv	6/29/2006	111	6	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0104	738786.25	1008617	125	Mv	6/29/2006	103	6	0	MPPEH	7/7/2006	37mm	-	
SEAD-57	57I04-0117	738760.5	1008611.25	107	Mv	6/29/2006	96	6	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0123	738950	1008706.75	101	Mv	6/29/2006	77	6	6	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0137	738791.627	1008601.407	85	Mv	6/29/2006	91	6	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0155	738797.75	1008615	72	Mv	6/29/2006	42	6	0	Cultural Debris	7/7/2006	Nails	-	
SEAD-57	57I04-0157	738757.5	1008620.5	69	Mv	6/29/2006	56	6	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0225	738769.25	1008670	38	Mv	9/11/2006	38	6	6	Cultural Debris	9/21/2006		-	
SEAD-57	57I14-0032	738926.25	1009897.75	815	Mv	6/27/2006	534	6	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57I14-0039	738993.5	1009944.75	725	Mv	6/19/2006	350	6	6	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0053	738905.25	1009830	572	Mv	6/19/2006	700	6	0	Munitions Debris	7/19/2006	Frag	Pass	KC
SEAD-57	57I14-0064	738816.75	1009963.5	452	Mv	6/28/2006	200	6	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I14-0085	738881	1009779.75	346	Mv	6/27/2006	73	6	0	Cultural Debris	8/23/2006	Wire	Pass	KC
SEAD-57	57I14-0091	738994.498	1009941.269	301	Mv	6/19/2006	160	6	10	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0098	738976.75	1009892	266	Mv	6/19/2006	95	6	22	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0104	738809.25	1009895.5	254	Mv	6/22/2006	150	6	15	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0113	738931.75	1009798.5	229	Mv	6/20/2006	115	6	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57I14-0142	738798	1009925.5	195	Mv	6/28/2006	66	6	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57I14-0152	738842.5	1009981.75	180	Mv	6/22/2006	65	6	5	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57I14-0156	738979.497	1009861.577	175	Mv	6/19/2006	180	6	14	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57I14-0210	738973.5	1009932.25	124	Mv	6/19/2006	50	6	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57I14-0219	738962.75	1009892	117	Mv	6/19/2006	40	6	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57I14-0224	738771.5	1009877.75	113	Mv	6/28/2006	79	6	10	Cultural Debris	7/7/2006	Mixed steel scrap	-	
SEAD-57	57I14-0276	738815.5	1009947.5	88	Mv	6/27/2006	68	6	3	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0301	738870.75	1009786.75	78	Mv	6/27/2006	25	6	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57I14-0303	738863.75	1009904.625	77	Mv	6/22/2006	50	6	4	Munitions Debris	6/27/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57114-0305	738902.75	1009800.75	76	Mv	6/27/2006	55	6	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0306	738772.25	1009997	76	Mv	6/22/2006	30	6	8	Munitions Debris	6/28/2006	Frag	Pass	KC
SEAD-57	57114-0356	738955.75	1009767.5	58	Mv	6/20/2006	30	6	20	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0362	738830.75	1009853.25	56	Mv	6/27/2006	33	6	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0369	738985.25	1009859.25	54	Mv	6/19/2006	65	6	8	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0380	738832	1009980.75	52	Mv	6/22/2006	25	6	18	Munitions Debris	6/28/2006	Frag	Pass	KC
SEAD-57	57114-0383	738835.25	1009974.75	51	Mv	6/28/2006	17	6	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57116-0013	738756.5	1010062.25	1033	Mv	6/12/2006	647	6	0	Cultural Debris	6/14/2006	shovel head, 1" x 5"	-	
SEAD-57	57116-0073	738792	1010092	80	Mv	6/12/2006	64	6	2	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0091	738865.5	1010119.75	60	Mv	6/12/2006	22	6	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0102	738826.25	1010084.5	51	Mv	6/12/2006	0	6	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0157	738831.5	1010151.5	36	Mv	9/11/2006	36	6	7	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57116-0170	738837.25	1010103.5	33	Mv	9/11/2006	33	6	4	Munitions Debris	9/25/2006	Flare scrap piece	-	
SEAD-57	57K04-0006	739066.217	1008749.49	147	Mv	7/10/2006	115	6	5	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K12-0087	739109	1009685.75	363	Mv	6/1/2006	999	6	0	Cultural Debris	7/5/2006	Steel	-	
SEAD-57	57K12-0188	739038.75	1009646	138	Mv	6/1/2006	999	6	0	Cultural Debris	6/8/2006	Alum disk 3"	-	
SEAD-57	57K12-0191	739000.75	1009643.75	134	Mv	6/1/2006	75	6	0	Cultural Debris	6/8/2006	Alum scrap	Pass	KC
SEAD-57	57K12-0224	739060.25	1009669.5	113	Mv	8/1/2006	113	6	2	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0234	739197	1009741	104	Mv	6/1/2006	999	6	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0300	739056.5	1009718.75	63	Mv	8/1/2006	63	6	0	Cultural Debris	8/2/2006	Alum	-	
SEAD-57	57K12-0303	739092.25	1009722.75	62	Mv	8/1/2006	62	6	3	Cultural Debris	8/2/2006	Alum	-	
SEAD-57	57K12-0312	739135.25	1009734.75	56	Mv	6/1/2006	999	6	0	Cultural Debris	6/7/2006	Alum	-	
SEAD-57	57K14-0003	739221.5	1009847.5	11047	Mv	6/5/2006	27	6	12	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0023	739125.5	1009900.75	821	Mv	6/8/2006	298	6	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0031	739102.75	1009808.5	694	Mv	6/8/2006	403	6	20	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0033	739117	1009882.5	689	Mv	6/8/2006	200	6	4	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0039	739080.75	1009909	507	Mv	6/8/2006	340	6	10	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0045	739023.5	1009952.25	443	Mv	6/8/2006	303	6	20	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0049	739119.5	1009884	404	Mv	6/8/2006	385	6	4	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0054	739130.75	1009900	389	Mv	6/8/2006	152	6	20	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0086	739123.75	1009838.5	236	Mv	6/5/2006	103	6	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0099	739107.5	1009799.75	205	Mv	6/12/2006	80	6	5	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0111	739124.75	1009894.75	180	Mv	6/8/2006	80	6	24	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0126	739020.75	1009938.25	160	Mv	6/8/2006	51	6	24	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0143	739209	1009859	136	Mv	6/5/2006	25	6	5	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0194	739084.25	1009761.5	89	Mv	7/19/2006	89	6	8	Munitions Debris	10/26/2006	Frag	-	
SEAD-57	57K14-0197	739105.25	1009787	86	Mv	6/12/2006	63	6	15	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0213	739045.5	1009835.75	78	Mv	6/12/2006	54	6	2	Munitions Debris	6/12/2006	Frag	Pass	KC
SEAD-57	57K14-0234	739082	1009791.5	68	Mv	6/8/2006	80	6	8	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0261	739206.5	1009876.5	58	Mv	6/8/2006	30	6	8	Munitions Debris	6/12/2006	Small Arms, brass .50 cal and piece of wire found at 3 in Depth, 14 in Long, and 6 in from flag	-	
SEAD-57	57K14-0282	739086.75	1009779.75	52	Mv	6/12/2006	40	6	5	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0307	739224	1009777.5	47	Mv	9/11/2006	47	6	9	Munitions Debris	9/21/2006	Flare piece	Pass	KC
SEAD-57	57K16-0065	739129.75	1010096	162	Mv	6/7/2006	50	6	12	Cultural Debris	8/23/2006	Scrap metal 1" x 2"	-	
SEAD-57	57K16-0084	739137	1010106	116	Mv	6/7/2006	45	6	0	Cultural Debris	8/23/2006	Alum 1" x 3"	-	
SEAD-57	57K16-0092	739225	1010121.25	99	Mv	6/7/2006	55	6	0	Munitions Debris	8/23/2006	Small Arms, .50 cal	-	
SEAD-57	57K16-0105	739237	1010127.25	71	Mv	6/12/2006	999	6	0	Munitions Debris	8/23/2006	Small Arms, .50 cal	-	
SEAD-57	57K16-0126	739166	1010116.75	53	Mv	6/7/2006	15	6	0	Cultural Debris	8/23/2006	Nail	-	
SEAD-57	57K16-0248	739239.5	1010121.75	24	Mv	9/11/2006	24	6	20	Munitions Debris	9/21/2006	Small Arms, four .50 cal heads	Pass	KC
SEAD-57	57M06-0023	739456.25	1008958	36	Mv	9/11/2006	36	6	30	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57M08-0047	739481.75	1009211.5	52	Mv	6/5/2006	999	6	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M08-0104	739405	1009049.5	27	Mv	9/11/2006	27	6	12	Hot Soil	9/20/2006	Hot rock	Pass	KC
SEAD-57	57M08-0177	739477.75	1009249.875	18	Mv	9/11/2006	18	6	18	Cultural Debris	9/20/2006	Brass washer	Pass	KC

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57M08-0227	739436.5	1009025.25	15	Mv	9/11/2006	15	6	20	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0002	739433.25	1009499	4579	Mv	8/1/2006	5000	6	0	Cultural Debris	8/22/2006	Alum strip	-	
SEAD-57	57M10-0027	739460.5	1009432.5	107	Mv	8/1/2006	107	6	0	Cultural Debris	8/22/2006	Alum 3" x 3"	-	
SEAD-57	57M10-0028	739498.75	1009369	105	Mv	6/2/2006	999	6	0	Cultural Debris	7/5/2006	Alum 1"x2"	-	
SEAD-57	57M10-0040	739449.25	1009440.75	72	Mv	8/1/2006	72	6	0	Cultural Debris	8/22/2006	Alum 1" x 3" and 4 washers	Pass	KC
SEAD-57	57M12-0135	739442.25	1009572.5	474	Mv	6/2/2006	999	6	0	Cultural Debris	6/6/2006	scrap metal, 2" x 4" x 1"	-	
SEAD-57	57M12-0141	739401.75	1009591.5	439	Mv	6/2/2006	999	6	0	Cultural Debris	6/7/2006	Lead battery plates	-	
SEAD-57	57M12-0161	739448.75	1009682.25	303	Mv	6/6/2006	280	6	3	Cultural Debris	8/22/2006	Scrap metal	-	
SEAD-57	57M12-0193	739422.5	1009554.25	216	Mv	6/2/2006	999	6	0	Cultural Debris	6/6/2006	Can pieces	-	
SEAD-57	57M12-0213	739490	1009696	166	Mv	6/2/2006	999	6	1	Cultural Debris	6/7/2006		Pass	KC
SEAD-57	57M12-0235	739493	1009636.75	146	Mv	6/2/2006	999	6	0	Cultural Debris	6/6/2006	Alum, 1" x 2"	-	
SEAD-57	57M12-0244	739481.75	1009710.5	138	Mv	6/2/2006	999	6	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0256	739433	1009552.75	127	Mv	6/2/2006	999	6	0	Cultural Debris	6/6/2006	Alum disk	-	
SEAD-57	57M12-0260	739401	1009615.25	116	Mv	6/2/2006	999	6	1	Cultural Debris	6/7/2006	Alum disc, 2" diameter	-	
SEAD-57	57M12-0269	739265.75	1009721.5	110	Mv	6/2/2006	999	6	1	Cultural Debris	6/5/2006		-	
SEAD-57	57M12-0321	739390.5	1009710.25	79	Mv	6/6/2006	6	6	6	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0339	739293.75	1009720.5	72	Mv	6/2/2006	999	6	1	Cultural Debris	6/7/2006	Wire 18" long. Anomalies M12-0339 & M12-0366 are the same item.	Pass	KC
SEAD-57	57M12-0366	739296.5	1009718	60	Mv	6/2/2006	999	6	4	Cultural Debris	8/22/2006	Wire 18" long. Anomalies M12-0339 & M12-0366 are the same item.	Pass	KC
SEAD-57	57M12-0407	739362.5	1009582.75	43	Mv	9/11/2006	43	6	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57M14-0013	739257	1009791.75	4274	Mv	6/5/2006	1935	6	1	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57M14-0026	739480.25	1009796.5	1337	Mv	6/6/2006	469	6	1	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57M14-0032	739253.5	1009798	951	Mv	6/5/2006	785	6	2	Cultural Debris	7/5/2006	Scrape metal	-	
SEAD-57	57M14-0163	739322	1009843.5	66	Mv	6/6/2006	40	6	6	Munitions Debris	6/7/2006	Fuze	Pass	KC
SEAD-57	57M14-0327	739391.75	1009772.25	27	Mv	9/11/2006	27	6	14	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57M14-0387	739428.75	1009916.25	22	Mv	9/11/2006	22	6	21	Cultural Debris	9/21/2006	Aluminum foil piece	-	
SEAD-57	57M14-0548	739416.75	1009853.75	13	Mv	9/11/2006	13	6	8	Munitions Debris	9/21/2006	Small Arms, .30 cal head	Pass	KC
SEAD-57	57M16-0006	739413.75	1010091.75	902	Mv	6/7/2006	158	6	0	Cultural Debris	6/10/2006	Nail	-	
SEAD-57	57M16-0025	739318.75	1010127.25	217	Mv	6/6/2006	91	6	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0042	739298	1010126.25	148	Mv	6/6/2006	55	6	0	Cultural Debris	6/10/2006	Wire	-	
SEAD-57	57M16-0049	739257.75	1010123.25	123	Mv	6/6/2006	30	6	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0054	739307.25	1010105.25	108	Mv	6/6/2006	125	6	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0074	739328.75	1010005.75	78	Mv	6/6/2006	60	6	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0093	739268.25	1010140.75	59	Mv	6/6/2006	18	6	0	Cultural Debris	6/10/2006		Pass	KC
SEAD-57	57M16-0105	739326	1010026.75	50	Mv	6/6/2006	43	6	0	Munitions Debris	6/12/2006	Small Arms, .50 cal	-	
SEAD-57	57O12-0108	739532.25	1009668.5	13	Mv	9/11/2006	13	6	20	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	F08-014	738513.84	1009048.15	17	nT	8/8/2006	17	6	8	Hot Soil	8/9/2006	Hot Rock	Pass	KC
SEAD-57	F09-017	738624.08	1009205.75	21	nT	8/8/2006	21	6	8	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	F10-003	738567.515	1009299.403	27	nT	10/17/2006	27	6	30	MPPEH	10/26/2006	two 3 inch stokes	-	
SEAD-57	F11-004	738502.769	1009381.209	14	nT	10/17/2006	14	6	16	Munitions Debris	10/19/2006	Frag	-	
SEAD-57	F12-005	738518.839	1009502.269	6	nT	10/17/2006	6	6	6	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	F12-031	738569.028	1009541.477	16	nT	10/17/2006	16	6	42	Munitions Debris	10/19/2006	Frag same as F12-32	Pass	KC
SEAD-57	F12-032	738571.173	1009535.986	14	nT	10/17/2006	15	6	36	Munitions Debris	10/19/2006	Frag	Pass	KC
SEAD-57	F12-034	738586.047	1009588.458	5	nT	10/17/2006	5	6	14	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	G06-007	738741.195	1008840.698	9	nT	9/6/2006	9	6	16	Cultural Debris	9/7/2006		-	
SEAD-57	G06-026	738735.324	1008754.493	6	nT	9/6/2006	6	6	16	Hot Soil	9/7/2006		Pass	KC
SEAD-57	G07-005	738701.696	1008967.738	54	nT	9/6/2006	54	6	4	Hot Soil	9/7/2006	Hot rock	-	
SEAD-57	G07-014	738703.03	1008900.749	20	nT	9/6/2006	20	6	4	Hot Soil	9/7/2006	Hot rock	Pass	KC
SEAD-57	G07-021	738675.14	1008923.701	13	nT	9/6/2006	13	6	8	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	G07-032	738727.184	1008977.079	15	nT	9/6/2006	15	6	16	Munitions Debris	9/7/2006	75mm base & Frag	-	
SEAD-57	H06-010	738781.81	1008781.53	8	nT	8/8/2006	8	6	3	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	H08-008	738828.15	1009076.139	19	nT	9/6/2006	19	6	20	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	H08-047	738791.989	1009005.892	13	nT	9/6/2006	15	6	12	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H09-013	738808.021	1009126.43	19	nT	10/17/2006	19	6	12	Munitions Debris	10/19/2006	M123	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H09-022	738821.749	1009240.6	17	nT	10/17/2006	17	6	16	MPPEH	10/23/2006	37mm prof APT round	-	
SEAD-57	H09-023	738827.913	1009231.635	9	nT	10/17/2006	10	6	3	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	H10-015	738813.114	1009324.474	14	nT	10/17/2006	15	6	4	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-052	738838.079	1009284.946	48	nT	10/17/2006	48	6	30	Cultural Debris	10/25/2006	Wire	-	
SEAD-57	I08-021	738982.542	1009054.139	16	nT	10/16/2006	16	6	7	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	I08-039	738959.974	1009043.449	8	nT	10/16/2006	9	6	10	Cultural Debris	10/23/2006		-	
SEAD-57	I11-016	738881.92	1009449.8	9	nT	8/8/2006	9	6	5	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-048	738927.08	1009401.96	22	nT	8/8/2006	22	6	6	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I13-006	738905.054	1009748.503	27	nT	9/6/2006	27	6	6	Cultural Debris	9/7/2006	Wire	Pass	KC
SEAD-57	J08-002	739032.548	1009107.41	19	nT	10/16/2006	19	6	8	Cultural Debris	10/19/2006	Scrap metal	-	
SEAD-57	J10-003	739063.013	1009304.287	43	nT	9/6/2006	43	6	20	Munitions Debris	9/8/2006	slap flare	-	
SEAD-57	J10-015	739004.952	1009326.668	143	nT	9/6/2006	143	6	24	Hot Soil	9/8/2006	Hot rock	-	
SEAD-57	J10-034	739121.074	1009335.209	25	nT	9/6/2006	25	6	12	Cultural Debris	9/8/2006		-	
SEAD-57	P57_M06-43	739359	1008999	60	Mv	7/7/2006	58	6	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K06-167	739078.25	1008991.5	114	Mv	7/12/2006	120	6	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-171	739104.75	1008991	20	Mv	7/12/2006	25	6	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-180	739122.25	1008985.75	103	Mv	7/12/2006	200	6	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-211	739199.5	1008910	72	Mv	7/13/2006	145	6	2	Munitions Debris	7/18/2006	Alum disk MD	-	
SEAD-57	P57K06-219	739213.75	1008936.25	21	Mv	7/13/2006	60	6	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-312	739075.5	1008960	18	Mv	7/11/2006	18	6	2	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC
SEAD-57	P57K08-111	739201.5	1009173.75	25	Mv	7/10/2006	29	6	10	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC
SEAD-57	P57K08-12	739246	1009180.75	40	Mv	7/10/2006	55	6	20	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-138	739220.75	1009204.75	57	Mv	7/10/2006	69	6	4	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-140	739220.5	1009209.5	36	Mv	7/10/2006	54	6	14	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-145	739201.25	1009222.5	67	Mv	7/10/2006	72	6	10	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC
SEAD-57	P57K08-15	739237.25	1009154.75	32	Mv	7/10/2006	49	6	5	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-153	739200.5	1009247.5	58	Mv	7/10/2006	66	6	7	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-157	739225	1009242.5	20	Mv	7/10/2006	40	6	12	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-17	739249.5	1009132.5	59	Mv	7/10/2006	77	6	7	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-34	739239.75	1009090.75	64	Mv	7/10/2006	89	6	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-4	739245.5	1009204.5	18	Mv	7/10/2006	23	6	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-76	739225.5	1009091.5	32	Mv	7/10/2006	42	6	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-8	739226.25	1009193.5	27	Mv	7/10/2006	56	6	15	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC
SEAD-57	P57K10-102	739215.75	1009371.5	27	Mv	7/13/2006	36	6	10	Munitions Debris	7/18/2006	Alum MD Alum MD	-	
SEAD-57	P57K10-115	739226.75	1009346.5	41	Mv	7/13/2006	56	6	10	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC
SEAD-57	P57K10-122	739210.25	1009328	80	Mv	7/11/2006	88	6	8	Munitions Debris	7/18/2006	Frag	-	
SEAD-57	P57K10-124	739214.25	1009317	45	Mv	7/11/2006	50	6	7	Munitions Debris	7/18/2006	Frag	-	
SEAD-57	P57K10-15	739164.75	1009496.25	37	Mv	7/13/2006	49	6	4	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K10-164	739229.75	1009279.25	45	Mv	7/11/2006	46	6	16	Munitions Debris	7/18/2006	Alum MD Alum MD	-	
SEAD-57	P57K10-176	739240.5	1009301.75	34	Mv	7/11/2006	61	6	6	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC
SEAD-57	P57K10-180	739248.75	1009314.25	93	Mv	7/11/2006	111	6	20	Munitions Debris	7/18/2006	Alum MD Alum MD	-	
SEAD-57	P57K10-184	739244.5	1009349.75	26	Mv	7/13/2006	52	6	14	Munitions Debris	7/18/2006	Alum MD Alum MD	-	
SEAD-57	P57K10-186	739244.25	1009362.5	20	Mv	7/13/2006	46	6	24	Munitions Debris	7/18/2006	Alum MD Alum MD	-	
SEAD-57	P57K10-189	739240.25	1009395.75	18	Mv	7/13/2006	21	6	18	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC
SEAD-57	P57K10-200	739226	1009433.75	43	Mv	7/13/2006	45	6	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K10-54	739205.25	1009411	29	Mv	7/13/2006	36	6	14	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC
SEAD-57	P57K10-87	739194.5	1009360	20	Mv	7/13/2006	25	6	24	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC
SEAD-57	P57K10-9	739206.5	1009495	84	Mv	7/10/2006	96	6	5	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57M08-38	739299.75	1009204.25	46	Mv	7/6/2006	70	6	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57M08-39	739297.42	1009191.54	18	Mv	7/6/2006	35	6	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57_M12_2	739268.53	1009501.33	108	Mv	7/10/2006	111	6	5	Cultural Debris	7/10/2006	Trash	-	
SEAD-57 Buffer	A14-020	737960.25	1009880.25	22	mV	9/28/2006	22	6	4	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-036	738043.78	1009886.08	31	mV	9/28/2006	31	6	2	Munitions Debris	10/9/2006	Frag	Pass	KC

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SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	A14-066	738033	1009810	28	mV	9/28/2006	28	6	15	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-080	737968.75	1009840.75	20	mV	9/28/2006	20	6	2	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-086	737944.25	1009831	149	mV	9/28/2006	149	6	18	Cultural Debris	10/4/2006	Steel rod	Pass	KC
SEAD-57 Buffer	A14-090	737900	1009820.25	96	mV	9/28/2006	96	6	5	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-094	737899.25	1009836	252	mV	9/28/2006	252	6	4	Cultural Debris	10/10/2006		-	
SEAD-57 Buffer	A14-105	737929.75	1009848.75	45	mV	9/28/2006	45	6	24	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-148	738098	1009899	24	mV	9/28/2006	24	6	6	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-157	738019.25	1009912.25	26	mV	9/28/2006	26	6	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A16-014	737968.25	1010090.75	86	mV	9/28/2006	86	6	20	Cultural Debris	10/10/2006	Plow piece	Pass	KC
SEAD-57 Buffer	A16-052	738112.5	1010046.75	19	mV	9/28/2006	19	6	1	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A16-103	737892.75	1010188.5	199	mV	9/28/2006	199	6	20	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-104	737889.75	1010186	397	mV	9/28/2006	397	6	13	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-009	737942.75	1010301.75	21	mV	9/28/2006	21	6	18	Hot Soil	10/9/2006	Hot soil, near ditch	Pass	KC
SEAD-57 Buffer	C14-003	738189.75	1009953.25	79	mV	9/28/2006	79	6	3	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C14-034	738163.75	1009959.5	21	mV	9/28/2006	21	6	5	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-006	738363.75	1010211	24	mV	9/28/2006	24	6	10	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-022	738302.25	1010076	61	mV	9/28/2006	61	6	5	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C16-027	738329.5	1010025.75	16	mV	9/28/2006	16	6	6	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C16-030	738278.75	1010021.75	169	mV	9/28/2006	169	6	4	Munitions Debris	10/4/2006	Frag	-	
SEAD-57 Buffer	C16-034	738228.5	1010018.5	40	mV	9/28/2006	40	6	8	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-040	738201	1010055	132	mV	9/28/2006	132	6	24	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-047	738259.5	1010114.75	29	mV	10/2/2006	29	6	22	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-065	738247.25	1010197.5	66	mV	10/2/2006	66	6	6	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-004	738365	1010280.5	22	mV	9/26/2006	22	6	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-011	738152.25	1010308.75	22	mV	9/26/2006	22	6	20	Hot Soil	10/5/2006	Hot Rock	Pass	KC
SEAD-57 Buffer	E16-010	738401.75	1010156.25	26	mV	10/2/2006	26	6	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-011	738390	1010149.25	23	mV	10/2/2006	23	6	10	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-014	738428	1010137.25	40	mV	10/2/2006	40	6	8	MPPEH	10/3/2006	20mm he head	Pass	KC
SEAD-57 Buffer	E16-016	738416.75	1010093.25	183	mV	10/2/2006	183	6	3	Munitions Debris	10/4/2006	frag	Pass	KC
SEAD-57 Buffer	E16-018	738387.25	1010073.75	21	mV	10/2/2006	21	6	7	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	E16-022	738409.5	1010026.75	17	mV	10/2/2006	17	6	16	Munitions Debris	10/4/2006	Small Arms, .50 cal pieces	-	
SEAD-57 Buffer	E16-027	738479.5	1010060.75	24	mV	10/2/2006	24	6	16	Munitions Debris	10/4/2006	Small Arms, .50 cal pieces	Pass	KC
SEAD-57 Buffer	E16-032	738532.75	1010147.5	30	mV	10/2/2006	30	6	4	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-034	738561.25	1010150.25	32	mV	10/2/2006	32	6	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-045	738611.5	1010198.25	19	mV	10/2/2006	19	6	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-048	738587.5	1010243.75	39	mV	10/2/2006	39	6	12	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-050	738552.75	1010249	23	mV	10/2/2006	23	6	12	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-052	738583.5	1010221.5	20	mV	10/2/2006	20	6	12	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-054	738576.5	1010178.75	65	mV	10/2/2006	65	6	6	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-061	738512	1010233.25	445	mV	10/2/2006	445	6	4	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-065	738475.25	1010244.75	45	mV	10/2/2006	45	6	5	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-010	738574.5	1010285.75	32	mV	9/26/2006	32	6	7	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-012	738615.25	1010287.5	29	mV	9/26/2006	29	6	20	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-019	738590.73	1010318.79	22	mV	9/26/2006	22	6	20	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-021	738562.75	1010308.75	21	mV	9/26/2006	21	6	14	Munitions Debris	10/3/2006	Frag, also 1 piece of aluminum	Pass	KC
SEAD-57 Buffer	E18-028	738453.5	1010316.25	24	mV	9/26/2006	24	6	8	Cultural Debris	10/4/2006	Scrap metal	-	
SEAD-57 Buffer	E18-031	738379.75	1010277.75	24	mV	9/26/2006	24	6	10	Munitions Debris	10/4/2006	Frag	-	
SEAD-57 Buffer	E18-034	738441.5	1010275	24	mV	9/26/2006	24	6	30	Cultural Debris	10/4/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	G16-010	738720.25	1010164.75	99	mV	9/26/2006	99	6	12	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-014	738695	1010148	23	mV	9/26/2006	23	6	12	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-015	738683	1010145	18	mV	9/26/2006	18	6	16	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-019	738645.25	1010184.75	40	mV	9/26/2006	40	6	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-023	738639.75	1010227.75	24	mV	9/26/2006	24	6	10	Munitions Debris	10/3/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Location (ft) Northing (Y)	Amp ²	Amp Unit	Date	Amp							
SEAD-57 Buffer	G16-025	738658.47	1010248.04	36	mV	9/26/2006	36	6	9	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-027	738662.25	1010218.25	37	mV	9/26/2006	37	6	4	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G18-006	738678.28	1010319.54	14	mV	9/26/2006	14	6	5	Munitions Debris	10/3/2006	Frag, 2 digs, 2 pieces	Pass	KC
SEAD-57 Buffer	G18-011	738661.5	1010293.5	32	mV	9/26/2006	32	6	5	Munitions Debris	10/3/2006	Flare piece	Pass	KC
SEAD-57 Buffer	G18-016	738627	1010294.25	16	mV	9/26/2006	16	6	19	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-039	738747.5	1010333	17	mV	9/27/2006	17	6	20	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G18-044	738719.55	1010324.2	23	mV	9/27/2006	23	6	5	Cultural Debris	10/3/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	I18-009	738948	1010321.5	19	mV	9/26/2006	19	6	4	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-050	739016.5	1010412.5	27	mV	9/26/2006	27	6	4	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	I18-052	738949.25	1010397.5	16	mV	9/26/2006	16	6	5	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	K16-002	739316.25	1010195.75	50	mV	9/26/2006	50	6	6	MEC	10/2/2006	MK 2 hand grenade	Pass	KC
SEAD-57 Buffer	K16-006	739203.25	1010235.5	58	mV	9/26/2006	58	6	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K16-008	739263.5	1010213.5	25	mV	9/26/2006	25	6	2	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K16-009	739290.25	1010230	23	mV	9/26/2006	23	6	9	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K16-010	739293	1010229.5	22	mV	9/26/2006	22	6	12	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K16-013	739372	1010224.75	584	mV	9/26/2006	584	6	4	Cultural Debris	9/28/2006		Pass	KC
SEAD-57 Buffer	K16-016	739348	1010170.75	157	mV	9/26/2006	157	6	6	Munitions Debris	9/28/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-018	739177.25	1010277.5	39	mV	9/26/2006	39	6	4	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	K18-020	739211.5	1010253.5	24	mV	9/26/2006	24	6	24	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-021	739215.25	1010255	51	mV	9/26/2006	51	6	12	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-036	739374.61	1010276.54	50	mV	9/26/2006	50	6	10	Munitions Debris	9/28/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-040	739328	1010303.25	418	mV	9/26/2006	418	6	3	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-043	739363.5	1010347.75	21	mV	9/26/2006	21	6	3	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-044	739347	1010354	21	mV	9/26/2006	21	6	10	Munitions Debris	10/2/2006	Small Arms, .50 cal pieces	Pass	KC
SEAD-57 Buffer	K18-054	739255.25	1010402.75	26	mV	9/26/2006	26	6	20	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-055	739259.25	1010405.75	351	mV	9/26/2006	351	6	10	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-076	739136.5	1010396.5	16	mV	9/26/2006	16	6	9	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	M18-012	739416.75	1010343.25	19	mV	9/26/2006	19	6	20	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	X18-002	737858.25	1010293.75	307	mV	10/2/2006	307	6	9	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57	57C14-0031	738155.75	1009804	705	Mv	6/14/2006	340	5	6	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57C14-0068	738223.25	1009755.75	151	Mv	6/14/2006	122	5	20	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57C14-0071	738229.75	1009810	134	Mv	6/14/2006	46	5	2	Munitions Debris	6/15/2006	Frag	-	
SEAD-57	57C14-0076	738089	1009768.25	127	Mv	6/14/2006	83	5	17	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57C14-0079	738164	1009798.25	119	Mv	6/14/2006	100	5	0	Cultural Debris	10/24/2006	Tent stake	-	
SEAD-57	57C14-0096	738247	1009953.5	83	Mv	6/14/2006	42	5	7	Munitions Debris	6/15/2006	Frag	Pass	KC
SEAD-57	57C14-0125	738158.5	1009760	51	Mv	6/14/2006	10	5	5	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57C14-0143	738181	1009752.75	40	Mv	9/11/2006	40	5	6	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57C14-0229	738183.5	1009788.5	20	Mv	9/11/2006	20	5	5	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57E04-0005	738485	1008712	31	Mv	9/11/2006	31	5	5	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0020	738488.5	1008862.75	38	Mv	9/11/2006	38	5	6	Munitions Debris	9/20/2006	MK25 pieces	-	
SEAD-57	57E08-0015	738496.25	1009101.5	330	Mv	6/22/2006	158	5	10	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0137	738497.25	1009032.25	128	Mv	6/22/2006	110	5	5	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0159	738469.25	1009137.75	97	Mv	6/22/2006	36	5	6	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0183	738474.25	1009083	56	Mv	6/22/2006	20	5	8	Cultural Debris	6/26/2006	Trash	-	
SEAD-57	57E08-0193	738494	1009168.5	46	Mv	9/11/2006	46	5	6	Cultural Debris	9/20/2006		-	
SEAD-57	57E08-0221	738454	1009137.75	20	Mv	9/11/2006	20	5	6	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E10-0006	738465	1009354.25	365	Mv	6/28/2006	237	5	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0046	738455.5	1009378.75	204	Mv	6/28/2006	105	5	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0047	738480.75	1009348.5	204	Mv	6/28/2006	135	5	4	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0048	738482.75	1009380.5	204	Mv	6/28/2006	132	5	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0064	738443.75	1009296	192	Mv	6/27/2006	75	5	3	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0089	738476.5	1009376	169	Mv	6/28/2006	70	5	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0107	738456.5	1009416.25	157	Mv	6/28/2006	93	5	0	Munitions Debris	6/28/2006	Alum MD	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E10-0111	738489	1009390.25	155	Mv	6/28/2006	71	5	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0125	738495.25	1009314.25	144	Mv	6/28/2006	86	5	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0126	738493.5	1009340.5	144	Mv	6/28/2006	81	5	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0143	738477.25	1009352.75	132	Mv	6/28/2006	84	5	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0158	738472.5	1009337.75	119	Mv	6/27/2006	111	5	4	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57E10-0195	738455.75	1009358.25	96	Mv	6/27/2006	72	5	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0227	738500.25	1009292	78	Mv	6/27/2006	89	5	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0238	738454.75	1009340.75	61	Mv	6/28/2006	46	5	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0245	738490.25	1009485.25	51	Mv	6/27/2006	30	5	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E12-0011	738434	1009678	331	Mv	6/29/2006	140	5	10	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0015	738493.75	1009512.5	283	Mv	7/5/2006	140	5	6	Cultural Debris	7/7/2006	Trash	Pass	KC
SEAD-57	57E12-0027	738452.5	1009670	230	Mv	6/29/2006	60	5	12	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0064	738490.5	1009602.25	143	Mv	7/5/2006	75	5	1	Munitions Debris	7/7/2006	Multiple digs / pieces + 1ea grenade spoon	Pass	KC
SEAD-57	57E12-0072	738445.75	1009576.5	131	Mv	7/5/2006	95	5	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0073	738449	1009580.75	130	Mv	7/5/2006	80	5	4	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0079	738449.25	1009646.25	122	Mv	6/29/2006	70	5	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0085	738456	1009672.25	119	Mv	6/29/2006	100	5	12	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0090	738444.5	1009668.75	108	Mv	6/29/2006	95	5	12	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0113	738442.25	1009602.25	73	Mv	7/5/2006	30	5	14	Cultural Debris	7/7/2006	Also found a shotgun shell / slug	-	
SEAD-57	57E12-0122	738463.25	1009665.25	62	Mv	6/29/2006	30	5	1	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0123	738436.5	1009734.5	61	Mv	6/29/2006	30	5	4	MPPEH	7/7/2006	20mm head	-	
SEAD-57	57E12-0124	738476	1009674.25	60	Mv	6/29/2006	25	5	3	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0140	738425	1009745.5	43	Mv	9/11/2006	43	5	12	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E14-0006	738469.25	1009947	1901	Mv	6/28/2006	1200	5	3	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0016	738455.75	1009774.5	767	Mv	7/5/2006	767	5	3	Cultural Debris	7/19/2006	Steel scrap. Anomalies E14-0016 and -0033 are same item.	-	
SEAD-57	57E14-0017	738274	1009918.25	727	Mv	6/28/2006	400	5	3	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0032	738327	1009934.25	480	Mv	6/28/2006	190	5	1	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57E14-0033	738453.5	1009772.75	464	Mv	7/5/2006	464	5	8	Cultural Debris	7/19/2006	Steel scrap. Anomalies E14-0016 and -0033 are same item.	-	
SEAD-57	57E14-0039	738279.75	1009871.75	382	Mv	6/28/2006	120	5	2	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0062	738475.25	1009825.25	231	Mv	6/28/2006	120	5	7	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0069	738489.5	1009928.5	224	Mv	6/28/2006	110	5	5	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0070	738489.75	1009931.75	221	Mv	6/28/2006	110	5	5	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0081	738315.75	1009905	173	Mv	6/28/2006	30	5	2	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0082	738347.5	1009777.5	166	Mv	7/5/2006	166	5	14	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0085	738321.5	1009845	158	Mv	6/28/2006	75	5	2	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0087	738326.25	1009794.5	155	Mv	6/28/2006	30	5	6	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0089	738318	1009844	147	Mv	6/28/2006	85	5	5	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0091	738408	1009865	140	Mv	6/21/2006	95	5	4	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57E14-0104	738293.5	1009874	109	Mv	6/28/2006	55	5	0	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0107	738366.5	1009885.75	108	Mv	6/21/2006	80	5	0	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0116	738346	1009808.5	101	Mv	6/28/2006	40	5	10	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0118	738375.5	1009892.5	100	Mv	6/21/2006	35	5	6	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57E14-0123	738402.25	1009895.25	94	Mv	6/21/2006	45	5	4	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57E14-0127	738463.5	1009782.75	88	Mv	7/5/2006	88	5	14	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0129	738430	1009824.5	86	Mv	6/22/2006	35	5	0	Cultural Debris	7/19/2006	Scrap metal	-	
SEAD-57	57E14-0142	738332	1009794.5	75	Mv	6/28/2006	15	5	6	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0146	738487.25	1009919	72	Mv	6/28/2006	35	5	8	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0161	738494.25	1009925.75	67	Mv	6/28/2006	105	5	5	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0168	738335.5	1009890.25	63	Mv	6/22/2006	20	5	0	Munitions Debris	7/19/2006	Small Arms, .50 cal	-	
SEAD-57	57E14-0197	738276.5	1009831.25	54	Mv	6/28/2006	18	5	1	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0201	738318.25	1009765.25	53	Mv	6/28/2006	31	5	4	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0202	738338.25	1009798.5	53	Mv	6/28/2006	30	5	2	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0207	738346.5	1009899.5	50	Mv	6/22/2006	25	5	0	Munitions Debris	7/19/2006	Alum MD	-	

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E14-0209	738485	1009919	50	Mv	6/28/2006	40	5	8	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0217	738332.25	1009780.75	48	Mv	9/11/2006	48	5	8	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57E14-0524	738292.125	1009805.5	20	Mv	9/11/2006	20	5	12	Munitions Debris	9/21/2006	Frag	Pass	KC
SEAD-57	57E16-0016	738480.25	1010060	48	Mv	9/11/2006	48	5	10	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57E16-0027	738427	1010017.5	25	Mv	9/11/2006	25	5	12	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57G04-0001	738708	1008647.75	1705	Mv	6/20/2006	60	5	3	Cultural Debris	6/21/2006	Trash	-	
SEAD-57	57G04-0028	738745	1008689	195	Mv	6/20/2006	130	5	10	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0058	738736.25	1008687	140	Mv	6/20/2006	195	5	0	Cultural Debris	10/24/2006	Pick axe head	Pass	KC
SEAD-57	57G04-0059	738704.75	1008712.5	135	Mv	6/20/2006	135	5	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0065	738691.5	1008605.75	129	Mv	6/20/2006	80	5	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0068	738683.25	1008601.5	126	Mv	6/20/2006	55	5	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0073	738731	1008605.25	120	Mv	6/20/2006	70	5	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0075	738701.25	1008601.75	119	Mv	6/20/2006	60	5	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0090	738725.75	1008621.25	106	Mv	6/20/2006	35	5	8	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0096	738542.25	1008613.5	101	Mv	6/20/2006	85	5	10	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0099	738707.5	1008617.25	100	Mv	6/20/2006	75	5	20	Munitions Debris	6/21/2006	Frag	Pass	KC
SEAD-57	57G04-0105	738721	1008635.75	94	Mv	6/20/2006	75	5	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0106	738675.5	1008611.25	93	Mv	6/20/2006	20	5	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0137	738708.75	1008612	73	Mv	6/20/2006	85	5	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0139	738718	1008744	69	Mv	6/20/2006	20	5	2	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0157	738719.75	1008720	55	Mv	6/20/2006	80	5	4	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0195	738730.5	1008659	41	Mv	9/11/2006	41	5	6	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57G04-0201	738749	1008687.25	39	Mv	9/11/2006	39	5	6	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57G14-0001	738584	1009999.625	470460	Mv	6/13/2006	3000	5	2	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0033	738530.75	1009930.5	1795	Mv	6/13/2006	780	5	4	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0076	738521	1009941.75	597	Mv	6/13/2006	193	5	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0078	738522.25	1009938	575	Mv	6/13/2006	53	5	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0092	738571	1009768.5	484	Mv	6/13/2006	41	5	24	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0098	738631	1009768	465	Mv	6/13/2006	244	5	9	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0115	738634.5	1009839.75	391	Mv	6/13/2006	260	5	6	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0147	738735	1009764	275	Mv	6/13/2006	142	5	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0259	738653	1009982.5	124	Mv	7/11/2006	69	5	2	Cultural Debris	7/12/2006	Nail	-	
SEAD-57	57G14-0268	738730	1009867.25	114	Mv	6/13/2006	77	5	6	Munitions Debris	6/20/2006	Frag	Pass	KC
SEAD-57	57G14-0274	738621.25	1009769.75	112	Mv	6/13/2006	40	5	14	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0277	738561.25	1009962	109	Mv	6/13/2006	63	5	4	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0283	738528	1009939	105	Mv	6/13/2006	41	5	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0305	738682.5	1009994.75	92	Mv	7/11/2006	26	5	2	Cultural Debris	7/12/2006	Nails	-	
SEAD-57	57G14-0306	738543.75	1009987	92	Mv	6/13/2006	49	5	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0307	738654	1009988.5	92	Mv	7/11/2006	50	5	2	Cultural Debris	7/12/2006	Wire	-	
SEAD-57	57G14-0319	738506.5	1009946	85	Mv	6/13/2006	42	5	2	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0326	738530.25	1009936.5	81	Mv	6/13/2006	18	5	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0335	738651.25	1009994	76	Mv	7/11/2006	65	5	1	Cultural Debris	7/12/2006	scrap metal	-	
SEAD-57	57G14-0373	738715.75	1009753	66	Mv	6/13/2006	51	5	2	Munitions Debris	6/19/2006	20mm	Pass	KC
SEAD-57	57G14-0377	738532.75	1009967.75	64	Mv	6/13/2006	26	5	4	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0418	738742.75	1009831.875	54	Mv	6/12/2006	40	5	8	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0437	738504	1009977.5	51	Mv	7/11/2006	26	5	3	Munitions Debris	7/12/2006	Frag	-	
SEAD-57	57G14-0916	738605.5	1009815.5	14	Mv	9/11/2006	14	5	24	Cultural Debris	9/25/2006		Pass	KC
SEAD-57	57G16-0006	738600.75	1010087.5	5018	Mv	6/12/2006	3000	5	0	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0018	738595.25	1010056.75	1061	Mv	6/12/2006	460	5	0	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0036	738594.25	1010059.5	336	Mv	6/12/2006	380	5	0	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0043	738590.75	1010043	247	Mv	6/12/2006	48	5	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0052	738613.25	1010010.5	197	Mv	6/12/2006	120	5	2	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0054	738644.5	1010033	187	Mv	6/12/2006	105	5	1	MPPEH	6/14/2006	.blu-26 bip	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G16-0055	738584.25	1010014.75	182	Mv	6/12/2006	60	5	5	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0057	738570.5	1010014	171	Mv	6/12/2006	38	5	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0067	738686	1010010.25	139	Mv	6/12/2006	65	5	2	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0068	738593	1010039.75	133	Mv	6/12/2006	68	5	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0073	738649.75	1010017.25	124	Mv	6/12/2006	93	5	5	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0074	738727	1010090.5	115	Mv	6/12/2006	60	5	3	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0075	738530.75	1010024.75	110	Mv	6/12/2006	46	5	5	Munitions Debris	6/14/2006	2.36 rkt mtr	-	
SEAD-57	57G16-0084	738592.75	1010026.75	88	Mv	6/12/2006	26	5	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0094	738649.25	1010056.75	67	Mv	6/12/2006	40	5	2	Munitions Debris	6/14/2006	2.36 rkt mtr	Pass	KC
SEAD-57	57G16-0105	738738.25	1010051.75	60	Mv	6/12/2006	20	5	5	Munitions Debris	6/14/2006	Frag	Pass	KC
SEAD-57	57G16-0108	738638.75	1010021.5	55	Mv	6/12/2006	28	5	3	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0109	738596.75	1010042.5	55	Mv	6/12/2006	12	5	5	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0112	738712.5	1010095.75	52	Mv	6/12/2006	50	5	2	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57I04-0010	738805.25	1008642	660	Mv	6/29/2006	355	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0014	738807.75	1008651	602	Mv	6/29/2006	571	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0015	738793.75	1008621	580	Mv	6/29/2006	373	5	0	Cultural Debris	7/7/2006	Pipe 48" long	-	
SEAD-57	57I04-0020	738751.5	1008691.5	472	Mv	6/29/2006	240	5	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	57I04-0026	738816.5	1008744.75	405	Mv	6/29/2006	380	5	4	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0027	738753.75	1008680	380	Mv	6/29/2006	142	5	0	Munitions Debris	7/7/2006	Frag MD	Pass	KC
SEAD-57	57I04-0033	738758.25	1008686.5	353	Mv	6/29/2006	203	5	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0037	738767	1008611.25	334	Mv	6/29/2006	210	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0038	738807.75	1008631.5	331	Mv	6/29/2006	220	5	6	Munitions Debris	6/15/2006	Alum MD	-	
SEAD-57	57I04-0057	738801.75	1008626.25	222	Mv	6/29/2006	132	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0060	738799.25	1008607	214	Mv	6/29/2006	130	5	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0061	738799.5	1008658.5	210	Mv	6/29/2006	95	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0064	738801	1008619.5	203	Mv	6/29/2006	170	5	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0067	738765.75	1008606	199	Mv	6/29/2006	253	5	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0069	738793	1008608.75	191	Mv	6/29/2006	168	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0070	738778.25	1008696	190	Mv	6/29/2006	109	5	6	Munitions Debris	7/7/2006	Steel MD 2.36 w/H, WP	Pass	KC
SEAD-57	57I04-0071	738783.75	1008606.5	186	Mv	6/29/2006	168	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0073	738752.75	1008654	179	Mv	6/29/2006	63	5	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0098	738793.75	1008617	139	Mv	6/29/2006	87	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0099	738761.25	1008620.75	136	Mv	6/29/2006	80	5	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0103	738769.25	1008629	130	Mv	6/29/2006	120	5	0	MPPEH	8/23/2006	Frag MD and two 20mm OE	-	
SEAD-57	57I04-0116	738772.5	1008613.5	108	Mv	6/29/2006	80	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0120	738756.75	1008599.75	105	Mv	6/29/2006	67	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0121	738792.5	1008626.25	104	Mv	6/29/2006	30	5	0	Cultural Debris	7/7/2006	Pipe	-	
SEAD-57	57I04-0126	738773.75	1008670.5	95	Mv	6/29/2006	89	5	0	Munitions Debris	7/7/2006	Frag MD	Pass	KC
SEAD-57	57I04-0151	738749.5	1008639	74	Mv	6/29/2006	41	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0162	738800	1008663	67	Mv	6/29/2006	49	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0167	738753.5	1008611.5	65	Mv	6/29/2006	55	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0171	738796.75	1008672.5	62	Mv	6/1/2006	58	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0185	738788.25	1008686.25	57	Mv	6/29/2006	47	5	8	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0190	738869.25	1008623.5	54	Mv	6/29/2006	65	5	5	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0192	738784.25	1008625.5	52	Mv	6/29/2006	33	5	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I04-0317	738908.5	1008638.25	16	Mv	9/11/2006	16	5	16	Cultural Debris	9/21/2006		-	
SEAD-57	57I14-0012	738753.75	1009967.75	4546	Mv	6/28/2006	3000	5	0	Cultural Debris	7/7/2006	Fense post	Pass	KC
SEAD-57	57I14-0018	738767	1009948.75	1736	Mv	6/28/2006	930	5	0	Cultural Debris	7/7/2006	Metal bar 48" long	-	
SEAD-57	57I14-0044	738762.5	1009958.5	657	Mv	6/28/2006	233	5	0	Cultural Debris	7/7/2006	Shipping plug	-	
SEAD-57	57I14-0046	738854	1009903.75	632	Mv	6/22/2006	375	5	10	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0054	738818.5	1009971	567	Mv	6/28/2006	154	5	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I14-0057	738801.25	1009887.75	511	Mv	6/22/2006	300	5	2	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0070	738857	1009903	435	Mv	6/22/2006	350	5	10	Cultural Debris	6/27/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57114-0083	738942.326	1009767.769	352	Mv	6/6/2006	352	5	12	Cultural Debris	7/19/2006	Steel scrap	Pass	KC
SEAD-57	57114-0117	738821.5	1009949.5	223	Mv	6/22/2006	115	5	8	Cultural Debris	6/27/2006	Copper tubing	-	
SEAD-57	57114-0119	738967	1009870.5	222	Mv	6/19/2006	160	5	0	Cultural Debris	7/19/2006	Nail	-	
SEAD-57	57114-0157	738803.75	1010000	173	Mv	6/22/2006	45	5	8	Cultural Debris	6/28/2006	Trash	Pass	KC
SEAD-57	57114-0160	738809.5	1009925.75	170	Mv	6/28/2006	22	5	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0171	738858.75	1009754.75	163	Mv	6/20/2006	50	5	6	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0180	738839.25	1009829.75	155	Mv	6/27/2006	93	5	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0187	738767.5	1009956.5	141	Mv	6/28/2006	80	5	0	Cultural Debris	7/7/2006	Nails	-	
SEAD-57	57114-0197	738887.5	1009777	134	Mv	6/27/2006	117	5	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0228	738806.25	1009896	112	Mv	6/22/2006	30	5	5	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0231	738790	1009951.75	110	Mv	6/22/2006	60	5	20	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0232	738957.5	1009954.5	110	Mv	6/22/2006	70	5	6	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57114-0235	738969.75	1009863.5	109	Mv	6/19/2006	18	5	0	Cultural Debris	7/19/2006	Nails	Pass	KC
SEAD-57	57114-0243	738948	1009860.5	105	Mv	6/22/2006	100	5	15	Munitions Debris	6/28/2006	Steel Frag MD	-	
SEAD-57	57114-0263	738963	1009787	94	Mv	6/20/2006	30	5	8	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0270	738833.5	1010000	91	Mv	6/22/2006	40	5	7	Cultural Debris	6/28/2006	Spark plug	-	
SEAD-57	57114-0280	738755	1009974.75	88	Mv	6/28/2006	40	5	0	Munitions Debris	7/5/2006	Frag	-	
SEAD-57	57114-0281	738776.75	1009973.5	87	Mv	6/28/2006	39	5	0	Cultural Debris	7/7/2006	Chain link	-	
SEAD-57	57114-0289	738949.75	1009775	82	Mv	6/20/2006	75	5	6	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0300	738850.75	1009988.75	78	Mv	6/22/2006	35	5	6	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57114-0316	738971.75	1009935.75	72	Mv	6/19/2006	25	5	0	Munitions Debris	7/19/2006	20 mm	-	
SEAD-57	57114-0334	738767.375	1009767.875	66	Mv	6/20/2006	30	5	3	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0336	738995.75	1009803.75	65	Mv	6/20/2006	40	5	0	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	57114-0342	738824.25	1009788	62	Mv	6/27/2006	35	5	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0345	738827	1009774.25	62	Mv	6/27/2006	14	5	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0349	738821.25	1009944.5	59	Mv	6/22/2006	40	5	6	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0355	738865	1009960	59	Mv	6/22/2006	30	5	14	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57114-0367	738886	1009801.5	54	Mv	6/27/2006	41	5	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0370	738810.75	1009935	54	Mv	6/28/2006	10	5	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57114-0371	738974	1009929.5	54	Mv	6/19/2006	50	5	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0396	738980.5	1009800	47	Mv	9/11/2006	47	5	13	Cultural Debris	9/25/2006	Wire	Pass	KC
SEAD-57	57114-0529	738943.211	1009861.341	31	Mv	9/11/2006	31	5	8	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57114-0583	738897.25	1009994	27	Mv	9/11/2006	27	5	13	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57116-0014	738787.75	1010102.25	970	Mv	6/12/2006	340	5	2	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0017	738955.25	1010115.75	734	Mv	6/12/2006	195	5	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0022	738857.25	1010061.5	343	Mv	6/12/2006	119	5	5	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0023	738982.513	1010072.934	332	Mv	6/7/2006	12	5	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0031	738762.375	1010121.875	218	Mv	6/12/2006	125	5	0	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57116-0045	738908.75	1010084.5	124	Mv	6/7/2006	54	5	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0053	738762	1010064.25	102	Mv	6/12/2006	42	5	0	Cultural Debris	6/14/2006	Scrap metal, 1" x 3"	-	
SEAD-57	57116-0058	738980	1010050.75	94	Mv	6/7/2006	73	5	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0060	738885	1010165.25	94	Mv	6/7/2006	35	5	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0062	738784.5	1010084.25	90	Mv	6/12/2006	60	5	0	Munitions Debris	6/14/2006	Frag, 1" x 1"	-	
SEAD-57	57116-0066	738760	1010053.75	88	Mv	6/12/2006	44	5	0	Cultural Debris	6/14/2006	Scrap metal, 1" x 4"	Pass	KC
SEAD-57	57116-0070	738950	1010130.5	83	Mv	6/7/2006	10	5	5	Munitions Debris	6/13/2006	2.36 rkt mtr	-	
SEAD-57	57116-0076	738847.5	1010186	73	Mv	6/12/2006	19	5	7	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0084	738829.25	1010146.25	63	Mv	6/12/2006	21	5	1	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0086	738787	1010034.5	63	Mv	6/12/2006	20	5	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0098	738840.25	1010024.75	55	Mv	6/12/2006	25	5	1	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0103	738977.25	1010047.75	51	Mv	6/7/2006	72	5	8	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0127	738882	1010190.75	42	Mv	9/11/2006	42	5	12	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57K04-0007	739104.75	1008702.5	129	Mv	7/10/2006	75	5	3	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	57K04-0008	739074.25	1008636	127	Mv	7/10/2006	125	5	3	Cultural Debris	7/10/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57K04-0012	739098	1008645.5	112	Mv	7/10/2006	50	5	3	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	57K04-0018	739078.25	1008631.25	92	Mv	7/10/2006	50	5	5	Cultural Debris	7/10/2006	Trash	Pass	KC
SEAD-57	57K04-0022	739059.75	1008692.25	78	Mv	7/10/2006	44	5	4	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	57K04-0023	739077.237	1008732.847	68	Mv	7/10/2006	25	5	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K04-0029	739012.25	1008647.5	40	Mv	9/11/2006	40	5	12	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K04-0032	739099.5	1008676.75	37	Mv	9/11/2006	37	5	4	Cultural Debris	9/21/2006		-	
SEAD-57	57K04-0042	739086.5	1008699.25	30	Mv	9/11/2006	30	5	6	Cultural Debris	9/21/2006		-	
SEAD-57	57K12-0104	739102.25	1009690	290	Mv	6/1/2006	999	5	0	Cultural Debris	7/5/2006	Steel wire	-	
SEAD-57	57K12-0133	739103.75	1009693.25	205	Mv	6/1/2006	999	5	0	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57K12-0139	739247.843	1009578.838	196	Mv	8/1/2006	196	5	0	Cultural Debris	8/1/2006	Alum strip	-	
SEAD-57	57K12-0147	739229.5	1009681.75	177	Mv	6/1/2006	999	5	0	Cultural Debris	6/5/2006	Alum strip	Pass	KC
SEAD-57	57K12-0154	739155.25	1009722.25	171	Mv	6/1/2006	999	5	0	Munitions Debris	6/8/2006	Frag	-	
SEAD-57	57K12-0196	739250.75	1009639.5	132	Mv	8/1/2006	132	5	0	Cultural Debris	10/24/2006	Can	Pass	KC
SEAD-57	57K12-0197	739161.75	1009717.5	131	Mv	6/1/2006	999	5	0	Munitions Debris	6/5/2006	Frag	-	
SEAD-57	57K12-0212	739048	1009731.5	122	Mv	8/1/2006	122	5	0	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0225	739234.75	1009550.75	111	Mv	8/1/2006	111	5	0	Cultural Debris	8/1/2006	Wire 5 pieces	Pass	KC
SEAD-57	57K12-0232	739194	1009742.5	104	Mv	6/1/2006	999	5	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0237	739094.75	1009717	102	Mv	8/1/2006	102	5	0	Hot Soil	8/1/2006	Steel wire	-	
SEAD-57	57K12-0270	739156	1009604	82	Mv	6/1/2006	183	5	0	Cultural Debris	7/5/2006	Alum disk	-	
SEAD-57	57K12-0273	739092.25	1009662.75	78	Mv	8/1/2006	78	5	1	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	57K12-0291	739137.5	1009627.25	68	Mv	6/1/2006	45	5	0	Cultural Debris	6/8/2006	Alum	-	
SEAD-57	57K12-0293	739246.5	1009682.5	67	Mv	6/1/2006	999	5	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0297	739176.75	1009665.75	63	Mv	6/1/2006	41	5	0	Cultural Debris	6/8/2006	Alum strip 1" x 4"	-	
SEAD-57	57K12-0301	739004	1009700.25	63	Mv	6/1/2006	28	5	0	Cultural Debris	10/24/2006	wire	-	
SEAD-57	57K12-0305	739148.25	1009634.75	61	Mv	6/1/2006	67	5	0	Cultural Debris	6/8/2006	Alum strip 1" x 3"	Pass	KC
SEAD-57	57K12-0322	739236.25	1009571.75	53	Mv	6/1/2006	54	5	0	Cultural Debris	7/5/2006	Bolts steel x 3	-	
SEAD-57	57K14-0034	739079.5	1009759.25	646	Mv	7/19/2006	646	5	3	Cultural Debris	10/26/2006		-	
SEAD-57	57K14-0048	739115.25	1009859.75	416	Mv	6/12/2006	272	5	3	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0062	739054.25	1009833.25	344	Mv	6/8/2006	120	5	12	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57K14-0105	739079	1009789	197	Mv	6/7/2006	40	5	17	Cultural Debris	10/19/2006	Scrap -same as #287	-	
SEAD-57	57K14-0157	739114.25	1009752.25	122	Mv	7/19/2006	122	5	14	Cultural Debris	10/26/2006		-	
SEAD-57	57K14-0159	739102.5	1009871.75	119	Mv	6/8/2006	53	5	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0180	739015.75	1009957.25	102	Mv	6/8/2006	80	5	12	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0251	739097.25	1009925	63	Mv	6/8/2006	40	5	18	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0267	739235.25	1009819	56	Mv	6/5/2006	10	5	10	Cultural Debris	6/6/2006	Alum	Pass	KC
SEAD-57	57K14-0269	739027	1009810.25	55	Mv	6/12/2006	27	5	3	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0287	739078.25	1009792.25	51	Mv	7/19/2006	21	5	12	Cultural Debris	10/19/2006	Scrap	-	
SEAD-57	57K14-0292	739005.25	1009795.75	50	Mv	7/19/2006	28	5	4	Munitions Debris	10/26/2006	Frag	-	
SEAD-57	57K14-0426	739128.75	1009764.5	30	Mv	9/11/2006	30	5	5	Cultural Debris	9/21/2006	Wire	Pass	KC
SEAD-57	57K14-0575	739005.75	1009809	19	Mv	9/11/2006	19	5	24	Cultural Debris	9/21/2006	Nail	Pass	KC
SEAD-57	57K16-0003	739196.5	1010111.25	6534	Mv	6/12/2006	999	5	0	Cultural Debris	8/23/2006	12 foot chain	-	
SEAD-57	57K16-0012	739077.583	1010174.324	1517	Mv	6/7/2006	560	5	0	Cultural Debris	6/14/2006	Scrap metal, 2" x 4"	-	
SEAD-57	57K16-0026	739176.25	1010137.5	754	Mv	6/7/2006	190	5	0	Cultural Debris	8/23/2006	Metal rod 24" long	-	
SEAD-57	57K16-0049	739006.25	1010198.75	356	Mv	6/7/2006	240	5	5	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0069	739235.25	1010125.25	147	Mv	6/7/2006	59	5	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0070	739101	1010101	145	Mv	6/7/2006	60	5	1	Munitions Debris	6/12/2006	20mm	-	
SEAD-57	57K16-0091	739146.25	1010097.5	103	Mv	6/7/2006	50	5	0	Cultural Debris	8/23/2006	Elec plug 1" x 2"	-	
SEAD-57	57K16-0099	739214.25	1010119.25	88	Mv	6/7/2006	80	5	0	Cultural Debris	8/23/2006	Horse shoe 1" x 4"	-	
SEAD-57	57K16-0100	739055	1010207	84	Mv	6/7/2006	60	5	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0101	739109.5	1010076.25	77	Mv	6/7/2006	15	5	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0107	739129.75	1010100.75	70	Mv	6/7/2006	44	5	0	Cultural Debris	8/23/2006	Scrap metal 1" x 1"	-	
SEAD-57	57K16-0111	739001.75	1010184.25	64	Mv	6/7/2006	26	5	4	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0115	739195	1010166.25	59	Mv	6/7/2006	25	5	3	Munitions Debris	8/23/2006	Frag 1" x 3"	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57K16-0125	739197	1010133	53	Mv	6/7/2006	25	5	1	Cultural Debris	8/23/2006	Alum strip 1" x 3"	-	
SEAD-57	57K16-0130	739233.5	1010171	51	Mv	6/6/2006	20	5	0	Munitions Debris	8/23/2006	Frag 1" x 1"	-	
SEAD-57	57K16-0174	739016.75	1010014.5	34	Mv	9/11/2006	34	5	15	Cultural Debris	9/21/2006	Wing nut	Pass	KC
SEAD-57	57K16-0273	739088.25	1010070.5	21	Mv	9/11/2006	21	5	13	Munitions Debris	9/21/2006	Frag	Pass	KC
SEAD-57	57M06-0025	739384.5	1008942.75	34	Mv	9/11/2006	34	5	18	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57M08-0013	739483.5	1009188.75	204	Mv	6/5/2006	999	5	0	Cultural Debris	7/5/2006	Alum disk	-	
SEAD-57	57M08-0016	739452.5	1009158.25	185	Mv	6/5/2006	999	5	0	Cultural Debris	7/5/2006	Alum disk	-	
SEAD-57	57M08-0027	739476.5	1009192.75	120	Mv	6/5/2006	999	5	0	Cultural Debris	7/5/2006	Alum disk	-	
SEAD-57	57M08-0029	739420.25	1009012.75	103	Mv	6/5/2006	999	5	0	Cultural Debris	7/5/2006	alum 1"x4"	-	
SEAD-57	57M08-0082	739427.75	1009142.5	32	Mv	9/11/2006	32	5	14	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M08-0318	739475.5	1009164.75	12	Mv	9/11/2006	12	5	30	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0013	739398.5	1009339.75	182	Mv	8/1/2006	183	5	0	Cultural Debris	8/22/2006	Alum cap	-	
SEAD-57	57M10-0022	739409	1009362	122	Mv	8/1/2006	122	5	0	Cultural Debris	8/22/2006	Alum washer	Pass	KC
SEAD-57	57M10-0041	739390	1009494.5	66	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	alum washer	-	
SEAD-57	57M10-0044	739343.75	1009496	54	Mv	8/1/2006	54	5	0	Cultural Debris	8/22/2006	Alum cap	-	
SEAD-57	57M12-0027	739368.25	1009602.5	4034	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	.metal strip	-	
SEAD-57	57M12-0154	739250.75	1009621.5	331	Mv	6/2/2006	999	5	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0209	739463.25	1009589.5	169	Mv	6/2/2006	999	5	0	Cultural Debris	6/6/2006	Battery cable	-	
SEAD-57	57M12-0214	739364	1009604	165	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Strip	-	
SEAD-57	57M12-0218	739357.75	1009602.25	161	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Alum 1"x2"	-	
SEAD-57	57M12-0239	739251.25	1009589.5	142	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Electric cable same as flag m12 264	Pass	KC
SEAD-57	57M12-0271	739287.75	1009719.25	109	Mv	6/2/2006	999	5	1	Munitions Debris	6/5/2006	Flare	-	
SEAD-57	57M12-0282	739436.25	1009562.25	99	Mv	6/2/2006	999	5	0	Cultural Debris	6/6/2006	2 bolts	-	
SEAD-57	57M12-0312	739347.75	1009615.5	83	Mv	6/5/2006	32	5	0	Cultural Debris	7/5/2006	Alum cap	-	
SEAD-57	57M12-0322	739395	1009699.5	79	Mv	6/2/2006	999	5	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0328	739271.25	1009716	76	Mv	6/6/2006	29	5	4	Munitions Debris	8/22/2006	Frag 1" x 5"	-	
SEAD-57	57M12-0334	739399.25	1009564.5	74	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Brass bolts 4	-	
SEAD-57	57M12-0341	739365.5	1009701	71	Mv	6/6/2006	60	5	5	Cultural Debris	8/22/2006	Metal rod 1" x 4"	-	
SEAD-57	57M12-0361	739375.25	1009615.75	62	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Washer	-	
SEAD-57	57M12-0368	739269.25	1009676.25	60	Mv	6/2/2006	999	5	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0369	739363.5	1009610.5	59	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Metal plate	-	
SEAD-57	57M12-0373	739268.25	1009597	58	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Alum cap	-	
SEAD-57	57M12-0379	739419	1009555.25	55	Mv	6/2/2006	999	5	0	Cultural Debris	6/6/2006	Iron rod	-	
SEAD-57	57M12-0383	739365.448	1009585.575	53	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Bolts x4	Pass	KC
SEAD-57	57M12-0387	739389.75	1009562.5	51	Mv	6/2/2006	999	5	0	Cultural Debris	7/5/2006	Filter and 1"x3" alum strip	-	
SEAD-57	57M12-0388	739290	1009661.25	51	Mv	6/2/2006	999	5	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0389	739280.25	1009665	51	Mv	6/2/2006	999	5	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0391	739258.25	1009678.5	51	Mv	6/2/2006	999	5	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0428	739274.75	1009701.75	39	Mv	9/11/2006	39	5	8	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57M14-0011	739257.5	1009845.25	127339	Mv	6/5/2006	3000	5	1	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57M14-0126	739387	1009787.75	101	Mv	6/6/2006	27	5	18	Cultural Debris	8/22/2006	Wire	-	
SEAD-57	57M14-0156	739291.25	1009792.75	70	Mv	6/5/2006	30	5	1	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57M14-0159	739479.25	1009815.25	68	Mv	6/6/2006	41	5	1	Munitions Debris	6/8/2006	Wire, 6", and Fuse part, 1"	-	
SEAD-57	57M14-0241	739320.5	1009891.75	41	Mv	9/11/2006	41	5	24	Cultural Debris	9/21/2006	Scrap metal	-	
SEAD-57	57M14-0515	739349.25	1009842.75	15	Mv	9/11/2006	15	5	8	Cultural Debris	9/21/2006	Scrap metal	Pass	KC
SEAD-57	57M14-0673	739355	1009798.75	10	Mv	9/11/2006	10	5	16	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57M16-0010	739315.75	1010081.845	546	Mv	6/6/2006	247	5	0	Cultural Debris	6/5/2006	Metal bar	-	
SEAD-57	57M16-0011	739313.75	1010084.5	540	Mv	6/6/2006	247	5	0	Cultural Debris	6/5/2006	Metal bar	-	
SEAD-57	57M16-0014	739331.125	1010033.5	352	Mv	6/6/2006	161	5	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0017	739439.75	1010093.5	339	Mv	6/7/2006	95	5	0	Cultural Debris	6/10/2006		Pass	KC
SEAD-57	57M16-0023	739330.25	1010149.25	245	Mv	6/6/2006	110	5	0	Cultural Debris	6/10/2006	Same as m16-44	-	
SEAD-57	57M16-0029	739447	1010102.5	197	Mv	6/7/2006	90	5	0	Munitions Debris	6/10/2006	Frag	Pass	KC
SEAD-57	57M16-0033	739308.25	1010102.25	178	Mv	6/6/2006	70	5	0	Cultural Debris	6/10/2006		-	

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Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57M16-0034	739320	1010119	173	Mv	6/7/2006	140	5	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0037	739333	1010151.25	162	Mv	6/6/2006	143	5	0	Cultural Debris	6/10/2006	same as m16-44	-	
SEAD-57	57M16-0040	739325.75	1010023.25	150	Mv	6/6/2006	70	5	5	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0044	739333.5	1010148.75	140	Mv	6/6/2006	102	5	0	Cultural Debris	6/10/2006	Cable	-	
SEAD-57	57M16-0050	739304.75	1010105.75	117	Mv	6/6/2006	95	5	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0056	739286.25	1010099	106	Mv	6/6/2006	90	5	0	Munitions Debris	6/8/2006	Frag 1" x 2"	-	
SEAD-57	57M16-0059	739337	1010146.25	103	Mv	6/6/2006	36	5	0	Cultural Debris	6/10/2006	Scrap metal, m16-066 and m16-059 are same item	Pass	KC
SEAD-57	57M16-0065	739328	1010037	92	Mv	6/6/2006	54	5	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0066	739341	1010146.25	87	Mv	6/6/2006	16	5	0	Cultural Debris	6/10/2006	Scrap metal, m16-066 and m16-059 are same item	-	
SEAD-57	57M16-0068	739428.75	1010031.75	86	Mv	6/7/2006	30	5	0	Munitions Debris	6/10/2006	Frag	-	
SEAD-57	57M16-0070	739307.75	1010110.75	83	Mv	6/6/2006	61	5	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0071	739317	1010145	83	Mv	6/6/2006	37	5	0	Cultural Debris	6/10/2006	Trash, Same as m16-63	Pass	KC
SEAD-57	57M16-0077	739324.816	1010001.423	75	Mv	6/7/2006	60	5	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0090	739428	1010077.75	64	Mv	6/7/2006	34	5	0	Cultural Debris	6/10/2006	Nail	-	
SEAD-57	57M16-0096	739325.5	1010049.5	55	Mv	6/6/2006	20	5	0	Cultural Debris	6/5/2006	Scrap	Pass	KC
SEAD-57	57M16-0101	739322.75	1010043.25	53	Mv	6/6/2006	10	5	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0191	739350.701	1010125.871	25	Mv	9/11/2006	25	5	22	Cultural Debris	9/21/2006	Washer	Pass	KC
SEAD-57	57M16-0267	739329	1010131	16	Mv	9/11/2006	16	5	14	Cultural Debris	9/21/2006	Lead shotgun slug	Pass	KC
SEAD-57	57M16-0313	739264.25	1010096.75	12	Mv	9/11/2006	12	5	13	Munitions Debris	9/21/2006	Small Arms, .50 cal head	Pass	KC
SEAD-57	57O10-0021	739537.25	1009330.75	42	Mv	9/11/2006	42	5	10	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O10-0030	739528.25	1009306.25	34	Mv	9/11/2006	34	5	6	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O12-0011	739514.75	1009614	575	Mv	6/5/2006	165	5	0	Cultural Debris	6/6/2006	Wire 3', Anomalies O12-0011 and O12-0016 are for same item.	-	
SEAD-57	57O12-0016	739513.5	1009611.75	267	Mv	6/5/2006	150	5	0	Cultural Debris	6/6/2006	Wire 3', Anomalies O12-0011 and O12-0016 are for same item.	-	
SEAD-57	57O12-0060	739507.75	1009707.25	21	Mv	9/11/2006	21	5	25	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	F08-016	738503.91	1009072.92	12	nT	8/8/2006	12	5	14	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	F09-018	738603.94	1009186.01	10	nT	8/8/2006	10	5	10	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	F12-004	738540.116	1009501.84	2	nT	10/17/2006	2	5	6	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	F12-037	738602.973	1009557.164	15	nT	10/17/2006	16	5	24	MPPEH	10/19/2006	2.36" rkt head WP	Pass	KC
SEAD-57	G06-001	738724.915	1008811.074	4	nT	9/6/2006	4	5	12	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G06-030	738743.064	1008798.13	10	nT	9/6/2006	10	5	10	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	G07-008	738693.155	1008942.65	17	nT	9/6/2006	17	5	6	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	G07-016	738664.998	1008877.663	28	nT	9/6/2006	28	5	10	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G07-027	738710.103	1008980.816	46	nT	9/6/2006	46	5	8	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G07-030	738734.924	1008988.689	9	nT	9/6/2006	9	5	24	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G08-007	738721.12	1009044.12	12	nT	8/8/2006	12	5	24	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	G08-024	738649.35	1009093.65	112	nT	8/8/2006	112	5	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G08-042	738729.14	1009096.89	16	nT	8/8/2006	16	5	4	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-015	738630.92	1009126.72	39	nT	8/8/2006	39	5	3	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-028	738743.07	1009210.72	18	nT	8/8/2006	18	5	24	Hot Soil	8/9/2006	Hot Rock	-	
SEAD-57	G10-017	738633.13	1009254.92	20	nT	8/8/2006	20	5	9	Hot Soil	8/9/2006	Hot Rock	-	
SEAD-57	G10-021	738664.63	1009260.55	2	nT	8/8/2006	2	5	13	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G10-050	738726.12	1009341.82	3	nT	8/8/2006	3	5	24	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-051	738725.05	1009331.77	15	nT	8/8/2006	15	5	14	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-004	738722.93	1009417.2	53	nT	8/8/2006	53	5	20	Munitions Debris	8/10/2006	Frag	-	
SEAD-57	G13-002	738682.395	1009655.746	9	nT	10/17/2006	10	5	14	Hot Soil	10/24/2006	Hot rock	Pass	KC
SEAD-57	H06-011	738781.81	1008768.5	133	nT	8/8/2006	133	5	2	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-015	738808.02	1008753.4	134	nT	8/8/2006	134	5	3	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	H06-016	738819.42	1008753.1	5	nT	8/8/2006	5	5	2	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	H06-019	738795.28	1008770.87	17	nT	8/8/2006	17	5	2	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-025	738847.41	1008782.72	11	nT	8/8/2006	11	5	9	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-027	738873.77	1008757.54	19	nT	8/8/2006	19	5	9	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	H06-029	738855.41	1008798.27	6	nT	8/8/2006	6	5	2	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	H06-037	738862.37	1008844.62	9	nT	8/8/2006	9	5	5	Cultural Debris	8/9/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H07-003	738789.36	1008926.06	7	nT	8/8/2006	7	5	2	Cultural Debris	8/9/2006		-	
SEAD-57	H07-007	738779.44	1008968.41	18	nT	8/8/2006	18	5	5	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	H07-014	738815.87	1008980.11	20	nT	8/8/2006	20	5	4	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	H07-015	738823.86	1008957.46	169	nT	8/8/2006	169	5	2	Cultural Debris	8/9/2006		-	
SEAD-57	H07-022	738843.85	1008899.26	16	nT	8/8/2006	16	5	5	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	H07-024	738825.34	1008888.6	32	nT	8/8/2006	32	5	2	Hot Soil	8/9/2006	Hotrock	Pass	KC
SEAD-57	H07-028	738794.54	1008905.92	381	nT	8/8/2006	381	5	4	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	H07-029	738782.25	1008901.18	12	nT	8/8/2006	12	5	5	Hot Soil	8/9/2006	Hotrock	-	
SEAD-57	H08-007	738819.984	1009085.211	20	nT	9/6/2006	20	5	3	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-026	738790.564	1009113.465	23	nT	9/6/2006	21	5	8	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-034	738802.876	1009092.469	4	nT	9/6/2006	4	5	4	Cultural Debris	9/8/2006	wire	Pass	KC
SEAD-57	H08-039	738791.341	1009064.215	5	nT	9/6/2006	5	5	5	Cultural Debris	9/8/2006		-	
SEAD-57	H08-068	738870.18	1009107.781	13	nT	10/17/2006	14	5	8	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	H09-012	738818.107	1009126.85	11	nT	10/17/2006	11	5	8	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	H10-001	738762.417	1009346.114	9	nT	10/17/2006	10	5	4	Hot Soil	10/23/2006	Hot rock	-	
SEAD-57	H10-003	738774.969	1009304.479	9	nT	10/17/2006	9	5	4	Hot Soil	10/23/2006	Layer of hot soil	Pass	KC
SEAD-57	H10-040	738823.378	1009278.705	133	nT	10/17/2006	132	5	30	Cultural Debris	10/25/2006	Piece of magnet	Pass	KC
SEAD-57	H10-042	738833.086	1009272.325	11	nT	10/17/2006	12	5	18	Cultural Debris	10/25/2006	Hinge	-	
SEAD-57	H10-049	738852.919	1009276.069	9	nT	10/17/2006	9	5	24	Cultural Debris	10/25/2006	Wire	Pass	KC
SEAD-57	H10-060	738849.036	1009315.736	27	nT	10/17/2006	28	5	4	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-002	738867.293	1009390.234	31	nT	10/17/2006	32	5	40	Hot Soil	10/25/2006	Hot rock	Pass	KC
SEAD-57	H11-017	738805.452	1009413.441	253	nT	10/17/2006	253	5	24	Munitions Debris	10/25/2006	Frag	Pass	KC
SEAD-57	H11-019	738821.017	1009391.484	11	nT	10/17/2006	11	5	8	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H12-005	738826.139	1009611.006	194	nT	10/17/2006	195	5	25	Cultural Debris	10/24/2006	Iron rod	-	
SEAD-57	I06-015	738906.96	1008833.48	45	nT	8/8/2006	45	5	2	Hot Soil	8/9/2006	Hotrock	Pass	KC
SEAD-57	I06-017	738875.17	1008824.21	24	nT	8/8/2006	24	5	2	Hot Soil	8/9/2006	Hotrock	Pass	KC
SEAD-57	I07-011	738964.12	1008949.71	7	nT	8/8/2006	7	5	3	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	I08-002	738942.835	1009104.537	33	nT	10/16/2006	33	5	2	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	I08-017	738969.816	1009087.907	15	nT	10/16/2006	14	5	6	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	I08-027	738897.529	1009003.403	17	nT	10/16/2006	17	5	6	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	I08-037	738955.053	1009030.723	8	nT	10/16/2006	9	5	2	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	I10-008	738987.34	1009304.72	33	nT	8/8/2006	33	5	2	Cultural Debris	8/9/2006		-	
SEAD-57	I10-011	738975.2	1009264.92	17	nT	8/8/2006	17	5	3	Hot Soil	8/9/2006	Hotrock	Pass	KC
SEAD-57	I10-012	738978.17	1009253.92	4	nT	8/8/2006	4	5	3	Munitions Debris	8/9/2006	M48	Pass	KC
SEAD-57	I10-015	738963.07	1009279.74	13	nT	8/8/2006	13	5	2	Hot Soil	8/9/2006	Hotrock	-	
SEAD-57	I10-026	738912.4	1009281.44	5	nT	8/8/2006	5	5	9	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	I10-047	738956.86	1009341.84	11	nT	8/8/2006	11	5	6	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	I11-002	738881.92	1009382.06	336	nT	8/8/2006	336	5	2	Cultural Debris	8/10/2006	Pipe	Pass	KC
SEAD-57	I11-003	738885.45	1009402.52	3	nT	8/8/2006	3	5	7	Munitions Debris	8/10/2006	frag	-	
SEAD-57	I11-036	738924.96	1009483.81	126	nT	8/8/2006	126	5	4	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-042	738992.99	1009401.96	13	nT	8/8/2006	13	5	4	Munitions Debris	8/10/2006	Frag	-	
SEAD-57	I11-049	738923.83	1009379.1	130	nT	8/8/2006	130	5	7	Munitions Debris	8/10/2006	Frag	-	
SEAD-57	I12-001	738967.281	1009540.294	12	nT	9/6/2006	12	5	30	Cultural Debris	9/7/2006	4 in dia. iron ring	Pass	KC
SEAD-57	J08-006	739052.716	1009044.123	6	nT	10/16/2006	6	5	24	Cultural Debris	10/19/2006	Snap ring	Pass	KC
SEAD-57	J12-002	739120.128	1009624.02	8	nT	10/16/2006	9	5	6	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J12-005	739105.109	1009586.06	7	nT	10/16/2006	9	5	26	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J12-009	739120.293	1009536.381	12	nT	10/16/2006	13	5	3	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K10-005	739132.729	1009365.922	20	nT	10/16/2006	21	5	0	MPPEH	10/17/2006	MK 25	Pass	KC
SEAD-57	P57_M06-11	739266.76	1008924.27	451	Mv	7/7/2006	750	5	3	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	P57_M06-12	739265.25	1008923.75	667	Mv	7/7/2006	1250	5	2	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	P57_M06-22	739261	1008936.5	35	Mv	7/7/2006	70	5	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-31	739271.75	1008985.75	27	Mv	7/7/2006	29	5	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-34	739297.75	1008998.25	21	Mv	7/7/2006	20	5	3	Munitions Debris	7/10/2006	Frag	-	

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Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	P57_M06-35	739284	1008982.75	47	Mv	7/7/2006	55	5	2	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-36	739293.5	1008976.75	21	Mv	7/7/2006	37	5	3	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-6	739272	1008924.75	104	Mv	7/7/2006	200	5	3	Cultural Debris	7/10/2006	Wire	-	-
SEAD-57	P57_M06-65	739329.25	1008933.25	30	Mv	7/7/2006	30	5	5	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-77	739286.25	1008934	96	Mv	7/7/2006	110	5	2	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57K06-103	739025.25	1008807	18	Mv	7/13/2006	33	5	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-114	739007	1008836	44	Mv	7/13/2006	48	5	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-119	739013	1008856.5	35	Mv	7/13/2006	65	5	1	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-12	739062.75	1008890.75	45	Mv	7/11/2006	60	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-13	739065.5	1008883	16	Mv	7/11/2006	45	5	3	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-154	739063.75	1008948.25	48	Mv	7/11/2006	55	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-155	739066.5	1008954.25	18	Mv	7/11/2006	20	5	3	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-157	739060.5	1008959.5	53	Mv	7/11/2006	55	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-16	739068	1008872.75	61	Mv	7/11/2006	100	5	2	Cultural Debris	7/18/2006	Wire	-	-
SEAD-57	P57K06-162	739053.25	1008982.25	49	Mv	7/13/2006	70	5	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-163	739056	1008987	20	Mv	7/13/2006	45	5	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-168	739081	1008992.75	44	Mv	7/12/2006	25	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-169	739089.5	1008993.5	23	Mv	7/12/2006	55	5	2	Cultural Debris	7/18/2006	Trash	-	-
SEAD-57	P57K06-172	739107	1008993	18	Mv	7/12/2006	20	5	3	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-173	739113	1008986.5	59	Mv	7/12/2006	100	5	2	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-175	739121	1008997	54	Mv	7/12/2006	95	5	2	Munitions Debris	7/18/2006	Frag	-	-
SEAD-57	P57K06-176	739132.5	1008998.25	58	Mv	7/12/2006	150	5	2	Cultural Debris	7/18/2006	Trash	-	-
SEAD-57	P57K06-179	739121.75	1008990.25	38	Mv	7/12/2006	80	5	2	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-183	739134	1008979.5	60	Mv	7/12/2006	75	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-192	739209.5	1008982.25	42	Mv	7/13/2006	55	5	2	Munitions Debris	7/19/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-216	739213.75	1008930.75	17	Mv	7/13/2006	18	5	2	Munitions Debris	7/19/2006	MK25 pieces	-	-
SEAD-57	P57K06-221	739213.75	1008942.75	20	Mv	7/13/2006	25	5	3	Munitions Debris	7/19/2006	Frag	-	-
SEAD-57	P57K06-225	739199.8	1008947.47	63	Mv	7/13/2006	60	5	2	Munitions Debris	7/19/2006	MK25 pieces	-	-
SEAD-57	P57K06-274	739072.25	1008892.75	50	Mv	7/11/2006	70	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-299	739105.25	1008966.25	84	Mv	7/12/2006	130	5	3	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-303	739090.75	1008972.75	106	Mv	7/12/2006	110	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-304	739082	1008972.5	45	Mv	7/12/2006	45	5	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-305	739079	1008975.25	62	Mv	7/12/2006	90	5	1	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-317	739072.75	1008942.25	109	Mv	7/11/2006	135	5	2	Munitions Debris	7/18/2006	Frag	-	-
SEAD-57	P57K06-58	739070.25	1008842	52	Mv	7/11/2006	60	5	2	Cultural Debris	7/18/2006	Trash	-	-
SEAD-57	P57K06-75	739067.75	1008811	117	Mv	7/13/2006	175	5	2	Munitions Debris	7/18/2006	Frag	-	-
SEAD-57	P57K06-88	739065	1008771.75	44	Mv	7/13/2006	53	5	3	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-92	739030.75	1008775.5	136	Mv	7/13/2006	150	5	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-94	739014	1008758	52	Mv	7/13/2006	50	5	2	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K08-10	739240	1009183.75	44	Mv	7/10/2006	69	5	9	Munitions Debris	7/11/2006	Frag	-	-
SEAD-57	P57K08-114	739210	1009172.75	27	Mv	7/10/2006	32	5	8	Munitions Debris	7/11/2006	Frag	-	-
SEAD-57	P57K08-117	739215	1009181.5	68	Mv	7/10/2006	72	5	4	Munitions Debris	7/11/2006	Frag	-	-
SEAD-57	P57K08-120	739215	1009188.75	60	Mv	7/10/2006	70	5	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-127	739195.25	1009193.75	77	Mv	7/10/2006	113	5	1	Cultural Debris	7/11/2006	Seed item painted orange	-	-
SEAD-57	P57K08-13	739248.75	1009176.5	87	Mv	7/10/2006	90	5	13	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-139	739226	1009212.25	45	Mv	7/10/2006	51	5	10	Munitions Debris	7/11/2006	Multiple digs/pieces	-	-
SEAD-57	P57K08-142	739217.5	1009219	17	Mv	7/10/2006	40	5	12	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC
SEAD-57	P57K08-143	739209.5	1009217.25	18	Mv	7/10/2006	41	5	18	Munitions Debris	7/11/2006	Multiple digs/pieces	-	-
SEAD-57	P57K08-149	739205.25	1009225	100	Mv	7/10/2006	110	5	14	Munitions Debris	7/11/2006	Multiple digs/pieces	-	-
SEAD-57	P57K08-154	739209	1009247.75	29	Mv	7/10/2006	72	5	5	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-155	739220.25	1009229.5	68	Mv	7/10/2006	70	5	3	Munitions Debris	7/11/2006	Frag	-	-
SEAD-57	P57K08-162	739234.25	1009228.25	38	Mv	7/10/2006	76	5	5	Munitions Debris	7/11/2006	Frag	-	-
SEAD-57	P57K08-2	739242	1009222.75	55	Mv	7/10/2006	58	5	13	Munitions Debris	7/11/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	Date					Item Description			
SEAD-57	P57K08-21	739231.5	1009115	57	Mv	7/10/2006	89	5	4	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-22	739225.75	1009117.25	37	Mv	7/10/2006	54	5	8	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-24	739211.5	1009110	52	Mv	7/10/2006	74	5	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-25	739205.75	1009109	97	Mv	7/10/2006	147	5	18	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-32	739248.75	1009100.5	28	Mv	7/10/2006	54	5	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-33	739246	1009094.25	56	Mv	7/10/2006	63	5	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-35	739239.25	1009083.75	22	Mv	7/10/2006	29	5	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-40	739226.25	1009054.25	41	Mv	6/1/2006	65	5	1	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-42	739233	1009036.5	36	Mv	6/1/2006	70	5	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-50	739222	1009032.25	90	Mv	6/1/2006	85	5	0	Cultural Debris	10/24/2006	Scrap metal	-		
SEAD-57	P57K08-72	739218	1009065.5	27	Mv	7/10/2006	74	5	2	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-85	739204	1009131	26	Mv	7/10/2006	38	5	6	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-93	739225.75	1009143.5	63	Mv	7/10/2006	113	5	4	Munitions Debris	7/11/2006	Multiple digs Frag and Amuminum	-		
SEAD-57	P57K10-100	739210.25	1009363.75	70	Mv	7/13/2006	89	5	9	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-103	739216	1009372.75	26	Mv	7/13/2006	23	5	10	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-110	739232.5	1009375	34	Mv	7/13/2006	34	5	13	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-114	739219	1009343.25	112	Mv	7/11/2006	121	5	10	Cultural Debris	7/18/2006	Seed item painted orange	-		
SEAD-57	P57K10-120	739216.5	1009332.5	49	Mv	7/11/2006	70	5	10	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-133	739206	1009298.5	58	Mv	7/11/2006	63	5	18	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-145	739211	1009262	25	Mv	7/11/2006	86	5	9	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-146	739205.5	1009263.5	50	Mv	7/11/2006	52	5	6	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-155	739224.75	1009257.75	78	Mv	7/11/2006	105	5	2	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-160	739238	1009271.5	23	Mv	7/11/2006	69	5	17	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-185	739236	1009349.25	24	Mv	7/13/2006	48	5	12	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-198	739241.75	1009428.75	64	Mv	7/13/2006	65	5	10	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-21	739174	1009461.75	26	Mv	7/13/2006	50	5	3	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-23	739182.75	1009464.5	35	Mv	10/4/2006	36	5	8	Munitions Debris	10/26/2006	Frag	-		
SEAD-57	P57K10-30	739207.75	1009459.25	84	Mv	7/13/2006	84	5	13	Munitions Debris	7/17/2006	Multiple digs/pieces	Pass	KC	
SEAD-57	P57K10-41	739205.25	1009446.5	34	Mv	7/13/2006	33	5	4	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-43	739215.75	1009442.5	50	Mv	7/13/2006	64	5	8	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-5	739247.25	1009487.75	41	Mv	7/13/2006	52	5	8	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-55	739205.75	1009408.5	20	Mv	7/13/2006	20	5	5	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-57	739202.5	1009410.75	27	Mv	7/13/2006	19	5	24	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-63	739193.75	1009408	43	Mv	7/13/2006	78	5	5	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-75	739201.75	1009375.5	26	Mv	7/13/2006	27	5	8	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-76	739204.75	1009375	44	Mv	7/13/2006	69	5	8	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-82	739201.5	1009370	76	Mv	7/13/2006	85	5	4	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-84	739196.25	1009366.25	112	Mv	7/13/2006	132	5	12	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-91	739197.75	1009346.25	101	Mv	7/11/2006	103	5	6	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57M08-101	739268.5	1009225.75	46	Mv	7/6/2006	60	5	1	Cultural Debris	7/7/2006	Trash	-		
SEAD-57	P57M08-102	739268.25	1009228.25	62	Mv	7/5/2006	55	5	1	Cultural Debris	7/7/2006	Trash	-		
SEAD-57	P57M08-103	739265.75	1009221.75	20	Mv	7/6/2006	35	5	1	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-108	739271	1009244.5	24	Mv	7/6/2006	25	5	3	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-110	739275.75	1009237.5	26	Mv	7/6/2006	25	5	2	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-111	739279	1009231.5	26	Mv	7/6/2006	25	5	3	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-115	739299	1009233.25	29	Mv	7/6/2006	25	5	2	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-37	739311.25	1009195.25	19	Mv	7/6/2006	30	5	2	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-45	739309.25	1009129.25	19	Mv	7/6/2006	20	5	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57M08-5	739350.75	1009235	36	Mv	7/6/2006	45	5	1	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-57	739345.25	1009004.75	42	Mv	7/6/2006	42	5	2	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-4	739333.25	1009378.25	21	Mv	7/10/2006	30	5	24	Cultural Debris	7/10/2006	Trash	-		
SEAD-57	P57M10-49	739293.5	1009290.75	74	Mv	7/10/2006	120	5	10	Munitions Debris	7/10/2006	Multiple digs / pieces	-		
SEAD-57	P57M10-52	739313.75	1009286	28	Mv	7/10/2006	30	5	14	Munitions Debris	7/10/2006	Frag	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	P57M10-63	739255.5	1009267.25	17	Mv	7/10/2006	50	5	7	Munitions Debris	7/10/2006	Multiple digs /pieces	-	
SEAD-57	P57M10-72	739268.25	1009336	26	Mv	7/10/2006	29	5	20	Munitions Debris	7/10/2006	Small Arms, .50 cal head	-	
SEAD-57	P57M10-74	739273.25	1009353.25	28	Mv	7/10/2006	29	5	24	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-75	739264.25	1009372.75	23	Mv	7/10/2006	28	5	10	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-84	739264.25	1009446.25	33	Mv	7/10/2006	58	5	8	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	P57M10-86	739262	1009428.75	30	Mv	7/10/2006	67	5	5	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	P57M10-94	739283.25	1009471.75	20	Mv	7/10/2006	28	5	12	Munitions Debris	7/10/2006	Multiple digs / pieces	-	
SEAD-57	S57_M12_3	739262.25	1009504.75	1054	Mv	7/10/2006	1450	5	3	Cultural Debris	7/10/2006	Car batt	-	
SEAD-57	S57K12-15	739167	1009505.5	63	Mv	7/10/2006	100	5	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-17	739172	1009502	23	Mv	7/10/2006	35	5	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-18	739172	1009504.25	32	Mv	7/10/2006	40	5	1	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-19	739170.5	1009505.75	18	Mv	7/10/2006	100	5	4	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-21	739177.5	1009510.25	78	Mv	7/10/2006	55	5	3	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-30	739192.25	1009557.75	94	Mv	7/10/2006	85	5	3	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-38	739198	1009523	52	Mv	7/10/2006	68	5	3	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-39	739199.75	1009511	23	Mv	7/10/2006	20	5	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-41	739211.02	1009500.47	33	Mv	7/10/2006	120	5	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-42	739215	1009513.5	29	Mv	7/10/2006	55	5	3	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-43	739220.75	1009526.75	35	Mv	7/10/2006	25	5	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-53	739205.25	1009563.5	45	Mv	7/10/2006	85	5	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-56	739187.25	1009580.25	22	Mv	7/10/2006	30	5	3	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-8	739163	1009537.5	33	Mv	7/10/2006	75	5	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57 Buffer	A14-003	738011	1009890.75	26	mV	9/28/2006	26	5	6	Cultural Debris	10/9/2006		-	
SEAD-57 Buffer	A14-007	737995.25	1009894	28	mV	9/28/2006	28	5	7	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-008	737991.5	1009909.25	36	mV	9/28/2006	36	5	6	Cultural Debris	10/9/2006		-	
SEAD-57 Buffer	A14-012	737940	1009930.25	113	mV	9/28/2006	113	5	6	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-023	737973.25	1009865.75	34	mV	9/28/2006	34	5	8	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-025	738002.5	1009850.75	17	mV	9/28/2006	17	5	6	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-026	738002.75	1009844.25	39	mV	9/28/2006	39	5	24	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-027	738008.75	1009844.5	252	mV	9/28/2006	252	5	24	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-028	738019.5	1009847.25	19	mV	9/28/2006	19	5	24	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-033	738036.5	1009866.25	38	mV	9/28/2006	38	5	3	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-035	738046.25	1009867.75	22	mV	9/28/2006	22	5	5	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-038	738055.25	1009875	113	mV	9/28/2006	113	5	10	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-039	738054.46	1009871.56	178	mV	9/28/2006	178	5	24	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-045	738047	1009847.5	34	mV	9/28/2006	34	5	18	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-048	738070.25	1009841	57	mV	9/28/2006	57	5	2	Munitions Debris	10/5/2006	Frag	-	
SEAD-57 Buffer	A14-057	738105.92	1009825.18	102	mV	9/28/2006	102	5	24	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-058	738102.75	1009822	273	mV	9/28/2006	273	5	24	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-060	738089.25	1009824.25	243	mV	9/28/2006	243	5	24	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-061	738085.75	1009826.5	220	mV	9/28/2006	220	5	20	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-077	737965.55	1009822.9	21	mV	9/28/2006	21	5	3	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-078	737962.5	1009830.75	164	mV	9/28/2006	164	5	14	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-082	737952.25	1009860	17	mV	9/28/2006	17	5	10	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-083	737957	1009846.75	40	mV	9/28/2006	40	5	8	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-088	737926.25	1009810	40	mV	9/28/2006	40	5	10	Cultural Debris	10/4/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A14-093	737893.25	1009838.75	25	mV	9/28/2006	25	5	3	Cultural Debris	10/10/2006		-	
SEAD-57 Buffer	A14-097	737915.67	1009834.98	100	mV	9/28/2006	100	5	12	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-100	737920	1009832	18	mV	9/28/2006	18	5	6	Cultural Debris	10/4/2006	2 large washers, 2 digs	Pass	KC
SEAD-57 Buffer	A14-103	737936.14	1009837.78	27	mV	9/28/2006	27	5	8	Cultural Debris	10/4/2006	Steel Rod	Pass	KC
SEAD-57 Buffer	A14-132	738026	1009988.5	18	mV	9/28/2006	18	5	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57 Buffer	A14-139	738038.5	1009957.75	56	mV	9/28/2006	56	5	2	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-142	738063.5	1009998	22	mV	9/28/2006	22	5	4	Cultural Debris	10/5/2006		Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	A14-156	738035.5	1009914.5	32	mV	9/28/2006	32	5	3	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-158	738007.75	1009920.5	60	mV	9/28/2006	60	5	6	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A16-011	737951.75	1010082.5	26	mV	9/28/2006	26	5	30	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-013	737963.25	1010096.5	18	mV	9/28/2006	18	5	20	Munitions Debris	10/10/2006	Frag	-	
SEAD-57 Buffer	A16-018	737957.75	1010043.75	18	mV	9/28/2006	18	5	12	Cultural Debris	10/10/2006	Nail	Pass	KC
SEAD-57 Buffer	A16-022	737978.75	1010017.25	19	mV	9/28/2006	19	5	4	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A16-037	738049.25	1010103	52	mV	9/28/2006	52	5	22	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-048	738058.5	1010015.5	19	mV	9/28/2006	19	5	5	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A16-068	738064.25	1010220.5	20	mV	9/28/2006	20	5	12	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-094	737969.25	1010225.25	47	mV	9/28/2006	47	5	9	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-096	737933	1010248.25	66	mV	9/28/2006	66	5	40	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-108	737929.49	1010137.4	29	mV	9/28/2006	29	5	4	Cultural Debris	10/9/2006	Bolt	Pass	KC
SEAD-57 Buffer	A16-109	737924	1010137.25	25	mV	9/28/2006	25	5	20	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-013	738055.25	1010274	37	mV	9/28/2006	37	5	7	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C14-009	738227.25	1009942.75	22	mV	9/28/2006	22	5	18	Cultural Debris	10/4/2006		-	
SEAD-57 Buffer	C14-015A1	738178.496	1009931.326	634	mV	10/16/2006	634	5	0	Cultural Debris	7/20/2006	15" pipe found near A flag	-	
SEAD-57 Buffer	C14-018	738152.5	1009890.25	78	mV	9/28/2006	78	5	6	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	C14-032	738147.25	1009946.5	38	mV	9/28/2006	38	5	18	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-007	738372.5	1010208	21	mV	9/28/2006	21	5	14	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-015	738290.25	1010146.75	255	mV	9/28/2006	255	5	20	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-020	738354.75	1010123.5	20	mV	9/28/2006	20	5	24	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-023	738330.07	1010070.43	21	mV	9/28/2006	21	5	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-025	738318.75	1010054	17	mV	9/28/2006	17	5	16	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-032	738237.54	1010032.34	18	mV	9/28/2006	18	5	10	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C16-035	738228	1010018.75	42	mV	9/28/2006	42	5	8	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-043	738194.75	1010082.75	23	mV	9/28/2006	23	5	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-052	738156.75	1010144	22	mV	10/2/2006	22	5	3	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	C16-061	738135	1010247.75	54	mV	10/2/2006	54	5	30	Munitions Debris	10/5/2006	20 mm head, empty	Pass	KC
SEAD-57 Buffer	C18-005	738364.5	1010252.25	26	mV	9/26/2006	26	5	10	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-017	738331.75	1010300.75	71	mV	9/26/2006	71	5	15	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-002	738457.5	1010234	21	mV	10/2/2006	21	5	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-007	738403.75	1010216.75	19	mV	10/2/2006	19	5	5	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-009	738385.5	1010170.75	26	mV	10/2/2006	26	5	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-019	738398.09	1010064.99	53	mV	10/2/2006	53	5	7	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-019D1	738403.219	1010074.023	634	mV	10/16/2006	634	5	0	Munitions Debris	7/20/2006	8" frag found near D flag	-	
SEAD-57 Buffer	E16-021	738389.75	1010029.5	28	mV	10/2/2006	28	5	12	MPPEH	10/4/2006	20mm he head	Pass	KC
SEAD-57 Buffer	E16-023	738415.25	1010052.75	19	mV	10/2/2006	19	5	10	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-039	738603.75	1010126.75	64	mV	10/2/2006	64	5	10	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-041	738597.29	1010148.5	125	mV	10/2/2006	125	5	3	Cultural Debris	10/3/2006		Pass	KC
SEAD-57 Buffer	E16-043	738611	1010161.75	22	mV	10/2/2006	22	5	12	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-047	738614.75	1010244.5	20	mV	10/2/2006	20	5	3	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-049	738578	1010244	497	mV	10/2/2006	497	5	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-055	738563	1010202	64	mV	10/2/2006	64	5	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-058	738477	1010181.25	27	mV	10/2/2006	27	5	8	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-060	738513.2	1010229.27	131	mV	10/2/2006	131	5	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-062	738495	1010230.25	23	mV	10/2/2006	23	5	5	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-064	738478.75	1010249.25	17	mV	10/2/2006	17	5	24	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-002	738462.25	1010257	212	mV	9/26/2006	212	5	2	Munitions Debris	10/4/2006	2.36" rkt motor	Pass	KC
SEAD-57 Buffer	E18-017	738619.5	1010322	17	mV	9/26/2006	17	5	24	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-020	738577.25	1010305	38	mV	9/26/2006	38	5	20	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-023	738520.5	1010318	26	mV	9/26/2006	26	5	7	Munitions Debris	10/3/2006	Frag, 2digs, 2 pieces	Pass	KC
SEAD-57 Buffer	E18-026	738496.75	1010299.5	20	mV	9/26/2006	20	5	8	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-030	738378.25	1010287.5	24	mV	9/26/2006	24	5	16	Munitions Debris	10/4/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	G16-002	738736.5	1010185.75	87	mV	9/26/2006	87	5	3	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-003	738761.5	1010211	48	mV	9/26/2006	48	5	3	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-004	738822.5	1010248.75	32	mV	9/26/2006	32	5	18	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	G16-005	738831	1010205.25	70	mV	9/26/2006	70	5	3	Munitions Debris	10/2/2006	frag	Pass	KC
SEAD-57 Buffer	G16-009	738742	1010163	61	mV	9/26/2006	61	5	4	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-021	738630.25	1010194.25	60	mV	9/26/2006	60	5	1	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-033	738723.75	1010246.75	47	mV	9/26/2006	47	5	5	Munitions Debris	10/3/2006	Frag	-	-
SEAD-57 Buffer	G18-003	738699	1010336.25	63	mV	9/26/2006	63	5	9	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-007	738686.75	1010319.25	86	mV	9/26/2006	86	5	8	Cultural Debris	10/3/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	G18-012	738640.25	1010314.25	24	mV	9/26/2006	24	5	9	Cultural Debris	10/3/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	G18-032	738782	1010289	19	mV	9/26/2006	19	5	14	MPPEH	10/3/2006	20 mm head	-	-
SEAD-57 Buffer	G18-033	738810.75	1010322.5	95	mV	9/26/2006	95	5	8	Munitions Debris	10/3/2006	Flare piece	-	-
SEAD-57 Buffer	G18-038	738774.75	1010321	79	mV	9/26/2006	79	5	13	Munitions Debris	10/3/2006	Frag	-	-
SEAD-57 Buffer	G18-042	738726.25	1010316.5	17	mV	9/27/2006	17	5	10	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-043	738717.75	1010316.75	40	mV	9/27/2006	40	5	10	Munitions Debris	10/3/2006	Frag, 2 digs, 1 piece of aluminum	Pass	KC
SEAD-57 Buffer	I18-003	738889	1010343.25	69	mV	9/26/2006	69	5	6	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	I18-011	738962.5	1010355.75	158	mV	9/26/2006	158	5	12	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-014	739004.25	1010343.25	72	mV	9/26/2006	72	5	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-019	738970	1010309.25	32	mV	9/26/2006	32	5	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-026	739078.75	1010320	730	mV	9/26/2006	730	5	8	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-032	739120.25	1010312.75	59	mV	9/26/2006	59	5	4	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K16-007	739229.75	1010223.5	17	mV	9/26/2006	17	5	3	Cultural Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-014	739157.56	1010292.75	25	mV	9/26/2006	25	5	4	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K18-016	739135.5	1010271.75	31	mV	9/26/2006	31	5	3	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K18-041	739353.5	1010318.75	20	mV	9/26/2006	20	5	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-048	739362.5	1010442.75	46	mV	9/26/2006	46	5	9	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-049	739316.5	1010448.25	21	mV	9/26/2006	21	5	3	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K18-050	739298.6	1010474.03	29	mV	9/26/2006	29	5	10	Munitions Debris	10/2/2006	2.36 in. fuze [empty]	Pass	KC
SEAD-57 Buffer	K18-061	739325.5	1010378.25	50	mV	9/26/2006	50	5	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-071	739195.75	1010420	276	mV	9/26/2006	276	5	13	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	M18-008	739421.25	1010258.75	106	mV	9/26/2006	106	5	9	Munitions Debris	9/28/2006	Frag	Pass	KC
SEAD-57 Buffer	X18-003	737831.49	1010307.27	28	mV	10/2/2006	27	5	25	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57	57C14-0026	738170	1009757.5	2388	Mv	6/14/2006	611	4	3	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0041	738248.079	1009877.847	272	Mv	6/14/2006	156	4	18	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0045	738228.75	1009759.75	335	Mv	6/14/2006	205	4	2	Munitions Debris	6/15/2006	Frag	-	-
SEAD-57	57C14-0066	738218.75	1009756	158	Mv	6/14/2006	202	4	8	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0070	738177.25	1009756	142	Mv	6/14/2006	69	4	12	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0078	738197.25	1009883.25	120	Mv	6/14/2006	41	4	24	Munitions Debris	6/20/2006	Frag	-	-
SEAD-57	57C14-0085	738209.5	1009762.75	113	Mv	6/14/2006	50	4	6	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0086	738232.75	1009874.75	109	Mv	6/14/2006	16	4	2	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57C14-0090	738161.25	1009836	95	Mv	6/14/2006	38	4	10	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0093	738178.25	1009869.75	90	Mv	6/14/2006	33	4	4	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0102	738249.25	1009885.75	73	Mv	6/14/2006	81	4	12	Munitions Debris	6/15/2006	Frag	-	-
SEAD-57	57C14-0103	738226.5	1009806	73	Mv	6/14/2006	40	4	2	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0107	738218	1009751.25	64	Mv	6/14/2006	69	4	0	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0110	738171.25	1009836.5	60	Mv	6/14/2006	20	4	4	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0115	738093.25	1009774.5	55	Mv	6/14/2006	140	4	18	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0118	738154.75	1009823.75	54	Mv	6/14/2006	30	4	4	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0128	738147.5	1009841	50	Mv	6/14/2006	10	4	8	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0129	738156	1009860.5	49	Mv	9/11/2006	49	4	2	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57C14-0180	738128.75	1009752.75	28	Mv	9/11/2006	28	4	6	Cultural Debris	9/20/2006		-	-
SEAD-57	57E04-0004	738490.5	1008641	39	Mv	9/11/2006	39	4	6	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0007	738497.25	1008964	201	Mv	6/22/2006	90	4	1	Munitions Debris	6/26/2006	Frag	-	-

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Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E06-0009	738492.25	1008969.25	116	Mv	6/22/2006	92	4	3	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E06-0011	738500	1008985.25	114	Mv	6/22/2006	60	4	4	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E06-0024	738496	1008955.75	33	Mv	9/11/2006	33	4	3	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0040	738495.75	1008920.75	21	Mv	9/11/2006	21	4	3	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0044	738471.5	1008986.75	19	Mv	9/11/2006	19	4	6	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0064	738466.75	1008968.75	10	Mv	9/11/2006	10	4	6	Munitions Debris	9/20/2006	MK25 pieces	-	
SEAD-57	57E08-0006	738455	1009193.5	502	Mv	6/22/2006	82	4	0	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	57E08-0025	738499.75	1009093.25	275	Mv	6/22/2006	170	4	4	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0027	738464.5	1009098.75	269	Mv	6/22/2006	94	4	12	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0059	738473.25	1009068.25	207	Mv	6/22/2006	156	4	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0064	738488.75	1009076	198	Mv	6/22/2006	90	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57E08-0076	738460.5	1009128	187	Mv	6/22/2006	116	4	6	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0102	738477.5	1009036.75	161	Mv	6/22/2006	55	4	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0105	738485	1009045	157	Mv	6/22/2006	84	4	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0121	738492.75	1009083.5	144	Mv	6/22/2006	68	4	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0140	738475.75	1009117.75	126	Mv	6/22/2006	63	4	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0161	738486.5	1009123	91	Mv	6/22/2006	107	4	7	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0167	738472.25	1009111.25	82	Mv	6/22/2006	54	4	3	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0174	738482.25	1009078.75	73	Mv	6/22/2006	30	4	6	Cultural Debris	6/26/2006	Trash	-	
SEAD-57	57E08-0194	738478	1009022.75	43	Mv	9/11/2006	43	4	3	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E08-0200	738457	1009036.75	35	Mv	9/11/2006	35	4	16	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57E08-0207	738460.5	1009156	32	Mv	9/11/2006	32	4	6	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E08-0217	738459.75	1009242.25	22	Mv	9/11/2006	22	4	6	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E10-0010	738477.25	1009361.5	323	Mv	6/28/2006	143	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0013	738464.125	1009364.5	298	Mv	6/28/2006	169	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0014	738494.75	1009372.5	296	Mv	6/28/2006	180	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0022	738492.75	1009302	263	Mv	6/27/2006	115	4	4	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0023	738498.25	1009343.75	262	Mv	6/28/2006	136	4	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0027	738453.25	1009289.25	241	Mv	6/27/2006	65	4	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0028	738469	1009335.25	241	Mv	6/28/2006	93	4	6	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0029	738479.5	1009390.5	241	Mv	6/28/2006	130	4	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0030	738492	1009466.25	240	Mv	6/27/2006	130	4	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0038	738489.25	1009303.75	221	Mv	6/27/2006	200	4	2	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0040	738466.25	1009390	218	Mv	6/28/2006	80	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0041	738447.75	1009443.5	214	Mv	6/27/2006	99	4	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0049	738475	1009334	203	Mv	6/28/2006	80	4	5	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0051	738486.75	1009314.25	203	Mv	6/27/2006	85	4	6	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0052	738480.5	1009378	203	Mv	6/28/2006	106	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0054	738465	1009490.25	202	Mv	6/27/2006	78	4	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0057	738499	1009315.75	199	Mv	6/28/2006	110	4	10	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0059	738491	1009420	199	Mv	6/28/2006	50	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0061	738476.75	1009448.75	198	Mv	6/27/2006	94	4	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0075	738488.5	1009325.25	182	Mv	6/28/2006	118	4	3	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0076	738489	1009360.25	182	Mv	6/28/2006	86	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0079	738481	1009363.75	181	Mv	6/28/2006	137	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0080	738460.75	1009356.75	174	Mv	6/28/2006	80	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0094	738472.5	1009464.75	165	Mv	6/27/2006	71	4	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0098	738465.25	1009324.5	161	Mv	6/28/2006	118	4	8	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0104	738474.25	1009327.5	158	Mv	6/28/2006	98	4	10	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0116	738446.5	1009499.25	149	Mv	6/27/2006	66	4	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0132	738461.25	1009398.5	138	Mv	6/27/2006	113	4	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0137	738475	1009370	136	Mv	6/28/2006	71	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0138	738453.75	1009364.25	135	Mv	6/27/2006	83	4	0	Munitions Debris	6/28/2006	Alum MD	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E10-0142	738494.25	1009435	132	Mv	6/27/2006	104	4	2	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0150	738495.5	1009310	124	Mv	6/27/2006	65	4	5	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0155	738483	1009373.75	120	Mv	6/28/2006	91	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0157	738487.5	1009386.75	119	Mv	6/28/2006	70	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0162	738464	1009360.25	118	Mv	6/27/2006	85	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0165	738490.75	1009490.5	116	Mv	6/27/2006	91	4	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0166	738453	1009311.5	114	Mv	6/27/2006	93	4	3	Munitions Debris	6/27/2006	Alum MD 3"	-	
SEAD-57	57E10-0170	738492.5	1009347.25	111	Mv	6/28/2006	45	4	7	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0179	738452	1009274.75	106	Mv	6/27/2006	70	4	4	Munitions Debris	6/5/2006	Alum MD	-	
SEAD-57	57E10-0181	738497.25	1009457.75	105	Mv	6/27/2006	54	4	3	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0183	738500	1009411.25	104	Mv	6/28/2006	105	4	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0185	738463	1009288	103	Mv	6/27/2006	72	4	1	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0187	738473	1009346	103	Mv	7/5/2006	103	4	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0190	738486.25	1009269	101	Mv	6/22/2006	52	4	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0191	738480.75	1009251.5	101	Mv	6/27/2006	110	4	4	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0192	738481.25	1009432	101	Mv	6/28/2006	94	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0201	738455	1009292.75	92	Mv	6/27/2006	99	4	4	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0204	738457	1009337.5	89	Mv	6/28/2006	54	4	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0209	738470.75	1009353	87	Mv	6/27/2006	99	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0228	738488.75	1009291.5	76	Mv	6/27/2006	41	4	6	Munitions Debris	6/27/2006	Alum MD 3"	-	
SEAD-57	57E10-0229	738454.75	1009258	76	Mv	6/27/2006	54	4	3	Munitions Debris	6/5/2006	Alum MD	-	
SEAD-57	57E10-0231	738484.75	1009310.5	72	Mv	6/27/2006	41	4	8	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0232	738491.5	1009426.5	71	Mv	6/28/2006	78	4	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0234	738475.5	1009286.5	68	Mv	6/22/2006	43	4	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0240	738499.963	1009280.281	60	Mv	6/27/2006	90	4	3	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0244	738473	1009318.75	51	Mv	6/27/2006	69	4	7	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57E10-0249	738455	1009432	44	Mv	9/11/2006	44	4	8	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E10-0254	738464.5	1009328.25	40	Mv	9/11/2006	40	4	4	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E10-0259	738477.75	1009488.5	36	Mv	9/11/2006	36	4	10	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E10-0306	738456.75	1009396.75	17	Mv	9/11/2006	17	4	24	Munitions Debris	9/20/2006	Disk	Pass	KC
SEAD-57	57E12-0006	738467.75	1009612.25	808	Mv	7/5/2006	80	4	1	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0007	738434	1009655.25	690	Mv	6/29/2006	330	4	10	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0008	738434.25	1009652.75	681	Mv	6/28/2006	3000	4	7	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0013	738475	1009642.5	322	Mv	6/29/2006	150	4	2	Munitions Debris	7/7/2006	Multiple digs / pieces	Pass	KC
SEAD-57	57E12-0016	738499.5	1009566	280	Mv	7/5/2006	90	4	5	Munitions Debris	7/7/2006	Multiple digs/pieces	-	
SEAD-57	57E12-0020	738450.5	1009621.75	252	Mv	6/29/2006	100	4	8	Munitions Debris	7/7/2006	Frag + aluminum piece	-	
SEAD-57	57E12-0023	738445.5	1009588.5	245	Mv	7/5/2006	90	4	6	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0030	738469.75	1009662.5	221	Mv	6/29/2006	125	4	5	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0040	738497.75	1009583.75	198	Mv	7/5/2006	105	4	5	Munitions Debris	7/7/2006	Also 1 ea. grenade spoon.	-	
SEAD-57	57E12-0045	738456.25	1009574.5	179	Mv	7/5/2006	85	4	1	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0053	738447.5	1009636	159	Mv	6/29/2006	80	4	4	Munitions Debris	7/7/2006	Multiple digs / pieces	-	
SEAD-57	57E12-0055	738454.5	1009744	155	Mv	6/28/2006	64	4	4	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0057	738465.25	1009518.5	153	Mv	7/5/2006	80	4	4	Munitions Debris	7/7/2006	Multiple pieces	-	
SEAD-57	57E12-0062	738484.5	1009512	143	Mv	7/5/2006	80	4	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0069	738485.25	1009677	138	Mv	6/29/2006	85	4	8	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0075	738488.5	1009570	128	Mv	7/5/2006	90	4	5	Munitions Debris	7/7/2006	Multiple digs/pieces	-	
SEAD-57	57E12-0078	738480.75	1009573.5	123	Mv	7/5/2006	75	4	3	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0086	738470.5	1009534.25	117	Mv	7/5/2006	75	4	3	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0088	738456.5	1009554	111	Mv	7/5/2006	100	4	2	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0093	738445	1009572	105	Mv	7/5/2006	80	4	6	Munitions Debris	7/7/2006	Multiple digs/pieces	-	
SEAD-57	57E12-0100	738452.5	1009745.5	87	Mv	6/28/2006	54	4	6	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0104	738484.5	1009732.25	85	Mv	6/29/2006	60	4	3	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0105	738499.5	1009618.75	82	Mv	7/5/2006	75	4	4	Munitions Debris	7/7/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E12-0111	738440.25	1009717.25	75	Mv	6/29/2006	50	4	2	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0114	738487.75	1009667.5	70	Mv	6/29/2006	40	4	8	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0120	738451.75	1009581.25	66	Mv	7/5/2006	15	4	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0125	738485.75	1009673.75	55	Mv	6/29/2006	35	4	7	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0127	738428	1009741	54	Mv	6/29/2006	20	4	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0132	738469.25	1009649.5	52	Mv	6/29/2006	25	4	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0135	738462.5	1009736.25	50	Mv	6/28/2006	29	4	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0137	738440	1009745.75	46	Mv	9/11/2006	46	4	5	Cultural Debris	9/20/2006		-	
SEAD-57	57E12-0142	738470.25	1009731.75	41	Mv	9/11/2006	41	4	4	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57E14-0012	738428.5	1009831.25	1223	Mv	6/22/2006	200	4	0	Cultural Debris	7/19/2006	Scrap metal	Pass	KC
SEAD-57	57E14-0018	738429.25	1009827.75	595	Mv	6/22/2006	350	4	0	Cultural Debris	7/19/2006	Scrap metal	Pass	KC
SEAD-57	57E14-0025	738487.5	1009976.75	511	Mv	6/28/2006	200	4	2	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0026	738321.25	1009840.25	506	Mv	6/28/2006	220	4	2	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0040	738339.25	1009775.5	367	Mv	7/5/2006	367	4	20	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E14-0042	738332	1009856.75	360	Mv	6/28/2006	80	4	1	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0047	738314.75	1009847	313	Mv	6/28/2006	140	4	0	Cultural Debris	6/29/2006	Wire	Pass	KC
SEAD-57	57E14-0053	738438.25	1009867.5	269	Mv	6/28/2006	15	4	6	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0066	738347.25	1009918.5	229	Mv	6/22/2006	100	4	0	Cultural Debris	7/19/2006	Nails	-	
SEAD-57	57E14-0072	738325	1009783.75	212	Mv	7/5/2006	212	4	12	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0079	738325	1009862.5	186	Mv	6/28/2006	75	4	1	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0080	738418	1009754.25	176	Mv	7/5/2006	176	4	22	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0092	738396.75	1009793.75	134	Mv	7/5/2006	134	4	4	Cultural Debris	7/19/2006	Steel scrap. Anomalies E14-0092 and -0211 are the same item.	-	
SEAD-57	57E14-0097	738273.75	1009953.75	121	Mv	6/28/2006	105	4	1	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0098	738323.5	1009810	118	Mv	6/28/2006	75	4	7	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0103	738320.75	1009919.5	110	Mv	6/28/2006	20	4	2	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0108	738391	1009768.25	107	Mv	7/5/2006	107	4	12	Munitions Debris	7/19/2006	Steel MD Frag	-	
SEAD-57	57E14-0115	738472	1009811.75	102	Mv	6/28/2006	40	4	8	Cultural Debris	10/24/2006	Bolt	-	
SEAD-57	57E14-0120	738344.75	1009804.75	98	Mv	6/28/2006	85	4	10	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0121	738343.75	1009768	96	Mv	7/5/2006	96	4	2	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0125	738365.25	1009900.25	89	Mv	6/28/2006	33	4	0	Cultural Debris	10/24/2006	bolt	-	
SEAD-57	57E14-0126	738462.75	1009777	88	Mv	7/5/2006	88	4	10	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0128	738389.25	1009849.5	87	Mv	6/21/2006	55	4	6	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0131	738347	1009781	85	Mv	7/5/2006	85	4	20	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E14-0132	738332.5	1009777	83	Mv	7/5/2006	83	4	8	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E14-0133	738416	1009850	83	Mv	6/21/2006	36	4	6	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57E14-0135	738399.25	1009955.75	81	Mv	6/22/2006	40	4	1	Munitions Debris	7/19/2006	Steel MD Frag	-	
SEAD-57	57E14-0138	738388.75	1009896	80	Mv	6/21/2006	20	4	4	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57E14-0139	738392.75	1009849.75	79	Mv	6/21/2006	80	4	6	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57E14-0144	738437.5	1009814	74	Mv	7/19/2006	74	4	14	Cultural Debris	10/25/2006	Block of asphalt in the driveway	Pass	KC
SEAD-57	57E14-0151	738260.75	1009897.5	70	Mv	6/28/2006	35	4	2	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0153	738440	1009935.25	69	Mv	6/21/2006	35	4	12	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57E14-0156	738342.75	1009900.25	68	Mv	6/22/2006	50	4	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57E14-0175	738435	1009914.25	59	Mv	6/21/2006	20	4	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57E14-0176	738448	1009916	59	Mv	6/21/2006	20	4	12	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57E14-0183	738478.75	1009951.25	57	Mv	6/28/2006	25	4	9	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0184	738393.75	1009754.75	56	Mv	7/5/2006	56	4	12	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0185	738341.5	1009770.5	56	Mv	7/5/2006	56	4	8	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0192	738314.75	1009766	54	Mv	6/28/2006	30	4	4	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0199	738380.25	1009863.75	53	Mv	6/21/2006	30	4	10	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57E14-0203	738287.5	1009900.25	52	Mv	6/22/2006	25	4	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57E14-0211	738394	1009794.75	50	Mv	7/5/2006	50	4	8	Cultural Debris	7/19/2006	Steel scrap. Anomalies E14-0092 and -0211 are the same item.	Pass	KC
SEAD-57	57E14-0224	738491.5	1009800.25	47	Mv	9/11/2006	47	4	16	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E14-0353	738318	1009928.75	29	Mv	9/11/2006	29	4	2	Cultural Debris	9/21/2006		-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E16-0005	738489.93	1010026.791	213	Mv	6/21/2006	40	4	2	Cultural Debris	6/22/2006	Trash	Pass	KC
SEAD-57	57E16-0024	738473.75	1010010	32	Mv	9/11/2006	32	4	10	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57E16-0025	738482.25	1010048.75	30	Mv	9/11/2006	30	4	8	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57E16-0026	738464.226	1010065.346	26	Mv	9/11/2006	26	4	24	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57E16-0045	738451.25	1010025	15	Mv	9/11/2006	15	4	20	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57G04-0006	738733	1008669.5	461	Mv	6/20/2006	500	4	10	Munitions Debris	6/21/2006	75mm base with pusher plate still in place	-	-
SEAD-57	57G04-0010	738745	1008707	360	Mv	6/20/2006	240	4	1	Munitions Debris	6/20/2006	Steel MD	-	-
SEAD-57	57G04-0014	738675.5	1008605.75	292	Mv	6/20/2006	110	4	0	Cultural Debris	6/20/2006	Alum	-	-
SEAD-57	57G04-0017	738738	1008746	262	Mv	6/20/2006	140	4	8	Cultural Debris	6/20/2006	Steel scrap	-	-
SEAD-57	57G04-0027	738740.25	1008644.25	200	Mv	6/20/2006	105	4	6	Cultural Debris	6/21/2006	Trash	Pass	KC
SEAD-57	57G04-0030	738687.75	1008610.5	194	Mv	6/20/2006	25	4	0	MPPEH	6/20/2006	2.36 rkt wp Nose cone	-	-
SEAD-57	57G04-0033	738738	1008623.5	189	Mv	6/20/2006	150	4	0	Cultural Debris	10/24/2006	Metal stripe	Pass	KC
SEAD-57	57G04-0038	738531	1008615.75	175	Mv	6/20/2006	115	4	24	Cultural Debris	6/20/2006	Steel scrap	-	-
SEAD-57	57G04-0049	738537.75	1008634.75	157	Mv	6/20/2006	105	4	5	Cultural Debris	6/20/2006	Steel scrap. Anomalies G04-0066 and G04-0049 are the same item.	-	-
SEAD-57	57G04-0054	738735.75	1008674.75	150	Mv	6/20/2006	185	4	0	Cultural Debris	10/24/2006	Wire	-	-
SEAD-57	57G04-0066	738541.25	1008635.75	129	Mv	6/20/2006	55	4	7	Cultural Debris	6/20/2006	Steel scrap. Anomalies G04-0066 and G04-0049 are the same item.	-	-
SEAD-57	57G04-0079	738695.25	1008697.75	116	Mv	6/20/2006	120	4	2	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0084	738589.5	1008670.25	110	Mv	6/20/2006	25	4	8	Munitions Debris	6/20/2006	Steel MD	-	-
SEAD-57	57G04-0097	738677.5	1008739.75	101	Mv	6/20/2006	60	4	3	Munitions Debris	6/20/2006	Alum MD	-	-
SEAD-57	57G04-0100	738741.25	1008627	99	Mv	6/20/2006	100	4	10	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0113	738666.75	1008612	88	Mv	6/20/2006	50	4	0	Cultural Debris	6/20/2006	Alum	-	-
SEAD-57	57G04-0115	738725.75	1008730.5	86	Mv	6/20/2006	50	4	2	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0116	738749.5	1008654	85	Mv	6/20/2006	35	4	0	Munitions Debris	6/21/2006	Frag	Pass	KC
SEAD-57	57G04-0117	738556	1008605.75	82	Mv	6/20/2006	70	4	6	Munitions Debris	6/20/2006	Steel MD Frag	-	-
SEAD-57	57G04-0118	738724	1008714.25	82	Mv	6/20/2006	50	4	6	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0119	738681.5	1008632.5	81	Mv	6/20/2006	70	4	0	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0120	738736.5	1008655	80	Mv	6/20/2006	45	4	6	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0121	738723.5	1008607.5	80	Mv	6/20/2006	80	4	0	Cultural Debris	6/20/2006	Alum	-	-
SEAD-57	57G04-0122	738678.5	1008616.5	79	Mv	6/20/2006	55	4	0	Cultural Debris	6/20/2006	Alum	-	-
SEAD-57	57G04-0123	738705	1008604	79	Mv	6/20/2006	35	4	0	Cultural Debris	6/20/2006	Alum	-	-
SEAD-57	57G04-0124	738725.25	1008602.25	78	Mv	6/20/2006	85	4	0	Cultural Debris	6/20/2006	Alum	-	-
SEAD-57	57G04-0127	738703	1008688.75	76	Mv	6/20/2006	85	4	3	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0129	738679.5	1008674.5	76	Mv	6/20/2006	80	4	1	Munitions Debris	6/21/2006	Frag	Pass	KC
SEAD-57	57G04-0133	738727	1008618.25	74	Mv	6/20/2006	100	4	20	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0147	738716.5	1008627.75	62	Mv	6/20/2006	110	4	3	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0152	738705.75	1008612.25	57	Mv	6/20/2006	35	4	0	Cultural Debris	6/20/2006	Alum	-	-
SEAD-57	57G04-0155	738717	1008647.25	56	Mv	6/20/2006	25	4	4	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0167	738746.5	1008661.5	49	Mv	9/11/2006	49	4	8	Munitions Debris	9/21/2006	Frag	-	-
SEAD-57	57G04-0212	738705.75	1008734.5	35	Mv	9/11/2006	35	4	5	Munitions Debris	9/21/2006	Frag	-	-
SEAD-57	57G04-0224	738682.5	1008622.5	33	Mv	9/11/2006	33	4	6	Munitions Debris	9/21/2006	Frag	-	-
SEAD-57	57G04-0263	738740.25	1008663.5	22	Mv	9/11/2006	22	4	6	Munitions Debris	9/21/2006	frag	-	-
SEAD-57	57G04-0274	738720.25	1008725.5	19	Mv	9/11/2006	19	4	12	Munitions Debris	9/21/2006	Frag	-	-
SEAD-57	57G14-0004	738606.75	1009943	188967	Mv	7/11/2006	5000	4	10	Cultural Debris	7/12/2006	Truck wheel rim did not remove	-	-
SEAD-57	57G14-0018	738632.25	1009980.25	3270	Mv	7/11/2006	3600	4	12	Cultural Debris	10/26/2006	Found 2in pipe	-	-
SEAD-57	57G14-0020	738679.75	1009856.25	3145	Mv	6/13/2006	1533	4	8	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0024	738657.25	1009791.5	2295	Mv	6/13/2006	1300	4	3	Cultural Debris	6/20/2006	Trash	-	-
SEAD-57	57G14-0030	738510.75	1009868	1853	Mv	6/13/2006	816	4	8	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0038	738650.5	1009835	1584	Mv	6/13/2006	765	4	8	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0040	738582	1009984.75	1504	Mv	6/13/2006	3000	4	2	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0043	738509	1009870.75	1367	Mv	6/13/2006	462	4	8	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0055	738560.75	1009947.5	1016	Mv	6/13/2006	310	4	2	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0056	738567.5	1009893	1000	Mv	6/13/2006	431	4	8	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0065	738642.75	1009980	802	Mv	7/11/2006	12	4	0	Cultural Debris	8/23/2006	Wire	-	-

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G14-0073	738636.75	1009822.5	649	Mv	6/13/2006	360	4	6	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0085	738522.794	1009924.322	541	Mv	6/13/2006	344	4	4	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0095	738564.629	1009944.69	474	Mv	6/13/2006	258	4	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0097	738567.78	1009890.18	466	Mv	6/13/2006	414	4	5	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0106	738641.75	1009837	428	Mv	6/13/2006	157	4	14	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0108	738703.5	1009956.25	426	Mv	6/13/2006	108	4	20	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0111	738506	1009941	417	Mv	6/13/2006	243	4	3	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0112	738555.5	1009787.75	416	Mv	7/11/2006	223	4	18	Munitions Debris	7/12/2006	Frag	-	
SEAD-57	57G14-0113	738637.25	1009761.75	412	Mv	6/13/2006	193	4	24	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0117	738534.25	1009943	376	Mv	6/13/2006	165	4	3	Cultural Debris	6/19/2006	Survey stake	-	
SEAD-57	57G14-0122	738649	1009975.5	342	Mv	7/11/2006	123	4	2	Cultural Debris	7/12/2006	scrap metal	-	
SEAD-57	57G14-0124	738568	1009782.25	330	Mv	6/13/2006	182	4	3	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0132	738569	1009957.75	300	Mv	6/13/2006	56	4	6	Munitions Debris	6/19/2006	Frag	Pass	KC
SEAD-57	57G14-0138	738581	1009886.25	285	Mv	6/13/2006	221	4	3	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0145	738578.44	1009786.373	276	Mv	6/13/2006	100	4	3	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0148	738667	1009979.5	275	Mv	7/11/2006	280	4	2	Cultural Debris	7/12/2006	nails	-	
SEAD-57	57G14-0155	738632.5	1009943.25	260	Mv	6/21/2006	250	4	3	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57G14-0159	738737.75	1009820.75	250	Mv	6/12/2006	120	4	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0166	738575.75	1009789	235	Mv	6/13/2006	127	4	3	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0171	738567.5	1009753.25	225	Mv	6/14/2006	102	4	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0186	738734.75	1009845.5	202	Mv	6/13/2006	81	4	6	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0187	738545.5	1009961	202	Mv	6/13/2006	111	4	3	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0197	738591.5	1009766	193	Mv	6/14/2006	109	4	3	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0199	738513.25	1009845	190	Mv	6/13/2006	130	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G14-0207	738597.25	1009760	180	Mv	6/13/2006	99	4	4	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0209	738608.5	1009768.75	176	Mv	6/13/2006	119	4	5	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0210	738638.25	1009991	175	Mv	7/11/2006	2368	4	2	Cultural Debris	7/12/2006	Pipe	-	
SEAD-57	57G14-0220	738590	1009833	162	Mv	6/13/2006	38	4	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0226	738738	1009837	157	Mv	6/13/2006	56	4	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0230	738732.75	1009783	152	Mv	6/13/2006	67	4	8	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0238	738517.25	1009757.5	144	Mv	6/14/2006	65	4	10	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0246	738623.5	1009824.5	138	Mv	6/13/2006	53	4	4	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0253	738515.375	1009760.375	132	Mv	7/11/2006	152	4	24	Cultural Debris	7/12/2006	Trash	-	
SEAD-57	57G14-0257	738712.5	1009836.75	127	Mv	7/11/2006	75	4	6	Cultural Debris	7/12/2006	Trash	-	
SEAD-57	57G14-0260	738708.75	1009816.25	123	Mv	6/12/2006	107	4	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0267	738746.5	1009852.75	116	Mv	6/13/2006	57	4	12	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0273	738607.75	1009892.25	112	Mv	6/13/2006	110	4	8	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0285	738515.5	1009926.5	102	Mv	6/13/2006	20	4	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0287	738644	1009849	101	Mv	6/13/2006	45	4	6	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0293	738717.25	1009821	97	Mv	6/12/2006	65	4	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0294	738604.25	1009951.75	95	Mv	7/11/2006	51	4	6	Hot Soil	7/12/2006	Hot Rocks 2ea	-	
SEAD-57	57G14-0299	738507.5	1009977.75	94	Mv	7/11/2006	48	4	2	Munitions Debris	7/12/2006	Frag	-	
SEAD-57	57G14-0300	738507.25	1009927	94	Mv	6/13/2006	60	4	4	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0304	738748.5	1009834	93	Mv	6/13/2006	40	4	22	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0310	738685.25	1009861	90	Mv	6/13/2006	84	4	1	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57G14-0321	738729.25	1009777	84	Mv	6/13/2006	59	4	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	57G14-0323	738630	1009844	82	Mv	6/13/2006	97	4	6	Munitions Debris	6/15/2006	Small Arms, 5.56 brass	-	
SEAD-57	57G14-0327	738720.75	1009786.75	81	Mv	6/13/2006	45	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G14-0331	738508.25	1009758.5	79	Mv	6/14/2006	111	4	8	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0337	738659.75	1009767.75	75	Mv	6/14/2006	41	4	6	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0340	738644	1009791.75	75	Mv	6/13/2006	60	4	12	Munitions Debris	6/20/2006	Small Arms, 10x 5.56 brass	-	
SEAD-57	57G14-0341	738745.75	1009868	75	Mv	7/11/2006	52	4	0	Hot Soil	7/12/2006	Hot asphalt	-	
SEAD-57	57G14-0346	738747.5	1009839	73	Mv	6/13/2006	46	4	8	Munitions Debris	6/20/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G14-0347	738577.25	1009751	73	Mv	6/14/2006	32	4	3	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0353	738544.75	1009952.25	71	Mv	6/13/2006	21	4	10	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0362	738604.75	1009761.5	69	Mv	6/13/2006	58	4	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0365	738508	1009753	68	Mv	6/14/2006	40	4	6	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0368	738594.5	1009763.25	67	Mv	6/13/2006	30	4	5	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0370	738500.5	1009787.25	66	Mv	6/14/2006	90	4	3	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0372	738640.5	1009998.25	66	Mv	7/11/2006	33	4	2	Cultural Debris	7/12/2006	Trash	-	
SEAD-57	57G14-0375	738721.75	1009868.75	65	Mv	6/13/2006	45	4	0	Cultural Debris	10/24/2006	Nail	-	
SEAD-57	57G14-0381	738727.25	1009775	63	Mv	6/13/2006	56	4	4	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0385	738504	1009919	62	Mv	6/13/2006	21	4	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0388	738682.75	1009968.25	62	Mv	6/14/2006	66	4	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0392	738509	1009782.75	61	Mv	6/14/2006	15	4	0	Cultural Debris	10/24/2006	Bolt	-	
SEAD-57	57G14-0397	738670.5	1009995	61	Mv	7/11/2006	31	4	3	Cultural Debris	7/12/2006	Wire	-	
SEAD-57	57G14-0405	738743.75	1009855.25	58	Mv	6/13/2006	37	4	20	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0414	738744	1009974.25	55	Mv	6/14/2006	0	4	20	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0422	738646.5	1009766.25	54	Mv	6/13/2006	30	4	6	Munitions Debris	6/20/2006	Frag	Pass	KC
SEAD-57	57G14-0427	738524	1009755.5	53	Mv	6/14/2006	44	4	10	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0436	738603.75	1009764	51	Mv	6/13/2006	53	4	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0441	738685.917	1009995.663	50	Mv	7/11/2006	29	4	2	Cultural Debris	7/12/2006	wire	-	
SEAD-57	57G14-0453	738500.5	1009921	47	Mv	9/11/2006	47	4	6	Cultural Debris	9/25/2006		Pass	KC
SEAD-57	57G14-0459	738536	1009848.5	46	Mv	9/11/2006	46	4	8	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57G14-0480	738507	1009766	42	Mv	9/11/2006	42	4	24	Munitions Debris	9/25/2006	Small Arms, Blank round	Pass	KC
SEAD-57	57G14-0512	738723	1009780.75	37	Mv	9/11/2006	37	4	5	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57G14-0993	738685	1009845.75	12	Mv	9/11/2006	12	4	6	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57G16-0007	738659.75	1010114.5	3057	Mv	6/12/2006	460	4	2	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0034	738718.25	1010133.5	360	Mv	6/12/2006	193	4	2	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0038	738638.25	1010011.5	296	Mv	6/12/2006	95	4	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0041	738512.5	1010010	270	Mv	6/12/2006	119	4	2	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0051	738609	1010029.75	200	Mv	6/12/2006	116	4	0	Cultural Debris	10/24/2006	Tent stake	-	
SEAD-57	57G16-0061	738700.75	1010129.625	157	Mv	6/12/2006	120	4	3	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0070	738629.75	1010043.5	131	Mv	6/12/2006	78	4	3	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0072	738500.75	1010072.75	126	Mv	6/12/2006	149	4	5	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0080	738677.75	1010131.25	89	Mv	6/12/2006	41	4	1	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0092	738641.25	1010038.25	70	Mv	6/12/2006	95	4	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0093	738620	1010007	68	Mv	6/12/2006	13	4	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0095	738727.5	1010147.5	66	Mv	6/12/2006	15	4	3	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0101	738730.25	1010114.25	63	Mv	6/12/2006	28	4	5	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0106	738728.5	1010107	57	Mv	6/12/2006	17	4	2	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57I04-0012	738789.25	1008612.25	634	Mv	6/29/2006	364	4	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I04-0017	738808.75	1008645	544	Mv	6/29/2006	125	4	18	Munitions Debris	6/15/2006	Alum MD	-	
SEAD-57	57I04-0028	738786	1008742.5	377	Mv	6/29/2006	333	4	18	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57I04-0029	738808.25	1008639.25	370	Mv	6/29/2006	202	4	24	Munitions Debris	6/15/2006	Alum MD	-	
SEAD-57	57I04-0035	738754	1008672	349	Mv	6/29/2006	259	4	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I04-0046	738918.75	1008728.5	262	Mv	6/29/2006	160	4	5	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57I04-0049	738803.25	1008621.75	252	Mv	6/29/2006	158	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0052	738815.25	1008605.5	238	Mv	6/29/2006	104	4	8	Cultural Debris	7/7/2006	Steel scrap	Pass	KC
SEAD-57	57I04-0054	738971.75	1008643	234	Mv	6/29/2006	116	4	4	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57I04-0055	738812.5	1008605.25	223	Mv	6/29/2006	154	4	12	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0062	738789.5	1008695.25	209	Mv	6/29/2006	102	4	4	Munitions Debris	7/7/2006	Brass 37mm cart	Pass	KC
SEAD-57	57I04-0068	738795.5	1008628.75	191	Mv	6/29/2006	184	4	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57I04-0087	738761.25	1008632.75	151	Mv	6/29/2006	87	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0088	738769.5	1008674.75	149	Mv	6/29/2006	140	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0089	738797.5	1008740.5	149	Mv	6/29/2006	150	4	10	Munitions Debris	7/7/2006	Alum MD	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Location (ft) Northing (Y)	Amp ²	Amp Unit	Date	Amp							
SEAD-57	57104-0090	738800.25	1008636.5	148	Mv	6/29/2006	50	4	0	Cultural Debris	7/7/2006	Survey stake	Pass	KC
SEAD-57	57104-0093	738797.75	1008651.5	145	Mv	6/29/2006	120	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0100	738822.75	1008626.5	135	Mv	6/29/2006	30	4	4	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0107	738802.75	1008599.5	122	Mv	6/29/2006	90	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0110	738781	1008616.25	117	Mv	6/29/2006	227	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0113	738973	1008640	112	Mv	6/29/2006	120	4	10	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57104-0124	738995	1008625.25	101	Mv	6/29/2006	81	4	6	Cultural Debris	7/7/2006	Steel scrap	-	
SEAD-57	57104-0129	738791	1008643	92	Mv	6/29/2006	40	4	0	Munitions Debris	7/7/2006	Frag MD	Pass	KC
SEAD-57	57104-0132	738877.25	1008723.5	89	Mv	6/29/2006	54	4	3	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57104-0138	738795.75	1008662	84	Mv	6/1/2006	60	4	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57104-0140	738770.5	1008734	82	Mv	6/29/2006	97	4	5	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0142	738808.25	1008623.75	80	Mv	6/29/2006	78	4	7	Munitions Debris	6/15/2006	Alum MD	-	
SEAD-57	57104-0145	738794	1008743.5	79	Mv	6/29/2006	53	4	12	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0147	738750.5	1008640.25	76	Mv	6/29/2006	122	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0148	738943.5	1008674.25	76	Mv	6/29/2006	78	4	6	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0156	738753.5	1008699.25	70	Mv	6/29/2006	40	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0164	738753.25	1008608.25	67	Mv	6/29/2006	50	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0166	738762.5	1008616.5	65	Mv	6/29/2006	108	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0170	738788.75	1008658	62	Mv	6/29/2006	100	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0172	738789	1008738.75	62	Mv	6/29/2006	100	4	8	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0173	738796.25	1008683.5	62	Mv	6/29/2006	45	4	12	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57104-0178	738880.5	1008737	61	Mv	6/29/2006	103	4	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0183	738860	1008722.25	58	Mv	6/29/2006	27	4	6	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0184	738797.25	1008675.25	57	Mv	6/1/2006	40	4	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57104-0189	738794	1008739	55	Mv	6/29/2006	42	4	1	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0191	738781.75	1008667.5	52	Mv	6/29/2006	30	4	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57104-0193	738809.454	1008729.773	52	Mv	6/29/2006	49	4	8	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0195	738972.75	1008714	51	Mv	6/29/2006	44	4	4	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57104-0197	738799	1008666.75	51	Mv	6/29/2006	20	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0215	738865.75	1008650	40	Mv	9/11/2006	40	4	12	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57104-0266	738983	1008714.5	26	Mv	9/11/2006	26	4	6	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57104-0366	738965.5	1008707.75	12	Mv	9/11/2006	12	4	6	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57114-0008	738755.75	1009957	38507	Mv	6/6/2006	3000	4	36	Cultural Debris	10/26/2006	Same as #6 [fence post]	-	
SEAD-57	57114-0025	738793	1009873.375	1244	Mv	6/28/2006	776	4	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0041	738964.5	1009853.25	709	Mv	6/19/2006	320	4	8	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0048	738796.25	1009931.5	617	Mv	6/28/2006	281	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0049	738790.25	1009866.75	606	Mv	6/28/2006	196	4	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0061	738760	1009982	469	Mv	6/28/2006	350	4	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57114-0066	738873.5	1009769.75	447	Mv	7/6/2006	999	4	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0073	738830	1009933	423	Mv	6/22/2006	140	4	20	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0075	738853.75	1009765.25	393	Mv	6/20/2006	185	4	2	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57114-0082	738788	1009891.75	353	Mv	6/22/2006	160	4	1	Munitions Debris	6/27/2006	Alum MD	Pass	KC
SEAD-57	57114-0093	738863.144	1009759.581	293	Mv	6/20/2006	170	4	14	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57114-0106	738835.75	1009829.5	246	Mv	6/27/2006	140	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0109	738918	1009799.75	238	Mv	6/20/2006	115	4	0	Cultural Debris	7/19/2006	Alum	Pass	KC
SEAD-57	57114-0121	738798	1009947.75	221	Mv	6/28/2006	106	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57114-0125	738922.5	1009842	216	Mv	6/19/2006	100	4	0	Munitions Debris	7/19/2006	Alum. disk	Pass	KC
SEAD-57	57114-0135	738770.5	1009772	205	Mv	6/20/2006	105	4	5	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0136	738827	1009935	204	Mv	6/22/2006	170	4	8	Cultural Debris	6/27/2006	Trash, Same as 57114-0073	-	
SEAD-57	57114-0138	738941	1009890.5	201	Mv	6/27/2006	51	4	0	Hot Soil	10/24/2006	crushed Can	-	
SEAD-57	57114-0143	738977.5	1009834.5	193	Mv	6/19/2006	95	4	8	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0149	738900.5	1009807.5	185	Mv	6/27/2006	63	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0150	738803.5	1009944.5	183	Mv	6/28/2006	100	4	0	Munitions Debris	7/7/2006	Alum MD	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Location (ft) Northing (Y)	Amp ²	Amp Unit	Date	Amp							
SEAD-57	57114-0151	738895.5	1009764.25	181	Mv	6/20/2006	95	4	2	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0154	738865.5	1009889.25	176	Mv	6/27/2006	104	4	6	Cultural Debris	7/7/2006	Steel scrap, Anomalie I14-0322 & I1-0154 are the same item.	-	
SEAD-57	57114-0155	738952	1009875	176	Mv	6/22/2006	80	4	8	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57114-0173	738853.25	1009914.25	162	Mv	6/22/2006	75	4	5	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0176	738885.25	1009860.75	159	Mv	6/6/2006	159	4	0	Munitions Debris	8/23/2006	Frag MD	-	
SEAD-57	57114-0178	738900.25	1009757.25	157	Mv	6/20/2006	85	4	18	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0179	738865.75	1009860	155	Mv	7/6/2006	999	4	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0189	738806.75	1009899.25	139	Mv	6/22/2006	65	4	8	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0193	738940.25	1009775	137	Mv	6/6/2006	137	4	6	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57114-0198	738926.75	1009847.5	134	Mv	6/22/2006	55	4	8	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57114-0199	738806	1009762.75	133	Mv	6/27/2006	56	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0203	738924.75	1009801.75	128	Mv	6/20/2006	100	4	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0215	738776.75	1009949	120	Mv	6/28/2006	73	4	0	Cultural Debris	7/7/2006	Nails	-	
SEAD-57	57114-0218	738877	1009857.75	118	Mv	6/27/2006	72	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0220	738979.5	1009856.75	117	Mv	6/19/2006	120	4	4	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0222	738853	1009780.25	115	Mv	6/27/2006	100	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0246	738844.25	1009929	105	Mv	6/22/2006	40	4	14	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0248	738942	1009785.25	104	Mv	6/20/2006	85	4	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0259	738982.75	1009787.75	97	Mv	6/20/2006	75	4	4	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0262	738806.25	1009884.25	96	Mv	6/22/2006	40	4	0	Cultural Debris	7/19/2006	Pipe	-	
SEAD-57	57114-0264	738805	1009916.25	93	Mv	6/28/2006	30	4	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0273	738774.75	1009967.25	89	Mv	6/28/2006	13	4	0	Cultural Debris	7/7/2006	Bolt	-	
SEAD-57	57114-0275	738843.75	1009855.25	89	Mv	6/27/2006	71	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0283	738972.25	1009871.5	85	Mv	6/19/2006	50	4	0	Cultural Debris	7/19/2006	Nail	-	
SEAD-57	57114-0284	738815.5	1009885.75	84	Mv	6/22/2006	25	4	0	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	57114-0288	738801.75	1009920.25	83	Mv	6/28/2006	38	4	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0295	738825.75	1009961.75	79	Mv	6/28/2006	29	4	0	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57114-0296	738820.25	1009915.75	79	Mv	6/28/2006	130	4	0	Munitions Debris	7/7/2006	Frag MD	-	
SEAD-57	57114-0298	738949.5	1009781	78	Mv	6/20/2006	30	4	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0307	738798.25	1009845.25	75	Mv	6/28/2006	30	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57114-0311	738820.75	1009927	74	Mv	6/28/2006	40	4	8	Cultural Debris	6/15/2006	Copper scrap	-	
SEAD-57	57114-0320	738844	1009837.25	70	Mv	6/27/2006	58	4	0	Munitions Debris	8/23/2006	Frag MD	-	
SEAD-57	57114-0322	738862.5	1009889.5	69	Mv	6/27/2006	54	4	10	Cultural Debris	7/7/2006	Steel scrap, Anomalie I14-0322 & I1-0154 are the same item.	-	
SEAD-57	57114-0335	738909.25	1009758.75	65	Mv	6/20/2006	70	4	5	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0343	738840.25	1009883.5	62	Mv	6/22/2006	30	4	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57114-0346	738844.25	1009758.5	62	Mv	6/20/2006	30	4	6	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0347	738943	1009964.75	61	Mv	6/22/2006	20	4	10	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57114-0348	738773.5	1009819.5	61	Mv	6/22/2006	30	4	40	Cultural Debris	10/26/2006	Asphalt block in driveway	-	
SEAD-57	57114-0351	738831.75	1009926.5	59	Mv	6/22/2006	40	4	4	Munitions Debris	6/15/2006	Alum MD	-	
SEAD-57	57114-0353	738866.75	1009984.5	59	Mv	6/22/2006	40	4	4	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57114-0364	738850.5	1009845.5	55	Mv	6/27/2006	34	4	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0381	738955.876	1009807.475	52	Mv	6/20/2006	15	4	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0496	738921.204	1009862.661	34	Mv	9/11/2006	34	4	5	Cultural Debris	9/25/2006		Pass	KC
SEAD-57	57116-0004	738980.163	1010077.236	14100	Mv	6/7/2006	25	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57116-0012	738993	1010226	1100	Mv	6/7/2006	280	4	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0029	738991.5	1010230.25	240	Mv	6/7/2006	278	4	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0037	738913.5	1010040.5	162	Mv	6/12/2006	118	4	1	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0042	738906	1010100.25	130	Mv	6/7/2006	80	4	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0047	738818	1010133.25	121	Mv	6/12/2006	125	4	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0052	738887.75	1010188.25	104	Mv	6/7/2006	35	4	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0055	738771.25	1010136.25	101	Mv	6/12/2006	999	4	0	Cultural Debris	8/23/2006	Scrap metal 3" long	-	
SEAD-57	57116-0057	738911.75	1010034	98	Mv	6/7/2006	60	4	2	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0065	738771	1010086.25	89	Mv	6/12/2006	41	4	0	Munitions Debris	6/14/2006	Frag, 1" x 1/2"	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57116-0068	738781.25	1010041	84	Mv	6/12/2006	38	4	0	Cultural Debris	6/14/2006	Alum, 1" x 1"	-	
SEAD-57	57116-0079	738846.5	1010129	72	Mv	6/12/2006	23	4	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0081	738869.75	1010017.75	68	Mv	6/7/2006	41	4	3	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0088	738952	1010139.75	62	Mv	6/7/2006	23	4	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0090	738893	1010052.75	60	Mv	6/7/2006	40	4	4	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0095	738822.75	1010181.25	57	Mv	6/12/2006	55	4	2	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0100	738943.5	1010092	51	Mv	6/7/2006	22	4	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0104	738888	1010040.5	51	Mv	6/7/2006	41	4	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0106	738790.5	1010015.5	49	Mv	9/11/2006	49	4	7	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57116-0125	738910.75	1010025.5	43	Mv	9/11/2006	43	4	14	Cultural Debris	9/25/2006	Scrap metal	-	
SEAD-57	57116-0263	738977.25	1010114.25	22	Mv	9/11/2006	22	4	11	Cultural Debris	9/25/2006	Hinge part	-	
SEAD-57	57116-0608	738878.25	1010138.125	10	Mv	9/11/2006	10	4	3	Cultural Debris	9/25/2006	Scrap metal	-	
SEAD-57	57K04-0005	739017	1008691.25	149	Mv	7/10/2006	90	4	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K04-0015	739092.5	1008651	98	Mv	7/10/2006	70	4	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K04-0016	739102	1008673.25	97	Mv	7/10/2006	65	4	3	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	57K04-0031	739052.75	1008680	38	Mv	9/11/2006	38	4	16	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K04-0038	739086	1008716.5	34	Mv	9/11/2006	34	4	6	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K04-0052	739048.25	1008660.75	24	Mv	9/11/2006	24	4	4	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K04-0056	739094.75	1008639	22	Mv	9/11/2006	22	4	4	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K04-0071	739073.75	1008717.75	15	Mv	9/11/2006	15	4	8	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K12-0023	739165.75	1009605.75	2412	Mv	6/1/2006	1800	4	0	Munitions Debris	7/5/2006	Mk23 & bundle of wire	-	
SEAD-57	57K12-0080	739241	1009573.75	404	Mv	6/1/2006	154	4	0	Cultural Debris	7/5/2006	Metal rod 15"	-	
SEAD-57	57K12-0097	739018.75	1009637	321	Mv	8/1/2006	321	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K12-0105	739154	1009621.5	285	Mv	6/1/2006	999	4	0	Cultural Debris	7/5/2006	Alum stri 1"x2"	-	
SEAD-57	57K12-0110	739029.25	1009661	266	Mv	6/1/2006	999	4	4	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0115	739243.25	1009572	250	Mv	8/1/2006	250	4	0	Cultural Debris	10/24/2006	Tent stake	-	
SEAD-57	57K12-0116	739245.75	1009585.75	243	Mv	8/1/2006	243	4	0	Cultural Debris	8/1/2006	Metal bar	-	
SEAD-57	57K12-0124	739062.25	1009687.25	223	Mv	6/1/2006	130	4	0	Cultural Debris	7/5/2006	Alum 2pc	Pass	KC
SEAD-57	57K12-0152	739146.5	1009742.25	173	Mv	6/1/2006	999	4	0	Cultural Debris	6/7/2006	Alum	-	
SEAD-57	57K12-0157	739189.25	1009612.75	168	Mv	6/1/2006	145	4	0	Cultural Debris	6/8/2006	Alum disk	-	
SEAD-57	57K12-0165	739242	1009652	162	Mv	8/1/2006	162	4	0	Cultural Debris	8/1/2006	Alum disk	Pass	KC
SEAD-57	57K12-0172	739228.25	1009673	158	Mv	6/1/2006	999	4	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0176	739237.75	1009676.25	151	Mv	6/1/2006	999	4	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0193	739053.5	1009646.5	133	Mv	8/1/2006	133	4	0	Cultural Debris	8/1/2006	Alum disk	-	
SEAD-57	57K12-0200	739062.25	1009674.5	131	Mv	8/1/2006	131	4	0	Cultural Debris	8/1/2006	Alum	Pass	KC
SEAD-57	57K12-0201	739094	1009749.75	131	Mv	8/1/2006	131	4	0	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0204	739190.25	1009678.75	128	Mv	6/1/2006	999	4	0	Cultural Debris	6/5/2006	Metal washer	Pass	KC
SEAD-57	57K12-0214	739007.25	1009650.25	122	Mv	6/1/2006	70	4	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0216	739054	1009637.75	120	Mv	6/1/2006	999	4	0	Cultural Debris	6/8/2006	Alum disk, 3"	-	
SEAD-57	57K12-0228	739207	1009584.25	109	Mv	6/1/2006	67	4	0	Cultural Debris	6/7/2006	Alum	Pass	KC
SEAD-57	57K12-0243	739204.25	1009615.5	100	Mv	8/1/2006	100	4	0	Cultural Debris	8/1/2006	Scrap metal	-	
SEAD-57	57K12-0250	739156.5	1009621.5	94	Mv	6/1/2006	999	4	0	Cultural Debris	7/5/2006	Wire	-	
SEAD-57	57K12-0256	739080.75	1009673	89	Mv	6/1/2006	51	4	3	Cultural Debris	7/5/2006	Steel wire	-	
SEAD-57	57K12-0259	739143.75	1009607	87	Mv	6/1/2006	137	4	0	Cultural Debris	7/5/2006	Alum strip 1"x3"	-	
SEAD-57	57K12-0263	739168.75	1009658.75	85	Mv	6/1/2006	65	4	0	Cultural Debris	6/8/2006	Alum strip 1" x 3"	-	
SEAD-57	57K12-0264	739249.236	1009589.443	85	Mv	8/1/2006	85	4	0	Cultural Debris	8/1/2006	Elect cable	Pass	KC
SEAD-57	57K12-0265	739193.5	1009678.75	85	Mv	8/1/2006	85	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K12-0277	739153.75	1009641.5	75	Mv	6/1/2006	59	4	0	Cultural Debris	6/8/2006	Wire 1" x 5"	-	
SEAD-57	57K12-0279	739227.25	1009738.25	75	Mv	6/1/2006	999	4	0	Cultural Debris	7/5/2006	Alum cap	-	
SEAD-57	57K12-0285	739083	1009647	70	Mv	8/1/2006	70	4	0	Cultural Debris	8/2/2006	Steel wire	-	
SEAD-57	57K12-0294	739222.25	1009573.5	64	Mv	6/1/2006	15	4	0	Cultural Debris	7/5/2006	Alum strip	-	
SEAD-57	57K12-0296	739058.75	1009682.75	64	Mv	8/1/2006	64	4	4	Cultural Debris	8/2/2006	Alum	Pass	KC
SEAD-57	57K12-0302	739066	1009715	63	Mv	8/1/2006	63	4	0	Cultural Debris	8/2/2006	Alum	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57K12-0304	739022.25	1009657.25	62	Mv	6/1/2006	999	4	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0306	739158	1009717.25	60	Mv	6/1/2006	999	4	0	Munitions Debris	6/8/2006	Frag	-	
SEAD-57	57K12-0309	739034	1009657.5	57	Mv	6/1/2006	999	4	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0326	739144.25	1009749.25	50	Mv	8/1/2006	50	4	0	Cultural Debris	8/22/2006	Steel wire	-	
SEAD-57	57K14-0004	739221	1009851.5	6520	Mv	6/5/2006	85	4	12	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57K14-0013	739157	1009802.75	1407	Mv	6/5/2006	880	4	2	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0016	739027	1009856.5	1243	Mv	6/8/2006	523	4	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0028	739187.5	1009786.5	740	Mv	7/19/2006	740	4	1	Cultural Debris	8/22/2006	Steel scrap	-	
SEAD-57	57K14-0036	739216	1009928.75	562	Mv	6/8/2006	269	4	24	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57K14-0052	739154.25	1009927.25	394	Mv	6/8/2006	113	4	24	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0064	739134.25	1009894.25	338	Mv	6/8/2006	140	4	6	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57K14-0068	739065.75	1009840.25	313	Mv	6/5/2006	370	4	6	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0070	739161.5	1009862.75	285	Mv	6/5/2006	1555	4	22	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0072	739017.75	1009950.75	271	Mv	6/8/2006	146	4	20	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0076	739131.5	1009813.25	258	Mv	6/5/2006	102	4	10	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0082	739047.25	1009812.5	251	Mv	6/12/2006	159	4	5	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0087	739115.359	1009904.886	233	Mv	6/8/2006	160	4	24	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0089	739110.5	1009846	229	Mv	6/12/2006	69	4	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0100	739126.5	1009778.5	204	Mv	6/5/2006	75	4	10	Cultural Debris	6/5/2006	K14 0182 was at opposite end of 20 inch steel scrap piece.	-	
SEAD-57	57K14-0106	739102.25	1009900.25	196	Mv	6/8/2006	50	4	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0112	739207.75	1009802.5	178	Mv	6/5/2006	60	4	10	Cultural Debris	6/7/2006	Steel bolt	-	
SEAD-57	57K14-0113	739117	1009753.25	173	Mv	7/19/2006	173	4	15	Cultural Debris	10/26/2006		-	
SEAD-57	57K14-0115	739093	1009954.75	171	Mv	6/8/2006	125	4	12	Munitions Debris	6/13/2006	Frag	-	
SEAD-57	57K14-0120	739147.75	1009777.5	166	Mv	6/5/2006	82	4	2	Cultural Debris	6/5/2006	K14 0152 ws flagged for same piece of steel scrap	Pass	KC
SEAD-57	57K14-0122	739165	1009913.5	164	Mv	6/8/2006	76	4	12	Cultural Debris	6/12/2006	Steel scrap	-	
SEAD-57	57K14-0125	739090.25	1009893.25	160	Mv	6/8/2006	143	4	12	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0136	739043.75	1009792	141	Mv	7/19/2006	141	4	15	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	57K14-0152	739144.75	1009777.75	129	Mv	6/5/2006	52	4	2	Cultural Debris	6/5/2006	K14 0120 was flagged for same piece of steel scrap	Pass	KC
SEAD-57	57K14-0155	739017	1009903.75	123	Mv	6/8/2006	50	4	10	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57K14-0177	739226.5	1009783	106	Mv	6/5/2006	20	4	2	Cultural Debris	6/7/2006	Steel scrap	-	
SEAD-57	57K14-0181	739010.25	1009984	102	Mv	6/12/2006	80	4	20	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0182	739123.25	1009778	102	Mv	6/5/2006	51	4	10	Cultural Debris	6/5/2006	K14 0100 was flagged at the opposite end of 20 inch steel scrap piece.	-	
SEAD-57	57K14-0185	739221.5	1009897.5	98	Mv	6/8/2006	10	4	6	Cultural Debris	6/12/2006	Steel scrap	-	
SEAD-57	57K14-0187	739110.75	1009786.25	94	Mv	6/12/2006	127	4	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0195	739020.25	1009953.5	87	Mv	6/8/2006	60	4	14	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0198	739141.5	1009767.5	86	Mv	6/5/2006	34	4	5	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0199	739146	1009895	84	Mv	6/8/2006	62	4	0	Cultural Debris	10/24/2006	Bolt	-	
SEAD-57	57K14-0211	739095.75	1009898.5	79	Mv	6/8/2006	20	4	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0214	739245.75	1009807.75	78	Mv	6/5/2006	35	4	4	Cultural Debris	6/6/2006	Steel scrap	-	
SEAD-57	57K14-0220	739046.25	1009807.25	75	Mv	6/12/2006	120	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K14-0222	739232.5	1009797.25	74	Mv	6/5/2006	30	4	4	Cultural Debris	6/7/2006	Steel scrap	-	
SEAD-57	57K14-0224	739060.5	1009972	73	Mv	6/8/2006	50	4	3	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0226	739072.25	1009875.75	72	Mv	6/8/2006	27	4	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0228	739161.75	1009790.5	70	Mv	6/5/2006	15	4	1	Munitions Debris	6/5/2006	Piece of steel scrap - frag	-	
SEAD-57	57K14-0230	739121.25	1009782.75	70	Mv	6/5/2006	48	4	6	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0232	739077	1009925.75	68	Mv	6/8/2006	15	4	12	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0252	739178	1009876.75	62	Mv	6/8/2006	30	4	7	Cultural Debris	6/12/2006	Alum scrap	-	
SEAD-57	57K14-0254	739207.25	1009825.75	60	Mv	6/5/2006	30	4	3	Cultural Debris	8/1/2006	Steel scrap	-	
SEAD-57	57K14-0256	739126	1009813	60	Mv	6/5/2006	13	4	10	Cultural Debris	6/5/2006	Steel washer	-	
SEAD-57	57K14-0260	739096	1009877.75	60	Mv	6/8/2006	14	4	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0268	739195.75	1009913.75	55	Mv	6/8/2006	7	4	3	Cultural Debris	6/12/2006	Steel scrap	-	
SEAD-57	57K14-0270	739050.927	1009812.935	54	Mv	6/12/2006	30	4	5	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0271	739015.25	1009778.25	54	Mv	7/19/2006	27	4	24	Cultural Debris	10/26/2006		-	

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SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Description		
		Easting (X)	Northing (Y)												
SEAD-57	57K14-0289	739085.5	1009931	50	Mv	6/8/2006	7	4	8	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0291	739035.5	1009969.75	50	Mv	6/8/2006	33	4	22	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0301	739127.25	1009768.25	48	Mv	9/11/2006	48	4	6	Cultural Debris	9/21/2006	Wire	Pass	KC	
SEAD-57	57K14-0317	739083.832	1009933.988	45	Mv	9/11/2006	45	4	30	Cultural Debris	9/21/2006	Como wire	Pass	KC	
SEAD-57	57K14-0399	739190	1009759.75	33	Mv	9/11/2006	33	4	4	Munitions Debris	9/21/2006	Frag	Pass	KC	
SEAD-57	57K16-0013	739125.25	1010109	1501	Mv	6/7/2006	530	4	1	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0015	739024.75	1010103	1213	Mv	6/7/2006	360	4	3	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K16-0018	739120	1010107.75	1014	Mv	6/7/2006	460	4	2	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0027	739132	1010135.5	749	Mv	6/7/2006	340	4	1	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0033	739055.75	1010008.25	574	Mv	6/7/2006	230	4	1	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K16-0035	739094.25	1010126.25	546	Mv	6/12/2006	999	4	0	Munitions Debris	8/23/2006	2.36 RKT MTR	-		
SEAD-57	57K16-0045	739174.25	1010103	418	Mv	6/12/2006	999	4	12	Cultural Debris	8/23/2006	Wrench 5" long	-		
SEAD-57	57K16-0052	739092	1010176.75	313	Mv	6/7/2006	180	4	0	Cultural Debris	6/14/2006	Pipe cap, 1" x 3"	-		
SEAD-57	57K16-0053	739093.5	1010092.5	302	Mv	6/7/2006	33	4	0	Cultural Debris	6/12/2006	Trash	Pass	KC	
SEAD-57	57K16-0058	739106	1010138.5	254	Mv	6/7/2006	117	4	1	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0062	739116.343	1010108.053	198	Mv	6/7/2006	97	4	4	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0067	739028.75	1010097.25	152	Mv	6/7/2006	30	4	0	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K16-0071	739023.25	1010148.25	141	Mv	6/7/2006	25	4	2	Cultural Debris	6/12/2006	Trash	Pass	KC	
SEAD-57	57K16-0072	739079.5	1010011	129	Mv	6/7/2006	45	4	2	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K16-0074	739096.75	1010093.5	128	Mv	6/7/2006	87	4	2	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0082	739133	1010105	120	Mv	6/12/2006	999	4	0	Cultural Debris	8/23/2006	Wrench 4" long	-		
SEAD-57	57K16-0083	739105.75	1010143.25	117	Mv	6/7/2006	43	4	1	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0086	739073	1010228	110	Mv	6/7/2006	25	4	0	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0087	739159.161	1010140.536	110	Mv	6/7/2006	110	4	0	Cultural Debris	8/23/2006	Wire 1" x 3"	-		
SEAD-57	57K16-0089	739010.75	1010045	109	Mv	6/7/2006	75	4	2	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K16-0094	739047.5	1010203	99	Mv	6/7/2006	10	4	0	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0096	739063.25	1010126.5	93	Mv	6/7/2006	47	4	2	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0103	739029	1010179.75	76	Mv	6/7/2006	35	4	2	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0106	739211.5	1010126.25	71	Mv	6/7/2006	25	4	0	Munitions Debris	8/23/2006	Frag 1" x 2"	-		
SEAD-57	57K16-0108	739227.25	1010092	70	Mv	6/12/2006	999	4	24	Cultural Debris	10/26/2006	Trash	-		
SEAD-57	57K16-0112	739140.25	1010106.25	63	Mv	6/7/2006	40	4	0	Cultural Debris	8/23/2006	Wrench 5" long	-		
SEAD-57	57K16-0117	739055.25	1010040.25	59	Mv	6/7/2006	25	4	1	Cultural Debris	6/13/2006	Trash	Pass	KC	
SEAD-57	57K16-0122	739178.75	1010076.5	54	Mv	6/12/2006	999	4	0	Cultural Debris	8/23/2006	Steel rod 1" x 3"	-		
SEAD-57	57K16-0123	739119.182	1010065.647	54	Mv	6/7/2006	35	4	2	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0127	739037.5	1010063.75	52	Mv	6/7/2006	35	4	1	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K16-0128	739151.5	1010095.5	51	Mv	6/7/2006	18	4	0	Cultural Debris	8/23/2006	Scrap metal 1" x 3"	-		
SEAD-57	57K16-0131	739131.25	1010122	50	Mv	6/7/2006	50	4	2	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K16-0132	739230.25	1010121	49	Mv	9/11/2006	49	4	24	Munitions Debris	9/21/2006	Small Arms, two .50 cal heads	Pass	KC	
SEAD-57	57K16-0134	739130.25	1010076.5	48	Mv	9/11/2006	48	4	19	Cultural Debris	9/21/2006	Trash	Pass	KC	
SEAD-57	57M06-0012	739359.75	1008964.75	74	Mv	6/5/2006	56	4	0	Cultural Debris	7/5/2006	Alum	-		
SEAD-57	57M06-0021	739440.75	1008940.75	37	Mv	9/11/2006	37	4	48	Munitions Debris	9/20/2006	Frag	-		
SEAD-57	57M06-0040	739373.5	1008990.5	28	Mv	9/11/2006	28	4	6	Munitions Debris	9/20/2006	Frag	Pass	KC	
SEAD-57	57M06-0055	739452.25	1008964	25	Mv	9/11/2006	25	4	20	Munitions Debris	9/20/2006	Frag	-		
SEAD-57	57M08-0006	739478	1009134	526	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	2pc alum	-		
SEAD-57	57M08-0008	739424	1009155	293	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Alum washeR	Pass	KC	
SEAD-57	57M08-0012	739436.25	1009175.75	227	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Alum cap	-		
SEAD-57	57M08-0020	739445	1009203.75	172	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Pc wire 1"x3"	Pass	KC	
SEAD-57	57M08-0024	739448.5	1009084.5	152	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Alum strip	-		
SEAD-57	57M08-0026	739496.5	1009134	137	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Alum 1"x1"	-		
SEAD-57	57M08-0030	739452	1009112.75	98	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Alum strip 1"x4"	-		
SEAD-57	57M08-0033	739412	1009053.5	85	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Alum cap	-		
SEAD-57	57M08-0044	739452.5	1009177	56	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Metal hinge	-		
SEAD-57	57M08-0045	739468.75	1009150.5	53	Mv	6/5/2006	999	4	0	Cultural Debris	7/5/2006	Alum strip 1"x2"	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57M08-0053	739461.25	1009241.5	43	Mv	9/11/2006	43	4	24	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M08-0127	739453.75	1009165.25	24	Mv	9/11/2006	24	4	30	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0004	739438.5	1009430	2199	Mv	8/1/2006	2199	4	0	Munitions Debris	8/22/2006	Alum 1" x 4", and? Slap flare	-	-
SEAD-57	57M10-0007	739435	1009367	523	Mv	8/1/2006	523	4	0	Cultural Debris	10/24/2006	Wrench	Pass	KC
SEAD-57	57M10-0017	739500.25	1009392.5	167	Mv	6/2/2006	999	4	0	Munitions Debris	7/5/2006	Slape flare	Pass	KC
SEAD-57	57M10-0018	739395.75	1009343.5	166	Mv	8/1/2006	166	4	0	Cultural Debris	8/22/2006	Alum washer	-	-
SEAD-57	57M10-0024	739353.75	1009490.5	115	Mv	8/1/2006	115	4	0	Cultural Debris	8/22/2006	Alum washer	Pass	KC
SEAD-57	57M10-0034	739461.75	1009459	91	Mv	8/1/2006	91	4	0	Munitions Debris	8/22/2006	20mm no fuze	Pass	KC
SEAD-57	57M10-0035	739444.5	1009435	90	Mv	8/1/2006	90	4	0	Cultural Debris	8/22/2006	Alum 3" x 3"	-	-
SEAD-57	57M10-0039	739361.5	1009458.75	74	Mv	8/1/2006	74	4	0	Cultural Debris	8/22/2006	Alum washer	-	-
SEAD-57	57M10-0045	739415.25	1009462.25	53	Mv	8/1/2006	53	4	0	Cultural Debris	8/22/2006	Alum strip 1" x 2"	-	-
SEAD-57	57M10-0052	739421.75	1009270.25	48	Mv	9/11/2006	48	4	12	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0072	739464.5	1009456	38	Mv	9/11/2006	38	4	9	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0195	739445.5	1009365.5	18	Mv	9/11/2006	18	4	0	Cultural Debris	10/24/2006	Fense post	-	-
SEAD-57	57M10-0291	739334.094	1009490.539	14	Mv	9/11/2006	14	4	8	Munitions Debris	9/20/2006	Frag	-	-
SEAD-57	57M10-0361	739373.75	1009400.25	13	Mv	9/11/2006	13	4	6	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M12-0009	739497	1009638.25	91206	Mv	6/6/2006	3000	4	0	Cultural Debris	6/6/2006	1 brass casing	-	-
SEAD-57	57M12-0041	739366.25	1009614	2642	Mv	6/2/2006	999	4	0	Cultural Debris	7/5/2006	Metal band same as flag m12 40	-	-
SEAD-57	57M12-0113	739334.25	1009644.5	666	Mv	6/5/2006	220	4	1	Cultural Debris	6/7/2006	Trash	-	-
SEAD-57	57M12-0119	739500	1009630.5	611	Mv	6/2/2006	999	4	0	Cultural Debris	6/6/2006	1 Brass casing	-	-
SEAD-57	57M12-0123	739250.75	1009584.5	577	Mv	6/2/2006	999	4	0	Cultural Debris	8/22/2006	Metal bar 10"	-	-
SEAD-57	57M12-0130	739391.75	1009593.75	517	Mv	6/2/2006	999	4	2	Cultural Debris	6/7/2006	3 items found; 3" steel disk, 1" steel bolt, and 6" steel nut	-	-
SEAD-57	57M12-0136	739394.5	1009615.75	470	Mv	6/2/2006	999	4	1	Cultural Debris	6/7/2006	Alum	-	-
SEAD-57	57M12-0150	739252.197	1009623.574	359	Mv	6/2/2006	999	4	1	Cultural Debris	6/7/2006	Trash	-	-
SEAD-57	57M12-0158	739386	1009572.5	311	Mv	6/2/2006	999	4	0	Cultural Debris	7/5/2006	Comm wire	-	-
SEAD-57	57M12-0165	739355.5	1009604.25	295	Mv	6/2/2006	999	4	0	Cultural Debris	7/5/2006	Alum band	-	-
SEAD-57	57M12-0175	739447	1009631.75	273	Mv	6/2/2006	999	4	1	Cultural Debris	6/7/2006	Trash	-	-
SEAD-57	57M12-0191	739418.5	1009594.25	218	Mv	6/2/2006	999	4	1	Cultural Debris	6/7/2006	Trash	-	-
SEAD-57	57M12-0199	739378	1009622	201	Mv	6/2/2006	999	4	0	Cultural Debris	7/5/2006	Metal band	-	-
SEAD-57	57M12-0203	739340	1009643	185	Mv	6/5/2006	67	4	2	Cultural Debris	6/7/2006	Trash	-	-
SEAD-57	57M12-0204	739460	1009559.25	176	Mv	6/2/2006	999	4	0	Cultural Debris	6/6/2006	Alum disk	-	-
SEAD-57	57M12-0219	739341.5	1009736.25	160	Mv	6/6/2006	121	4	1	Cultural Debris	7/5/2006	Alum	Pass	KC
SEAD-57	57M12-0252	739480	1009623.75	131	Mv	6/2/2006	999	4	0	Cultural Debris	6/6/2006	1 nail and 1 can handle	-	-
SEAD-57	57M12-0266	739429	1009579	112	Mv	6/2/2006	999	4	0	Cultural Debris	6/6/2006	3" Steel washer	-	-
SEAD-57	57M12-0279	739260.5	1009590	103	Mv	6/2/2006	999	4	0	Cultural Debris	8/22/2006	Alum scrap	-	-
SEAD-57	57M12-0283	739432	1009572.25	98	Mv	6/2/2006	999	4	0	Cultural Debris	6/6/2006	Alum, 1" x 1"	-	-
SEAD-57	57M12-0293	739480.75	1009706.25	93	Mv	6/2/2006	999	4	1	Cultural Debris	6/7/2006	Trash	-	-
SEAD-57	57M12-0296	739334.25	1009596.75	90	Mv	6/5/2006	45	4	0	Munitions Debris	7/5/2006	Frag	-	-
SEAD-57	57M12-0309	739254.75	1009632.25	84	Mv	6/2/2006	999	4	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	57M12-0313	739400.5	1009585.25	81	Mv	6/2/2006	999	4	0	Cultural Debris	6/7/2006	Seat belt and battery plates.	Pass	KC
SEAD-57	57M12-0326	739250.5	1009576.75	78	Mv	6/2/2006	999	4	0	Cultural Debris	7/5/2006	Wire	-	-
SEAD-57	57M12-0327	739408.75	1009616.5	76	Mv	8/22/2006	37	4	1	Cultural Debris	8/22/2006	Steel scrap	-	-
SEAD-57	57M12-0332	739281.5	1009713.25	74	Mv	6/2/2006	999	4	1	Cultural Debris	6/5/2006	Trash	-	-
SEAD-57	57M12-0349	739288.25	1009630.5	67	Mv	6/2/2006	999	4	4	Cultural Debris	6/7/2006	Trash	-	-
SEAD-57	57M12-0385	739419	1009684.75	53	Mv	8/22/2006	26	4	18	Munitions Debris	8/22/2006	Small Arms, 7.62mm found 18" from flag and alum disc found on flag	Pass	KC
SEAD-57	57M12-0398	739441.75	1009691.75	46	Mv	9/11/2006	46	4	15	Cultural Debris	9/21/2006	Trash	-	-
SEAD-57	57M12-0452	739391.5	1009616.5	35	Mv	9/11/2006	35	4	0	Cultural Debris	10/24/2006	Tent stake	-	-
SEAD-57	57M12-0474	739439.25	1009555.75	30	Mv	9/11/2006	30	4	14	Cultural Debris	9/20/2006	Trash	-	-
SEAD-57	57M12-0596	739412.5	1009548.25	19	Mv	9/11/2006	19	4	0	Cultural Debris	10/24/2006	Scrap metal	-	-
SEAD-57	57M14-0012	739250.5	1009849.25	4822	Mv	8/1/2006	4822	4	2	Cultural Debris	8/1/2006	Steel scrap	-	-
SEAD-57	57M14-0079	739301.25	1009814.25	225	Mv	6/5/2006	60	4	8	Cultural Debris	6/6/2006	Steel scrap	-	-
SEAD-57	57M14-0084	739349	1009804.5	182	Mv	6/5/2006	110	4	6	Cultural Debris	7/5/2006	Alum	-	-
SEAD-57	57M14-0096	739252.5	1009817.75	142	Mv	8/22/2006	76	4	4	Cultural Debris	8/22/2006	Steel scrap. Anomalies M14-0096 & M14-0206 are the same item.	-	-

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57M14-0112	739325.75	1009896.75	120	Mv	6/6/2006	165	4	12	Cultural Debris	10/19/2006	Scrap metal	-	
SEAD-57	57M14-0118	739334	1009787	113	Mv	6/6/2006	6	4	12	Cultural Debris	7/5/2006	Wire	-	
SEAD-57	57M14-0129	739323.5	1009846.25	98	Mv	6/6/2006	104	4	6	Cultural Debris	6/7/2006	Alum, 2" x 2"	-	
SEAD-57	57M14-0132	739367.75	1009815	96	Mv	6/6/2006	105	4	1	Cultural Debris	7/5/2006	Alum	Pass	KC
SEAD-57	57M14-0146	739319	1009861.25	84	Mv	6/6/2006	20	4	3	Cultural Debris	6/7/2006	Steel	-	
SEAD-57	57M14-0155	739383.75	1009786.75	71	Mv	6/6/2006	30	4	8	Cultural Debris	7/5/2006	Wire	-	
SEAD-57	57M14-0169	739419	1009894.5	65	Mv	6/6/2006	99	4	1	Cultural Debris	7/5/2006	Wire same as flag m14-0182	-	
SEAD-57	57M14-0173	739388.75	1009795.25	64	Mv	6/6/2006	25	4	7	Cultural Debris	7/5/2006	Culture debris	-	
SEAD-57	57M14-0179	739309	1009866	59	Mv	6/6/2006	25	4	6	Cultural Debris	6/7/2006	Steel	Pass	KC
SEAD-57	57M14-0182	739473.25	1009816	56	Mv	6/6/2006	145	4	1	Cultural Debris	7/5/2006	Wire same as flag m14-0169	-	
SEAD-57	57M14-0184	739279.75	1009788.25	55	Mv	6/5/2006	20	4	1	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57M14-0189	739319	1009814.75	54	Mv	6/5/2006	30	4	1	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M14-0206	739286.75	1009929.5	49	Mv	8/22/2006	27	4	4	Cultural Debris	8/22/2006	Steel scrap. Anomalies M14-0096 & M14-0206 are the same item.	-	
SEAD-57	57M14-0256	739289.5	1009931.5	38	Mv	9/11/2006	38	4	12	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57M14-0283	739346.25	1009753.125	33	Mv	9/11/2006	33	4	20	Munitions Debris	9/21/2006	Frag	Pass	KC
SEAD-57	57M14-0299	739294.25	1009826.625	30	Mv	9/11/2006	30	4	48	Munitions Debris	9/21/2006	Frag	Pass	KC
SEAD-57	57M14-0304	739339.75	1009915	29	Mv	9/11/2006	29	4	8	Cultural Debris	9/21/2006	Scrap metal	-	
SEAD-57	57M16-0012	739446.25	1010068	405	Mv	6/7/2006	130	4	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0015	739296.25	1010114.25	348	Mv	6/6/2006	132	4	0	Cultural Debris	6/10/2006	Wire	Pass	KC
SEAD-57	57M16-0020	739348.75	1010043	272	Mv	6/6/2006	94	4	0	Cultural Debris	6/10/2006		-	
SEAD-57	57M16-0027	739390.25	1010042	213	Mv	6/7/2006	95	4	0	Munitions Debris	6/10/2006	Frag	-	
SEAD-57	57M16-0028	739338.75	1010088	205	Mv	6/6/2006	50	4	3	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0030	739317.25	1010063.5	192	Mv	6/6/2006	75	4	0	Cultural Debris	6/8/2006	Metal hinge 1" x 2"	-	
SEAD-57	57M16-0035	739460.25	1010025.75	173	Mv	6/7/2006	75	4	0	Cultural Debris	6/10/2006	Scrap	-	
SEAD-57	57M16-0038	739283.5	1010097.75	156	Mv	6/6/2006	109	4	0	Cultural Debris	6/8/2006	Metal spike	-	
SEAD-57	57M16-0039	739327.25	1010145.75	156	Mv	6/6/2006	143	4	0	Cultural Debris	6/10/2006	Wire	-	
SEAD-57	57M16-0047	739457.5	1010089	135	Mv	6/7/2006	85	4	0	Munitions Debris	6/10/2006	Frag	Pass	KC
SEAD-57	57M16-0062	739328.25	1010025.25	98	Mv	6/6/2006	36	4	3	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0063	739320	1010143.25	95	Mv	6/6/2006	38	4	1	Cultural Debris	6/12/2006	Trash, Same as m16-71	-	
SEAD-57	57M16-0075	739287.303	1010092.369	78	Mv	6/6/2006	39	4	0	Cultural Debris	6/8/2006	Nails 1" x 3"	-	
SEAD-57	57M16-0078	739444	1010093.25	72	Mv	6/7/2006	50	4	0	Cultural Debris	6/10/2006	Metal stake	-	
SEAD-57	57M16-0080	739455.75	1010065.5	71	Mv	6/7/2006	45	4	0	Cultural Debris	6/10/2006	Bolt	-	
SEAD-57	57M16-0081	739273.75	1010119	71	Mv	6/6/2006	29	4	4	Cultural Debris	6/8/2006	Trash	-	
SEAD-57	57M16-0098	739292.75	1010092.25	54	Mv	6/6/2006	29	4	12	Cultural Debris	6/8/2006	Wire 1" x 3"	-	
SEAD-57	57M16-0104	739283.75	1010092.75	51	Mv	6/6/2006	35	4	0	Cultural Debris	6/8/2006	Alum strip 1" x 3"	-	
SEAD-57	57M16-0118	739314	1010127.25	45	Mv	9/11/2006	45	4	18	Cultural Debris	9/21/2006	Small bits of banding material	Pass	KC
SEAD-57	57M16-0135	739341.75	1010143.25	38	Mv	9/11/2006	38	4	9	Munitions Debris	9/21/2006	Small Arms, .50 cal head	Pass	KC
SEAD-57	57M16-0249	739302.75	1010156.75	18	Mv	9/11/2006	18	4	20	Munitions Debris	9/21/2006	Frag piece	Pass	KC
SEAD-57	57O10-0012	739501	1009287.75	96	Mv	6/5/2006	32	4	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57O10-0017	739529.25	1009462.5	50	Mv	6/5/2006	25	4	0	Cultural Debris	6/6/2006	Scrap metal	-	
SEAD-57	57O10-0034	739519.5	1009308.75	31	Mv	9/11/2006	31	4	10	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O10-0076	739520.25	1009442.5	18	Mv	9/11/2006	18	4	24	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57O12-0004	739540.5	1009502.75	1783	Mv	6/5/2006	900	4	0	Munitions Debris	6/6/2006	2 pieces of Frag, one, Frag, 6" x 4" x 2". two, Frag, 1" x 2", found 1' south of flag, both items found at 4" depth.	-	
SEAD-57	57O12-0010	739508.75	1009617.25	628	Mv	6/5/2006	171	4	0	Cultural Debris	6/6/2006	Wire 3', Anomalies O12-0010 and O12-0017 are for same item.	-	
SEAD-57	57O12-0017	739511.78	1009617.771	195	Mv	6/5/2006	200	4	0	Cultural Debris	6/6/2006	Wire 3', Anomalies O12-0010 and O12-0017 are for same item.	-	
SEAD-57	57O12-0023	739503.25	1009651.75	88	Mv	6/5/2006	42	4	0	Cultural Debris	6/6/2006	1 cable clamp	-	
SEAD-57	57O12-0026	739519.75	1009522	76	Mv	6/5/2006	29	4	0	Cultural Debris	6/6/2006	Alum, 3" x 1"	-	
SEAD-57	57O12-0029	739508.75	1009672.5	62	Mv	6/5/2006	33	4	1	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57O12-0037	739512	1009727.75	30	Mv	9/11/2006	30	4	10	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O12-0111	739525.75	1009678.75	13	Mv	9/11/2006	13	4	6	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	F08-017	738506.09	1009094.7	28	nT	8/8/2006	28	4	18	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	F08-019	738519.97	1009120.69	8	nT	8/8/2006	8	4	20	Munitions Debris	8/9/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	F09-011	738516.02	1009127.9	8	nT	8/8/2006	8	4	24	Hot Soil	8/9/2006	Hot Rock	Pass	KC
SEAD-57	F09-016	738611.83	1009180.57	7	nT	8/8/2006	7	4	15	Cultural Debris	8/9/2006	Wire	Pass	KC
SEAD-57	F10-002	738577.583	1009297.585	93	nT	10/17/2006	92	4	8	MPPEH	10/26/2006	six 3 inch stokes	-	-
SEAD-57	F10-004	738540.106	1009309.191	15	nT	10/17/2006	15	4	36	Cultural Debris	10/25/2006	Scrap metal	-	-
SEAD-57	F12-028	738547.077	1009563.462	29	nT	10/17/2006	30	4	40	Munitions Debris	10/19/2006	Frag	Pass	KC
SEAD-57	G06-002	738707.147	1008799.426	10	nT	9/6/2006	10	4	6	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	G06-006	738743.064	1008830.023	16	nT	9/6/2006	16	4	12	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G06-008	738733.055	1008838.03	26	nT	9/6/2006	26	4	6	Hot Soil	9/7/2006	hot rock	Pass	KC
SEAD-57	G06-006	738687.684	1008975.344	3	nT	9/6/2006	2	4	18	Hot Soil	9/7/2006	Hot rock	-	-
SEAD-57	G07-012	738742.797	1008904.218	8	nT	9/6/2006	8	4	7	Munitions Debris	9/7/2006	Frag	-	-
SEAD-57	G07-013	738716.908	1008893.409	19	nT	9/6/2006	19	4	5	Hot Soil	9/7/2006	Hot rock	Pass	KC
SEAD-57	G07-020	738671.003	1008917.963	31	nT	9/6/2006	31	4	6	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G07-029	738729.185	1008993.093	16	nT	9/6/2006	16	4	2	Munitions Debris	9/7/2006	Part of a 75 mm projo	-	-
SEAD-57	G08-002	738696.91	1009057.49	11	nT	8/8/2006	11	4	2	Hot Soil	8/9/2006	Hot Rock	-	-
SEAD-57	G08-003	738692.97	1009045.25	38	nT	8/8/2006	38	4	3	Munitions Debris	8/9/2006	Frag	-	-
SEAD-57	G08-014	738731.11	1009006.69	15	nT	8/8/2006	15	4	12	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G08-019	738631.2	1009029.06	21	nT	8/8/2006	21	4	0	Hot Soil	8/9/2006	Hot Rock	-	-
SEAD-57	G09-001	738727.03	1009133.05	36	nT	8/8/2006	36	4	14	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-003	738727.17	1009151.77	14	nT	8/8/2006	14	4	6	Cultural Debris	8/9/2006	Trash	-	-
SEAD-57	G09-013	738656.25	1009181.6	12	nT	8/8/2006	12	4	14	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G10-001	738696.9	1009281.85	12	nT	8/8/2006	12	4	12	Cultural Debris	8/10/2006	Trash	-	-
SEAD-57	G10-005	738697.2	1009349.12	25	nT	8/8/2006	25	4	8	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-012	738640.13	1009345.78	4	nT	8/8/2006	4	4	8	Munitions Debris	8/9/2006	Frag	-	-
SEAD-57	G10-016	738632.98	1009275.16	23	nT	8/8/2006	23	4	20	Munitions Debris	8/9/2006	Frag	-	-
SEAD-57	G10-019	738657.18	1009269.37	19	nT	8/8/2006	19	4	0	Cultural Debris	10/24/2006	Scrap metal	-	-
SEAD-57	G10-037	738730.99	1009281.4	6	nT	8/8/2006	6	4	24	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-039	738733.12	1009299.66	8	nT	8/8/2006	8	4	24	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-040	738740.73	1009302.71	6	nT	8/8/2006	6	4	24	Munitions Debris	8/10/2006	Frag	-	-
SEAD-57	G10-049	738725.81	1009351.86	6	nT	8/8/2006	6	4	24	Cultural Debris	8/10/2006	Trash	-	-
SEAD-57	G11-001	738722.93	1009403.09	10	nT	8/8/2006	10	4	36	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-006	738709.12	1009406.03	14	nT	8/8/2006	14	4	14	Cultural Debris	8/10/2006	Trash	-	-
SEAD-57	G11-007	738701.48	1009406.76	19	nT	8/8/2006	19	4	18	Cultural Debris	8/10/2006	9 v. Battery	-	-
SEAD-57	G11-026	738747.18	1009463.78	16	nT	8/8/2006	16	4	18	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-029	738738.95	1009446.29	18	nT	8/8/2006	18	4	28	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	H06-001	738792.77	1008848.32	9	nT	8/8/2006	9	4	5	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-017	738816.16	1008760.36	20	nT	8/8/2006	20	4	3	Cultural Debris	8/9/2006	Trash	-	-
SEAD-57	H06-031	738831.71	1008811.74	305	nT	8/8/2006	305	4	4	Cultural Debris	8/9/2006	Trash	-	-
SEAD-57	H06-035	738817.64	1008832.03	9	nT	8/8/2006	9	4	3	Cultural Debris	8/9/2006	Trash	-	-
SEAD-57	H06-038	738867.84	1008848.02	13	nT	8/8/2006	13	4	6	Hot Soil	8/9/2006	hot rock	-	-
SEAD-57	H07-011	738785.36	1008988.55	211	nT	8/8/2006	211	4	1	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	H07-023	738836.01	1008886.08	23	nT	8/8/2006	23	4	5	Munitions Debris	8/9/2006	Frag	-	-
SEAD-57	H07-031	738768.48	1008914.96	45	nT	8/8/2006	45	4	10	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H08-002	738816.226	1009044.126	8	nT	9/6/2006	8	4	12	Cultural Debris	9/8/2006		-	-
SEAD-57	H08-021	738830.094	1009102.967	13	nT	9/6/2006	13	4	24	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-024	738804.043	1009123.056	15	nT	9/6/2006	15	4	16	Cultural Debris	9/8/2006		-	-
SEAD-57	H08-029	738813.893	1009103.356	13	nT	9/6/2006	12	4	20	Cultural Debris	9/8/2006		-	-
SEAD-57	H08-033	738807.672	1009089.099	7	nT	9/6/2006	7	4	4	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-041	738792.119	1009046.329	49	nT	9/6/2006	49	4	12	Hot Soil	9/8/2006	Hot rock	Pass	KC
SEAD-57	H08-069	738870.026	1009070.585	11	nT	10/17/2006	10	4	8	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	H09-001	738767.162	1009231.923	8	nT	10/17/2006	8	4	8	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	H09-025	738836.178	1009218.747	44	nT	10/17/2006	44	4	4	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	H10-005	738772.673	1009264.833	36	nT	10/17/2006	37	4	1	Hot Soil	10/23/2006	Layer of hot soil	-	-
SEAD-57	H10-011	738808.953	1009346.249	41	nT	10/17/2006	42	4	36	Cultural Debris	10/25/2006	Metal disc	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H10-016	738809.092	1009331.131	23	nT	10/17/2006	23	4	19	Munitions Debris	10/25/2006	Frag	-	
SEAD-57	H10-045	738873.169	1009256.93	17	nT	10/17/2006	18	4	30	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-071	738845.014	1009356.235	43	nT	10/17/2006	43	4	20	Cultural Debris	10/25/2006	Wire	Pass	KC
SEAD-57	H10-080	738797.164	1009367.469	33	nT	10/17/2006	33	4	24	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-001	738862.846	1009388.427	9	nT	10/17/2006	10	4	36	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H11-007	738833.107	1009378.977	17	nT	10/17/2006	16	4	24	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-013	738801.005	1009389.122	34	nT	10/17/2006	35	4	18	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H13-016	738836.138	1009665.791	136	nT	10/17/2006	136	4	39	Cultural Debris	10/24/2006	Wire	Pass	KC
SEAD-57	H13-036	738834.026	1009743.111	153	nT	10/17/2006	154	4	36	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	H13-041	738818.815	1009724.943	23	nT	10/17/2006	23	4	12	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	106-009	738915.01	1008776.19	22	nT	8/8/2006	22	4	6	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	108-004	738900.074	1009103.688	7	nT	10/16/2006	8	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	108-005	738890.062	1009101.143	18	nT	10/16/2006	19	4	4	Hot Soil	10/23/2006	Rock	Pass	KC
SEAD-57	108-014	738985.088	1009105.894	10	nT	10/16/2006	11	4	9	Hot Soil	10/19/2006	Hot rock	Pass	KC
SEAD-57	108-026	738949.793	1009003.403	6	nT	10/16/2006	6	4	2	Munitions Debris	10/23/2006	Frag	-	
SEAD-57	108-031	738910.086	1009060.418	15	nT	10/16/2006	15	4	5	Munitions Debris	10/23/2006	Frag	-	
SEAD-57	108-035	738935.199	1009024.953	23	nT	10/16/2006	24	4	8	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	108-036	738937.575	1009019.014	41	nT	10/16/2006	41	4	5	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	108-038	738962.689	1009038.358	6	nT	10/16/2006	7	4	4	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	108-040	738955.053	1009064.83	9	nT	10/16/2006	10	4	2	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	108-041	738955.223	1009079.932	19	nT	10/16/2006	17	4	0	Hot Soil	10/24/2006	Hot rock	Pass	KC
SEAD-57	I10-010	738973.93	1009280.59	6	nT	8/8/2006	6	4	2	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	I10-023	738926.94	1009263.8	6	nT	8/8/2006	6	4	4	Cultural Debris	8/9/2006		-	
SEAD-57	I10-045	738943.45	1009339.3	11	nT	8/8/2006	11	4	6	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	I10-048	738968.71	1009329.42	8	nT	8/8/2006	8	4	3	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	I11-004	738878.53	1009408.45	5	nT	8/8/2006	5	4	5	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-011	738901.11	1009438.09	25	nT	8/8/2006	25	4	8	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-013	738876.84	1009431.31	7	nT	8/8/2006	7	4	4	Hot Soil	8/10/2006	hot rock	-	
SEAD-57	I11-014	738886.86	1009446.13	20	nT	8/8/2006	20	4	18	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-015	738892.79	1009447.54	8	nT	8/8/2006	8	4	24	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-017	738878.67	1009457.98	13	nT	8/8/2006	13	4	3	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-018	738878.81	1009466.31	11	nT	8/8/2006	11	4	8	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-024	738905.2	1009485.22	22	nT	8/8/2006	22	4	5	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-039	738967.02	1009464.9	10	nT	8/8/2006	10	4	4	Munitions Debris	8/10/2006	Frag	Pass	KC
SEAD-57	I11-045	738960.95	1009402.8	18	nT	8/8/2006	18	4	24	Munitions Debris	8/10/2006	Frag	-	
SEAD-57	I12-005	738913.116	1009517.003	26	nT	9/6/2006	26	4	3	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	I12-011	738910.996	1009536.065	9	nT	9/6/2006	9	4	5	Cultural Debris	9/8/2006	Scrap metal	Pass	KC
SEAD-57	I12-013	738898.085	1009553.564	44	nT	9/6/2006	44	4	8	Munitions Debris	9/8/2006	Wire	Pass	KC
SEAD-57	I12-019	738876.814	1009544.44	9	nT	9/6/2006	9	4	4	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I13-004	738902.981	1009700.394	15	nT	9/6/2006	15	4	8	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	I13-007	738933.809	1009737.443	8	nT	9/6/2006	8	4	5	Cultural Debris	9/7/2006	Scrap metal	Pass	KC
SEAD-57	I13-016	738984.354	1009640.428	19	nT	9/6/2006	19	4	18	Cultural Debris	9/7/2006	Wire	Pass	KC
SEAD-57	J10-029	739119.02	1009251.848	22	nT	9/6/2006	22	4	18	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J10-037	739115.019	1009356.617	21	nT	9/6/2006	21	4	4	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	J10-041	739095.017	1009314.775	65	nT	9/6/2006	65	4	20	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J11-002	739097.071	1009495.878	12	nT	9/6/2006	12	4	24	Cultural Debris	9/8/2006	Shotgun pellet	Pass	KC
SEAD-57	J11-018	739068.311	1009450.575	14	nT	9/6/2006	14	4	12	Cultural Debris	9/8/2006	Scrap metal	Pass	KC
SEAD-57	J12-006	739115.177	1009584.574	6	nT	10/16/2006	7	4	6	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-003	739137.413	1009077.005	13	nT	10/16/2006	13	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	K08-004	739127.483	1009109.794	17	nT	10/16/2006	18	4	11	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-017	739142.285	1009009.367	15	nT	10/16/2006	14	4	9	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-021	739162.52	1009050.962	11	nT	10/16/2006	12	4	8	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K09-002	739192.499	1009160.008	20	nT	10/16/2006	21	4	29	Cultural Debris	10/19/2006	Wire	Pass	KC

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Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	K09-005	739177.51	1009205.725	26	nT	10/16/2006	27	4	14	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K09-007	739192.499	1009249.006	24	nT	10/16/2006	23	4	27	Cultural Debris	10/19/2006	Wire	-	-
SEAD-57	K10-006	739125.235	1009316.27	4	nT	10/16/2006	4	4	0	MPPEH	10/17/2006	MK 25	Pass	KC
SEAD-57	K11-001	739185.042	1009424.658	15	nT	10/16/2006	16	4	13	Munitions Debris	10/19/2006	Frag	Pass	KC
SEAD-57	K11-002	739180.147	1009417.316	19	nT	10/16/2006	18	4	2	Munitions Debris	10/19/2006	Frag	Pass	KC
SEAD-57	K11-004	739150.083	1009383.232	50	nT	10/16/2006	51	4	8	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K12-002	739140.096	1009519.475	20	nT	10/16/2006	20	4	3	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K12-006	739130.057	1009587.537	24	nT	10/16/2006	23	4	8	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K12-007	739134.992	1009573.074	14	nT	10/16/2006	14	4	15	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K12-008	739134.821	1009567.969	9	nT	10/16/2006	8	4	9	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	P57_M06-17	739261.75	1008925	215	Mv	7/7/2006	260	4	2	Cultural Debris	7/10/2006	Wire	-	-
SEAD-57	P57_M06-24	739274.75	1008964.25	22	Mv	7/7/2006	25	4	5	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-45	739344.75	1008985	18	Mv	7/7/2006	16	4	2	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-55	739331.75	1008962	33	Mv	7/7/2006	30	4	3	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-56	739338.5	1008957.75	54	Mv	7/7/2006	105	4	4	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-57	739336.75	1008951.25	85	Mv	7/7/2006	25	4	3	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-69	739303.5	1008940.25	22	Mv	7/7/2006	17	4	6	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-80	739291	1008926.5	111	Mv	7/7/2006	200	4	5	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57_M06-81	739289.25	1008925.75	135	Mv	7/7/2006	190	4	5	Munitions Debris	7/10/2006	frag	-	-
SEAD-57	P57K06-101	739020.5	1008815.75	23	Mv	7/13/2006	430	4	2	Cultural Debris	7/17/2006	Pipe	-	-
SEAD-57	P57K06-105	739031	1008810.5	49	Mv	7/13/2006	100	4	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-11	739060.5	1008888.5	74	Mv	7/11/2006	130	4	3	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-113	739004.25	1008828.5	18	Mv	7/13/2006	20	4	2	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-116	739002	1008853.75	18	Mv	7/13/2006	62	4	2	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-121	739019	1008860.75	31	Mv	7/11/2006	25	4	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-122	739017.75	1008864	58	Mv	7/11/2006	48	4	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-123	739013.25	1008869	39	Mv	7/11/2006	25	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-124	739013.25	1008876.25	49	Mv	7/11/2006	55	4	2	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-125	739006.5	1008879.75	21	Mv	7/11/2006	30	4	4	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-126	739003.75	1008895.5	54	Mv	7/13/2006	127	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-128	739003.25	1008910.5	47	Mv	7/11/2006	75	4	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-130	739011.92	1008913.38	48	Mv	7/11/2006	85	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-133	739012	1008931	107	Mv	7/11/2006	100	4	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-134	739020.25	1008931	44	Mv	7/11/2006	45	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-136	739017.5	1008939.25	118	Mv	7/11/2006	105	4	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-137	739017.25	1008943.5	31	Mv	7/11/2006	30	4	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-143	739038	1008964	20	Mv	7/11/2006	20	4	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-144	739043.75	1008961.75	37	Mv	7/11/2006	120	4	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-146	739044	1008952.5	85	Mv	7/11/2006	125	4	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-149	739051	1008937.5	90	Mv	7/11/2006	160	4	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-150	739055.75	1008941.75	31	Mv	7/11/2006	45	4	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-151	739058.25	1008941	25	Mv	7/11/2006	30	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-152	739055.5	1008947.5	34	Mv	7/11/2006	45	4	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-158	739055	1008955.75	81	Mv	7/11/2006	160	4	2	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-159	739055.5	1008952.5	23	Mv	7/11/2006	25	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-164	739058.5	1008991.25	75	Mv	7/12/2006	115	4	3	Munitions Debris	7/17/2006	Frag	-	-
SEAD-57	P57K06-166	739074.75	1008991.75	54	Mv	7/12/2006	80	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	-
SEAD-57	P57K06-184	739199	1008969	84	Mv	7/13/2006	105	4	2	Munitions Debris	7/19/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-197	739239.5	1008994	55	Mv	7/13/2006	100	4	2	Munitions Debris	7/19/2006	MK25 pieces	-	-
SEAD-57	P57K06-201	739237.75	1008927	30	Mv	7/13/2006	33	4	2	Munitions Debris	7/19/2006	MK25 pieces	-	-
SEAD-57	P57K06-207	739213.25	1008914.75	47	Mv	7/13/2006	83	4	1	Cultural Debris	7/19/2006	Trash	-	-
SEAD-57	P57K06-213	739208.75	1008921.5	24	Mv	7/13/2006	45	4	2	Cultural Debris	7/19/2006	Wire	-	-
SEAD-57	P57K06-217	739216.75	1008928.75	42	Mv	7/13/2006	30	4	1	Munitions Debris	7/19/2006	Frag	-	-

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Location (ft) Northing (Y)	Amp ²	Amp Unit	Date	Amp							
SEAD-57	P57K06-22	739037	1008887.5	39	Mv	7/11/2006	42	4	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-224	739203.75	1008940.75	45	Mv	7/13/2006	45	4	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-237	739114.25	1008928.5	18	Mv	7/11/2006	40	4	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-240	739124	1008928.5	109	Mv	7/11/2006	120	4	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-243	739111	1008913.25	54	Mv	7/11/2006	55	4	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-246	739113.91	1008905.64	40	Mv	7/11/2006	100	4	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	P57K06-249	739123.25	1008899.5	48	Mv	7/11/2006	75	4	2	Cultural Debris	7/17/2006	Trash	-	
SEAD-57	P57K06-254	739113	1008885	82	Mv	7/11/2006	115	4	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-258	739123	1008868.25	75	Mv	7/13/2006	125	4	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-260	739120.25	1008854	81	Mv	7/13/2006	130	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-261	739116.5	1008856.25	65	Mv	7/13/2006	60	4	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-266	739107.25	1008872.75	71	Mv	7/11/2006	50	4	5	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-28	739044.5	1008932.75	36	Mv	7/11/2006	80	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-280	739080.75	1008900	35	Mv	7/11/2006	60	4	3	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-281	739091	1008906	42	Mv	7/11/2006	65	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-291	739082	1008929.5	18	Mv	7/11/2006	20	4	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-292	739091.5	1008933	22	Mv	7/11/2006	25	4	1	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-302	739099.25	1008973.75	74	Mv	7/12/2006	105	4	3	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-306	739076.25	1008981.25	90	Mv	7/12/2006	130	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-307	739071.5	1008976.5	74	Mv	7/12/2006	80	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-308	739071.75	1008972.5	31	Mv	7/12/2006	40	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-309	739079.25	1008967.5	47	Mv	7/12/2006	85	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-311	739079.25	1008961	22	Mv	7/11/2006	40	4	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-314	739074	1008953.5	90	Mv	7/11/2006	110	4	1	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-32	739034.25	1008926.5	18	Mv	7/11/2006	20	4	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-45	739043	1008870	76	Mv	7/11/2006	100	4	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-46	739048.75	1008865.25	51	Mv	7/11/2006	44	4	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-47	739047	1008864.5	32	Mv	7/11/2006	35	4	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-48	739046.25	1008859.5	37	Mv	7/11/2006	60	4	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-6	739061	1008909.25	66	Mv	7/11/2006	60	4	2	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-60	739067.25	1008827.75	17	Mv	7/13/2006	48	4	3	Munitions Debris	7/18/2006	Frag	-	
SEAD-57	P57K06-7	739058	1008908.25	60	Mv	7/11/2006	60	4	3	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-72	739086.5	1008821	30	Mv	7/13/2006	50	4	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-78	739054.75	1008794.25	26	Mv	7/13/2006	23	4	11	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-89	739046	1008770	68	Mv	7/13/2006	100	4	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-90	739040	1008772.5	17	Mv	7/13/2006	22	4	3	Cultural Debris	7/17/2006	Trash	-	
SEAD-57	P57K06-91	739036	1008772.5	20	Mv	7/13/2006	24	4	5	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K08-101	739207.25	1009153.75	29	Mv	7/10/2006	38	4	10	Hot Soil	7/11/2006	Hot Rock	-	
SEAD-57	P57K08-104	739198.5	1009153.25	25	Mv	7/10/2006	31	4	22	Cultural Debris	7/11/2006	Trash	-	
SEAD-57	P57K08-111	739246	1009183.25	68	Mv	7/10/2006	69	4	12	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-112	739203.25	1009171.75	30	Mv	7/10/2006	35	4	7	Cultural Debris	7/11/2006	Trash	-	
SEAD-57	P57K08-115	739206.5	1009176.25	34	Mv	7/10/2006	35	4	14	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-119	739217.75	1009192.25	130	Mv	7/10/2006	254	4	8	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC
SEAD-57	P57K08-125	739195	1009183.75	39	Mv	7/10/2006	110	4	10	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-131	739201.25	1009211.25	34	Mv	7/10/2006	36	4	20	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC
SEAD-57	P57K08-132	739206.25	1009203.75	18	Mv	7/10/2006	20	4	8	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-135	739209.25	1009197.5	24	Mv	7/10/2006	38	4	6	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-146	739196	1009224.25	104	Mv	7/10/2006	159	4	7	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-150	739208	1009231.75	56	Mv	7/10/2006	64	4	12	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-16	739249.5	1009140.75	31	Mv	7/10/2006	63	4	7	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-160	739236.5	1009247.75	35	Mv	7/10/2006	53	4	5	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-23	739220.25	1009115	70	Mv	7/10/2006	98	4	5	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-28	739217.25	1009105	52	Mv	7/10/2006	81	4	6	Munitions Debris	7/11/2006	Multiple digs/pieces	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Item Description		
		Easting (X)	Northing (Y)												
SEAD-57	P57K08-3	739245.5	1009211.75	71	Mv	7/10/2006	91	4	8	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	P57K08-36	739238.25	1009077.25	78	Mv	7/10/2006	129	4	6	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-37	739246	1009058	17	Mv	6/1/2006	30	4	2	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-38	739238.25	1009061.25	21	Mv	7/10/2006	39	4	0	Cultural Debris	10/24/2006		-		
SEAD-57	P57K08-39	739232.25	1009059.75	18	Mv	7/10/2006	32	4	0	Cultural Debris	10/24/2006	Scrap metal	-		
SEAD-57	P57K08-41	739235.75	1009039	30	Mv	6/1/2006	70	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	P57K08-43	739240.25	1009029.75	52	Mv	6/1/2006	60	4	0	Cultural Debris	10/24/2006	Horseshoe	-		
SEAD-57	P57K08-44	739240.5	1009021.25	36	Mv	7/7/2006	40	4	4	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-46	739244	1009006.25	39	Mv	7/7/2006	40	4	1	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-47	739240.25	1009004.5	19	Mv	7/7/2006	25	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-48	739229.75	1009019.75	101	Mv	7/7/2006	85	4	6	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-49	739223.5	1009030.75	78	Mv	6/1/2006	95	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-5	739237.75	1009211.75	36	Mv	7/10/2006	59	4	4	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-51	739219	1009028.25	46	Mv	6/1/2006	60	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-56	739215.75	1009035.5	43	Mv	6/1/2006	45	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-57	739215.25	1009039.75	29	Mv	6/1/2006	30	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-59	739203	1009042.75	24	Mv	6/1/2006	25	4	2	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-61	739199.75	1009043.5	23	Mv	6/1/2006	25	4	2	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-66	739203.25	1009083	44	Mv	7/10/2006	92	4	2	Munitions Debris	7/11/2006	Multiple digs/pieces	-		
SEAD-57	P57K08-69	739214.25	1009076	24	Mv	7/10/2006	56	4	20	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-70	739211.75	1009066.25	78	Mv	7/10/2006	180	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-73	739222.75	1009073.25	44	Mv	7/10/2006	74	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-77	739222.75	1009089.75	28	Mv	7/10/2006	52	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-79	739200.5	1009098.5	22	Mv	7/10/2006	42	4	4	Cultural Debris	7/11/2006	Trash	-		
SEAD-57	P57K08-81	739197.5	1009106.5	27	Mv	7/10/2006	32	4	20	Cultural Debris	7/11/2006	Trash	-		
SEAD-57	P57K08-83	739194.5	1009115.5	67	Mv	7/10/2006	91	4	8	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-9	739234.5	1009194.5	78	Mv	7/10/2006	104	4	6	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-94	739231.5	1009146.5	100	Mv	7/10/2006	127	4	6	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-96	739221	1009147.25	41	Mv	7/10/2006	56	4	6	Munitions Debris	7/11/2006	Multiple digs/pieces[brass-steel]	-		
SEAD-57	P57K08-99	739212.25	1009150.75	46	Mv	7/10/2006	64	4	15	Munitions Debris	7/11/2006	Multiple digs/pieces	-		
SEAD-57	P57K10-10	739195	1009492.25	139	Mv	7/13/2006	113	4	8	Munitions Debris	7/17/2006	Multiple digs/pieces	-		
SEAD-57	P57K10-105	739221.25	1009381	24	Mv	7/13/2006	36	4	24	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-11	739192.25	1009495.75	49	Mv	7/13/2006	52	4	8	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-112	739225	1009357.25	35	Mv	7/13/2006	68	4	9	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-116	739226.25	1009343.25	33	Mv	7/11/2006	42	4	6	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-118	739227	1009338.25	24	Mv	7/11/2006	33	4	3	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-119	739219.25	1009337.75	87	Mv	7/11/2006	96	4	8	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-12	739187.25	1009487.5	79	Mv	7/13/2006	137	4	12	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-121	739216.25	1009329	50	Mv	7/11/2006	51	4	15	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-125	739200.5	1009322	61	Mv	7/11/2006	61	4	20	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-127	739197	1009306.5	48	Mv	7/11/2006	50	4	4	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-129	739209	1009304.5	82	Mv	7/11/2006	89	4	6	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-135	739209	1009292.75	44	Mv	7/11/2006	55	4	6	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-137	739198.5	1009290.25	103	Mv	7/11/2006	108	4	4	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-138	739197.75	1009289	80	Mv	7/11/2006	90	4	9	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-148	739199.25	1009267.75	87	Mv	7/11/2006	89	4	7	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-154	739216.25	1009259	70	Mv	7/11/2006	110	4	10	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-157	739227.5	1009252.25	41	Mv	7/11/2006	49	4	18	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-166	739223.25	1009284	34	Mv	7/11/2006	45	4	22	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-167	739218.25	1009284.75	59	Mv	7/11/2006	74	4	7	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-168	739223.25	1009288.5	17	Mv	7/11/2006	16	4	24	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-172	739225.75	1009300	71	Mv	7/11/2006	80	4	10	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-175	739234	1009306.75	133	Mv	7/11/2006	136	4	5	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Item		
		Easting (X)	Northing (Y)												
SEAD-57	P57K10-183	739248	1009343.25	43	Mv	7/13/2006	43	4	20	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-188	739243.5	1009386	55	Mv	7/13/2006	76	4	14	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-19	739165.75	1009467.25	22	Mv	7/13/2006	23	4	2	Munitions Debris	7/17/2006	Frag		-	
SEAD-57	P57K10-190	739237.5	1009401.75	93	Mv	7/13/2006	117	4	2	Munitions Debris	7/18/2006	Multiple digs/pieces		-	
SEAD-57	P57K10-2	739240.25	1009468.25	25	Mv	7/13/2006	57	4	24	Munitions Debris	7/17/2006	Frag		Pass	KC
SEAD-57	P57K10-32	739201.25	1009456	95	Mv	7/13/2006	123	4	20	Munitions Debris	7/17/2006	Frag		Pass	KC
SEAD-57	P57K10-36	739198.75	1009452	118	Mv	7/13/2006	112	4	22	Munitions Debris	7/17/2006	Frag		Pass	KC
SEAD-57	P57K10-37	739197	1009443.75	104	Mv	7/13/2006	101	4	10	Munitions Debris	7/17/2006	Multiple digs/pieces		-	
SEAD-57	P57K10-40	739205.25	1009445.25	36	Mv	7/13/2006	39	4	24	Munitions Debris	7/17/2006	Frag		-	
SEAD-57	P57K10-42	739215.75	1009447.75	21	Mv	7/13/2006	21	4	0	Cultural Debris	10/24/2006	Tent stake		-	
SEAD-57	P57K10-47	739226.25	1009421.25	134	Mv	7/13/2006	165	4	4	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-51	739216	1009407.25	47	Mv	7/13/2006	55	4	5	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-52	739212.75	1009401.5	55	Mv	7/13/2006	96	4	7	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-56	739202.75	1009408.5	24	Mv	7/13/2006	23	4	6	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-60	739193.75	1009415.5	75	Mv	7/13/2006	83	4	20	Munitions Debris	7/17/2006	Frag		Pass	KC
SEAD-57	P57K10-68	739197	1009399.5	55	Mv	7/13/2006	63	4	12	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-73	739196.5	1009382.25	75	Mv	7/13/2006	75	4	4	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-80	739205	1009366.75	77	Mv	7/13/2006	83	4	6	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-86	739199.5	1009361.25	87	Mv	7/13/2006	126	4	14	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-89	739197.5	1009355.75	50	Mv	7/13/2006	45	4	12	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-95	739200.25	1009343.75	76	Mv	7/11/2006	102	4	6	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-96	739208	1009343	64	Mv	7/11/2006	111	4	5	Munitions Debris	7/18/2006	Alum MD	Alum MD	Pass	KC
SEAD-57	P57K10-98	739210.25	1009351.5	42	Mv	7/13/2006	81	4	24	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57K10-99	739208	1009357	37	Mv	7/13/2006	63	4	8	Munitions Debris	7/18/2006	Alum MD	Alum MD	-	
SEAD-57	P57M08-100	739273.25	1009222	54	Mv	7/5/2006	55	4	2	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-104	739251	1009224.5	28	Mv	7/6/2006	40	4	1	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-105	739251.13	1009249.51	154	Mv	7/5/2006	70	4	3	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-112	739279	1009226.5	101	Mv	7/5/2006	85	4	1	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-113	739284.5	1009229.5	19	Mv	7/6/2006	27	4	1	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-117	739318.5	1009237.5	22	Mv	7/6/2006	20	4	1	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-13	739368.25	1009209	34	Mv	7/6/2006	60	4	2	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-20	739369	1009185.5	92	Mv	7/5/2006	130	4	2	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-34	739343.5	1009187.75	23	Mv	7/6/2006	85	4	2	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-36	739330.5	1009196.25	17	Mv	7/6/2006	20	4	2	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-49	739369.5	1009125.25	21	Mv	7/6/2006	35	4	4	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-56	739349	1009004.5	18	Mv	7/6/2006	18	4	2	Munitions Debris	7/10/2006	Frag		-	
SEAD-57	P57M08-87	739255.25	1009134	25	Mv	7/6/2006	50	4	3	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-88	739262.75	1009145.75	17	Mv	7/6/2006	35	4	1	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M08-96	739280	1009185.25	34	Mv	7/6/2006	35	4	2	Munitions Debris	7/7/2006	Frag		-	
SEAD-57	P57M10-104	739312.25	1009421.5	63	Mv	7/10/2006	97	4	5	Munitions Debris	7/10/2006	Multiple digs/pieces		-	
SEAD-57	P57M10-13	739373.75	1009320.5	32	Mv	7/10/2006	36	4	5	Munitions Debris	7/10/2006	Frag		-	
SEAD-57	P57M10-19	739399	1009276.5	58	Mv	7/10/2006	70	4	8	Munitions Debris	7/10/2006	Frag		-	
SEAD-57	P57M10-36	739353.25	1009322.75	23	Mv	7/10/2006	32	4	6	Munitions Debris	7/10/2006	Frag		-	
SEAD-57	P57M10-47	739286.5	1009309.5	44	Mv	7/10/2006	44	4	5	Munitions Debris	7/10/2006	Frag		-	
SEAD-57	P57M10-48	739292.75	1009299.25	62	Mv	7/10/2006	67	4	4	Munitions Debris	7/10/2006	Frag		Pass	KC
SEAD-57	P57M10-5	739334.25	1009386.75	19	Mv	7/10/2006	40	4	6	Munitions Debris	7/10/2006	Multiple digs/pieces		-	
SEAD-57	P57M10-53	739311.5	1009278.5	34	Mv	7/10/2006	42	4	5	Munitions Debris	7/10/2006	Multiple digs / pieces		-	
SEAD-57	P57M10-55	739312.25	1009267	92	Mv	7/10/2006	114	4	12	Cultural Debris	7/10/2006	Trash Painted orange		-	
SEAD-57	P57M10-57	739283.75	1009257.25	32	Mv	7/10/2006	45	4	12	Munitions Debris	7/10/2006	Frag		-	
SEAD-57	P57M10-61	739274.5	1009268.25	22	Mv	7/10/2006	68	4	5	Munitions Debris	7/10/2006	Multiple digs / pieces		-	
SEAD-57	P57M10-67	739263	1009306	30	Mv	7/10/2006	44	4	20	Munitions Debris	7/10/2006	Multiple digs / pieces		-	
SEAD-57	P57M10-69	739251.5	1009315	100	Mv	7/10/2006	101	4	5	Munitions Debris	7/10/2006	Multiple digs / pices		-	
SEAD-57	P57M10-7	739368.25	1009371	28	Mv	7/10/2006	30	4	6	Munitions Debris	7/10/2006	Frag		-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item	Description		
		Easting (X)	Northing (Y)												
SEAD-57	P57M10-70	739262.25	1009324.75	24	Mv	7/10/2006	60	4	3	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-73	739276.25	1009350	78	Mv	7/10/2006	78	4	18	Munitions Debris	7/10/2006	Multiple digs/pieces	-		
SEAD-57	P57M10-76	739258.5	1009372.25	26	Mv	7/10/2006	32	4	8	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-77	739260.5	1009384	41	Mv	7/10/2006	53	4	8	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-81	739280.5	1009435	49	Mv	7/10/2006	63	4	6	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-87	739253.5	1009425.5	59	Mv	7/10/2006	77	4	6	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57M10-96	739320.5	1009457.75	108	Mv	7/10/2006	115	4	6	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	S57K12-1	739018	1009637.25	75	Mv	7/10/2006	160	4	1	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	S57K12-10	739160.25	1009530	22	Mv	7/10/2006	30	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	S57K12-11	739163.75	1009527	73	Mv	7/10/2006	75	4	2	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-14	739162	1009509.25	23	Mv	7/10/2006	30	4	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	S57K12-16	739168.57	1009500.68	67	Mv	7/10/2006	70	4	1	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-20	739172.75	1009507.5	23	Mv	7/10/2006	20	4	5	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	S57K12-22	739183	1009518	55	Mv	7/10/2006	70	4	2	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-25	739182	1009536	63	Mv	7/10/2006	60	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-26	739188.25	1009537	56	Mv	7/10/2006	65	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-29	739181.5	1009558	54	Mv	7/10/2006	70	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-34	739209.25	1009541	19	Mv	7/10/2006	60	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-4	739161.75	1009562.75	17	Mv	7/10/2006	18	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-44	739221	1009520.75	58	Mv	7/10/2006	45	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-49	739244	1009540	30	Mv	7/10/2006	20	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-5	739162.5	1009551.5	21	Mv	7/10/2006	35	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-51	739231.5	1009552.25	54	Mv	7/10/2006	85	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-52	739213.5	1009558.5	21	Mv	7/10/2006	30	4	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-58	739150.75	1009596.5	54	Mv	7/10/2006	60	4	4	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	S57K12-59	739098.25	1009620.5	43	Mv	7/10/2006	85	4	2	Cultural Debris	7/11/2006	Wire	-		
SEAD-57	S57K12-60	739014.68	1009637.85	58	Mv	7/10/2006	105	4	2	Munitions Debris	7/11/2006	Frag	-		
SEAD-57 Buffer	A14-002	738003	1009907.25	27	mV	9/28/2006	27	4	5	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	A14-004	738007.5	1009888.25	17	mV	9/28/2006	17	4	10	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	A14-011	737950.5	1009939.5	871	mV	9/28/2006	871	4	1	Munitions Debris	10/10/2006	Frag	Pass	KC	
SEAD-57 Buffer	A14-014	737928.09	1009919.51	97	mV	9/28/2006	97	4	20	Cultural Debris	10/10/2006	Wire	Pass	KC	
SEAD-57 Buffer	A14-016	737948.75	1009894.5	18	mV	9/28/2006	18	4	24	Cultural Debris	10/10/2006		Pass	KC	
SEAD-57 Buffer	A14-018	737947.35	1009879.26	81	mV	9/28/2006	81	4	8	Cultural Debris	10/10/2006		Pass	KC	
SEAD-57 Buffer	A14-022	737979.75	1009869.75	16	mV	9/28/2006	16	4	12	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	A14-031	738018.5	1009865.25	20	mV	9/28/2006	20	4	8	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	A14-034	738045	1009860.25	22	mV	9/28/2006	22	4	5	Cultural Debris	10/5/2006		Pass	KC	
SEAD-57 Buffer	A14-037	738063.25	1009889	18	mV	9/28/2006	18	4	8	Cultural Debris	10/9/2006		-		
SEAD-57 Buffer	A14-040	738061.5	1009864.75	20	mV	9/28/2006	20	4	12	Cultural Debris	10/5/2006		Pass	KC	
SEAD-57 Buffer	A14-042	738052.25	1009857.25	192	mV	9/28/2006	192	4	6	Cultural Debris	10/5/2006		Pass	KC	
SEAD-57 Buffer	A14-046	738050.5	1009842.75	167	mV	9/28/2006	167	4	12	Cultural Debris	10/5/2006		Pass	KC	
SEAD-57 Buffer	A14-049	738077.75	1009846.75	251	mV	9/28/2006	251	4	18	Cultural Debris	10/5/2006		Pass	KC	
SEAD-57 Buffer	A14-052	738101.25	1009841	20	mV	9/28/2006	20	4	6	Cultural Debris	10/5/2006		Pass	KC	
SEAD-57 Buffer	A14-056	738110.75	1009833.25	130	mV	9/28/2006	130	4	8	Cultural Debris	10/5/2006		Pass	KC	
SEAD-57 Buffer	A14-064	738038	1009831.75	98	mV	9/28/2006	98	4	10	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	A14-067	738022	1009827.25	20	mV	9/28/2006	20	4	24	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	A14-068	738011.75	1009825.25	179	mV	9/28/2006	179	4	5	Cultural Debris	10/9/2006		Pass	KC	
SEAD-57 Buffer	A14-074	737981.75	1009811.75	26	mV	9/28/2006	26	4	2	Cultural Debris	10/10/2006		Pass	KC	
SEAD-57 Buffer	A14-075	737969	1009813.75	53	mV	9/28/2006	53	4	8	Cultural Debris	10/10/2006		-		
SEAD-57 Buffer	A14-076	737961	1009813	57	mV	9/28/2006	57	4	10	Cultural Debris	10/10/2006		Pass	KC	
SEAD-57 Buffer	A14-081	737959.75	1009856	25	mV	9/28/2006	25	4	10	Cultural Debris	10/10/2006		Pass	KC	
SEAD-57 Buffer	A14-089	737913.75	1009806.75	45	mV	9/28/2006	45	4	13	Cultural Debris	10/4/2006	Scrap metal	Pass	KC	
SEAD-57 Buffer	A14-095	737903.06	1009837.08	103	mV	9/28/2006	103	4	2	Cultural Debris	10/10/2006		-		
SEAD-57 Buffer	A14-096	737910.75	1009834.5	167	mV	9/28/2006	167	4	24	Cultural Debris	10/10/2006		Pass	KC	

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Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	A14-101	737922.75	1009833.75	20	mV	9/28/2006	20	4	4	Cultural Debris	10/4/2006	Steel washer	Pass	KC
SEAD-57 Buffer	A14-108	737916	1009881	448	mV	9/28/2006	448	4	14	Cultural Debris	10/10/2006	Iron rod	Pass	KC
SEAD-57 Buffer	A14-111	737898	1009857.25	723	mV	9/28/2006	723	4	16	Cultural Debris	10/10/2006	-	-	-
SEAD-57 Buffer	A14-118	737893.26	1009927.57	79	mV	9/28/2006	79	4	5	Munitions Debris	10/10/2006	Frag and wire	Pass	KC
SEAD-57 Buffer	A14-121	737880	1009984	65	mV	9/28/2006	65	4	20	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A14-125	737964	1009961	19	mV	9/28/2006	19	4	8	Cultural Debris	10/10/2006	Washer	Pass	KC
SEAD-57 Buffer	A14-129	737984	1009965	91	mV	9/28/2006	91	4	5	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-134	738010.25	1009969.25	118	mV	9/28/2006	118	4	10	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-135	738020.25	1009966.5	692	mV	9/28/2006	692	4	3	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-137	738022.08	1009958.02	57	mV	9/28/2006	57	4	5	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-138	738030.5	1009967	20	mV	9/28/2006	20	4	3	Cultural Debris	10/9/2006		-	-
SEAD-57 Buffer	A14-141	738053.75	1009979.75	33	mV	9/28/2006	33	4	3	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-144	738107.25	1009992.5	35	mV	9/28/2006	35	4	4	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-145	738113	1009993.75	22	mV	9/28/2006	22	4	6	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-149	738089	1009910	19	mV	9/28/2006	19	4	1	Cultural Debris	10/25/2006	Scrap metal	-	-
SEAD-57 Buffer	A14-150	738077.5	1009929	24	mV	9/28/2006	24	4	10	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-152	738062.75	1009939.5	22	mV	9/28/2006	22	4	4	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A16-002	737909.5	1010120.5	906	mV	9/28/2006	906	4	5	Munitions Debris	10/9/2006	2.36 motor	Pass	KC
SEAD-57 Buffer	A16-004	737887.5	1010089	20	mV	9/28/2006	20	4	20	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-005	737911.75	1010080.75	20	mV	9/28/2006	20	4	6	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-008	737936.75	1010069.75	24	mV	9/28/2006	24	4	10	Hot Soil	10/9/2006	Hot rock	Pass	KC
SEAD-57 Buffer	A16-015	737968	1010073.75	21	mV	9/28/2006	21	4	3	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-021	737976.75	1010003.75	148	mV	9/28/2006	148	4	8	Cultural Debris	10/10/2006	Tent peg	Pass	KC
SEAD-57 Buffer	A16-023	737990.25	1010017.5	40	mV	9/28/2006	40	4	6	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-027	738004	1010050.75	67	mV	9/28/2006	67	4	10	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-030	738023	1010081.5	17	mV	9/28/2006	17	4	30	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-044	738055.25	1010078	20	mV	9/28/2006	20	4	17	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-046	738050.5	1010064.25	18	mV	9/28/2006	18	4	4	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-051	738078.5	1010014.25	28	mV	9/28/2006	28	4	5	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A16-060	738104.04	1010160.92	34	mV	9/28/2006	34	4	6	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-061	738120.75	1010164.25	18	mV	9/28/2006	18	4	3	Munitions Debris	10/5/2006	2.36 motor, empty	Pass	KC
SEAD-57 Buffer	A16-066	738071	1010231.75	61	mV	9/28/2006	61	4	12	Munitions Debris	10/5/2006	Frag, also cultural debris 2 digs, 2 pieces	Pass	KC
SEAD-57 Buffer	A16-071	738018	1010196.5	66	mV	9/28/2006	66	4	6	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-081	737971.5	1010143.25	44	mV	9/28/2006	44	4	3	Cultural Debris	10/9/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A16-083	737965	1010158.75	59	mV	9/28/2006	59	4	8	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-086	737932	1010186.5	30	mV	9/28/2006	30	4	7	Cultural Debris	10/9/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A16-087	737935	1010192.75	22	mV	9/28/2006	22	4	15	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-102	737900.5	1010203.5	151	mV	9/28/2006	151	4	6	Munitions Debris	10/9/2006	2.36 motor, empty	Pass	KC
SEAD-57 Buffer	A16-107	737933	1010142.5	48	mV	9/28/2006	48	4	3	Munitions Debris	10/9/2006	2.36 motor piece	Pass	KC
SEAD-57 Buffer	A16-110	737936.74	1010121.48	25	mV	9/28/2006	25	4	2	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-008	737923	1010330.75	45	mV	9/28/2006	45	4	28	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-014	738061.5	1010287	25	mV	9/28/2006	25	4	13	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-017	738110	1010312.25	16	mV	9/28/2006	16	4	30	Hot Soil	10/5/2006	Hot Rock	Pass	KC
SEAD-57 Buffer	A18-023	738067.5	1010267.5	22	mV	9/28/2006	22	4	15	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C14-012	738206	1009936.5	28	mV	9/28/2006	28	4	12	Cultural Debris	10/4/2006	Seed Item	Pass	KC
SEAD-57 Buffer	C14-021	738144.75	1009861.5	71	mV	9/28/2006	71	4	6	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	C14-030	738159.5	1009931.25	21	mV	9/28/2006	21	4	3	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C14-031	738139	1009932.75	64	mV	9/28/2006	64	4	6	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C14-033	738153.5	1009957.75	80	mV	9/28/2006	80	4	6	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	C16-003	738258.5	1010228.25	28	mV	9/28/2006	28	4	15	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-008	738339.75	1010200.5	155	mV	9/28/2006	155	4	30	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-013	738316.5	1010149.75	23	mV	9/28/2006	23	4	17	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-014	738299.5	1010144.5	22	mV	9/28/2006	22	4	30	Munitions Debris	10/4/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	C16-018	738288.75	1010118	17	mV	9/28/2006	17	4	7	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-021	738326.75	1010089.25	22	mV	9/28/2006	22	4	5	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-028	738291.75	1010017	16	mV	9/28/2006	16	4	10	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C16-036	738190.41	1010002.33	26	mV	9/28/2006	26	4	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-039	738203.25	1010027.75	17	mV	9/28/2006	17	4	8	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-041	738200	1010058.75	195	mV	9/28/2006	195	4	10	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-044	738198.25	1010103.75	19	mV	9/28/2006	19	4	24	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-053	738159.25	1010140.25	25	mV	10/2/2006	25	4	30	Munitions Debris	10/5/2006	Frag	-	
SEAD-57 Buffer	C16-054	738167.25	1010127.25	48	mV	10/2/2006	48	4	18	Munitions Debris	10/5/2006	Frag, 2 digs, 2 pieces	Pass	KC
SEAD-57 Buffer	C16-064	738227	1010185.75	17	mV	10/2/2006	17	4	18	Cultural Debris	10/4/2006	Bolt	Pass	KC
SEAD-57 Buffer	C16-068	738208	1010238	18	mV	10/2/2006	18	4	15	Munitions Debris	10/4/2006	Frag, 2 digs, 2 pieces	Pass	KC
SEAD-57 Buffer	C16-069	738232.75	1010228.25	34	mV	10/2/2006	34	4	6	Munitions Debris	10/4/2006	2.36 fuze, empty	Pass	KC
SEAD-57 Buffer	C18-002	738343.75	1010285.75	172	mV	9/26/2006	172	4	10	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-007	738216.5	1010263	67	mV	9/26/2006	67	4	10	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-013	738213	1010296.5	31	mV	9/26/2006	31	4	3	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-014	738238.38	1010328.21	18	mV	9/26/2006	18	4	7	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-018	738331.75	1010291.75	23	mV	9/26/2006	23	4	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-001	738465.5	1010223.75	16	mV	10/2/2006	16	4	3	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-003	738422.67	1010244.69	63	mV	10/2/2006	63	4	6	MPPEH	10/4/2006	2.36" rkt M-6 WP head & burster	Pass	KC
SEAD-57 Buffer	E16-005	738405.75	1010237.75	24	mV	10/2/2006	24	4	7	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-008	738394.25	1010199	42	mV	10/2/2006	42	4	5	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-013	738405.25	1010130.5	23	mV	10/2/2006	23	4	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-015	738442.25	1010134.5	25	mV	10/2/2006	25	4	4	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-019C1	738400.787	1010054.912	634	mV	10/16/2006	634	4	0	Cultural Debris	7/20/2006	10" scrap metal found near C flag	-	
SEAD-57 Buffer	E16-024	738419.5	1010082.5	24	mV	10/2/2006	24	4	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-025	738447.75	1010102.25	23	mV	10/2/2006	23	4	3	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-028	738501.75	1010073	30	mV	10/2/2006	30	4	6	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-031	738527.25	1010139.91	20	mV	10/2/2006	20	4	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-033	738535.5	1010151.5	61	mV	10/2/2006	61	4	7	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-036	738568	1010133.75	20	mV	10/2/2006	20	4	6	Cultural Debris	10/3/2006		Pass	KC
SEAD-57 Buffer	E16-040	738602.5	1010135.75	18	mV	10/2/2006	18	4	18	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-046	738622.25	1010224.75	19	mV	10/2/2006	19	4	6	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-053	738586	1010199.5	266	mV	10/2/2006	266	4	4	Munitions Debris	10/3/2006	2.36" rkt motor	Pass	KC
SEAD-57 Buffer	E16-057	738523.5	1010195.25	35	mV	10/2/2006	35	4	5	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	E18-001	738466.25	1010287	50	mV	9/26/2006	50	4	6	Munitions Debris	10/4/2006	Frag	-	
SEAD-57 Buffer	E18-015	738623.25	1010299.5	94	mV	9/26/2006	94	4	15	Munitions Debris	10/3/2006	Frag, 2 digs, 2 pieces	Pass	KC
SEAD-57 Buffer	E18-018	738601.5	1010310.75	31	mV	9/26/2006	31	4	10	Munitions Debris	10/3/2006	Flare piece	Pass	KC
SEAD-57 Buffer	E18-024	738507.25	1010320.25	18	mV	9/26/2006	18	4	30	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-027	738489.25	1010316.25	22	mV	9/26/2006	22	4	3	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-006	738794.5	1010184.75	16	mV	9/26/2006	16	4	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-007	738787.75	1010187.5	211	mV	9/26/2006	211	4	8	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-008	738759	1010175.25	143	mV	9/26/2006	143	4	3	MPPEH	10/3/2006	2.36" rkt head WP & burster	Pass	KC
SEAD-57 Buffer	G16-013	738699.75	1010174.75	25	mV	9/26/2006	25	4	6	MPPEH	10/3/2006	20mm he head	-	
SEAD-57 Buffer	G16-020	738630.75	1010183.75	786	mV	9/26/2006	786	4	4	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-029	738678.5	1010211.75	52	mV	9/26/2006	52	4	14	Munitions Debris	10/3/2006	2.36" rkt pieces	-	
SEAD-57 Buffer	G16-030	738699.5	1010223.25	27	mV	9/26/2006	27	4	5	MPPEH	10/3/2006	20mm he head	-	
SEAD-57 Buffer	G16-032	738710	1010226.75	17	mV	9/26/2006	17	4	4	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G16-036	738718.75	1010210.5	83	mV	9/26/2006	83	4	5	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G18-008	738694.25	1010314	42	mV	9/26/2006	42	4	21	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-014	738628.9	1010314.88	19	mV	9/26/2006	19	4	6	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-015	738635	1010301	27	mV	9/26/2006	27	4	12	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-019	738655.5	1010257	16	mV	9/26/2006	16	4	5	Cultural Debris	10/3/2006	Nail	Pass	KC
SEAD-57 Buffer	G18-020	738683	1010270.25	75	mV	9/26/2006	75	4	11	Cultural Debris	10/3/2006	Scrap metal	Pass	KC

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SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	G18-024	738703.25	1010260.25	50	mV	9/26/2006	50	4	12	Munitions Debris	10/3/2006	Frag, 2pieces, 2 digs	Pass	KC
SEAD-57 Buffer	G18-025	738721.97	1010278.79	14	mV	9/26/2006	14	4	9	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G18-026	738713.75	1010285.75	30	mV	9/26/2006	30	4	4	Munitions Debris	10/3/2006	Fuze piece	-	
SEAD-57 Buffer	G18-029	738740.5	1010281.75	22	mV	9/26/2006	22	4	13	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G18-037	738786	1010329.25	19	mV	9/27/2006	19	4	14	Munitions Debris	10/3/2006	Frag	-	
SEAD-57 Buffer	G18-040	738736.5	1010329	108	mV	9/27/2006	108	4	10	Munitions Debris	10/3/2006	2.36 motor, empty	-	
SEAD-57 Buffer	G18-045	738727.5	1010329	17	mV	9/27/2006	17	4	6	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-046	738717.5	1010338.5	24	mV	9/27/2006	24	4	11	Munitions Debris	10/3/2006	20 mm head	Pass	KC
SEAD-57 Buffer	I18-002	738887.5	1010353.5	27	mV	9/26/2006	27	4	2	MPPEH	10/2/2006	20mm he head	-	
SEAD-57 Buffer	I18-004	738882.5	1010336	18	mV	9/26/2006	18	4	4	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	I18-010	738968	1010335	32	mV	9/26/2006	32	4	10	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-012	738992.75	1010369.5	29	mV	9/26/2006	29	4	13	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-015	739030.95	1010337.46	27	mV	9/26/2006	27	4	2	Munitions Debris	10/2/2006	2.36" rkt pieces	Pass	KC
SEAD-57 Buffer	I18-016	739023.75	1010319	17	mV	9/26/2006	17	4	18	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-017	738986.25	1010314.25	43	mV	9/26/2006	43	4	5	MPPEH	10/2/2006	2.36" rkt pieces & burster	Pass	KC
SEAD-57 Buffer	I18-018	738973	1010308	21	mV	9/26/2006	21	4	6	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-020	738963.75	1010305.25	21	mV	9/26/2006	21	4	4	Munitions Debris	10/2/2006	frag	Pass	KC
SEAD-57 Buffer	I18-022	738985.5	1010288.75	39	mV	9/26/2006	39	4	6	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-024	739036	1010274	58	mV	9/26/2006	58	4	5	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	I18-030	739112.75	1010254.5	254	mV	9/26/2006	254	4	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-031	739116.75	1010306.75	28	mV	9/26/2006	28	4	5	Cultural Debris	10/2/2006		-	
SEAD-57 Buffer	I18-033	739116.75	1010350	34	mV	9/26/2006	34	4	13	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-038	739058.25	1010367.5	90	mV	9/26/2006	90	4	7	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-042	739102.25	1010373	38	mV	9/26/2006	38	4	9	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-043	739124.53	1010376.56	103	mV	9/26/2006	107	4	17	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	I18-051	738975.75	1010415.5	60	mV	9/26/2006	60	4	2	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	K16-003	739316.25	1010184.5	27	mV	9/26/2006	27	4	10	Cultural Debris	9/28/2006		Pass	KC
SEAD-57 Buffer	K16-004	739311.77	1010179.68	42	mV	9/26/2006	42	4	8	Cultural Debris	9/28/2006		Pass	KC
SEAD-57 Buffer	K16-017	739332.75	1010178.25	167	mV	9/26/2006	167	4	8	Cultural Debris	9/28/2006		Pass	KC
SEAD-57 Buffer	K16-018	739333.02	1010182.92	41	mV	9/26/2006	41	4	18	Cultural Debris	9/28/2006		Pass	KC
SEAD-57 Buffer	K18-001	739136.75	1010379.5	18	mV	9/26/2006	18	4	13	Munitions Debris	10/2/2006	Frag	-	
SEAD-57 Buffer	K18-003	739130	1010358.5	21	mV	9/26/2006	21	4	36	Munitions Debris	10/2/2006	Flare piece	-	
SEAD-57 Buffer	K18-005	739169.25	1010373	28	mV	9/26/2006	28	4	6	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-008	739226	1010319.5	19	mV	9/26/2006	19	4	3	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-010	739225	1010306.75	326	mV	9/26/2006	326	4	12	Munitions Debris	10/2/2006	frag	Pass	KC
SEAD-57 Buffer	K18-011	739215.25	1010311.25	26	mV	9/26/2006	26	4	12	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-013	739182.5	1010296.75	36	mV	9/26/2006	36	4	3	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-019	739212.25	1010271	165	mV	9/26/2006	165	4	8	MEC	10/2/2006	37mm profos live	-	
SEAD-57 Buffer	K18-023	739232	1010254	32	mV	9/26/2006	34	4	3	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-024	739261.25	1010272.25	27	mV	9/26/2006	27	4	12	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-032	739334.25	1010252.5	226	mV	9/26/2006	226	4	12	Cultural Debris	9/28/2006		Pass	KC
SEAD-57 Buffer	K18-033	739357.25	1010253.25	831	mV	9/26/2006	831	4	4	Cultural Debris	9/28/2006		Pass	KC
SEAD-57 Buffer	K18-034	739359.25	1010260.75	20	mV	9/26/2006	20	4	24	Munitions Debris	9/28/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-042	739353.25	1010339.5	554	mV	9/26/2006	554	4	4	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-045	739331.75	1010355.25	24	mV	9/26/2006	24	4	24	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-052	739296	1010446.5	16	mV	9/26/2006	16	4	2	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-056	739286.75	1010424	273	mV	9/26/2006	273	4	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-059	739298.5	1010396.25	24	mV	9/26/2006	24	4	18	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-062	739304	1010372	38	mV	9/26/2006	38	4	6	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-063	739283.75	1010335	35	mV	9/26/2006	35	4	3	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-074	739158	1010419	18	mV	9/26/2006	18	4	9	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-075	739145.75	1010400	20	mV	9/26/2006	20	4	6	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	M16-004	739384.25	1010154	51	mV	9/26/2006	51	4	15	Cultural Debris	9/28/2006	Trash	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	M18-001	739411	1010459.75	20	mV	9/26/2006	20	4	9	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	M18-002	739414	1010456.25	17	mV	9/26/2006	17	4	7	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	M18-009	739418	1010256.5	59	mV	9/26/2006	59	4	6	Munitions Debris	9/28/2006	Empty 2.36" motor	Pass	KC
SEAD-57 Buffer	M18-011	739411.5	1010311.5	24	mV	9/26/2006	24	4	10	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	X16-002	737867	1010169.5	56	mV	10/2/2006	58	4	8	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	X16-005	737860	1010072.75	129	mV	10/2/2006	129	4	6	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	X18-001	737869.76	1010292.65	168	mV	10/2/2006	167	4	10	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57	57C14-0028	738169.75	1009753.75	1255	Mv	6/14/2006	1860	3	5	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0033	738220.25	1009759	512	Mv	6/14/2006	205	3	18	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57C14-0043	738198.25	1009753.5	343	Mv	6/14/2006	176	3	8	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0048	738226.5	1009753.25	297	Mv	6/14/2006	145	3	18	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0051	738189.75	1009819.75	244	Mv	6/14/2006	126	3	8	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0054	738092	1009767.25	233	Mv	6/14/2006	120	3	9	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57C14-0056	738248.25	1009807.5	213	Mv	6/14/2006	143	3	18	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0062	738245	1009773.25	191	Mv	6/14/2006	36	3	8	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0064	738175.75	1009772.25	172	Mv	6/14/2006	91	3	14	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0069	738242.25	1009929	150	Mv	6/14/2006	73	3	4	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57C14-0081	738209.5	1009787.75	115	Mv	6/14/2006	88	3	2	Cultural Debris	6/20/2006	Trash	-	-
SEAD-57	57C14-0088	738232.25	1009883.5	105	Mv	6/14/2006	50	3	24	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0095	738220.5	1009850.5	84	Mv	6/14/2006	64	3	4	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57C14-0104	738089.75	1009764.5	68	Mv	6/14/2006	78	3	14	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0106	738230.5	1009756.25	65	Mv	6/14/2006	56	3	1	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0111	738157.75	1009834.25	59	Mv	6/14/2006	15	3	4	Munitions Debris	6/15/2006	Frag	-	-
SEAD-57	57C14-0123	738180	1009798.5	53	Mv	6/14/2006	33	3	8	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0124	738153.25	1009831.25	52	Mv	6/14/2006	19	3	10	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0126	738161	1009826	50	Mv	6/14/2006	28	3	8	Cultural Debris	6/15/2006	Trash	-	-
SEAD-57	57C14-0233	738169.75	1009827	18	Mv	9/11/2006	18	3	4	Munitions Debris	9/21/2006	Frag	Pass	KC
SEAD-57	57E04-0003	738477.928	1008657.708	40	Mv	9/11/2006	40	3	10	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57E04-0006	738489	1008700.75	17	Mv	9/11/2006	17	3	4	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E04-0007	738475.614	1008714.862	13	Mv	9/11/2006	13	3	4	Munitions Debris	9/20/2006	MK25 pieces	-	-
SEAD-57	57E06-0003	738499.25	1008981	353	Mv	6/22/2006	190	3	4	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E06-0005	738467.75	1008963.25	210	Mv	6/22/2006	110	3	2	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E06-0006	738486.25	1008937.25	209	Mv	6/22/2006	96	3	5	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E06-0021	738473.75	1008958.5	37	Mv	9/11/2006	37	3	4	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0031	738496.25	1008998.25	28	Mv	9/11/2006	28	3	6	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0036	738496.526	1008987.221	24	Mv	9/11/2006	24	3	4	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0038	738484.5	1008954	23	Mv	9/11/2006	23	3	6	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E06-0054	738482.25	1008872.75	15	Mv	9/11/2006	15	3	5	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E08-0007	738496	1009082.5	475	Mv	6/22/2006	140	3	2	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0018	738464	1009151.25	314	Mv	6/22/2006	209	3	1	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0031	738495.75	1009005.25	264	Mv	6/22/2006	266	3	8	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0046	738464.5	1009077.5	225	Mv	6/22/2006	152	3	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0049	738476	1009102.25	221	Mv	6/22/2006	99	3	1	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0051	738471.25	1009122.5	220	Mv	6/22/2006	99	3	12	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0055	738487.25	1009127.5	212	Mv	6/22/2006	126	3	6	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0082	738461.5	1009111	182	Mv	6/22/2006	100	3	1	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0087	738490.75	1009037.75	178	Mv	6/22/2006	90	3	1	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0094	738486.25	1009015.75	170	Mv	6/22/2006	84	3	4	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0104	738492	1009121	157	Mv	6/22/2006	99	3	20	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0124	738469.25	1009002.25	142	Mv	6/22/2006	129	3	6	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0132	738461.5	1009019.5	132	Mv	6/22/2006	108	3	4	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0138	738486.25	1009069.25	128	Mv	6/22/2006	79	3	2	Munitions Debris	6/26/2006	Frag	-	-
SEAD-57	57E08-0144	738485	1009097	120	Mv	6/22/2006	101	3	6	Munitions Debris	6/26/2006	Frag	-	-

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57E08-0146	738468.75	1009064.5	118	Mv	6/22/2006	100	3	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0163	738482.25	1009088.75	87	Mv	6/22/2006	74	3	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0165	738485	1009112.5	85	Mv	6/22/2006	107	3	3	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0168	738496.25	1009075.5	80	Mv	6/22/2006	107	3	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0187	738480.5	1009062.75	52	Mv	6/22/2006	36	3	1	Cultural Debris	6/26/2006	Trash	-	
SEAD-57	57E08-0192	738475.25	1009195.5	47	Mv	9/11/2006	47	3	4	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E08-0196	738465	1009195.5	41	Mv	9/11/2006	41	3	3	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E08-0210	738477.5	1009131.25	28	Mv	9/11/2006	28	3	4	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E08-0225	738454.75	1009091.5	18	Mv	9/11/2006	18	3	6	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E08-0248	738456.25	1009150	12	Mv	9/11/2006	12	3	3	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57E10-0003	738469.5	1009286.75	701	Mv	6/27/2006	200	3	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0007	738477.5	1009357.75	362	Mv	6/28/2006	322	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0011	738480.75	1009338.5	315	Mv	6/28/2006	92	3	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0012	738471.5	1009311.25	314	Mv	6/27/2006	130	3	5	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0015	738497.25	1009484	296	Mv	6/27/2006	154	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0018	738488.25	1009480.5	282	Mv	6/27/2006	185	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0019	738476.25	1009454	278	Mv	6/27/2006	177	3	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0021	738460.25	1009440	269	Mv	6/27/2006	124	3	1	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0025	738458.25	1009303.5	255	Mv	6/27/2006	130	3	12	Munitions Debris	6/28/2006	Frag	Pass	KC
SEAD-57	57E10-0032	738460.75	1009412.5	232	Mv	6/27/2006	89	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0033	738458.25	1009411.25	231	Mv	6/27/2006	139	3	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0034	738475	1009306.25	228	Mv	6/22/2006	137	3	0	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0035	738487	1009252.25	228	Mv	6/27/2006	135	3	6	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0036	738487.5	1009496.5	227	Mv	6/27/2006	126	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0044	738456.25	1009407.75	205	Mv	6/27/2006	156	3	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0045	738495.5	1009442	205	Mv	6/27/2006	80	3	1	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0050	738453	1009379	203	Mv	6/28/2006	74	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0053	738463.25	1009426.5	202	Mv	6/27/2006	104	3	2	Munitions Debris	6/28/2006	Frag	Pass	KC
SEAD-57	57E10-0056	738477.75	1009465.75	200	Mv	6/27/2006	100	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0058	738470.5	1009453	199	Mv	6/27/2006	111	3	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0065	738487.75	1009412.75	192	Mv	6/28/2006	96	3	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0066	738498.25	1009482	189	Mv	6/27/2006	130	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0069	738455	1009485	186	Mv	6/27/2006	77	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0070	738499.75	1009487	185	Mv	6/27/2006	98	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0071	738499.963	1009321.496	185	Mv	6/28/2006	105	3	6	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0072	738484	1009484	184	Mv	6/27/2006	103	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0073	738483.75	1009420.75	184	Mv	6/28/2006	132	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0074	738457.5	1009366.25	183	Mv	6/28/2006	88	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0081	738498	1009348.5	174	Mv	6/28/2006	70	3	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0082	738461	1009395.75	173	Mv	6/27/2006	139	3	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0083	738482.5	1009366.5	173	Mv	6/28/2006	76	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0084	738467.5	1009258.5	173	Mv	7/5/2006	173	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0085	738460	1009470.25	172	Mv	6/27/2006	91	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0086	738495.25	1009454.75	172	Mv	6/27/2006	76	3	1	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0087	738468.25	1009462.25	171	Mv	6/27/2006	87	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0090	738485.25	1009333.75	169	Mv	6/28/2006	120	3	6	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0091	738494	1009304.5	166	Mv	6/27/2006	115	3	2	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0101	738442	1009496.25	159	Mv	6/27/2006	73	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0112	738480.25	1009478.5	153	Mv	6/27/2006	96	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0113	738490.25	1009423.5	153	Mv	6/28/2006	110	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0117	738455.75	1009325.75	148	Mv	6/28/2006	117	3	4	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0120	738468.5	1009446.5	147	Mv	7/5/2006	147	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0124	738452.75	1009424.5	144	Mv	6/28/2006	70	3	0	Munitions Debris	6/28/2006	Alum MD	-	

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57E10-0127	738479.25	1009284.25	144	Mv	6/22/2006	96	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0128	738481.75	1009321.25	142	Mv	6/27/2006	75	3	3	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57E10-0134	738475.75	1009345	137	Mv	6/27/2006	84	3	6	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0136	738440.461	1009401.724	136	Mv	6/27/2006	40	3	2	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0145	738490.5	1009477.75	131	Mv	6/27/2006	105	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0152	738454	1009317.25	122	Mv	6/28/2006	111	3	6	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0153	738496	1009418	122	Mv	6/28/2006	83	3	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0160	738493.25	1009324	118	Mv	6/28/2006	70	3	2	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0163	738457.5	1009382	118	Mv	6/27/2006	88	3	2	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0164	738483	1009385.75	116	Mv	6/28/2006	89	3	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0169	738456.25	1009350.25	111	Mv	6/28/2006	94	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0171	738487.5	1009466.25	110	Mv	6/27/2006	91	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0173	738492	1009280.25	109	Mv	6/27/2006	119	3	3	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0174	738492	1009338.25	109	Mv	6/28/2006	147	3	2	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0175	738450.5	1009386.75	108	Mv	6/27/2006	45	3	3	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0176	738448.25	1009396	107	Mv	6/27/2006	74	3	2	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0178	738477.25	1009272.25	106	Mv	6/22/2006	101	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0180	738477.75	1009329.75	105	Mv	6/27/2006	81	3	8	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57E10-0186	738472.75	1009445	103	Mv	6/27/2006	118	3	1	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0188	738493.75	1009261.25	102	Mv	6/22/2006	94	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0189	738487.5	1009300.75	102	Mv	6/27/2006	98	3	4	Munitions Debris	6/27/2006	Alum MD 3"	-	
SEAD-57	57E10-0193	738483.25	1009269.25	100	Mv	6/22/2006	82	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0202	738474.5	1009389.5	92	Mv	6/28/2006	94	3	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0203	738498.5	1009430.75	90	Mv	6/28/2006	69	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0205	738459.5	1009290.75	88	Mv	6/27/2006	90	3	2	Munitions Debris	6/27/2006	Alum MD 3"	-	
SEAD-57	57E10-0206	738459.25	1009285.5	88	Mv	6/27/2006	66	3	2	Munitions Debris	6/27/2006	Alum MD 3"	-	
SEAD-57	57E10-0210	738466.25	1009402.5	87	Mv	6/27/2006	60	3	3	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0213	738472.5	1009470.25	87	Mv	6/27/2006	100	3	0	Cultural Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0214	738493	1009365.25	86	Mv	6/28/2006	83	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0216	738478.25	1009326.25	85	Mv	6/27/2006	70	3	3	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0217	738482.75	1009252.75	85	Mv	7/5/2006	85	3	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0218	738451.5	1009395.5	84	Mv	6/27/2006	20	3	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0221	738497.75	1009375.25	80	Mv	6/28/2006	124	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0222	738446.25	1009461.75	80	Mv	6/27/2006	90	3	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0223	738497	1009337	80	Mv	6/28/2006	45	3	5	Munitions Debris	7/17/2006	Alum MD	-	
SEAD-57	57E10-0224	738468.25	1009449.75	79	Mv	6/27/2006	80	3	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0226	738497	1009297.5	79	Mv	6/27/2006	69	3	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0230	738476.5	1009301.5	73	Mv	6/22/2006	79	3	0	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E10-0233	738440.316	1009440.793	69	Mv	6/27/2006	93	3	0	Munitions Debris	6/28/2006	Frag	Pass	KC
SEAD-57	57E10-0237	738452.75	1009256.75	62	Mv	6/27/2006	82	3	0	Munitions Debris	6/27/2006	Alum	-	
SEAD-57	57E10-0239	738469.5	1009356.75	61	Mv	6/27/2006	24	3	0	Munitions Debris	6/28/2006	Alum MD	-	
SEAD-57	57E10-0243	738498.24	1009269.08	51	Mv	6/27/2006	110	3	5	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57E10-0284	738487.25	1009368.25	23	Mv	9/11/2006	23	3	8	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57E12-0002	738458.5	1009706.25	959	Mv	6/29/2006	350	3	8	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0009	738494.5	1009502.5	430	Mv	7/5/2006	180	3	2	Cultural Debris	7/7/2006	Trash	-	
SEAD-57	57E12-0010	738470	1009584.75	332	Mv	7/5/2006	95	3	4	Munitions Debris	7/7/2006	Multiple digs/pieces + frag	Pass	KC
SEAD-57	57E12-0021	738495.25	1009537.25	251	Mv	7/5/2006	120	3	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0024	738489.5	1009531.75	240	Mv	7/5/2006	125	3	2	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0025	738479.75	1009525	240	Mv	7/5/2006	90	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0032	738478.5	1009505.75	219	Mv	7/5/2006	105	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0033	738441	1009675.75	217	Mv	6/29/2006	110	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0034	738470	1009659.5	217	Mv	6/29/2006	105	3	5	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0035	738461.25	1009557.25	217	Mv	7/5/2006	85	3	2	Munitions Debris	7/7/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E12-0039	738476.25	1009617.5	201	Mv	7/5/2006	90	3	1	Munitions Debris	7/7/2006	Multiple digs / pieces	Pass	KC
SEAD-57	57E12-0042	738498	1009510.25	185	Mv	7/5/2006	85	3	4	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0044	738476.5	1009625.5	183	Mv	6/29/2006	80	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0049	738496.25	1009570.75	176	Mv	7/5/2006	85	3	4	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0050	738463.25	1009624.5	175	Mv	6/29/2006	90	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0052	738494	1009531	159	Mv	7/5/2006	95	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0063	738461.5	1009620.5	143	Mv	7/5/2006	95	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0068	738499.25	1009516.5	138	Mv	7/5/2006	55	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0070	738497.75	1009556.75	137	Mv	7/5/2006	70	3	4	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0071	738437.25	1009562	136	Mv	7/5/2006	70	3	5	Munitions Debris	7/7/2006	Multiple digs/pieces	-	-
SEAD-57	57E12-0076	738453.25	1009550.5	124	Mv	7/5/2006	60	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0082	738469.25	1009566.5	120	Mv	7/5/2006	100	3	4	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0083	738452.75	1009609.25	120	Mv	7/5/2006	80	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0089	738458.25	1009542	111	Mv	7/5/2006	100	3	7	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0091	738387.75	1009745.25	107	Mv	6/29/2006	45	3	4	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0094	738488.75	1009655.25	98	Mv	6/29/2006	70	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0098	738485.5	1009729.25	88	Mv	6/29/2006	60	3	6	Cultural Debris	7/7/2006	Trash	-	-
SEAD-57	57E12-0099	738488.397	1009665.513	87	Mv	6/29/2006	55	3	10	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0101	738477.25	1009701.75	86	Mv	6/29/2006	35	3	4	Cultural Debris	7/7/2006	Trash	-	-
SEAD-57	57E12-0102	738465.5	1009674.5	86	Mv	6/29/2006	35	3	2	Munitions Debris	7/7/2006	Multiple digs / pieces	-	-
SEAD-57	57E12-0103	738486.25	1009587	85	Mv	7/5/2006	55	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0107	738471	1009503	81	Mv	7/5/2006	90	3	3	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0109	738452.5	1009699.25	77	Mv	6/29/2006	90	3	4	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0112	738443.25	1009620.25	74	Mv	6/29/2006	30	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0117	738492.25	1009709.25	68	Mv	6/28/2006	70	3	7	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0118	738483.75	1009693.5	67	Mv	6/29/2006	30	3	4	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0126	738455.5	1009589.25	54	Mv	7/5/2006	25	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0130	738463.25	1009723.75	53	Mv	6/28/2006	30	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0167	738467	1009680.5	30	Mv	9/11/2006	30	3	16	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57E12-0191	738428.25	1009706	24	Mv	9/11/2006	24	3	8	Munitions Debris	9/20/2006	Frag	-	-
SEAD-57	57E12-0258	738429	1009709.5	15	Mv	9/11/2006	15	3	16	Munitions Debris	9/20/2006	Frag	-	-
SEAD-57	57E14-0001	738460.75	1009825.75	547411	Mv	6/28/2006	15	3	24	Munitions Debris	6/29/2006	Small Arms, 5.56 brass	-	-
SEAD-57	57E14-0002	738303	1009892.5	5812	Mv	6/22/2006	3400	3	0	Cultural Debris	7/19/2006	Fence post 72" long	-	-
SEAD-57	57E14-0036	738319	1009998.25	417	Mv	6/28/2006	165	3	2	Cultural Debris	6/29/2006	Trash	-	-
SEAD-57	57E14-0038	738327.25	1009759	390	Mv	6/28/2006	300	3	3	Cultural Debris	6/29/2006	Trash	-	-
SEAD-57	57E14-0041	738431.5	1009833.75	366	Mv	6/22/2006	190	3	0	Cultural Debris	7/19/2006	Scrap metal	-	-
SEAD-57	57E14-0044	738330.25	1009758.5	335	Mv	6/28/2006	200	3	5	Cultural Debris	6/29/2006	Trash	-	-
SEAD-57	57E14-0046	738317.75	1009937.5	317	Mv	6/28/2006	200	3	1	Munitions Debris	6/29/2006	Frag	-	-
SEAD-57	57E14-0048	738315.25	1009912	306	Mv	6/28/2006	150	3	2	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0051	738316.5	1009999.25	286	Mv	6/28/2006	150	3	1	Cultural Debris	6/29/2006	Trash	-	-
SEAD-57	57E14-0052	738469.75	1009821.75	277	Mv	6/28/2006	140	3	8	Munitions Debris	6/29/2006	Frag	-	-
SEAD-57	57E14-0054	738421.75	1009753	268	Mv	7/5/2006	268	3	8	Cultural Debris	7/19/2006	Steel scrap	-	-
SEAD-57	57E14-0059	738414	1009895.75	242	Mv	6/21/2006	105	3	8	Munitions Debris	6/27/2006	2.36 w/h wp	-	-
SEAD-57	57E14-0060	738354.75	1009910.5	239	Mv	7/19/2006	239	3	0	Cultural Debris	10/24/2006	Scrap metal	-	-
SEAD-57	57E14-0061	738264.75	1009969.75	232	Mv	6/28/2006	80	3	3	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0068	738422	1009855.5	226	Mv	6/21/2006	90	3	2	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57E14-0073	738276	1009938.75	210	Mv	6/28/2006	115	3	2	Munitions Debris	6/29/2006	Frag	-	-
SEAD-57	57E14-0075	738402	1009755.25	201	Mv	7/5/2006	201	3	6	Cultural Debris	7/19/2006	Steel scrap	-	-
SEAD-57	57E14-0077	738310.5	1009882.5	194	Mv	6/22/2006	120	3	0	Munitions Debris	7/19/2006	Alum MD	-	-
SEAD-57	57E14-0084	738438.5	1009918.25	163	Mv	6/21/2006	80	3	6	Cultural Debris	6/27/2006	Trash	-	-
SEAD-57	57E14-0086	738472.5	1009984.5	157	Mv	6/28/2006	50	3	1	Cultural Debris	6/29/2006	Trash	-	-
SEAD-57	57E14-0088	738341.25	1009919.5	155	Mv	6/22/2006	80	3	0	Cultural Debris	7/19/2006	Scrap metal	-	-
SEAD-57	57E14-0096	738269	1009950.5	122	Mv	6/28/2006	30	3	2	Cultural Debris	6/29/2006	Trash	-	-

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57E14-0100	738300.75	1009818.25	116	Mv	6/28/2006	50	3	5	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0113	738285.5	1009889	104	Mv	6/22/2006	52	3	0	Munitions Debris	7/19/2006	Alum MD	Pass	KC
SEAD-57	57E14-0114	738311	1009856.75	103	Mv	6/28/2006	25	3	1	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0117	738271.5	1009883.25	101	Mv	6/28/2006	50	3	1	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0119	738492.5	1009838	98	Mv	6/28/2006	55	3	10	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0122	738406.75	1009752.25	94	Mv	7/5/2006	94	3	10	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E14-0130	738344.25	1009865.25	85	Mv	6/28/2006	30	3	0	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0147	738350.5	1009784.75	72	Mv	7/5/2006	72	3	18	Hot Soil	7/19/2006	Hot rock	-	
SEAD-57	57E14-0148	738417.25	1009956	72	Mv	6/22/2006	20	3	12	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0149	738311	1009991.5	71	Mv	6/28/2006	25	3	1	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0150	738484.75	1009996.25	71	Mv	6/28/2006	35	3	3	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0157	738467.75	1009985.75	68	Mv	6/28/2006	30	3	2	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0158	738485	1009943.25	67	Mv	6/28/2006	35	3	10	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0160	738469.25	1009751.75	67	Mv	7/5/2006	67	3	4	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0162	738326.75	1009847.25	67	Mv	6/28/2006	30	3	2	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0166	738421.75	1009846.75	65	Mv	6/22/2006	30	3	12	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0172	738403.25	1009980	61	Mv	6/22/2006	25	3	6	Munitions Debris	7/19/2006	Alum MD	Pass	KC
SEAD-57	57E14-0173	738313.5	1009997	60	Mv	6/28/2006	120	3	1	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0174	738288	1009841.25	60	Mv	6/28/2006	17	3	0	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0178	738300.5	1009913.75	58	Mv	6/28/2006	20	3	2	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0179	738335.25	1009963.25	58	Mv	6/22/2006	20	3	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57E14-0181	738464.75	1009964	57	Mv	6/28/2006	35	3	4	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0191	738351.75	1009986	55	Mv	6/22/2006	95	3	0	Cultural Debris	7/19/2006	Nails	-	
SEAD-57	57E14-0200	738414.75	1009784	53	Mv	7/5/2006	53	3	10	Cultural Debris	7/19/2006	Alum scrap	Pass	KC
SEAD-57	57E14-0273	738356	1009804	39	Mv	9/11/2006	39	3	6	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57E14-0302	738430.25	1009767.75	35	Mv	9/11/2006	35	3	4	Cultural Debris	9/20/2006		-	
SEAD-57	57E16-0002	738491.5	1010047	467	Mv	6/21/2006	60	3	1	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57E16-0004	738466.5	1010050.25	228	Mv	6/21/2006	70	3	4	Cultural Debris	6/22/2006	Trash	Pass	KC
SEAD-57	57E16-0007	738466.75	1010040.75	174	Mv	6/21/2006	60	3	2	Cultural Debris	6/22/2006	Trash	Pass	KC
SEAD-57	57E16-0008	738490.75	1010051	171	Mv	6/21/2006	100	3	1	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57E16-0010	738490.25	1010020.5	121	Mv	6/21/2006	115	3	2	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57E16-0011	738469.5	1010041.75	120	Mv	6/21/2006	27	3	3	Cultural Debris	6/22/2006	Trash	Pass	KC
SEAD-57	57E16-0012	738497.75	1010005.5	100	Mv	6/21/2006	27	3	2	Munitions Debris	6/22/2006	Frag	Pass	KC
SEAD-57	57E16-0021	738499.669	1010034.522	37	Mv	9/11/2006	37	3	8	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57E16-0032	738358	1010011.75	20	Mv	9/11/2006	20	3	4	Munitions Debris	9/21/2006	Frag	Pass	KC
SEAD-57	57E16-0039	738459.25	1010031.5	16	Mv	9/11/2006	16	3	24	Munitions Debris	9/25/2006	Frag	Pass	KC
SEAD-57	57E16-0055	738432.75	1010039.5	12	Mv	9/11/2006	12	3	20	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57G04-0011	738637	1008746.75	350	Mv	6/20/2006	190	3	6	Cultural Debris	6/20/2006	Steel scrap. Anomalies G04-0011 and G04-0032 are the same item.	-	
SEAD-57	57G04-0016	738678.5	1008681.25	265	Mv	6/20/2006	130	3	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0018	738734.75	1008661.5	248	Mv	6/20/2006	150	3	24	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0020	738737.75	1008649.5	246	Mv	6/20/2006	100	3	6	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0022	738679.5	1008724.75	214	Mv	6/20/2006	180	3	2	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0025	738735.25	1008627.5	205	Mv	6/20/2006	160	3	8	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0031	738726	1008744.25	191	Mv	6/20/2006	180	3	14	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0032	738635.25	1008749.25	190	Mv	6/20/2006	140	3	7	Cultural Debris	6/20/2006	Steel scrap. Anomalies G04-0011 and G04-0032 are the same item.	-	
SEAD-57	57G04-0034	738698.75	1008661	184	Mv	6/20/2006	115	3	4	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0046	738684	1008654.25	164	Mv	6/20/2006	95	3	3	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0047	738632.75	1008741.75	161	Mv	6/20/2006	85	3	5	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0052	738675	1008655	153	Mv	6/20/2006	70	3	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0053	738748.75	1008620.5	153	Mv	6/20/2006	80	3	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0055	738668.5	1008620.25	146	Mv	6/20/2006	120	3	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0060	738677	1008694.25	133	Mv	6/20/2006	90	3	0	Cultural Debris	10/24/2006	Tent stake	-	
SEAD-57	57G04-0064	738737.25	1008621	130	Mv	6/20/2006	120	3	20	Munitions Debris	6/21/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G04-0069	738735.75	1008696	125	Mv	6/20/2006	160	3	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0072	738750	1008623.25	121	Mv	6/20/2006	75	3	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0077	738671.25	1008628.75	118	Mv	6/20/2006	65	3	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0078	738717.5	1008602.25	118	Mv	6/20/2006	70	3	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0082	738669.75	1008623.75	112	Mv	6/20/2006	45	3	0	Munitions Debris	6/21/2006	Frag	Pass	KC
SEAD-57	57G04-0089	738698.5	1008621.75	106	Mv	6/20/2006	90	3	5	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0091	738722.5	1008610.25	105	Mv	6/20/2006	105	3	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0094	738745.75	1008722.75	103	Mv	6/20/2006	45	3	10	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0102	738516	1008703.75	99	Mv	6/20/2006	65	3	4	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0103	738748.75	1008707.5	96	Mv	6/20/2006	90	3	6	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0111	738742.25	1008621.25	89	Mv	6/20/2006	45	3	12	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0128	738725	1008616.5	76	Mv	6/20/2006	110	3	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0131	738731.75	1008616.25	75	Mv	6/20/2006	85	3	10	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0132	738695.25	1008657.125	75	Mv	6/20/2006	75	3	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0142	738672	1008606	65	Mv	6/20/2006	25	3	0	Cultural Debris	6/20/2006	Alum	-	
SEAD-57	57G04-0148	738606.25	1008691	61	Mv	6/20/2006	25	3	2	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0150	738653.5	1008687.25	59	Mv	6/20/2006	240	3	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0153	738644.75	1008615.5	57	Mv	6/20/2006	33	3	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0162	738748.5	1008634.5	51	Mv	6/20/2006	45	3	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0165	738710.75	1008621.75	50	Mv	6/20/2006	55	3	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0185	738722	1008645.25	44	Mv	9/11/2006	44	3	6	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57G14-0016	738579.5	1009983	4192	Mv	6/13/2006	80	3	2	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0029	738600.75	1009834.5	1882	Mv	6/13/2006	768	3	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0035	738597	1009969.25	1688	Mv	7/11/2006	666	3	2	Cultural Debris	7/12/2006	Wire	-	
SEAD-57	57G14-0039	738669.25	1009836.5	1539	Mv	6/13/2006	235	3	6	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0058	738748.975	1009777.592	895	Mv	6/14/2006	600	3	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0063	738599.25	1009984	850	Mv	7/11/2006	326	3	2	Cultural Debris	7/12/2006	cable	-	
SEAD-57	57G14-0069	738509	1009866	686	Mv	6/13/2006	410	3	8	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0071	738670.5	1009977.75	666	Mv	7/11/2006	66	3	2	Cultural Debris	7/12/2006	Bolt	-	
SEAD-57	57G14-0074	738650.5	1009990.5	600	Mv	7/11/2006	60	3	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57G14-0084	738731.5	1009820	549	Mv	6/12/2006	400	3	2	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0087	738522.25	1009832.25	529	Mv	6/13/2006	640	3	4	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0089	738681	1009755	519	Mv	6/14/2006	360	3	4	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0090	738639.25	1009759.25	512	Mv	6/13/2006	325	3	10	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0093	738724	1009984	482	Mv	6/14/2006	131	3	15	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0100	738670	1009760.25	457	Mv	6/14/2006	223	3	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0102	738653.5	1009846.25	451	Mv	6/13/2006	245	3	2	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0104	738685.5	1009789	434	Mv	6/13/2006	118	3	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0119	738588.75	1009960.25	369	Mv	6/13/2006	246	3	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0120	738531.5	1009943.75	366	Mv	6/13/2006	68	3	4	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0121	738595.25	1009755.5	352	Mv	6/21/2006	170	3	20	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57G14-0125	738683.25	1009763	329	Mv	6/13/2006	183	3	2	Munitions Debris	6/20/2006	frag	-	
SEAD-57	57G14-0126	738715	1009762.25	327	Mv	6/13/2006	105	3	2	Munitions Debris	6/19/2006	Frag	Pass	KC
SEAD-57	57G14-0128	738570	1009998.25	316	Mv	6/13/2006	110	3	3	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0137	738503.25	1009941	285	Mv	6/13/2006	132	3	5	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0143	738710.25	1009857.25	281	Mv	6/13/2006	128	3	5	Munitions Debris	6/20/2006	frag	Pass	KC
SEAD-57	57G14-0144	738517.666	1009932.161	278	Mv	6/13/2006	60	3	5	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0146	738538	1009992	276	Mv	6/13/2006	124	3	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0150	738530.5	1009940.25	267	Mv	6/13/2006	69	3	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0152	738499.886	1009987.499	264	Mv	7/11/2006	123	3	2	Cultural Debris	7/12/2006	metal rod 3' long	-	
SEAD-57	57G14-0156	738663.937	1009765.492	255	Mv	6/14/2006	152	3	2	Munitions Debris	6/20/2006	Frag	Pass	KC
SEAD-57	57G14-0157	738626.25	1009763	255	Mv	6/13/2006	181	3	12	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0161	738661	1009826	249	Mv	6/13/2006	105	3	2	Munitions Debris	6/20/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	DIG RESULTS	QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Location (ft) Northing (Y)	Amp ²	Amp Unit	Date	Amp								
SEAD-57	57G14-0164	738710.607	1009756.92	248	Mv	6/13/2006	75	3	3	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0174	738604.75	1009891	216	Mv	6/13/2006	165	3	3	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0175	738660	1009761.75	215	Mv	6/14/2006	120	3	6	Munitions Debris	6/20/2006	Frag	-		
SEAD-57	57G14-0178	738515.25	1009933.75	214	Mv	6/13/2006	102	3	2	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0185	738610.75	1009760	203	Mv	6/13/2006	125	3	8	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0191	738741.372	1009949.689	198	Mv	6/14/2006	171	3	8	Munitions Debris	6/19/2006	frag	-		
SEAD-57	57G14-0192	738712.25	1009751.5	196	Mv	6/13/2006	102	3	2	Munitions Debris	6/19/2006	Frag	Pass	KC	
SEAD-57	57G14-0205	738527.75	1009983.25	182	Mv	6/13/2006	89	3	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57G14-0211	738606.5	1009993.75	174	Mv	7/11/2006	89	3	2	Cultural Debris	7/12/2006	Cable	-		
SEAD-57	57G14-0213	738515.75	1009954.25	173	Mv	6/13/2006	86	3	1	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57G14-0214	738725	1009956	171	Mv	6/14/2006	97	3	1	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0215	738608.5	1009992.75	171	Mv	7/11/2006	72	3	2	Cultural Debris	7/12/2006	Cable	-		
SEAD-57	57G14-0217	738728	1009881	167	Mv	6/13/2006	156	3	14	Munitions Debris	6/20/2006	Frag	-		
SEAD-57	57G14-0219	738583.25	1009824	163	Mv	6/13/2006	71	3	1	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0221	738512.244	1009933.04	162	Mv	6/13/2006	77	3	2	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0225	738572.75	1009957.5	158	Mv	6/13/2006	100	3	8	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0227	738554	1009929.25	157	Mv	6/13/2006	170	3	3	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0228	738561	1009818.5	156	Mv	6/21/2006	100	3	2	Munitions Debris	6/22/2006	Frag	Pass	KC	
SEAD-57	57G14-0232	738549.5	1009814.25	149	Mv	6/21/2006	120	3	2	Munitions Debris	6/22/2006	Frag	Pass	KC	
SEAD-57	57G14-0234	738520.75	1009765.25	146	Mv	6/14/2006	74	3	4	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0235	738580	1009789.25	146	Mv	6/13/2006	110	3	6	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0242	738654	1009771.5	141	Mv	6/14/2006	122	3	8	Munitions Debris	6/20/2006	Frag	Pass	KC	
SEAD-57	57G14-0245	738588.25	1009765.75	138	Mv	6/14/2006	55	3	5	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0250	738589.87	1009777.947	134	Mv	6/21/2006	50	3	8	Munitions Debris	7/19/2006	Steel scrap Frag	-		
SEAD-57	57G14-0251	738522.25	1009935.25	133	Mv	6/13/2006	43	3	4	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0254	738614	1009761.5	132	Mv	6/13/2006	112	3	8	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0256	738510	1009920.75	127	Mv	6/13/2006	17	3	2	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0258	738646.75	1009758.75	126	Mv	6/13/2006	102	3	4	Munitions Debris	6/20/2006	Frag	-		
SEAD-57	57G14-0261	738720.5	1009766.75	123	Mv	6/13/2006	140	3	5	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0266	738714.75	1009765.75	117	Mv	6/13/2006	55	3	2	Cultural Debris	6/19/2006	Trash	Pass	KC	
SEAD-57	57G14-0271	738514.882	1009937.217	112	Mv	6/13/2006	81	3	8	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0272	738675.25	1009840.25	112	Mv	6/13/2006	113	3	1	Munitions Debris	6/20/2006	Frag	Pass	KC	
SEAD-57	57G14-0276	738598.75	1009818.75	110	Mv	6/13/2006	70	3	1	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0279	738505.75	1009813	109	Mv	6/13/2006	35	3	5	Cultural Debris	6/20/2006	Trash	Pass	KC	
SEAD-57	57G14-0281	738702	1009787.75	105	Mv	6/13/2006	136	3	8	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G14-0284	738560.75	1009927	104	Mv	6/13/2006	180	3	8	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0286	738687.75	1009755.75	101	Mv	6/14/2006	55	3	1	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0290	738587	1009975.25	98	Mv	7/11/2006	70	3	10	Munitions Debris	7/12/2006	Frag	-		
SEAD-57	57G14-0291	738666.75	1009994.75	98	Mv	7/11/2006	50	3	2	Cultural Debris	7/12/2006	Wire	-		
SEAD-57	57G14-0298	738613.5	1009949.5	94	Mv	7/11/2006	52	3	20	Cultural Debris	7/12/2006	Trash	-		
SEAD-57	57G14-0301	738596.25	1009790.75	93	Mv	6/13/2006	58	3	24	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0309	738680.5	1009784.25	92	Mv	6/13/2006	95	3	2	Munitions Debris	6/20/2006	Frag	-		
SEAD-57	57G14-0311	738541.75	1009935.5	90	Mv	6/13/2006	36	3	10	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0317	738597.75	1009786.75	86	Mv	6/13/2006	59	3	8	Munitions Debris	6/19/2006	Frag	-		
SEAD-57	57G14-0318	738532.25	1009953	86	Mv	6/13/2006	67	3	3	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0320	738689.75	1009801.75	85	Mv	6/13/2006	30	3	2	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G14-0330	738585.5	1009849.5	80	Mv	6/13/2006	30	3	8	Cultural Debris	6/19/2006	Trash	-		
SEAD-57	57G14-0333	738622.693	1009796.557	78	Mv	6/13/2006	25	3	12	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G14-0334	738697.125	1009772.125	78	Mv	6/13/2006	114	3	4	Munitions Debris	6/20/2006	Frag	Pass	KC	
SEAD-57	57G14-0339	738746.75	1009824	75	Mv	6/12/2006	51	3	4	Munitions Debris	6/15/2006	Frag	-		
SEAD-57	57G14-0359	738626	1009840.25	70	Mv	6/13/2006	41	3	0	Munitions Debris	10/24/2006	Small Arms, casing	-		
SEAD-57	57G14-0361	738670.5	1009776.5	69	Mv	6/13/2006	30	3	3	Cultural Debris	6/20/2006	Trash	-		
SEAD-57	57G14-0363	738644	1009865.25	68	Mv	6/13/2006	23	3	4	Cultural Debris	6/20/2006	Trash	-		

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57G14-0366	738576.75	1009775.75	68	Mv	6/13/2006	65	3	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0374	738743.75	1009837.5	66	Mv	6/13/2006	34	3	12	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0379	738525	1009987.5	63	Mv	6/13/2006	39	3	3	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0382	738697.5	1009790.75	63	Mv	6/13/2006	102	3	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0383	738730.25	1009870.5	63	Mv	6/13/2006	60	3	10	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0386	738517.5	1009917.5	62	Mv	6/13/2006	41	3	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0393	738512.75	1009925.5	61	Mv	6/13/2006	37	3	5	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0396	738511.5	1009942.75	61	Mv	6/13/2006	111	3	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0398	738539.5	1009930.75	60	Mv	6/13/2006	80	3	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0399	738704	1009760.75	60	Mv	6/14/2006	17	3	2	Munitions Debris	6/20/2006	Frag	Pass	KC
SEAD-57	57G14-0400	738710.5	1009869.5	60	Mv	6/13/2006	37	3	6	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0407	738658.25	1009859.75	58	Mv	6/13/2006	25	3	24	Munitions Debris	6/20/2006	Small Arms, .50 cal	-	
SEAD-57	57G14-0409	738649	1009792.75	57	Mv	6/13/2006	36	3	8	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0413	738663.25	1009756	55	Mv	6/14/2006	22	3	6	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0417	738725.5	1009860	54	Mv	6/13/2006	33	3	12	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0419	738573.5	1009933.5	54	Mv	6/13/2006	39	3	7	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0421	738576.25	1009949	54	Mv	6/13/2006	20	3	3	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0429	738502.75	1009810.75	52	Mv	6/13/2006	34	3	8	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0431	738564.25	1009961.75	52	Mv	6/13/2006	33	3	2	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0432	738594	1009774.25	51	Mv	6/21/2006	30	3	7	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57G14-0433	738720.75	1009856	51	Mv	6/13/2006	28	3	6	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0435	738734.75	1009839.25	51	Mv	6/13/2006	35	3	14	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0553	738711.75	1009812	33	Mv	9/11/2006	33	3	10	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57G14-0563	738518.618	1009906.372	32	Mv	9/11/2006	32	3	5	Cultural Debris	9/25/2006		Pass	KC
SEAD-57	57G14-0733	738681.75	1009930.5	20	Mv	9/11/2006	20	3	24	Cultural Debris	9/25/2006		-	
SEAD-57	57G16-0004	738606.25	1010053.5	6321	Mv	6/12/2006	2470	3	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57G16-0008	738727.25	1010098.5	2357	Mv	6/12/2006	716	3	2	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0010	738603.25	1010096.5	1757	Mv	6/12/2006	315	3	0	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0017	738628.25	1010050.75	1082	Mv	6/12/2006	350	3	1	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0020	738622.75	1010028.5	995	Mv	6/12/2006	76	3	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0021	738729	1010124.75	972	Mv	6/12/2006	332	3	4	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0022	738593.75	1010014	922	Mv	6/12/2006	563	3	0	MPPEH	6/15/2006	Blu-3	-	
SEAD-57	57G16-0026	738733.25	1010131.25	763	Mv	6/12/2006	238	3	4	Munitions Debris	6/14/2006	2.36rkt whd	Pass	KC
SEAD-57	57G16-0028	738603.305	1010080.85	485	Mv	6/12/2006	360	3	2	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0030	738596.875	1010054.125	441	Mv	6/12/2006	136	3	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0033	738575	1010027.25	387	Mv	6/12/2006	151	3	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0047	738657.5	1010120.5	217	Mv	6/12/2006	88	3	2	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0048	738639.25	1010016.25	213	Mv	6/12/2006	95	3	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0049	738589.75	1010077	209	Mv	6/12/2006	45	3	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57G16-0058	738587.25	1010023.5	166	Mv	6/12/2006	45	3	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0066	738591.25	1010009	141	Mv	6/12/2006	59	3	0	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0076	738666.25	1010129	109	Mv	6/12/2006	20	3	24	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0077	738503.5	1010036.75	104	Mv	6/12/2006	34	3	6	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0079	738604.75	1010040.75	103	Mv	6/12/2006	38	3	2	MPPEH	6/15/2006	adams trng (WAAMP BLU 54)	Pass	KC
SEAD-57	57G16-0086	738662.75	1010061	86	Mv	6/12/2006	30	3	1	MPPEH	6/14/2006	BLU 63 and 20mm	-	
SEAD-57	57G16-0091	738644.75	1010007.5	70	Mv	6/12/2006	162	3	2	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0097	738659.75	1010080.5	66	Mv	6/12/2006	24	3	3	Munitions Debris	6/14/2006	Frag	Pass	KC
SEAD-57	57G16-0103	738599.5	1010043.75	62	Mv	6/12/2006	25	3	2	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0104	738737	1010068.25	61	Mv	6/12/2006	10	3	3	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0110	738525	1010028.75	55	Mv	6/12/2006	23	3	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0111	738645.25	1010002.5	54	Mv	6/12/2006	10	3	2	Munitions Debris	6/14/2006	Frag	Pass	KC
SEAD-57	57G16-0113	738672.5	1010007.125	51	Mv	6/12/2006	21	3	2	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0120	738540.5	1010083	46	Mv	9/11/2006	46	3	6	Munitions Debris	9/25/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Item Description		
		Easting (X)	Northing (Y)												
SEAD-57	57G16-0134	738732	1010006.75	39	Mv	9/11/2006	39	3	24	Munitions Debris	9/25/2006	Frag	Pass	KC	
SEAD-57	57G16-0145	738734.5	1010070.75	35	Mv	9/11/2006	35	3	10	Munitions Debris	9/25/2006	Frag	Pass	KC	
SEAD-57	57G16-0190	738702.75	1010094	27	Mv	9/11/2006	27	3	4	Munitions Debris	9/25/2006	Frag	Pass	KC	
SEAD-57	57I04-0004	738799.25	1008701	1579	Mv	6/29/2006	30	3	10	Munitions Debris	7/7/2006	Alum MD	Pass	KC	
SEAD-57	57I04-0008	738776.5	1008633	828	Mv	6/29/2006	490	3	0	Cultural Debris	7/7/2006	Wire 7" long	-	-	
SEAD-57	57I04-0011	738786.807	1008598.688	635	Mv	6/29/2006	254	3	0	Cultural Debris	7/7/2006	Cable 7' long	-	-	
SEAD-57	57I04-0021	738793.75	1008634	453	Mv	6/29/2006	135	3	0	Cultural Debris	7/7/2006	Pipe 8" long	-	-	
SEAD-57	57I04-0022	738811.25	1008602	452	Mv	6/29/2006	287	3	0	Munitions Debris	7/7/2006	Frag MD	-	-	
SEAD-57	57I04-0024	738813.25	1008658.5	438	Mv	6/29/2006	260	3	3	Munitions Debris	7/7/2006	Steel MD Frag	-	-	
SEAD-57	57I04-0030	738822.5	1008695.75	367	Mv	6/29/2006	330	3	2	Munitions Debris	7/7/2006	Steel MD 2.36 Motor part	-	-	
SEAD-57	57I04-0031	738787.25	1008650.25	366	Mv	6/29/2006	160	3	0	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0032	738754.5	1008712.5	358	Mv	6/29/2006	370	3	0	Munitions Debris	7/7/2006	Alum MD	Pass	KC	
SEAD-57	57I04-0039	738828.75	1008734	325	Mv	6/29/2006	164	3	2	Munitions Debris	7/7/2006	Lead MD	-	-	
SEAD-57	57I04-0040	738976.75	1008662.25	320	Mv	6/29/2006	220	3	4	Munitions Debris	7/7/2006	Alum MD Fuze	-	-	
SEAD-57	57I04-0044	738818.25	1008632.75	281	Mv	6/29/2006	390	3	6	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0045	738809.5	1008720.75	264	Mv	6/29/2006	180	3	4	Cultural Debris	7/7/2006	Steel scrap	-	-	
SEAD-57	57I04-0047	738812.5	1008684.25	255	Mv	6/29/2006	75	3	1	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0051	738957.25	1008644.25	242	Mv	6/29/2006	120	3	6	Cultural Debris	7/7/2006	Steel scrap	-	-	
SEAD-57	57I04-0053	738806.5	1008636.5	236	Mv	6/29/2006	139	3	2	Munitions Debris	6/15/2006	Alum MD	-	-	
SEAD-57	57I04-0056	738777	1008699.75	223	Mv	6/29/2006	150	3	5	Munitions Debris	7/7/2006	Steel MD	Pass	KC	
SEAD-57	57I04-0058	738930.25	1008712.75	219	Mv	6/29/2006	126	3	2	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0065	738999.5	1008660	203	Mv	6/29/2006	120	3	1	Munitions Debris	7/7/2006	Steel MD Frag	-	-	
SEAD-57	57I04-0074	738844.75	1008705	172	Mv	6/29/2006	73	3	8	Cultural Debris	7/7/2006	Steel scrap	Pass	KC	
SEAD-57	57I04-0075	738783	1008693.75	167	Mv	6/29/2006	100	3	7	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0076	738782.25	1008661.75	165	Mv	6/29/2006	135	3	0	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0077	738998.25	1008624	165	Mv	6/29/2006	136	3	4	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0078	738937.25	1008730.25	163	Mv	6/29/2006	135	3	2	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0081	738808	1008689.25	156	Mv	6/29/2006	155	3	1	Munitions Debris	7/7/2006	Steel MD Fuze part	-	-	
SEAD-57	57I04-0086	738806	1008612.5	151	Mv	6/29/2006	119	3	5	Munitions Debris	7/7/2006	Alum MD	Pass	KC	
SEAD-57	57I04-0096	738880.75	1008744	139	Mv	6/29/2006	120	3	6	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0106	738800	1008693.75	122	Mv	6/29/2006	161	3	4	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0109	738808.962	1008748.834	121	Mv	6/29/2006	30	3	10	Cultural Debris	7/7/2006	Steel scrap	-	-	
SEAD-57	57I04-0114	738841	1008632.5	111	Mv	7/11/2006	130	3	24	Munitions Debris	8/23/2006	Alum MD	-	-	
SEAD-57	57I04-0115	738825.75	1008717.75	111	Mv	6/29/2006	110	3	2	Munitions Debris	7/7/2006	Steel MD MKII	-	-	
SEAD-57	57I04-0125	738821.5	1008600	95	Mv	6/29/2006	97	3	5	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0127	738960.25	1008644.5	95	Mv	6/29/2006	59	3	6	Cultural Debris	7/7/2006	Steel scrap	-	-	
SEAD-57	57I04-0130	738791.5	1008658.75	92	Mv	6/29/2006	130	3	0	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0136	738934.5	1008683.75	85	Mv	6/29/2006	46	3	8	Munitions Debris	7/7/2006	Steel MD Frag	-	-	
SEAD-57	57I04-0139	738999.25	1008663.75	83	Mv	6/29/2006	50	3	1	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0141	738960.75	1008640.25	81	Mv	6/29/2006	80	3	8	Cultural Debris	7/7/2006	Steel scrap	-	-	
SEAD-57	57I04-0144	738999.25	1008675.5	79	Mv	6/29/2006	9	3	2	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0149	738818.25	1008704.25	75	Mv	6/29/2006	105	3	2	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0150	738750.5	1008733.75	75	Mv	6/29/2006	40	3	0	Cultural Debris	7/7/2006	Nail 3" long	Pass	KC	
SEAD-57	57I04-0158	738825.25	1008600.25	69	Mv	6/29/2006	10	3	3	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0159	738825.5	1008602	69	Mv	6/29/2006	105	3	2	Munitions Debris	7/7/2006	Alum MD	Pass	KC	
SEAD-57	57I04-0160	738783.25	1008676.75	69	Mv	6/29/2006	62	3	0	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0165	738875	1008706.75	65	Mv	6/29/2006	23	3	4	Munitions Debris	7/7/2006	Alum MD	Pass	KC	
SEAD-57	57I04-0168	738939.25	1008638.25	64	Mv	6/29/2006	48	3	3	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0169	738957.75	1008740.25	63	Mv	6/29/2006	13	3	3	Munitions Debris	7/7/2006	Steel MD Frag	-	-	
SEAD-57	57I04-0174	738767.25	1008721.25	62	Mv	6/29/2006	108	3	6	Munitions Debris	7/7/2006	Alum MD	Pass	KC	
SEAD-57	57I04-0175	738936.5	1008691.75	61	Mv	6/29/2006	55	3	4	Munitions Debris	7/7/2006	Alum MD	-	-	
SEAD-57	57I04-0177	738936	1008635.75	61	Mv	6/29/2006	55	3	6	Cultural Debris	7/7/2006	Steel scrap	-	-	
SEAD-57	57I04-0180	738799.75	1008744.75	59	Mv	6/29/2006	70	3	14	Munitions Debris	7/7/2006	Alum MD	-	-	

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57104-0182	738822	1008622.5	59	Mv	6/29/2006	40	3	5	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57104-0186	738778.75	1008704.25	56	Mv	6/29/2006	50	3	10	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0187	738877	1008716	55	Mv	6/29/2006	94	3	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0188	738866	1008722.75	55	Mv	6/29/2006	20	3	3	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57104-0194	738859.5	1008715.5	52	Mv	6/29/2006	37	3	3	Munitions Debris	7/7/2006	Alum MD	Pass	KC
SEAD-57	57104-0201	738871.5	1008715.75	47	Mv	9/11/2006	47	3	8	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57104-0227	738776.75	1008616.25	37	Mv	9/11/2006	37	3	4	Munitions Debris	9/21/2006	Disk	-	
SEAD-57	57104-0243	738820.5	1008619	32	Mv	9/11/2006	32	3	5	Cultural Debris	9/21/2006		-	
SEAD-57	57104-0262	738969.25	1008620.25	27	Mv	9/11/2006	27	3	2	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57104-0293	738810	1008734.25	20	Mv	9/11/2006	20	3	4	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57114-0014	738815	1009774	3007	Mv	6/20/2006	1100	3	1	Munitions Debris	6/22/2006	Alum MD	Pass	KC
SEAD-57	57114-0030	738923	1009896.75	868	Mv	6/27/2006	307	3	0	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	57114-0035	738867.25	1009862.75	796	Mv	6/27/2006	253	3	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0037	738757.75	1009778	740	Mv	6/27/2006	340	3	20	Cultural Debris	10/25/2006	Same as #118 mower part	-	
SEAD-57	57114-0038	738827.75	1009757	740	Mv	6/20/2006	220	3	4	Cultural Debris	6/22/2006	Trash	Pass	KC
SEAD-57	57114-0045	738795.75	1009969.5	651	Mv	6/22/2006	180	3	9	Cultural Debris	7/19/2006	Alum scrap	Pass	KC
SEAD-57	57114-0047	738798.75	1009886	619	Mv	6/22/2006	350	3	1	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0050	738800.581	1009957.562	599	Mv	6/22/2006	300	3	6	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0052	738760	1009798	577	Mv	6/6/2006	577	3	12	Cultural Debris	10/25/2006	Piece of pipe	-	
SEAD-57	57114-0068	738820.75	1009856.25	444	Mv	6/22/2006	110	3	10	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0074	738909.25	1009797.5	414	Mv	6/20/2006	170	3	0	Cultural Debris	7/19/2006	Wire	Pass	KC
SEAD-57	57114-0078	738762.25	1009981.75	383	Mv	6/28/2006	302	3	0	Cultural Debris	7/7/2006	Scrap metal	-	
SEAD-57	57114-0081	738911.125	1009797.875	356	Mv	6/20/2006	160	3	0	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	57114-0084	738755	1009796.679	349	Mv	6/6/2006	349	3	18	Cultural Debris	10/25/2006	Small pair of wire cutters	Pass	KC
SEAD-57	57114-0088	738905.25	1009787	321	Mv	6/20/2006	105	3	0	Cultural Debris	7/19/2006	Alum	Pass	KC
SEAD-57	57114-0089	738897.25	1009759.25	319	Mv	6/20/2006	150	3	10	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0096	738890.25	1009891.25	275	Mv	6/19/2006	60	3	3	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0097	738798.75	1009877.75	266	Mv	6/22/2006	130	3	2	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0101	738815.5	1009919.25	258	Mv	6/28/2006	90	3	18	Cultural Debris	6/15/2006	Steel scrap	-	
SEAD-57	57114-0108	738803.25	1009860	239	Mv	6/22/2006	100	3	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0110	738820.5	1009787.75	236	Mv	6/27/2006	66	3	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0112	738881.75	1009761	230	Mv	6/20/2006	90	3	2	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0115	738763.5	1009768	224	Mv	6/20/2006	95	3	4	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0118	738760.75	1009780	223	Mv	6/27/2006	309	3	20	Cultural Debris	10/25/2006	Mower part	Pass	KC
SEAD-57	57114-0122	738986.5	1009769.5	221	Mv	6/20/2006	105	3	4	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0127	738830.5	1009862.75	214	Mv	6/22/2006	120	3	6	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0131	738801.25	1009917.25	210	Mv	6/28/2006	20	3	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0133	738812.25	1009877.5	207	Mv	6/22/2006	20	3	0	Cultural Debris	7/19/2006	Wire	Pass	KC
SEAD-57	57114-0140	738924.75	1009758.25	197	Mv	6/20/2006	80	3	1	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0144	738906.5	1009795.5	191	Mv	6/20/2006	85	3	0	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	57114-0145	738899.25	1009763.5	191	Mv	6/20/2006	80	3	3	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0146	738829.25	1009813.5	191	Mv	6/6/2006	191	3	6	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57114-0153	738875	1009832	177	Mv	6/27/2006	154	3	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0161	738796.25	1009867	169	Mv	6/22/2006	125	3	0	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0162	738806.5	1009950.25	168	Mv	6/22/2006	120	3	0	Cultural Debris	7/19/2006	Scrap Metal	-	
SEAD-57	57114-0164	738801	1009785.25	166	Mv	6/20/2006	115	3	1	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57114-0166	738821.75	1009956.75	165	Mv	6/22/2006	85	3	24	Cultural Debris	6/27/2006	Training non-electric blasting cap	-	
SEAD-57	57114-0168	738832.25	1009937.5	164	Mv	6/22/2006	85	3	12	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0182	738928.5	1009827.75	153	Mv	6/19/2006	80	3	10	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0188	738860	1009893.75	141	Mv	6/27/2006	110	3	8	Munitions Debris	7/7/2006	Steel 20mm lead	-	
SEAD-57	57114-0190	738957.25	1009781.25	139	Mv	6/20/2006	65	3	2	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0192	738762	1009764.25	138	Mv	6/20/2006	95	3	5	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57114-0196	738754.5	1009868.75	134	Mv	6/28/2006	47	3	2	Cultural Debris	7/7/2006	Steel scrap	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57114-0200	738793.75	1009844.5	131	Mv	6/28/2006	148	3	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0204	738909.5	1009772	128	Mv	6/20/2006	40	3	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57114-0205	738819.25	1009878.75	128	Mv	6/22/2006	75	3	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0207	738959	1009805.5	125	Mv	6/20/2006	40	3	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0208	738967.75	1009766.75	125	Mv	6/20/2006	65	3	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0212	738969.5	1009866.75	122	Mv	6/19/2006	45	3	2	Cultural Debris	6/28/2006	Steel scrap 3"	Pass	KC
SEAD-57	57114-0216	738839.75	1009772.5	119	Mv	6/27/2006	108	3	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0221	738824.25	1009919.75	116	Mv	6/28/2006	55	3	24	Cultural Debris	6/15/2006	Steel scrap	-	
SEAD-57	57114-0223	738953.5	1009801.5	114	Mv	6/20/2006	100	3	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0229	738764.5	1009772.25	111	Mv	6/20/2006	85	3	4	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0240	738804	1009881	106	Mv	6/22/2006	105	3	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0241	738793.25	1009853.75	106	Mv	6/28/2006	46	3	0	Munitions Debris	8/23/2006	Frag MD	-	
SEAD-57	57114-0245	738828	1009851	105	Mv	6/27/2006	63	3	0	Munitions Debris	7/19/2006	Frag MD	-	
SEAD-57	57114-0250	738816.5	1009892.25	103	Mv	6/22/2006	30	3	0	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	57114-0253	738752	1009826	101	Mv	6/22/2006	30	3	5	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0258	738793.25	1009870.25	99	Mv	6/28/2006	34	3	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0261	738777.75	1009819	96	Mv	6/22/2006	40	3	4	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0266	738927.5	1009787.75	93	Mv	6/20/2006	15	3	0	Munitions Debris	7/19/2006	Frag	Pass	KC
SEAD-57	57114-0267	738796.75	1009826.75	92	Mv	6/22/2006	105	3	2	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0271	738881.75	1009784	90	Mv	6/6/2006	90	3	0	Cultural Debris	8/23/2006	Wire	Pass	KC
SEAD-57	57114-0274	738859.5	1009846.5	89	Mv	6/27/2006	73	3	0	Munitions Debris	8/23/2006	Frag MD	-	
SEAD-57	57114-0287	738970	1009776.25	83	Mv	6/20/2006	35	3	1	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0292	738821.25	1009760.25	82	Mv	6/20/2006	110	3	1	Munitions Debris	6/22/2006	Frag	Pass	KC
SEAD-57	57114-0302	738881.25	1009871.75	77	Mv	6/27/2006	28	3	0	Cultural Debris	8/23/2006	Spark plug	-	
SEAD-57	57114-0309	738919.5	1009753	75	Mv	6/20/2006	85	3	3	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0310	738816.25	1009869.25	75	Mv	6/22/2006	35	3	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57114-0312	738792	1009978.25	73	Mv	6/22/2006	30	3	8	Cultural Debris	6/28/2006	Trash	Pass	KC
SEAD-57	57114-0317	738771.75	1009863	72	Mv	6/28/2006	39	3	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57114-0321	738840.5	1009796.75	69	Mv	6/27/2006	140	3	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0325	738963.25	1009843.5	67	Mv	6/12/2006	23	3	14	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0326	738954.75	1009783	67	Mv	6/20/2006	15	3	2	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0330	738840	1009844.5	66	Mv	6/27/2006	25	3	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0333	738791.25	1009894	66	Mv	6/22/2006	45	3	3	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0339	738813.5	1009889.75	63	Mv	6/12/2006	51	3	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0344	738764.25	1009751.75	62	Mv	6/27/2006	120	3	2	Cultural Debris	7/7/2006	Steel scrap	-	
SEAD-57	57114-0357	738968.5	1009806.75	58	Mv	6/20/2006	20	3	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0359	738969.75	1009793.5	57	Mv	6/20/2006	35	3	20	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0385	738837	1009878	51	Mv	6/22/2006	30	3	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0388	738979.25	1009821.5	50	Mv	7/6/2006	999	3	20	Cultural Debris	10/26/2006	Scrap metal	-	
SEAD-57	57114-0404	738768.25	1009758.25	46	Mv	9/11/2006	46	3	6	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57114-0437	738784.25	1009881.25	41	Mv	9/11/2006	41	3	8	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57114-0528	738777.25	1009805	31	Mv	9/11/2006	31	3	18	Cultural Debris	9/25/2006	Wire	Pass	KC
SEAD-57	57114-0711	738795	1009859.75	21	Mv	9/11/2006	21	3	6	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57114-0757	738953.25	1009778.25	19	Mv	9/11/2006	19	3	9	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57114-0939	738869.25	1009795.75	13	Mv	9/11/2006	13	3	4	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57116-0006	738777.5	1010112	2883	Mv	6/12/2006	30	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0019	738867	1010131	601	Mv	6/12/2006	319	3	0	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0020	738867	1010094.75	593	Mv	6/12/2006	250	3	5	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0026	738867	1010092	304	Mv	6/12/2006	225	3	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0027	738857	1010143.25	303	Mv	6/12/2006	56	3	1	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0030	738944.75	1010039.25	236	Mv	6/7/2006	77	3	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0033	738854.25	1010067	190	Mv	6/12/2006	103	3	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0035	738856.5	1010054.75	169	Mv	6/12/2006	99	3	2	Cultural Debris	6/13/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57116-0039	738950	1010085.75	151	Mv	6/7/2006	10	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0040	738797	1010020	135	Mv	6/12/2006	72	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0041	738814	1010025.25	130	Mv	6/12/2006	64	3	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0043	738806.75	1010037.25	130	Mv	6/12/2006	58	3	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0050	738891.375	1010196.375	113	Mv	6/7/2006	109	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0051	738930.5	1010133.5	111	Mv	6/7/2006	72	3	1	Munitions Debris	6/15/2006	20mm	-	
SEAD-57	57116-0054	738984.75	1010045.75	102	Mv	6/7/2006	61	3	5	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0059	738974	1010040.75	94	Mv	6/7/2006	85	3	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0061	738904.25	1010083.25	93	Mv	6/12/2006	72	3	5	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0064	738753.75	1010026.25	90	Mv	6/12/2006	53	3	12	Munitions Debris	10/26/2006	Frag	-	
SEAD-57	57116-0067	738868	1010009	86	Mv	6/12/2006	30	3	3	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0069	738839.5	1010151.25	84	Mv	6/12/2006	32	3	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0071	738883.5	1010069.25	82	Mv	6/12/2006	48	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0072	738973.5	1010073	80	Mv	6/7/2006	72	3	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0074	738911.25	1010036.75	79	Mv	6/7/2006	60	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0078	738777.25	1010083.75	72	Mv	6/12/2006	41	3	0	Munitions Debris	6/14/2006	Frag, 1" x 1"	-	
SEAD-57	57116-0080	738998.5	1010185.5	68	Mv	6/7/2006	40	3	0	Hot Soil	10/24/2006	Hot rock	-	
SEAD-57	57116-0083	738979.75	1010203.25	67	Mv	6/7/2006	26	3	5	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0085	738960	1010117.25	63	Mv	6/12/2006	26	3	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0087	738953.25	1010137.25	62	Mv	6/12/2006	36	3	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0092	738787	1010087.5	59	Mv	6/12/2006	27	3	0	Cultural Debris	6/14/2006	Scrap metal, 1" x 1"	-	
SEAD-57	57116-0093	738837.75	1010003	58	Mv	6/12/2006	26	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0094	738772	1010156.75	58	Mv	6/12/2006	32	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0097	738955	1010002	55	Mv	6/7/2006	49	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0101	738788.75	1010024.25	51	Mv	6/12/2006	24	3	1	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0105	738939.75	1010020	50	Mv	6/12/2006	20	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0146	738774	1010096.25	39	Mv	9/11/2006	39	3	16	Munitions Debris	9/25/2006	Flare scrap piece	-	
SEAD-57	57116-0177	738906.75	1010142.75	32	Mv	9/11/2006	32	3	11	Cultural Debris	9/25/2006	Nail	-	
SEAD-57	57K04-0001	739070.247	1008681.452	493	Mv	7/10/2006	300	3	3	Cultural Debris	7/10/2006	Trash	Pass	KC
SEAD-57	57K04-0004	739033	1008640.75	156	Mv	7/10/2006	100	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K04-0009	739011.75	1008684.5	126	Mv	7/10/2006	150	3	3	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	57K04-0010	739061.75	1008728.5	116	Mv	7/10/2006	100	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K04-0011	739015	1008685.25	116	Mv	7/10/2006	140	3	3	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	57K04-0017	739032	1008652	95	Mv	7/10/2006	95	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K04-0019	739078	1008735.5	84	Mv	7/10/2006	65	3	4	Cultural Debris	7/10/2006	Trash	Pass	KC
SEAD-57	57K04-0021	739074.25	1008631.25	82	Mv	7/10/2006	60	3	5	Cultural Debris	7/10/2006	Trash	Pass	KC
SEAD-57	57K04-0024	739006.25	1008682	64	Mv	7/10/2006	25	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	57K04-0035	739048.25	1008623.25	36	Mv	9/11/2006	36	3	6	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K04-0037	739024	1008624.75	35	Mv	9/11/2006	35	3	8	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K04-0093	739110.75	1008713.25	10	Mv	9/11/2006	10	3	4	Cultural Debris	9/21/2006	-	-	
SEAD-57	57K12-0109	739241.25	1009571.25	271	Mv	8/1/2006	271	3	0	Cultural Debris	8/1/2006	Alum strip	-	
SEAD-57	57K12-0117	739239.75	1009657.25	241	Mv	8/1/2006	241	3	0	Cultural Debris	8/1/2006	Steel bolt	Pass	KC
SEAD-57	57K12-0119	739040	1009641.25	231	Mv	6/1/2006	999	3	0	Cultural Debris	6/8/2006	Alum disk 3"	-	
SEAD-57	57K12-0122	739042.75	1009667.25	226	Mv	8/1/2006	226	3	3	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0127	739008.75	1009666.75	215	Mv	6/1/2006	126	3	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0129	739228	1009676	211	Mv	6/1/2006	999	3	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0148	739005.5	1009729	176	Mv	6/1/2006	80	3	2	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0150	739150.5	1009739.75	175	Mv	6/1/2006	999	3	0	Cultural Debris	6/7/2006	Alum	-	
SEAD-57	57K12-0158	739099	1009701	168	Mv	6/1/2006	999	3	8	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57K12-0160	739234.5	1009676.25	167	Mv	6/1/2006	999	3	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0162	739012.5	1009643.75	165	Mv	6/1/2006	113	3	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0168	739017	1009641.75	161	Mv	8/1/2006	161	3	6	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0175	739043.5	1009679.75	152	Mv	8/1/2006	152	3	0	Cultural Debris	8/1/2006	Alum	-	

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Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Description		
		Easting (X)	Northing (Y)												
SEAD-57	57K12-0182	739008	1009661	144	Mv	6/1/2006	110	3	0	Cultural Debris	6/8/2006	Alum scrap	-		
SEAD-57	57K12-0186	739151.5	1009638.5	140	Mv	6/1/2006	999	3	0	Cultural Debris	6/8/2006	Alum washer 1" x 1"	-		
SEAD-57	57K12-0195	739038.25	1009684.5	132	Mv	6/1/2006	107	3	6	Cultural Debris	7/5/2006	Alum	-		
SEAD-57	57K12-0199	739042.25	1009636.25	131	Mv	6/1/2006	999	3	0	Cultural Debris	6/8/2006	Alum disk 3"	-		
SEAD-57	57K12-0207	739119	1009748.5	126	Mv	8/1/2006	126	3	1	Cultural Debris	8/1/2006	Steel	-		
SEAD-57	57K12-0210	739224	1009681.75	124	Mv	6/1/2006	999	3	0	Cultural Debris	6/5/2006	Wire	-		
SEAD-57	57K12-0217	739166.25	1009647.25	120	Mv	6/1/2006	115	3	0	Cultural Debris	6/8/2006	Alum disk 3"	-		
SEAD-57	57K12-0219	739076	1009644.75	116	Mv	8/1/2006	116	3	0	Cultural Debris	8/1/2006	Alum	-		
SEAD-57	57K12-0229	739045	1009664	107	Mv	8/1/2006	107	3	0	Cultural Debris	8/1/2006	Alum	-		
SEAD-57	57K12-0233	739097.75	1009717.5	104	Mv	8/1/2006	104	3	0	Cultural Debris	8/1/2006	Steel wire	-		
SEAD-57	57K12-0236	739220.75	1009681.75	102	Mv	6/1/2006	999	3	0	Cultural Debris	6/7/2006	Trash	-		
SEAD-57	57K12-0248	739051.25	1009657.25	95	Mv	6/1/2006	59	3	0	Cultural Debris	6/8/2006	Alum	-		
SEAD-57	57K12-0253	739130	1009635	91	Mv	6/1/2006	24	3	0	Cultural Debris	6/8/2006	2 Steel washer	-		
SEAD-57	57K12-0257	739118.5	1009743.5	89	Mv	8/1/2006	89	3	4	Cultural Debris	8/22/2006	Steel wire	-		
SEAD-57	57K12-0272	739140.25	1009627.25	80	Mv	6/1/2006	999	3	10	Cultural Debris	6/8/2006	Steel wire. Anomalies K12-0272 and a blank flag were pulled and associated with same item.	-		
SEAD-57	57K12-0278	739209.75	1009732.25	75	Mv	6/1/2006	999	3	0	Cultural Debris	6/5/2006	Alum disk	-		
SEAD-57	57K12-0284	739127.75	1009621	72	Mv	6/1/2006	36	3	0	Cultural Debris	6/8/2006	Alum	Pass	KC	
SEAD-57	57K12-0290	739135	1009629.5	68	Mv	6/1/2006	114	3	0	Cultural Debris	6/8/2006	Steel	-		
SEAD-57	57K12-0292	739208.75	1009635	68	Mv	6/1/2006	51	3	0	Cultural Debris	6/7/2006	Trash	-		
SEAD-57	57K12-0307	739052.25	1009652.25	60	Mv	8/1/2006	60	3	10	Cultural Debris	8/22/2006	Alum	-		
SEAD-57	57K12-0321	739124.75	1009647	53	Mv	6/1/2006	68	3	0	Cultural Debris	6/8/2006	Steel	Pass	KC	
SEAD-57	57K12-0325	739072.5	1009673	51	Mv	6/1/2006	27	3	0	Cultural Debris	7/5/2006	Alum	Pass	KC	
SEAD-57	57K14-0008	739142.25	1009905.75	2831	Mv	6/8/2006	1244	3	24	Cultural Debris	6/13/2006	Trash, Dug to a depth of 3in around the flag	-		
SEAD-57	57K14-0012	739144.25	1009908.5	1646	Mv	6/8/2006	791	3	24	Cultural Debris	6/13/2006	Dug area to a depth of 3in around the flag	-		
SEAD-57	57K14-0017	739147	1009804.25	1173	Mv	6/5/2006	350	3	1	Cultural Debris	6/5/2006	Trash	-		
SEAD-57	57K14-0022	739247.25	1009855.75	935	Mv	6/5/2006	325	3	5	Cultural Debris	6/12/2006	Trash	Pass	KC	
SEAD-57	57K14-0027	739136.25	1009898.5	749	Mv	6/8/2006	209	3	24	Cultural Debris	6/14/2006	Trash	-		
SEAD-57	57K14-0037	739057.5	1009771.25	525	Mv	7/19/2006	525	3	20	Munitions Debris	10/19/2006	2.23 motor -same as #97	-		
SEAD-57	57K14-0040	739067	1009756.5	471	Mv	7/19/2006	471	3	10	Munitions Debris	10/26/2006	Frag	-		
SEAD-57	57K14-0053	739047.5	1009983.75	393	Mv	6/8/2006	170	3	12	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0057	739135.25	1009812.5	366	Mv	6/5/2006	170	3	10	Cultural Debris	6/5/2006	Trash	-		
SEAD-57	57K14-0058	739054	1009944	353	Mv	6/8/2006	175	3	12	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0061	739092.25	1009780.75	345	Mv	6/12/2006	130	3	4	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0065	739249.25	1009834.75	337	Mv	6/5/2006	150	3	2	Cultural Debris	8/1/2006	Trash	-		
SEAD-57	57K14-0074	739108.75	1009891	265	Mv	6/8/2006	193	3	2	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0075	739117.5	1009793	260	Mv	7/19/2006	260	3	4	Cultural Debris	10/26/2006	Trash	-		
SEAD-57	57K14-0084	739109.75	1009842	240	Mv	6/12/2006	146	3	3	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0085	739148.25	1009928	238	Mv	6/8/2006	85	3	3	Cultural Debris	6/12/2006	Steel scrap	-		
SEAD-57	57K14-0088	739021.25	1009876.25	231	Mv	6/8/2006	104	3	6	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0097	739055	1009773.75	206	Mv	7/19/2006	206	3	24	Munitions Debris	10/19/2006	2.36 motor	-		
SEAD-57	57K14-0098	739217.75	1009875.25	206	Mv	6/8/2006	156	3	14	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0104	739017	1009939.25	199	Mv	6/12/2006	65	3	10	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0109	739051.5	1009988.5	184	Mv	6/8/2006	160	3	8	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0121	739140.25	1009898.5	165	Mv	6/8/2006	15	3	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC	
SEAD-57	57K14-0132	739201.5	1009803.5	146	Mv	6/5/2006	110	3	0	Cultural Debris	6/7/2006	Alum disc	-		
SEAD-57	57K14-0133	739010.5	1009867.25	144	Mv	6/8/2006	133	3	2	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0138	739035.5	1009947.5	140	Mv	6/8/2006	102	3	4	Cultural Debris	6/13/2006	Trash	-		
SEAD-57	57K14-0146	739181.5	1009782.75	133	Mv	6/5/2006	55	3	2	Cultural Debris	6/5/2006	Trash	-		
SEAD-57	57K14-0148	739071.75	1009778.5	132	Mv	6/12/2006	130	3	1	Cultural Debris	6/12/2006	Trash	-		
SEAD-57	57K14-0153	739138.748	1009896.057	129	Mv	6/8/2006	31	3	24	Cultural Debris	6/14/2006	Trash	-		
SEAD-57	57K14-0163	739189.75	1009818.25	117	Mv	6/5/2006	30	3	10	Cultural Debris	6/5/2006	Trash	-		
SEAD-57	57K14-0164	739122	1009929.25	116	Mv	6/8/2006	72	3	8	Cultural Debris	6/13/2006	Trash	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57K14-0170	739019	1009901.75	110	Mv	6/8/2006	50	3	0	Cultural Debris	10/24/2006	wrench	-	
SEAD-57	57K14-0173	739094	1009947.75	107	Mv	6/8/2006	90	3	24	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0175	739058.5	1009937.75	106	Mv	6/8/2006	60	3	5	Munitions Debris	6/13/2006	Frag	-	
SEAD-57	57K14-0186	739117.5	1009920	95	Mv	6/8/2006	35	3	12	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0202	739088.5	1009954	83	Mv	6/8/2006	80	3	24	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0204	739094.75	1009890.25	82	Mv	6/8/2006	63	3	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0209	739016.75	1009835.25	81	Mv	6/8/2006	107	3	8	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0215	739208.25	1009895.5	77	Mv	6/8/2006	30	3	7	Cultural Debris	6/12/2006	Steel scrap	-	
SEAD-57	57K14-0219	739091.25	1009888	76	Mv	6/8/2006	33	3	12	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0233	739134	1009885.5	68	Mv	6/8/2006	32	3	2	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0243	739007.5	1009778.5	65	Mv	7/19/2006	35	3	4	Cultural Debris	10/26/2006		-	
SEAD-57	57K14-0244	739185	1009924.75	64	Mv	6/8/2006	18	3	12	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0246	739038.75	1009943.75	63	Mv	6/8/2006	27	3	24	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0249	739168.75	1009833.25	63	Mv	6/5/2006	28	3	6	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0257	739104.5	1009792.5	60	Mv	6/12/2006	20	3	8	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57K14-0264	739218.75	1009912	57	Mv	6/8/2006	20	3	8	Cultural Debris	6/12/2006	Steel scrap, K14 0201 associates with this anomaly	Pass	KC
SEAD-57	57K14-0276	739138.25	1009768.25	53	Mv	6/5/2006	25	3	3	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0279	739026	1009946.25	52	Mv	6/8/2006	14	3	20	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0286	739117.5	1009805.75	51	Mv	7/19/2006	29	3	5	Cultural Debris	10/26/2006		-	
SEAD-57	57K14-0294	739146.5	1009781	50	Mv	7/19/2006	24	3	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K14-0310	739182.25	1009925.5	46	Mv	9/11/2006	46	3	9	Cultural Debris	9/21/2006	Wire piece	-	
SEAD-57	57K14-0348	739157	1009888	40	Mv	9/11/2006	40	3	15	Cultural Debris	9/21/2006		-	
SEAD-57	57K14-0445	739176	1009837.5	27	Mv	9/11/2006	27	3	24	Cultural Debris	9/21/2006	Wire	Pass	KC
SEAD-57	57K14-0669	739189	1009840.25	15	Mv	9/11/2006	15	3	9	Cultural Debris	9/21/2006	Brass washer	Pass	KC
SEAD-57	57K14-0814	739156.5	1009918	11	Mv	9/11/2006	11	3	7	Cultural Debris	9/21/2006	Scrap metal	Pass	KC
SEAD-57	57K16-0002	739225.363	1010072.689	27443	Mv	6/7/2006	800	3	0	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57K16-0010	739024.5	1010181.5	1830	Mv	6/7/2006	750	3	3	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0011	739123.75	1010098.75	1623	Mv	6/7/2006	840	3	0	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0014	739025.5	1010075.25	1343	Mv	6/7/2006	480	3	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0024	739037.25	1010190.5	778	Mv	6/7/2006	140	3	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0031	739116.5	1010069.75	611	Mv	6/7/2006	370	3	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0032	739045.75	1010094.5	592	Mv	6/8/2006	5	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0036	739097.75	1010149.5	542	Mv	6/7/2006	130	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0039	739094.5	1010123	481	Mv	6/12/2006	999	3	0	Cultural Debris	8/23/2006	Alum 1" x 3"	-	
SEAD-57	57K16-0040	739122.25	1010111.75	476	Mv	6/7/2006	390	3	0	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0043	739024.25	1010072.5	434	Mv	6/7/2006	275	3	2	Munitions Debris	6/13/2006	2.36 rkt mtr	-	
SEAD-57	57K16-0044	739102.713	1010078.595	430	Mv	6/7/2006	460	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0050	739087.237	1010153.393	343	Mv	6/7/2006	125	3	3	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0055	739093.597	1010147.942	285	Mv	6/7/2006	180	3	1	Hot Soil	10/24/2006	Hot rock	-	
SEAD-57	57K16-0056	739122.75	1010067.5	272	Mv	6/7/2006	85	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0057	739109.25	1010139.25	267	Mv	6/7/2006	294	3	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0060	739113.75	1010072.5	203	Mv	6/7/2006	150	3	0	Cultural Debris	10/24/2006	Soda can	-	
SEAD-57	57K16-0061	739229	1010136.25	201	Mv	6/7/2006	95	3	2	Cultural Debris	8/23/2006	Alum strip 1" x 1"	-	
SEAD-57	57K16-0064	739122	1010089.75	173	Mv	6/7/2006	99	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0066	739181.5	1010078.5	161	Mv	6/12/2006	999	3	0	Cultural Debris	8/23/2006	Alum 1" x 1"	Pass	KC
SEAD-57	57K16-0068	739122.5	1010077.5	151	Mv	6/7/2006	60	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0078	739001.25	1010041.5	125	Mv	6/7/2006	130	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0081	739080.25	1010015	121	Mv	6/7/2006	65	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0088	739080.75	1010157	109	Mv	6/7/2006	45	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0090	739093.75	1010042.5	104	Mv	6/7/2006	45	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0093	739131.5	1010084.25	99	Mv	6/7/2006	20	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0097	739133.5	1010097.25	91	Mv	6/7/2006	20	3	0	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57K16-0098	739076.447	1010116.595	89	Mv	6/7/2006	10	3	8	Cultural Debris	6/12/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57K16-0102	739044.75	1010150.5	77	Mv	6/7/2006	28	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0110	739108.25	1010145.25	64	Mv	6/7/2006	50	3	0	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0118	739027.25	1010117.5	59	Mv	6/7/2006	30	3	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0119	739074.5	1010126	55	Mv	6/7/2006	31	3	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0129	739075.75	1010110.25	51	Mv	6/7/2006	22	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0142	739144	1010102.75	45	Mv	9/11/2006	45	3	4	Cultural Debris	9/21/2006	Wrench	Pass	KC
SEAD-57	57K16-0149	739125	1010084.75	43	Mv	9/11/2006	43	3	10	Cultural Debris	9/21/2006	Shotgun shell	Pass	KC
SEAD-57	57K16-0154	739134.25	1010100.75	41	Mv	9/11/2006	41	3	19	Cultural Debris	9/21/2006	Nail piece	Pass	KC
SEAD-57	57K16-0183	739240.25	1010118	32	Mv	9/11/2006	32	3	12	Cultural Debris	9/21/2006	Lead strip	Pass	KC
SEAD-57	57M06-0024	739380	1008984.25	35	Mv	9/11/2006	35	3	0	Hot Soil	9/20/2006	Hot rock	Pass	KC
SEAD-57	57M06-0080	739387.25	1008968	22	Mv	9/11/2006	22	3	24	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57M08-0019	739442.5	1009186.75	178	Mv	6/5/2006	999	3	0	Cultural Debris	7/5/2006	Alum cap	-	
SEAD-57	57M08-0022	739473.5	1009192.25	166	Mv	6/5/2006	999	3	0	Munitions Debris	7/5/2006	Frag 1"x2"	-	
SEAD-57	57M08-0028	739435.25	1009187.5	118	Mv	6/5/2006	999	3	0	Cultural Debris	7/5/2006	Alum cap	-	
SEAD-57	57M08-0031	739478.25	1009117.5	90	Mv	6/5/2006	999	3	0	Cultural Debris	7/5/2006	Alum 1"x3"	-	
SEAD-57	57M08-0032	739425.25	1009201	86	Mv	6/5/2006	999	3	0	Munitions Debris	7/5/2006	frag 1"x2"	Pass	KC
SEAD-57	57M08-0037	739428.5	1009091	75	Mv	6/5/2006	999	3	0	Cultural Debris	7/5/2006	Alum strip 1"x4"	Pass	KC
SEAD-57	57M08-0042	739425	1009015.5	59	Mv	6/5/2006	999	3	0	Munitions Debris	7/5/2006	Frag 1"x3"	-	
SEAD-57	57M08-0043	739416.75	1009017.25	58	Mv	6/5/2006	999	3	0	Munitions Debris	7/5/2006	Frag 1"x3"	-	
SEAD-57	57M08-0057	739471.75	1009190.25	41	Mv	9/11/2006	41	3	24	Cultural Debris	9/20/2006	Bolt	Pass	KC
SEAD-57	57M08-0060	739473.25	1009098	39	Mv	9/11/2006	39	3	12	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M08-0070	739465.25	1009236.75	36	Mv	9/11/2006	36	3	19	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M08-0088	739439	1009243	31	Mv	9/11/2006	31	3	15	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0001	739460.75	1009463.75	61294	Mv	8/1/2006	5000	3	0	Munitions Debris	8/22/2006	Frag 1/2" x 1"	-	
SEAD-57	57M10-0023	739441	1009453.5	120	Mv	8/1/2006	120	3	0	Munitions Debris	8/22/2006	Frag 2" x 1" x 1/2"	-	
SEAD-57	57M10-0026	739374	1009405.5	109	Mv	8/1/2006	109	3	0	Cultural Debris	8/22/2006	Nail	-	
SEAD-57	57M10-0029	739377	1009410	102	Mv	8/1/2006	102	3	0	Cultural Debris	8/22/2006	Metal bolt	Pass	KC
SEAD-57	57M10-0032	739419.75	1009405	96	Mv	8/1/2006	96	3	0	Cultural Debris	8/22/2006	Alum strip	-	
SEAD-57	57M10-0033	739330.5	1009484	92	Mv	8/1/2006	92	3	0	Munitions Debris	8/22/2006	Frag 1" x 2"	-	
SEAD-57	57M10-0061	739363.5	1009402.25	42	Mv	9/11/2006	42	3	13	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0065	739389.25	1009463.5	41	Mv	9/11/2006	41	3	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57M10-0081	739403.5	1009405.25	34	Mv	9/11/2006	34	3	0	Cultural Debris	10/24/2006	Tent stake	Pass	KC
SEAD-57	57M10-0122	739488.75	1009316.5	24	Mv	9/11/2006	24	3	15	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0158	739356.25	1009419.25	20	Mv	9/11/2006	20	3	17	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M12-0038	739375.25	1009582	2815	Mv	6/2/2006	999	3	0	Cultural Debris	7/5/2006	Pipe	-	
SEAD-57	57M12-0043	739253.25	1009603	2598	Mv	6/2/2006	999	3	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0049	739250.25	1009625.25	2121	Mv	6/2/2006	999	3	1	Cultural Debris	6/5/2006	Trailer hitch	-	
SEAD-57	57M12-0078	739454.75	1009614	1221	Mv	6/2/2006	999	3	3	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0129	739434.25	1009565.5	523	Mv	6/2/2006	999	3	0	Cultural Debris	6/6/2006	Scrap metal, 6" x 6"	-	
SEAD-57	57M12-0131	739420.75	1009592	513	Mv	6/2/2006	999	3	3	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0164	739443.75	1009623.75	295	Mv	6/2/2006	999	3	3	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0174	739289	1009624	275	Mv	6/2/2006	999	3	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0196	739389.25	1009604.25	207	Mv	6/2/2006	999	3	2	Cultural Debris	6/7/2006	Steel scrap. Anomalies M12-0275 and M12-0196 are the same item.	-	
SEAD-57	57M12-0206	739269.5	1009692.25	174	Mv	6/2/2006	999	3	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0210	739481	1009534	169	Mv	6/2/2006	999	3	0	Cultural Debris	6/6/2006	Pipe piece, 2" x 2"	-	
SEAD-57	57M12-0227	739445	1009567.25	156	Mv	6/2/2006	999	3	0	Cultural Debris	6/6/2006	2" hinge. Anomalies M12-0264 and M12-0227 are same item.	-	
SEAD-57	57M12-0231	739360.25	1009602.25	150	Mv	6/2/2006	999	3	0	Cultural Debris	7/5/2006	Strap	-	
SEAD-57	57M12-0236	739384.25	1009610.5	146	Mv	6/2/2006	999	3	0	Cultural Debris	7/5/2006	Metal band	-	
SEAD-57	57M12-0264	739445.75	1009570.75	113	Mv	6/2/2006	999	3	0	Cultural Debris	6/6/2006	2" hinge. Anomalies M12-0264 and M12-0227 are same item.	-	
SEAD-57	57M12-0268	739314	1009665.5	111	Mv	6/5/2006	49	3	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0270	739290	1009633.25	110	Mv	6/2/2006	999	3	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0275	739392	1009602.25	107	Mv	6/2/2006	999	3	2	Cultural Debris	6/7/2006	Steel scrap. Anomalies M12-0275 and M12-0196 are the same item.	-	
SEAD-57	57M12-0331	739386	1009597.75	74	Mv	6/2/2006	999	3	0	Cultural Debris	7/5/2006	Metal bar	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57M12-0335	739255.75	1009680.5	73	Mv	6/2/2006	999	3	2	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0340	739497.25	1009632	71	Mv	6/2/2006	999	3	0	Munitions Debris	6/6/2006	Frag. 1/2"	-	
SEAD-57	57M12-0342	739412.5	1009658.5	70	Mv	6/2/2006	999	3	4	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0351	739310	1009663.25	66	Mv	6/5/2006	45	3	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0363	739437.395	1009592.794	62	Mv	6/2/2006	999	3	0	Cultural Debris	6/6/2006	Scrap metal, 1" diameter	-	
SEAD-57	57M12-0410	739499.5	1009556.25	43	Mv	9/11/2006	43	3	6	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57M12-0844	739481.125	1009543.25	12	Mv	9/11/2006	12	3	24	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57M12-0888	739469.25	1009642.25	11	Mv	9/11/2006	11	3	14	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57M14-0035	739467.5	1009778.25	747	Mv	6/6/2006	240	3	3	Cultural Debris	7/5/2006	Steel bracket	-	
SEAD-57	57M14-0044	739252	1009815.25	461	Mv	8/22/2006	248	3	6	Cultural Debris	8/22/2006	Alum	-	
SEAD-57	57M14-0076	739314	1009814.5	250	Mv	6/5/2006	140	3	2	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M14-0078	739308	1009772	229	Mv	6/5/2006	115	3	1	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M14-0139	739363.75	1009810.5	92	Mv	6/6/2006	57	3	8	Munitions Debris	7/5/2006	Frag steel	-	
SEAD-57	57M14-0150	739252.75	1009845.75	80	Mv	6/5/2006	115	3	2	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57M14-0170	739476.75	1009762.25	64	Mv	8/22/2006	38	3	1	Cultural Debris	8/22/2006	Steel scrap	-	
SEAD-57	57M14-0180	739350.25	1009787.75	57	Mv	6/5/2006	20	3	2	Cultural Debris	7/5/2006	Wire	-	
SEAD-57	57M14-0230	739475.926	1009819.606	43	Mv	9/11/2006	43	3	20	Cultural Debris	9/21/2006	Nail	Pass	KC
SEAD-57	57M16-0004	739462.395	1010003.547	1996	Mv	6/7/2006	670	3	0	Munitions Debris	6/10/2006	Small Arms, .50 cal dearmer	Pass	KC
SEAD-57	57M16-0009	739301.5	1010061.25	711	Mv	6/7/2006	400	3	0	Cultural Debris	6/5/2006	Nail	Pass	KC
SEAD-57	57M16-0016	739318.5	1010054	343	Mv	6/6/2006	220	3	0	Cultural Debris	6/10/2006	same as 57 m16-16	-	
SEAD-57	57M16-0022	739316.75	1010056.25	247	Mv	6/6/2006	160	3	0	Cultural Debris	6/5/2006	Bolt	-	
SEAD-57	57M16-0024	739270.407	1010131.375	240	Mv	6/6/2006	50	3	0	Cultural Debris	6/8/2006	Trash	-	
SEAD-57	57M16-0026	739370.25	1010135.5	214	Mv	6/6/2006	87	3	0	Cultural Debris	6/10/2006	frag	-	
SEAD-57	57M16-0032	739311.5	1010120.5	183	Mv	6/6/2006	110	3	3	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57M16-0041	739330	1010145.25	148	Mv	6/6/2006	62	3	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0043	739271.5	1010155	143	Mv	6/6/2006	56	3	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0053	739310.25	1010074.5	110	Mv	6/6/2006	57	3	0	Cultural Debris	6/8/2006	Nails	-	
SEAD-57	57M16-0057	739304.261	1010102.893	104	Mv	6/6/2006	60	3	0	Cultural Debris	6/10/2006	-	-	
SEAD-57	57M16-0060	739300	1010111	101	Mv	6/6/2006	70	3	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0061	739257	1010077.75	101	Mv	6/6/2006	34	3	1	Cultural Debris	6/8/2006	Trash	-	
SEAD-57	57M16-0067	739269	1010105.5	87	Mv	6/6/2006	64	3	0	Cultural Debris	6/5/2006	Nails	-	
SEAD-57	57M16-0082	739430	1010069	70	Mv	6/7/2006	15	3	0	Cultural Debris	6/10/2006	Nail	-	
SEAD-57	57M16-0083	739311	1010128	70	Mv	6/6/2006	31	3	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0084	739341.5	1010139.25	70	Mv	6/6/2006	13	3	0	Cultural Debris	6/10/2006	Metal bar	-	
SEAD-57	57M16-0085	739329.5	1010002.5	69	Mv	6/6/2006	25	3	12	Cultural Debris	6/10/2006	-	-	
SEAD-57	57M16-0091	739319	1010115.75	64	Mv	6/6/2006	10	3	10	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0095	739272	1010110	56	Mv	6/6/2006	40	3	0	Cultural Debris	6/10/2006	Wire	-	
SEAD-57	57M16-0097	739440.5	1010072.5	55	Mv	6/7/2006	75	3	0	Cultural Debris	6/10/2006	-	-	
SEAD-57	57M16-0099	739318	1010027.5	53	Mv	6/6/2006	15	3	0	Cultural Debris	6/5/2006	Nails	-	
SEAD-57	57M16-0100	739268.75	1010128	53	Mv	6/6/2006	13	3	6	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57M16-0103	739337.75	1010143	51	Mv	6/6/2006	10	3	0	Cultural Debris	6/10/2006	Belt buckle	-	
SEAD-57	57M16-0107	739264.5	1010181	50	Mv	6/7/2006	20	3	2	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57M16-0143	739325.5	1010043.5	36	Mv	9/11/2006	36	3	8	Munitions Debris	9/25/2006	Small Arms, 7.62mm head	-	
SEAD-57	57O10-0002	739516	1009431	290	Mv	6/5/2006	126	3	0	Cultural Debris	6/6/2006	Wire. Anomalies O10-0002 and O10-0006 are the same item.	-	
SEAD-57	57O10-0006	739516.5	1009427.75	165	Mv	6/5/2006	98	3	0	Cultural Debris	6/6/2006	Wire. Anomalies O10-0002 and O10-0006 are the same item.	-	
SEAD-57	57O10-0011	739507.25	1009480.5	98	Mv	6/5/2006	120	3	0	Cultural Debris	6/6/2006	Alum disk, 2" diameter	-	
SEAD-57	57O10-0018	739525.25	1009402.75	45	Mv	9/11/2006	45	3	5	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O10-0019	739542.75	1009325.5	44	Mv	9/11/2006	44	3	19	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O10-0022	739524.5	1009422.5	41	Mv	9/11/2006	41	3	18	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O10-0045	739521.25	1009472.5	24	Mv	9/11/2006	24	3	14	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O10-0118	739578.5	1009452	14	Mv	9/11/2006	14	3	14	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O12-0007	739511	1009628	1112	Mv	6/5/2006	155	3	24	Cultural Debris	6/6/2006	Wire 18" found at 3' NE of flag	-	
SEAD-57	57O12-0027	739506.25	1009536.25	71	Mv	6/5/2006	35	3	0	Cultural Debris	6/6/2006	Alum, 2" x 2"	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57O12-0032	739506	1009623.25	49	Mv	9/11/2006	49	3	8	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57O12-0034	739567	1009543.5	40	Mv	9/11/2006	40	3	8	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O12-0048	739526.75	1009661	25	Mv	9/11/2006	25	3	13	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57O12-0057	739540	1009545	22	Mv	9/11/2006	22	3	20	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	F06-002	738610.099	1008864.548	17	nT	10/17/2006	15	3	1	Cultural Debris	10/19/2006		-	
SEAD-57	F06-004	738610.275	1008770.506	5	nT	10/17/2006	5	3	6	Hot Soil	10/19/2006	Rock	-	
SEAD-57	F08-002	738616.18	1009067.75	59	nT	8/8/2006	59	3	24	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	F09-008	738521.74	1009157.71	13	nT	8/8/2006	13	3	20	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	F11-001	738580.1	1009476.859	13	nT	10/17/2006	12	3	4	Hot Soil	10/25/2006	Hot rock	-	
SEAD-57	G06-004	738715.04	1008830.156	43	nT	9/6/2006	42	3	6	Hot Soil	9/7/2006	Hot rock	Pass	KC
SEAD-57	G06-009	738725.009	1008854.784	10	nT	9/6/2006	10	3	12	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G06-025	738713.039	1008754.626	16	nT	9/6/2006	16	3	12	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G06-028	738729.185	1008772.108	16	nT	9/6/2006	16	3	4	Munitions Debris	9/7/2006	Frag	Pass	KC
SEAD-57	G07-003	738714.773	1008971.608	98	nT	9/6/2006	98	3	6	Cultural Debris	9/7/2006		-	
SEAD-57	G07-031	738735.724	1008982.551	11	nT	9/6/2006	11	3	4	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G07-033	738734.924	1008968.672	11	nT	9/6/2006	12	3	6	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G08-013	738741.24	1009005.99	46	nT	8/8/2006	46	3	2	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G08-023	738637.11	1009085.91	49	nT	8/8/2006	49	3	18	Hot Soil	8/9/2006	Hot Rock	Pass	KC
SEAD-57	G08-027	738635	1009114.19	19	nT	8/8/2006	19	3	10	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	G08-031	738672.99	1009070.43	30	nT	8/8/2006	30	3	10	Cultural Debris	8/9/2006	Horse Shoe	-	
SEAD-57	G08-037	738721.12	1009114.62	13	nT	8/8/2006	13	3	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G08-039	738747.43	1009119.26	7	nT	8/8/2006	7	3	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G08-040	738742.93	1009114.05	80	nT	8/8/2006	80	3	8	Cultural Debris	8/9/2006	seed item	-	
SEAD-57	G08-045	738734.91	1009063.68	10	nT	8/8/2006	10	3	2	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G08-046	738724.92	1009068.04	36	nT	8/8/2006	36	3	24	Cultural Debris	8/9/2006	Wire	Pass	KC
SEAD-57	G09-014	738657.09	1009170.06	33	nT	8/8/2006	33	3	8	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-019	738636.97	1009205.8	29	nT	8/8/2006	29	3	24	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-024	738725.06	1009225.08	80	nT	8/8/2006	80	3	20	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-030	738747.29	1009191.59	12	nT	8/8/2006	12	3	20	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-033	738723.09	1009187.65	112	nT	8/8/2006	112	3	20	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-037	738737.16	1009156.97	15	nT	8/8/2006	15	3	12	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G10-007	738690.66	1009364.95	18	nT	8/8/2006	18	3	18	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	G10-008	738685.18	1009368.45	12	nT	8/8/2006	12	3	24	MPPEH	8/9/2006	37mm	-	
SEAD-57	G10-009	738664.94	1009370.89	13	nT	8/8/2006	13	3	17	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	G10-020	738669.66	1009274.85	5	nT	8/8/2006	5	3	11	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-044	738740.88	1009328.43	9	nT	8/8/2006	9	3	24	Hot Soil	8/10/2006	Hot Rock	Pass	KC
SEAD-57	G10-047	738742.56	1009369.52	6	nT	8/8/2006	6	3	9	Cultural Debris	8/10/2006	seed item	-	
SEAD-57	G10-048	738727.79	1009364.5	3	nT	8/8/2006	3	3	18	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-055	738718.97	1009304.53	22	nT	8/8/2006	22	3	15	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-002	738721.02	1009407.94	15	nT	8/8/2006	15	3	18	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-015	738640.93	1009473.04	9	nT	8/8/2006	9	3	9	Cultural Debris	8/10/2006	Wire	-	
SEAD-57	G11-024	738743.21	1009471.28	11	nT	8/8/2006	11	3	30	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-025	738739.25	1009461.58	18	nT	8/8/2006	18	3	20	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-028	738744.68	1009442.47	8	nT	8/8/2006	8	3	18	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-041	738721.17	1009387.51	30	nT	8/8/2006	30	3	15	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G13-003	738709.977	1009667.224	30	nT	10/17/2006	31	3	30	Cultural Debris	10/24/2006	Iron rod	Pass	KC
SEAD-57	G13-004	738661.151	1009722.046	36	nT	10/17/2006	35	3	10	Cultural Debris	10/24/2006	Iron rod	-	
SEAD-57	H06-002	738776.03	1008849.8	50	nT	8/8/2006	50	3	2	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-003	738753.08	1008862.98	4	nT	8/8/2006	4	3	1	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-004	738750.27	1008854.39	19	nT	8/8/2006	19	3	1	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	H06-006	738754.41	1008805.23	42	nT	8/8/2006	42	3	3	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-018	738800.32	1008767.61	18	nT	8/8/2006	18	3	3	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-020	738796.02	1008781.24	10	nT	8/8/2006	10	3	4	Cultural Debris	8/9/2006	Trash	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H06-021	738791.73	1008795.01	6	nT	8/8/2006	6	3	9	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-026	738857.92	1008765.69	36	nT	8/8/2006	36	3	9	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	H06-034	738799.87	1008827.14	23	nT	8/8/2006	23	3	3	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-036	738840	1008837.66	19	nT	8/8/2006	19	3	4	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	H06-039	738873.03	1008865.5	7	nT	8/8/2006	7	3	0	Hot Soil	8/9/2006	hot rock	-	
SEAD-57	H06-040	738835.86	1008872.75	8	nT	8/8/2006	8	3	2	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	H06-041	738798.39	1008854.39	16	nT	8/8/2006	16	3	3	Hot Soil	8/9/2006	Hot rock	-	
SEAD-57	H07-001	738758.12	1008958.05	46	nT	8/8/2006	46	3	30	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	H07-002	738774.7	1008945.31	899	nT	8/8/2006	899	3	5	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	H07-008	738760.48	1008980.11	6	nT	8/8/2006	6	3	18	Cultural Debris	8/9/2006		-	
SEAD-57	H07-009	738751.3	1008999.07	33	nT	8/8/2006	33	3	3	Cultural Debris	8/9/2006	Survey stake	-	
SEAD-57	H07-012	738804.47	1008997.59	56	nT	8/8/2006	56	3	12	Hot Soil	8/9/2006	Hotrock	-	
SEAD-57	H07-020	738865.03	1008927.1	5	nT	8/8/2006	5	3	3	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	H07-021	738833.79	1008904.89	41	nT	8/8/2006	41	3	4	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H07-027	738784.03	1008891.26	270	nT	8/8/2006	270	3	2	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	H07-033	738762.41	1008903.85	23	nT	8/8/2006	23	3	5	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H07-035	738750.12	1008924.14	38	nT	8/8/2006	38	3	14	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	H07-037	738753.82	1008952.72	11	nT	8/8/2006	11	3	3	Cultural Debris	8/9/2006		-	
SEAD-57	H08-006	738814.022	1009084.952	8	nT	9/6/2006	8	3	18	Cultural Debris	9/8/2006		-	
SEAD-57	H08-018	738838.129	1009094.413	9	nT	9/6/2006	9	3	3	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-019	738832.038	1009093.895	11	nT	9/6/2006	11	3	6	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-022	738838.129	1009111.651	23	nT	9/6/2006	24	3	6	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	H08-030	738821.41	1009096.098	11	nT	9/6/2006	11	3	5	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	H08-032	738810.005	1009093.247	10	nT	9/6/2006	10	3	12	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-038	738792.767	1009082.36	5	nT	9/6/2006	5	3	10	Cultural Debris	9/8/2006		-	
SEAD-57	H08-040	738791.86	1009053.328	9	nT	9/6/2006	9	3	6	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-042	738791.989	1009040.886	27	nT	9/6/2006	27	3	12	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-043	738796.007	1009037.516	6	nT	9/6/2006	6	3	2	Cultural Debris	9/8/2006		-	
SEAD-57	H08-045	738790.564	1009026.629	7	nT	9/6/2006	7	3	24	Cultural Debris	9/8/2006		-	
SEAD-57	H08-046	738792.897	1009018.982	6	nT	9/6/2006	6	3	8	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-063	738820.278	1009076.249	9	nT	10/17/2006	10	3	4	Hot Soil	10/19/2006	Rock	-	
SEAD-57	H08-070	738860.077	1009065.993	13	nT	10/17/2006	14	3	3	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	H09-002	738792.572	1009241.872	15	nT	10/17/2006	14	3	5	Cultural Debris	10/23/2006		-	
SEAD-57	H09-006	738782.622	1009166.561	12	nT	10/17/2006	12	3	9	Munitions Debris	10/19/2006	M123	Pass	KC
SEAD-57	H09-008	738774.663	1009169.469	7	nT	10/17/2006	6	3	13	Cultural Debris	10/19/2006	M123	Pass	KC
SEAD-57	H09-011	738780.02	1009222.891	9	nT	10/17/2006	7	3	6	Munitions Debris	10/23/2006	Disc	Pass	KC
SEAD-57	H09-015	738810.122	1009138.617	14	nT	10/17/2006	14	3	8	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	H09-019	738803.958	1009235.977	21	nT	10/17/2006	21	3	2	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	H10-008	738795.084	1009359.286	26	nT	10/17/2006	26	3	14	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-010	738802.851	1009350.548	15	nT	10/17/2006	15	3	9	Cultural Debris	10/25/2006	A pocket of rust	Pass	KC
SEAD-57	H10-020	738826.984	1009307.553	25	nT	10/17/2006	24	3	40	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-022	738813.114	1009306.443	23	nT	10/17/2006	23	3	24	Cultural Debris	10/25/2006	Iron rod	-	
SEAD-57	H10-024	738801.187	1009308.94	12	nT	10/17/2006	13	3	10	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-025	738801.048	1009303.531	8	nT	10/17/2006	9	3	20	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-026	738802.99	1009298.538	13	nT	10/17/2006	13	3	1	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-028	738787.04	1009305.195	14	nT	10/17/2006	15	3	24	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-036	738819.217	1009273.018	112	nT	10/17/2006	113	3	30	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-039	738821.297	1009288.552	12	nT	10/17/2006	13	3	24	Hot Soil	10/25/2006	Hot rock	-	
SEAD-57	H10-044	738853.058	1009253.462	15	nT	10/17/2006	14	3	23	Cultural Debris	10/25/2006	A pocket of rust	Pass	KC
SEAD-57	H10-048	738862.212	1009285.085	44	nT	10/17/2006	45	3	3	Cultural Debris	10/25/2006	Como wire	Pass	KC
SEAD-57	H10-056	738839.05	1009308.524	31	nT	10/17/2006	30	3	36	Cultural Debris	10/25/2006		-	
SEAD-57	H10-058	738839.05	1009316.846	28	nT	10/17/2006	28	3	7	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-062	738857.358	1009307.553	68	nT	10/17/2006	69	3	24	Cultural Debris	10/25/2006	Como wire	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H10-072	738834.889	1009364.001	17	nT	10/17/2006	18	3	4	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-079	738803.128	1009364.695	33	nT	10/17/2006	33	3	20	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H11-008	738828.799	1009376.754	11	nT	10/17/2006	10	3	10	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-010	738811.011	1009385.092	21	nT	10/17/2006	21	3	21	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-011	738805.452	1009385.37	15	nT	10/17/2006	15	3	7	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-014	738795.03	1009405.659	53	nT	10/17/2006	54	3	3	Cultural Debris	10/25/2006	Scrap metal	Pass	KC
SEAD-57	H11-018	738809.065	1009393.986	28	nT	10/17/2006	28	3	20	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H12-009	738791.915	1009600.725	33	nT	10/17/2006	32	3	9	Hot Soil	10/24/2006	Hot rock	Pass	KC
SEAD-57	H13-005	738775.86	1009636.356	34	nT	10/17/2006	34	3	36	Cultural Debris	10/24/2006	Can piece	-	
SEAD-57	H13-006	738781.916	1009638.751	18	nT	10/17/2006	18	3	15	Hot Soil	10/24/2006	Hot rock	Pass	KC
SEAD-57	H13-022	738835.857	1009644.243	14	nT	10/17/2006	14	3	40	Hot Soil	10/24/2006	Hot rock	Pass	KC
SEAD-57	106-005	738890.86	1008769.91	8	nT	8/8/2006	8	3	5	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	106-006	738900.96	1008761.59	12	nT	8/8/2006	12	3	14	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	106-013	738903.14	1008864.86	18	nT	8/8/2006	18	3	2	Hot Soil	8/9/2006	Hotrock	Pass	KC
SEAD-57	106-016	738898.5	1008839.9	16	nT	8/8/2006	16	3	1	Hot Soil	8/9/2006	Hotrock	Pass	KC
SEAD-57	107-009	738952.12	1008942.35	3	nT	8/8/2006	3	3	3	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	108-003	738917.552	1009103.519	16	nT	10/16/2006	15	3	7	Cultural Debris	10/23/2006		-	
SEAD-57	108-008	738890.062	1009109.967	18	nT	10/16/2006	18	3	2	Munitions Debris	10/23/2006	Frag	-	
SEAD-57	108-010	738946.399	1009115.227	18	nT	10/16/2006	18	3	10	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	108-022	738977.452	1009053.121	26	nT	10/16/2006	26	3	3	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	108-029	738912.631	1009042.092	20	nT	10/16/2006	21	3	3	Hot Soil	10/23/2006	Rock	Pass	KC
SEAD-57	108-032	738927.563	1009062.115	21	nT	10/16/2006	22	3	3	Munitions Debris	10/23/2006	Frag	-	
SEAD-57	108-033	738935.03	1009054.988	10	nT	10/16/2006	11	3	5	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	I10-020	738944.86	1009262.53	8	nT	8/8/2006	8	3	2	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	I10-021	738934.98	1009253.78	16	nT	8/8/2006	16	3	4	Cultural Debris	8/9/2006	seed item	-	
SEAD-57	I10-022	738927.22	1009258.01	28	nT	8/8/2006	28	3	5	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	I10-025	738924.12	1009272.97	5	nT	8/8/2006	5	3	2	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	I10-032	738901.11	1009294	47	nT	8/8/2006	47	3	5	Cultural Debris	8/9/2006		-	
SEAD-57	I10-034	738888.13	1009309.52	201	nT	8/8/2006	201	3	3	Munitions Debris	8/9/2006	105mm proj he pieces	Pass	KC
SEAD-57	I10-037	738877.12	1009337.18	52	nT	8/8/2006	52	3	3	Cultural Debris	8/9/2006		-	
SEAD-57	I10-038	738881.92	1009348.05	4	nT	8/8/2006	4	3	3	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	I10-043	738909.01	1009336.19	33	nT	8/8/2006	33	3	1	Cultural Debris	8/9/2006		-	
SEAD-57	I10-049	738972.95	1009337.32	16	nT	8/8/2006	16	3	2	Cultural Debris	8/9/2006		-	
SEAD-57	I11-005	738884.88	1009409.86	1	nT	8/8/2006	1	3	8	Cultural Debris	8/10/2006	seed item	-	
SEAD-57	I11-009	738914.94	1009410.28	26	nT	8/8/2006	26	3	3	Cultural Debris	8/10/2006		Pass	KC
SEAD-57	I11-019	738875.43	1009474.78	7	nT	8/8/2006	7	3	6	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-020	738878.96	1009484.38	20	nT	8/8/2006	20	3	4	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-021	738879.1	1009493.27	9	nT	8/8/2006	9	3	3	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-026	738888.13	1009475.06	4	nT	8/8/2006	4	3	22	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-030	738899.84	1009452.34	17	nT	8/8/2006	17	3	5	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-034	738929.2	1009467.3	25	nT	8/8/2006	25	3	5	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-035	738917.34	1009474.78	14	nT	8/8/2006	14	3	3	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-040	738993.13	1009464.05	34	nT	8/8/2006	34	3	7	Munitions Debris	8/10/2006	Frag	Pass	KC
SEAD-57	I12-006	738904.856	1009521.065	13	nT	9/6/2006	13	3	6	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I12-009	738892.94	1009527.43	21	nT	9/6/2006	21	3	4	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I12-014	738887.67	1009548.251	186	nT	9/6/2006	186	3	12	Cultural Debris	9/8/2006	Pipe	Pass	KC
SEAD-57	I12-015	738891.45	1009541.999	54	nT	9/6/2006	54	3	30	Cultural Debris	9/8/2006	Same as #14 [pipe]	Pass	KC
SEAD-57	I12-016	738884.762	1009539.818	36	nT	9/6/2006	36	3	46	Cultural Debris	9/8/2006	Same as #14 and #15 [pipe]	-	
SEAD-57	I12-022	738889.013	1009562.366	12	nT	9/6/2006	12	3	4	Hot Soil	9/8/2006	Hot rock	Pass	KC
SEAD-57	I12-030	738973.103	1009617.478	11	nT	9/6/2006	11	3	6	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I12-031	738985.155	1009620.322	15	nT	9/6/2006	15	3	20	Munitions Debris	9/7/2006	75mm base	Pass	KC
SEAD-57	I13-002	738907.819	1009686.016	6	nT	9/6/2006	6	3	9	Cultural Debris	9/7/2006	Scrap metal	Pass	KC
SEAD-57	J08-003	739004.904	1009030.04	7	nT	10/16/2006	9	3	5	Munitions Debris	10/19/2006	Frag	-	

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SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	J09-004	739029.94	1009239.894	11	nT	10/16/2006	13	3	13	Cultural Debris	10/19/2006	Scrap metal	Pass	KC
SEAD-57	J09-006	739116.698	1009142.009	5	nT	10/16/2006	6	3	9	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J09-008	739010.293	1009154.875	134	nT	10/16/2006	133	3	30	Cultural Debris	10/19/2006	Gun barrel	Pass	KC
SEAD-57	J09-010	739032.374	1009182.171	64	nT	10/16/2006	65	3	60	Cultural Debris	10/19/2006	Split spoon	Pass	KC
SEAD-57	J10-019	739004.844	1009290.555	8	nT	9/6/2006	8	3	12	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J10-032	739102.91	1009298.989	38	nT	9/6/2006	38	3	30	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J10-035	739124.75	1009341.913	6	nT	9/6/2006	6	3	26	Hot Soil	9/8/2006	Large hot rock	-	
SEAD-57	J10-036	739124.858	1009370.998	27	nT	9/6/2006	27	3	30	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J10-043	739069.068	1009322.127	8	nT	9/6/2006	8	3	12	Cultural Debris	9/8/2006		-	
SEAD-57	J11-001	739116.965	1009498.256	52	nT	9/6/2006	52	3	24	Cultural Debris	9/8/2006	Iron rod	-	
SEAD-57	J11-007	739011.006	1009452.737	36	nT	9/6/2006	36	3	14	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	J11-020	739079.123	1009435.33	14	nT	9/6/2006	14	3	22	Hot Soil	9/8/2006	Small hot rock	Pass	KC
SEAD-57	J11-022	739124.75	1009397.595	12	nT	9/6/2006	12	3	24	Cultural Debris	9/8/2006	Wire, same as #23	-	
SEAD-57	J11-023	739124.75	1009405.596	89	nT	9/6/2006	89	3	36	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J11-025	739124.534	1009445.493	39	nT	9/6/2006	39	3	18	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J12-001	739107.585	1009619.564	8	nT	10/16/2006	8	3	14	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J12-003	739115.177	1009615.272	8	nT	10/16/2006	7	3	15	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J12-010	739089.925	1009503.207	11	nT	10/16/2006	12	3	4	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-002	739140.037	1009066.325	13	nT	10/16/2006	12	3	24	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-005	739167.579	1009067.45	41	nT	10/16/2006	42	3	21	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-009	739182.381	1009011.053	27	nT	10/16/2006	28	3	20	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-010	739167.579	1009009.741	12	nT	10/16/2006	11	3	9	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-012	739159.897	1009007.306	12	nT	10/16/2006	13	3	4	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-016	739127.67	1009018.922	16	nT	10/16/2006	16	3	8	Cultural Debris	10/19/2006	Scrap metal	-	
SEAD-57	K08-018	739147.531	1009010.116	20	nT	10/16/2006	21	3	12	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-020	739170.202	1009021.545	35	nT	10/16/2006	35	3	4	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K09-004	739180.133	1009157.947	14	nT	10/16/2006	15	3	24	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K10-001	739152.403	1009306.34	12	nT	10/16/2006	11	3	15	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K10-004	739132.542	1009373.229	16	nT	10/16/2006	17	3	7	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K10-008	739124.86	1009288.166	14	nT	10/16/2006	13	3	17	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K10-009	739132.355	1009283.481	12	nT	10/16/2006	11	3	9	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K10-011	739185.566	1009274.113	18	nT	10/16/2006	19	3	33	Cultural Debris	10/19/2006	Scrap metal	Pass	KC
SEAD-57	K11-005	739142.392	1009489.507	30	nT	10/16/2006	31	3	15	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K12-001	739132.439	1009560.823	14	nT	10/16/2006	15	3	19	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K12-004	739143.84	1009602	21	nT	10/16/2006	22	3	5	Cultural Debris	10/19/2006	Wire cable piece	Pass	KC
SEAD-57	K12-005	739135.842	1009588.728	22	nT	10/18/2006	23	3	9	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	P57_M06-14	739257	1008920.25	18	Mv	7/7/2006	16	3	2	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	P57_M06-21	739259.5	1008935	122	Mv	7/7/2006	200	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-26	739277	1008972.25	34	Mv	7/7/2006	70	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-3	739272.75	1008924	160	Mv	7/7/2006	170	3	2	Cultural Debris	7/10/2006	wire	-	
SEAD-57	P57_M06-30	739274	1008973.75	20	Mv	7/7/2006	30	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-33	739281	1008998.5	25	Mv	7/7/2006	55	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-37	739306	1008973.75	30	Mv	7/7/2006	25	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-39	739332.25	1008997.75	74	Mv	7/7/2006	75	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-4	739273.5	1008925.25	271	Mv	7/7/2006	280	3	2	Cultural Debris	7/10/2006	Wire	-	
SEAD-57	P57_M06-40	739338.25	1008998.75	36	Mv	7/7/2006	28	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-44	739345.25	1008991.25	71	Mv	7/7/2006	90	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-47	739340.25	1008979	63	Mv	7/7/2006	98	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-48	739357	1008976.75	32	Mv	7/7/2006	45	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-5	739275	1008925.25	403	Mv	7/7/2006	320	3	4	Cultural Debris	7/10/2006	Wire	-	
SEAD-57	P57_M06-50	739352.75	1008967.75	25	Mv	7/7/2006	20	3	4	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-54	739334.5	1008966.75	27	Mv	7/7/2006	5000	3	3	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	P57_M06-68	739317.25	1008948.5	28	Mv	7/7/2006	25	3	8	Cultural Debris	7/10/2006	Wire	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	P57_M06-70	739303.25	1008942	19	Mv	7/7/2006	15	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57_M06-75	739293.25	1008945.25	47	Mv	7/7/2006	20	3	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-76	739283.5	1008947	20	Mv	7/7/2006	18	3	5	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57_M06-84	739277.25	1008919.75	41	Mv	7/7/2006	105	3	4	Cultural Debris	7/10/2006	Wire	-	
SEAD-57	P57K06-100	739006	1008802.5	22	Mv	7/13/2006	30	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-102	739022	1008813	40	Mv	7/13/2006	65	3	1	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-104	739028.75	1008809	50	Mv	7/13/2006	48	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-108	739031.5	1008815.5	25	Mv	7/13/2006	30	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-109	739031.25	1008821.5	22	Mv	7/13/2006	35	3	7	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-111	739020	1008828.75	30	Mv	7/13/2006	33	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-112	739012.75	1008824.5	39	Mv	7/13/2006	55	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-120	739016	1008856.25	59	Mv	7/13/2006	125	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-127	739009.25	1008905.25	38	Mv	7/11/2006	80	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-129	739005.75	1008911.5	72	Mv	7/11/2006	70	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-131	739012.25	1008923	66	Mv	7/11/2006	80	3	1	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-132	739008.5	1008925.25	95	Mv	7/11/2006	115	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-135	739023.25	1008933.25	51	Mv	7/11/2006	75	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-138	739019.5	1008947.25	35	Mv	7/11/2006	35	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-139	739022.75	1008944.5	18	Mv	7/11/2006	25	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-14	739068.5	1008881	22	Mv	7/11/2006	70	3	3	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-140	739028.25	1008949.5	23	Mv	7/11/2006	35	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-141	739031	1008956	58	Mv	7/11/2006	70	3	4	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-142	739036.5	1008954.25	27	Mv	7/11/2006	40	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-145	739040.75	1008957.75	75	Mv	7/11/2006	115	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-147	739041	1008945.5	43	Mv	7/11/2006	50	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-153	739060.25	1008946	59	Mv	7/11/2006	75	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-161	739050.25	1008962.25	75	Mv	7/11/2006	60	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-165	739071	1008987.5	86	Mv	7/13/2006	85	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-174	739115	1008996.75	19	Mv	7/12/2006	30	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-178	739133.25	1008992.25	35	Mv	7/12/2006	80	3	1	Cultural Debris	7/18/2006	Trash	-	
SEAD-57	P57K06-18	739065.25	1008869	53	Mv	7/11/2006	170	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-181	739122.5	1008980.75	182	Mv	7/12/2006	170	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-182	739128.75	1008973.25	38	Mv	7/12/2006	28	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-185	739193.75	1008979.75	20	Mv	7/13/2006	22	3	1	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-186	739201.75	1008991	32	Mv	7/13/2006	28	3	2	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	P57K06-188	739204	1008990.25	26	Mv	7/13/2006	20	3	1	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-189	739204.75	1008985.75	102	Mv	7/13/2006	115	3	1	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-190	739203	1008984.75	48	Mv	7/13/2006	17	3	1	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-195	739213	1008980.5	67	Mv	7/13/2006	82	3	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-196	739222.5	1008970.25	29	Mv	7/13/2006	21	3	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-199	739239	1008943.75	24	Mv	7/13/2006	25	3	1	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	P57K06-20	739053.75	1008879.75	55	Mv	7/11/2006	200	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-200	739239.5	1008932.5	18	Mv	7/13/2006	25	3	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-204	739218.5	1008920.25	30	Mv	7/13/2006	28	3	2	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	P57K06-205	739217	1008917.75	28	Mv	7/13/2006	25	3	2	Cultural Debris	7/19/2006	wire	-	
SEAD-57	P57K06-206	739215.5	1008915.5	72	Mv	7/13/2006	95	3	2	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	P57K06-209	739200.72	1008912.46	80	Mv	7/13/2006	120	3	6	Cultural Debris	7/18/2006	Trash	-	
SEAD-57	P57K06-21	739040.75	1008881.5	73	Mv	7/11/2006	110	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-214	739207.75	1008923.25	34	Mv	7/13/2006	34	3	4	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-218	739218.75	1008930.25	29	Mv	7/13/2006	23	3	2	Munitions Debris	7/19/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-223	739202.25	1008935.75	17	Mv	7/13/2006	50	3	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-226	739197.25	1008947.75	96	Mv	7/13/2006	120	3	2	Munitions Debris	7/19/2006	MK25 pieces	-	
SEAD-57	P57K06-227	739126.75	1008949	49	Mv	7/13/2006	75	3	1	Cultural Debris	7/18/2006	Wire	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	P57K06-229	739117.25	1008959.25	64	Mv	7/12/2006	100	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-23	739034	1008889.75	31	Mv	7/11/2006	20	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-233	739106	1008946	92	Mv	7/11/2006	100	3	2	Munitions Debris	7/18/2006	Frag	-	
SEAD-57	P57K06-236	739111.5	1008927.75	28	Mv	7/11/2006	33	3	2	Munitions Debris	7/17/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-239	739117.25	1008938	23	Mv	7/12/2006	35	3	1	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-24	739038	1008895	53	Mv	7/11/2006	44	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-241	739117.5	1008920.25	34	Mv	7/11/2006	35	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-242	739123	1008914.25	72	Mv	7/11/2006	130	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-244	739111.25	1008910	22	Mv	7/11/2006	25	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-245	739111	1008906.75	40	Mv	7/11/2006	60	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-247	739120.99	1008899.48	27	Mv	7/11/2006	110	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-25	739040	1008912.5	78	Mv	7/11/2006	90	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-250	739123	1008895	98	Mv	7/11/2006	115	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-252	739123	1008884.5	77	Mv	7/11/2006	95	3	2	Cultural Debris	7/17/2006	Trash	-	
SEAD-57	P57K06-253	739111.5	1008887	62	Mv	7/11/2006	80	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-255	739115.5	1008880.5	56	Mv	7/11/2006	25	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-256	739115.25	1008878.5	61	Mv	7/11/2006	60	3	2	Cultural Debris	7/17/2006	Trash	-	
SEAD-57	P57K06-257	739118.25	1008879.75	18	Mv	7/11/2006	55	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-263	739115.75	1008863.5	61	Mv	7/13/2006	115	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-265	739115.25	1008866.5	91	Mv	7/13/2006	85	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-27	739052	1008926	42	Mv	7/11/2006	60	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-270	739079.25	1008875.75	69	Mv	7/11/2006	133	3	2	Munitions Debris	7/19/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-272	739085	1008884	23	Mv	7/11/2006	33	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-273	739079.5	1008888.5	27	Mv	7/11/2006	30	3	2	Cultural Debris	7/18/2006	Nail	-	
SEAD-57	P57K06-275	739075.75	1008900.75	42	Mv	7/11/2006	200	3	2	Cultural Debris	7/18/2006	Trash	-	
SEAD-57	P57K06-278	739077.75	1008905.75	71	Mv	7/11/2006	90	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-279	739076.67	1008903.41	101	Mv	7/11/2006	110	3	2	Cultural Debris	7/18/2006	Trash	-	
SEAD-57	P57K06-282	739100	1008913.25	60	Mv	7/11/2006	80	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-286	739091.25	1008915.5	60	Mv	7/11/2006	115	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-288	739088.25	1008919.5	21	Mv	7/11/2006	120	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-290	739082.25	1008923.5	24	Mv	7/11/2006	20	3	3	Munitions Debris	7/19/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-295	739094	1008957.5	287	Mv	7/12/2006	320	3	2	Cultural Debris	7/18/2006	Wire	Pass	KC
SEAD-57	P57K06-296	739097	1008960.75	36	Mv	7/12/2006	70	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-297	739100.25	1008959	83	Mv	7/12/2006	95	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-3	739060.25	1008929.25	71	Mv	7/11/2006	73	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-30	739034.5	1008937.5	34	Mv	7/11/2006	55	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-301	739105.5	1008978.75	25	Mv	7/12/2006	115	3	1	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-31	739034.5	1008931	20	Mv	7/11/2006	35	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-315	739071.25	1008950.75	44	Mv	7/11/2006	43	3	2	Munitions Debris	7/18/2006	Frag	-	
SEAD-57	P57K06-33	739034	1008920.75	93	Mv	7/11/2006	125	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-34	739028	1008916.75	25	Mv	7/11/2006	25	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-35	739028.25	1008912.5	129	Mv	7/11/2006	170	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-36	739019	1008908.5	16	Mv	7/11/2006	16	3	8	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-38	739016.25	1008894.25	76	Mv	7/11/2006	80	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-39	739013	1008887.25	35	Mv	7/11/2006	75	3	3	Munitions Debris	7/17/2006	MK25 pieces	Pass	KC
SEAD-57	P57K06-40	739024	1008879.5	32	Mv	7/11/2006	63	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-41	739027.75	1008877.75	104	Mv	7/11/2006	165	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-42	739026.25	1008872.75	38	Mv	7/11/2006	63	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-43	739031	1008868	40	Mv	7/11/2006	78	3	3	Cultural Debris	7/17/2006	Trash	-	
SEAD-57	P57K06-44	739038.75	1008869.5	34	Mv	7/11/2006	60	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-49	739030.75	1008853.25	21	Mv	7/11/2006	40	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-50	739036.75	1008838.25	18	Mv	7/13/2006	20	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-52	739050.75	1008840.25	27	Mv	7/13/2006	42	3	2	Munitions Debris	7/18/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	P57K06-53	739058.25	1008838.5	116	Mv	7/13/2006	130	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-57	739066.25	1008845.25	74	Mv	7/11/2006	115	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-59	739064.5	1008835.25	73	Mv	7/13/2006	90	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-63	739088	1008854.75	164	Mv	7/11/2006	145	3	2	Munitions Debris	7/18/2006	Frag	-	
SEAD-57	P57K06-64	739100.75	1008846.25	118	Mv	7/11/2006	75	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-65	739103.5	1008843.5	23	Mv	7/11/2006	26	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-66	739106	1008843.75	29	Mv	7/11/2006	25	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-67	739111.5	1008835.5	77	Mv	7/13/2006	100	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-69	739112.75	1008830	135	Mv	7/13/2006	69	3	3	Cultural Debris	7/17/2006	Trash	Pass	KC
SEAD-57	P57K06-70	739112.25	1008827.25	26	Mv	7/13/2006	90	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-71	739091.25	1008831.75	18	Mv	7/13/2006	16	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-73	739084	1008811.5	18	Mv	7/13/2006	18	3	3	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-74	739082.25	1008811.75	37	Mv	7/13/2006	65	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-76	739064.75	1008809.75	58	Mv	7/13/2006	75	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-79	739087.5	1008782.25	25	Mv	7/13/2006	60	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-8	739050.25	1008906	98	Mv	7/11/2006	105	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-80	739093.25	1008787	38	Mv	7/13/2006	27	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-81	739114	1008778.75	31	Mv	7/13/2006	23	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-82	739105	1008765.75	38	Mv	7/13/2006	45	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-83	739095.5	1008761.75	60	Mv	7/13/2006	110	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-84	739088.75	1008763	22	Mv	7/13/2006	65	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-85	739080.25	1008761.75	17	Mv	7/13/2006	25	3	3	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K06-87	739068.25	1008769.75	59	Mv	7/13/2006	95	3	2	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K06-9	739053.5	1008897	21	Mv	7/11/2006	18	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-93	739036.5	1008757.75	108	Mv	7/13/2006	125	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-98	739018	1008773.5	27	Mv	7/13/2006	25	3	2	Munitions Debris	7/17/2006	Frag	-	
SEAD-57	P57K06-99	739020	1008793.25	21	Mv	7/13/2006	30	3	2	Munitions Debris	7/17/2006	Frag	Pass	KC
SEAD-57	P57K08-100	739209.75	1009153.75	51	Mv	7/10/2006	51	3	9	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-110	739198.75	1009166	20	Mv	7/10/2006	39	3	20	Munitions Debris	7/11/2006	Multipl digs/pieces/brass	-	
SEAD-57	P57K08-113	739208.75	1009173	38	Mv	7/10/2006	56	3	10	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-116	739205.75	1009182.5	99	Mv	7/10/2006	101	3	14	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-128	739196	1009197.25	38	Mv	7/10/2006	54	3	20	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-129	739195.5	1009200.75	97	Mv	7/10/2006	110	3	5	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-133	739206.25	1009197.5	30	Mv	7/10/2006	47	3	18	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-134	739208	1009195.75	32	Mv	7/10/2006	18	3	12	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-141	739217.75	1009210.75	81	Mv	7/10/2006	118	3	5	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-144	739205.25	1009222	22	Mv	7/10/2006	25	3	18	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-147	739198	1009226	69	Mv	7/10/2006	85	3	4	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-156	739220	1009234	72	Mv	7/10/2006	95	3	13	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-159	739234.25	1009248	33	Mv	7/10/2006	43	3	6	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-161	739239	1009243.5	59	Mv	7/10/2006	115	3	6	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-18	739249.25	1009120	61	Mv	7/10/2006	63	3	4	Munitions Debris	7/11/2006	Multiple digs/pieces	-	
SEAD-57	P57K08-19	739237.5	1009124.5	34	Mv	7/10/2006	51	3	6	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-29	739231.75	1009099.75	74	Mv	7/10/2006	89	3	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-30	739234.75	1009097.25	39	Mv	7/10/2006	39	3	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-31	739246.25	1009100.5	38	Mv	7/10/2006	65	3	1	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-62	739194.5	1009042	27	Mv	6/1/2006	25	3	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-63	739196.75	1009048	44	Mv	6/1/2006	65	3	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-64	739199.75	1009059.75	54	Mv	7/10/2006	70	3	8	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-65	739196.75	1009078.75	26	Mv	7/10/2006	47	3	18	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-7	739229	1009200.75	30	Mv	7/10/2006	56	3	6	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	P57K08-71	739215	1009062	56	Mv	7/10/2006	105	3	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-74	739222.75	1009078.5	37	Mv	7/10/2006	45	3	3	Munitions Debris	7/11/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Item		
		Easting (X)	Northing (Y)												
SEAD-57	P57K08-75	739228.75	1009082.75	162	Mv	7/10/2006	242	3	1	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-82	739195	1009108.5	29	Mv	7/10/2006	46	3	22	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-88	739212	1009133.75	21	Mv	7/10/2006	32	3	4	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	P57K08-91	739218	1009143.75	71	Mv	7/10/2006	90	3	1	Munitions Debris	7/11/2006	Multiple digs/pieces +[steel]	-		
SEAD-57	P57K08-92	739225.75	1009135.75	72	Mv	7/10/2006	116	3	6	Cultural Debris	7/11/2006	Trash	Pass	KC	
SEAD-57	P57K10-104	739218.5	1009379.5	42	Mv	7/13/2006	57	3	8	Cultural Debris	7/18/2006	Trash	-		
SEAD-57	P57K10-107	739224	1009393	37	Mv	7/13/2006	40	3	8	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-117	739225.25	1009343	32	Mv	7/11/2006	36	3	5	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-126	739196.75	1009320.5	17	Mv	7/11/2006	18	3	7	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-13	739173.5	1009489	96	Mv	7/13/2006	98	3	6	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-131	739204.25	1009300	34	Mv	7/11/2006	35	3	20	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-134	739214.75	1009293.25	24	Mv	7/11/2006	22	3	15	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-141	739199.25	1009276.25	97	Mv	7/11/2006	100	3	5	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-142	739207.25	1009274.25	36	Mv	7/11/2006	39	3	14	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-147	739200.5	1009266.75	84	Mv	7/11/2006	86	3	10	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-150	739195	1009251.5	107	Mv	7/11/2006	119	3	7	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-151	739200.25	1009253.75	127	Mv	7/11/2006	132	3	1	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-153	739211.5	1009256.5	23	Mv	7/11/2006	55	3	5	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-156	739227.5	1009256.75	170	Mv	7/11/2006	180	3	16	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-162	739238	1009279	36	Mv	7/11/2006	36	3	14	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-178	739243.25	1009307.75	47	Mv	7/11/2006	50	3	6	Cultural Debris	7/18/2006	Trash	-		
SEAD-57	P57K10-181	739243.25	1009321.75	41	Mv	7/11/2006	45	3	8	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-187	739246.75	1009376.5	27	Mv	7/13/2006	29	3	24	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-192	739229.5	1009402.75	59	Mv	7/13/2006	81	3	10	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-195	739234	1009420.25	70	Mv	7/13/2006	104	3	4	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-197	739239.75	1009424.75	102	Mv	7/13/2006	163	3	2	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-20	739166	1009464.5	21	Mv	7/13/2006	23	3	4	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-201	739228.5	1009444.5	64	Mv	7/13/2006	86	3	6	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K10-202	739228.25	1009447.5	51	Mv	7/13/2006	53	3	14	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-4	739246	1009483.25	60	Mv	7/13/2006	126	3	5	Munitions Debris	7/17/2006	Multiple digs/pieces	Pass	KC	
SEAD-57	P57K10-50	739217.75	1009407.25	54	Mv	7/13/2006	104	3	8	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-58	739202	1009413.25	21	Mv	7/13/2006	29	3	20	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-6	739245.5	1009488	60	Mv	7/13/2006	87	3	5	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-70	739202.75	1009394	40	Mv	7/13/2006	42	3	24	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-77	739206.25	1009372.75	29	Mv	7/13/2006	36	3	10	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-78	739208	1009373	39	Mv	7/13/2006	40	3	2	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-81	739202.25	1009369.5	72	Mv	7/13/2006	83	3	24	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-85	739195	1009364.25	29	Mv	7/13/2006	31	3	20	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57K10-88	739194	1009355	26	Mv	7/13/2006	76	3	8	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-92	739196.75	1009344.5	97	Mv	7/11/2006	103	3	5	Munitions Debris	7/18/2006	Alum MD Alum MD	-		
SEAD-57	P57M08-1	739327	1009228.25	120	Mv	7/5/2006	175	3	18	Munitions Debris	7/11/2006	Multiple digs/pieces	-		
SEAD-57	P57M08-10	739379.75	1009232.75	19	Mv	7/6/2006	20	3	1	Cultural Debris	7/7/2006	Trash	-		
SEAD-57	P57M08-106	739259.5	1009238.25	77	Mv	7/5/2006	105	3	2	Cultural Debris	7/7/2006	seed item	-		
SEAD-57	P57M08-107	739268	1009240.75	21	Mv	7/6/2006	25	3	2	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-114	739293.25	1009220.5	75	Mv	7/5/2006	90	3	1	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-116	739315.75	1009228.75	17	Mv	7/6/2006	18	3	1	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-15	739377	1009205.25	21	Mv	7/6/2006	40	3	2	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-16	739393.25	1009207.75	44	Mv	7/6/2006	100	3	1	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-17	739401.25	1009216.25	66	Mv	7/6/2006	125	3	1	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-2	739342.75	1009218	31	Mv	7/6/2006	90	3	2	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-21	739366	1009188.25	17	Mv	7/6/2006	40	3	2	Munitions Debris	7/7/2006	Frag	-		
SEAD-57	P57M08-22	739360.5	1009191.75	21	Mv	7/6/2006	30	3	2	Munitions Debris	7/7/2006	frag	-		
SEAD-57	P57M08-23	739360.75	1009179.5	30	Mv	7/6/2006	30	3	2	Munitions Debris	7/7/2006	Frag	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	P57M08-24	739366	1009176	57	Mv	7/5/2006	100	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-25	739366.25	1009158.75	59	Mv	7/6/2006	95	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-26	739366.25	1009154	78	Mv	7/6/2006	130	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-27	739374.5	1009146.5	86	Mv	7/6/2006	95	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-28	739369.25	1009140	36	Mv	7/6/2006	30	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-29	739366	1009135.5	42	Mv	7/6/2006	85	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-3	739351	1009220.75	29	Mv	7/6/2006	58	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-31	739355.75	1009133	19	Mv	7/6/2006	25	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-32	739328.25	1009158.25	29	Mv	7/6/2006	0	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-33	739320	1009175.75	19	Mv	7/6/2006	20	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-35	739338.25	1009190.75	24	Mv	7/6/2006	35	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-4	739359.75	1009226.75	75	Mv	7/5/2006	65	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-40	739294.25	1009181.5	25	Mv	7/6/2006	40	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-41	739297.5	1009158.75	25	Mv	7/6/2006	30	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-42	739294.75	1009144	43	Mv	7/6/2006	70	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-43	739300	1009144.5	61	Mv	7/6/2006	65	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-46	739334.25	1009114.5	17	Mv	7/6/2006	20	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-48	739366.5	1009113.5	80	Mv	7/6/2006	90	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-50	739385.75	1009113	80	Mv	7/6/2006	75	3	3	Munitions Debris	7/11/2006	Frag	-	-
SEAD-57	P57M08-51	739376.75	1009088	17	Mv	7/6/2006	30	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-52	739375.75	1009042	23	Mv	7/6/2006	20	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-54	739373.75	1009023.75	20	Mv	7/6/2006	20	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-55	739361	1009000.5	89	Mv	7/6/2006	89	3	3	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57M08-58	739347.72	1009022.1	18	Mv	7/6/2006	18	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-59	739314.75	1009030.5	22	Mv	7/6/2006	22	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-60	739323.5	1009042	24	Mv	7/6/2006	24	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-61	739325.5	1009054.25	16	Mv	7/6/2006	35	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-62	739328	1009056.5	17	Mv	7/6/2006	20	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-63	739339.5	1009078.75	40	Mv	7/6/2006	20	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-64	739331	1009072.5	61	Mv	7/6/2006	180	3	12	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-65	739318	1009065.5	47	Mv	7/6/2006	80	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-66	739316.75	1009056	59	Mv	7/6/2006	20	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-67	739306.75	1009064.25	22	Mv	7/6/2006	55	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-68	739294.5	1009049.5	17	Mv	7/6/2006	35	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-69	739284	1009024.5	20	Mv	7/6/2006	20	3	2	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57M08-70	739291.75	1009011.5	36	Mv	7/6/2006	36	3	2	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57M08-72	739253	1009004	89	Mv	7/6/2006	89	3	2	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57M08-74	739272.25	1009034.25	68	Mv	7/6/2006	68	3	3	Munitions Debris	7/10/2006	Frag	-	-
SEAD-57	P57M08-75	739279	1009049.75	26	Mv	7/6/2006	25	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-76	739272.25	1009067.75	17	Mv	7/6/2006	25	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-77	739269.75	1009073.5	18	Mv	7/6/2006	20	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-78	739266.75	1009080	32	Mv	7/6/2006	32	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-79	739272.75	1009082	26	Mv	7/6/2006	20	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-80	739294	1009083.5	24	Mv	7/6/2006	35	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-81	739274.75	1009098.75	24	Mv	7/6/2006	25	3	3	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-82	739274.75	1009109.25	17	Mv	7/6/2006	25	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-83	739255	1009107.5	89	Mv	7/5/2006	105	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-84	739256.5	1009117	122	Mv	7/6/2006	180	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-86	739260	1009129.5	52	Mv	7/6/2006	60	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-89	739266.25	1009148.25	48	Mv	7/6/2006	70	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-90	739260	1009155.25	41	Mv	7/6/2006	85	3	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-91	739260	1009160	39	Mv	7/6/2006	85	3	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	P57M08-93	739257	1009178.75	67	Mv	7/6/2006	90	3	1	Munitions Debris	7/7/2006	Frag	-	-

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	P57M08-94	739269.25	1009174	34	Mv	7/6/2006	45	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	P57M08-95	739272.25	1009185	25	Mv	7/6/2006	65	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	P57M08-97	739282.75	1009187.75	20	Mv	7/6/2006	28	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	P57M08-98	739262.5	1009205.5	24	Mv	7/6/2006	25	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	P57M08-99	739269	1009209	80	Mv	7/5/2006	115	3	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	P57M10-103	739319	1009420.75	34	Mv	7/10/2006	108	3	5	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	P57M10-106	739303	1009384.75	38	Mv	7/10/2006	42	3	24	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-108	739309.5	1009370	20	Mv	7/10/2006	28	3	6	Munitions Debris	7/10/2006	Multiple digs/pieces	-	
SEAD-57	P57M10-12	739384.25	1009332	28	Mv	7/10/2006	38	3	8	Cultural Debris	7/10/2006	Slag	-	
SEAD-57	P57M10-14	739365.5	1009310.75	18	Mv	7/10/2006	27	3	4	Munitions Debris	7/10/2006	Multiple digs/pieces	-	
SEAD-57	P57M10-29	739325	1009269.5	16	Mv	7/10/2006	43	3	4	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-37	739341.53	1009368.44	82	Mv	7/10/2006	180	3	8	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-31	739344.25	1009279.75	18	Mv	7/10/2006	28	3	4	Munitions Debris	7/10/2006	Multiple digs / pieces	-	
SEAD-57	P57M10-35	739345.5	1009307.25	75	Mv	7/10/2006	115	3	5	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-37	739345.38	1009329.75	56	Mv	7/10/2006	60	3	8	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-40	739334.25	1009337.5	22	Mv	7/10/2006	36	3	20	Cultural Debris	7/10/2006	Trash	Pass	KC
SEAD-57	P57M10-44	739278.25	1009320.75	18	Mv	7/10/2006	72	3	24	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-50	739302.25	1009308	44	Mv	7/10/2006	80	3	4	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-51	739319	1009301	17	Mv	7/10/2006	36	3	6	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-64	739255.25	1009270.75	20	Mv	7/10/2006	51	3	8	Munitions Debris	7/10/2006	Multiple digs / also scrap pieces of aluminum/steel	-	
SEAD-57	P57M10-71	739268.25	1009330.5	65	Mv	7/10/2006	113	3	4	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-79	739281.5	1009422	51	Mv	7/10/2006	86	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-8	739375	1009360	52	Mv	7/10/2006	81	3	7	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-80	739283.5	1009422.25	96	Mv	7/10/2006	106	3	14	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-82	739280.25	1009444	86	Mv	7/10/2006	89	3	4	Cultural Debris	7/10/2006	seed item	Pass	KC
SEAD-57	P57M10-9	739355	1009357.5	63	Mv	7/10/2006	93	3	5	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	P57M10-95	739298	1009460.75	22	Mv	7/10/2006	630	3	8	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	P57M10-97	739331.25	1009435.75	59	Mv	7/10/2006	97	3	4	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-98	739334.75	1009427.75	23	Mv	7/10/2006	112	3	5	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	S57_M12_4	739251.94	1009500.48	33	Mv	7/10/2006	328	3	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	S57K12-12	739165.09	1009523.03	60	Mv	7/10/2006	135	3	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-13	739158.5	1009519	58	Mv	7/10/2006	75	3	3	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-2	739156.25	1009560.5	90	Mv	7/10/2006	105	3	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-23	739182.5	1009526.25	37	Mv	7/10/2006	30	3	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-24	739179.5	1009533.75	90	Mv	7/10/2006	200	3	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-28	739182.25	1009540.75	44	Mv	7/10/2006	65	3	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-3	739159.25	1009561.25	32	Mv	7/10/2006	30	3	2	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-33	739212	1009545.5	18	Mv	7/10/2006	50	3	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-36	739210	1009535	35	Mv	7/10/2006	115	3	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-40	739195.25	1009504.5	18	Mv	7/10/2006	25	3	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-50	739232.25	1009538.25	24	Mv	7/10/2006	35	3	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-55	739202	1009570.5	59	Mv	7/10/2006	55	3	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-57	739151.75	1009586.5	88	Mv	7/10/2006	100	3	1	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-6	739159.75	1009542.25	34	Mv	7/10/2006	45	3	6	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57	S57K12-7	739165.5	1009538	48	Mv	7/10/2006	70	3	3	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	S57K12-9	739160.75	1009537.25	42	Mv	7/10/2006	20	3	2	Munitions Debris	7/11/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-001	738009	1009908	708	mV	9/28/2006	708	3	6	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-005	738001.25	1009890.5	17	mV	9/28/2006	17	3	4	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-006	737994.5	1009885.5	24	mV	9/28/2006	24	3	7	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-015	737931.75	1009917.5	214	mV	9/28/2006	214	3	18	Cultural Debris	10/10/2006	Wire	Pass	KC
SEAD-57 Buffer	A14-021	737969	1009890.5	18	mV	9/28/2006	18	3	6	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-029	738014.75	1009854.75	35	mV	9/28/2006	35	3	5	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-032	738033.5	1009861	20	mV	9/28/2006	20	3	12	Cultural Debris	10/9/2006		Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	A14-044	738053.75	1009852.75	21	mV	9/28/2006	21	3	16	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-047	738054.25	1009841.5	280	mV	9/28/2006	280	3	8	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-050	738081.25	1009848.75	294	mV	9/28/2006	294	3	12	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-051	738097	1009849.25	16	mV	9/28/2006	16	3	8	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-053	738104.5	1009844.75	18	mV	9/28/2006	18	3	4	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-054	738121.25	1009841.25	25	mV	9/28/2006	25	3	18	Cultural Debris	10/5/2006	-		
SEAD-57 Buffer	A14-055	738116.42	1009834.8	16	mV	9/28/2006	16	3	14	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-062	738068.25	1009823.75	28	mV	9/28/2006	28	3	15	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-069	737993.75	1009827.25	241	mV	9/28/2006	241	3	10	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A14-073	737979.75	1009823.75	23	mV	9/28/2006	23	3	3	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-079	737962	1009835.5	35	mV	9/28/2006	35	3	4	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-084	737948.75	1009840.25	44	mV	9/28/2006	44	3	20	Cultural Debris	10/4/2006	Pass	KC	
SEAD-57 Buffer	A14-098	737915.67	1009840.93	161	mV	9/28/2006	161	3	6	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-104	737940.75	1009843.5	85	mV	9/28/2006	85	3	24	Cultural Debris	10/4/2006	Pass	KC	
SEAD-57 Buffer	A14-106	737933	1009859.5	18	mV	9/28/2006	18	3	12	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-109	737914	1009878.25	237	mV	9/28/2006	237	3	12	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-110	737900.25	1009870	25	mV	9/28/2006	25	3	14	Munitions Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-113	737895.19	1009874.36	36	mV	9/28/2006	36	3	6	Munitions Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-114	737904.75	1009883.75	175	mV	9/28/2006	175	3	2	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-115	737902.25	1009888.75	309	mV	9/28/2006	309	3	8	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-116	737913.92	1009901.66	55	mV	9/28/2006	55	3	8	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-117	737897.25	1009901.5	122	mV	9/28/2006	122	3	18	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-119	737896.5	1009930.75	550	mV	9/28/2006	550	3	3	Munitions Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-120	737878	1009959.5	31	mV	9/28/2006	31	3	13	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-126	737975.5	1009950	21	mV	9/28/2006	21	3	18	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-127	737978.25	1009944.25	24	mV	9/28/2006	24	3	8	Cultural Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-128	737993.5	1009947.5	187	mV	9/28/2006	187	3	2	Munitions Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A14-130	737987.25	1009985.25	26	mV	9/28/2006	26	3	5	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A14-131	737991.25	1009999	29	mV	9/28/2006	29	3	14	Munitions Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A14-140	738046	1009952.75	18	mV	9/28/2006	18	3	24	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A14-153	738047.25	1009938.25	30	mV	9/28/2006	30	3	3	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A14-155	738037.25	1009931.5	73	mV	9/28/2006	73	3	3	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-006	737902.5	1010043	149	mV	9/28/2006	149	3	3	Munitions Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A16-017	737967.25	1010055	47	mV	9/28/2006	47	3	4	Munitions Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A16-036	738050	1010095.25	17	mV	9/28/2006	17	3	8	Munitions Debris	10/10/2006	Pass	KC	
SEAD-57 Buffer	A16-041	738071.75	1010088.75	32	mV	9/28/2006	32	3	29	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-050	738074.75	1010004.75	50	mV	9/28/2006	50	3	6	Cultural Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-062	738122.5	1010182.5	42	mV	9/28/2006	42	3	5	Munitions Debris	10/5/2006	-		
SEAD-57 Buffer	A16-065	738076.75	1010230	18	mV	9/28/2006	18	3	0	Cultural Debris	10/24/2006	Pass	KC	
SEAD-57 Buffer	A16-067	738040	1010247	54	mV	9/28/2006	54	3	28	Munitions Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-069	738065.5	1010198	62	mV	9/28/2006	62	3	10	Munitions Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-072	738020.75	1010175.25	74	mV	9/28/2006	74	3	2	Munitions Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-074	738060	1010147.75	20	mV	9/28/2006	20	3	13	Munitions Debris	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-077	738015.5	1010139	17	mV	9/28/2006	17	3	20	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-078	738015.75	1010136.25	21	mV	9/28/2006	21	3	13	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-079	738003	1010116	16	mV	9/28/2006	16	3	6	Munitions Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-092	737969.46	1010203.19	27	mV	9/28/2006	27	3	4	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-095	737961.75	1010234.25	62	mV	9/28/2006	62	3	7	Munitions Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-097	737887.76	1010248.99	182	mV	9/28/2006	182	3	15	Munitions Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-099	737888.75	1010211	18	mV	9/28/2006	18	3	24	Munitions Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A18-001	737967.25	1010257.5	64	mV	9/28/2006	64	3	11	Munitions Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A18-002	737973.5	1010264	48	mV	9/28/2006	48	3	6	Cultural Debris	10/9/2006	Pass	KC	
SEAD-57 Buffer	A18-004	737969.5	1010273.75	45	mV	9/28/2006	45	3	13	Munitions Debris	10/9/2006	Pass	KC	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	A18-007	737875.5	1010271.5	27	mV	9/28/2006	27	3	8	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-010	737980.68	1010306.31	29	mV	9/28/2006	29	3	12	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-012	738028.75	1010272.75	32	mV	9/28/2006	32	3	11	Munitions Debris	10/5/2006	Frag, 2 digs, 2 pieces	Pass	KC
SEAD-57 Buffer	A18-015	738058.5	1010297	63	mV	9/28/2006	63	3	26	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-016	738099	1010328.75	17	mV	9/28/2006	17	3	24	Munitions Debris	10/5/2006	Frag	-	
SEAD-57 Buffer	A18-018	738103.5	1010292.75	887	mV	9/28/2006	887	3	5	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-021	738078.75	1010252.75	167	mV	9/28/2006	167	3	18	Munitions Debris	10/5/2006	Frag, same as #22	Pass	KC
SEAD-57 Buffer	A18-022	738075.25	1010253.75	241	mV	9/28/2006	241	3	24	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-024	738038	1010257	197	mV	9/28/2006	197	3	5	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-025	738006	1010261.75	16	mV	9/28/2006	16	3	5	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	C14-007	738274.75	1009986.5	17	mV	9/28/2006	17	3	4	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C14-008	738252.75	1009972.25	84	mV	9/28/2006	84	3	4	Cultural Debris	10/4/2006	Survey stake	Pass	KC
SEAD-57 Buffer	C14-015C1	738190.741	1009916.242	634	mV	10/16/2006	634	3	0	Munitions Debris	7/20/2006	3" alum frag found near C frag	-	
SEAD-57 Buffer	C14-019	738147.25	1009875	194	mV	9/28/2006	194	3	8	Munitions Debris	10/5/2006	Rotating band	Pass	KC
SEAD-57 Buffer	C14-023	738134.5	1009834	413	mV	9/28/2006	413	3	16	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	C16-001	738238.69	1010223.56	70	mV	9/28/2006	70	3	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-002	738257.25	1010237.75	24	mV	9/28/2006	24	3	18	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-004	738294	1010203.5	20	mV	9/28/2006	20	3	13	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-009	738331	1010186.25	18	mV	9/28/2006	18	3	28	Munitions Debris	10/4/2006	Frag	-	
SEAD-57 Buffer	C16-016	738280.5	1010133	22	mV	9/28/2006	22	3	9	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-017	738285.75	1010127.5	22	mV	9/28/2006	22	3	9	Munitions Debris	10/4/2006	Flare piece, also 3 piece of frag, multiple digs	Pass	KC
SEAD-57 Buffer	C16-024	738335.25	1010052.25	31	mV	9/28/2006	31	3	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-029	738288	1010025.75	18	mV	9/28/2006	18	3	4	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C16-033	738234	1010043.25	28	mV	9/28/2006	28	3	5	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-037	738188	1010006.5	34	mV	9/28/2006	34	3	6	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-038	738151.25	1010003.25	24	mV	9/28/2006	24	3	12	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	C16-042	738205	1010074.75	26	mV	9/28/2006	26	3	12	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-045	738211.75	1010104.25	141	mV	9/28/2006	141	3	8	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-048	738235.25	1010155.5	18	mV	10/2/2006	18	3	8	Hot Soil	10/4/2006	Hot Rock	Pass	KC
SEAD-57 Buffer	C16-050	738196	1010152.75	16	mV	10/2/2006	16	3	6	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-051	738175	1010156.75	26	mV	10/2/2006	26	3	20	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-055	738136.75	1010117.5	17	mV	10/2/2006	17	3	16	Cultural Debris	10/5/2006	Bolt	Pass	KC
SEAD-57 Buffer	C16-056	738133.75	1010161.25	238	mV	10/2/2006	238	3	20	Munitions Debris	10/5/2006	2.36 motor	Pass	KC
SEAD-57 Buffer	C16-059	738154	1010207	17	mV	10/2/2006	17	3	8	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-066	738227.15	1010202.21	40	mV	10/2/2006	40	3	7	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-067	738214.5	1010228.5	18	mV	10/2/2006	18	3	3	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-001	738336.75	1010293.5	36	mV	9/26/2006	36	3	26	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-003	738361.5	1010319	23	mV	9/26/2006	23	3	12	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-008	738197.25	1010262.25	82	mV	9/26/2006	82	3	13	Munitions Debris	10/4/2006	Frag, 3 digs, 3 pieces	Pass	KC
SEAD-57 Buffer	C18-012	738215	1010290.25	19	mV	9/26/2006	19	3	2	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-015	738246.75	1010299	17	mV	9/26/2006	17	3	18	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C18-016	738311.25	1010292.5	519	mV	9/26/2006	519	3	5	Munitions Debris	10/4/2006	Frag, 2digs, 2pieces	Pass	KC
SEAD-57 Buffer	E16-012	738393.99	1010122.94	36	mV	10/2/2006	36	3	7	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-017	738408.75	1010081.75	2860	mV	10/2/2006	2860	3	4	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-020	738386.75	1010036	94	mV	10/2/2006	94	3	12	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	E16-029	738501.5	1010080.5	20	mV	10/2/2006	20	3	14	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	E16-037	738567.75	1010122.75	25	mV	10/2/2006	25	3	3	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E16-038	738582.46	1010114.16	149	mV	10/2/2006	149	3	5	Cultural Debris	10/3/2006		Pass	KC
SEAD-57 Buffer	E16-056	738551.75	1010182.75	48	mV	10/2/2006	48	3	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-003	738470.64	1010250.9	74	mV	9/26/2006	74	3	3	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-008	738558.75	1010298.75	60	mV	9/26/2006	60	3	19	Munitions Debris	10/3/2006	20 mm head	Pass	KC
SEAD-57 Buffer	E18-011	738572.75	1010261.75	171	mV	9/26/2006	171	3	8	Munitions Debris	10/3/2006	2.36" rkt motor	Pass	KC
SEAD-57 Buffer	E18-016	738623.25	1010325.25	20	mV	9/26/2006	20	3	2	Munitions Debris	10/3/2006	Fuze piece	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	E18-025	738505	1010305	35	mV	9/26/2006	35	3	4	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-033	738417.25	1010259.25	16	mV	9/26/2006	16	3	18	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	E18-035	738450	1010278.5	51	mV	9/26/2006	51	3	18	Cultural Debris	10/4/2006	Wire	Pass	KC
SEAD-57 Buffer	G16-001	738733.75	1010191.25	31	mV	9/26/2006	31	3	6	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-011	738700.25	1010184.5	2030	mV	9/26/2006	2030	3	16	Munitions Debris	10/3/2006	Frag	-	-
SEAD-57 Buffer	G16-012	738701.45	1010180.02	1065	mV	9/26/2006	1065	3	24	Munitions Debris	10/3/2006	Frag	-	-
SEAD-57 Buffer	G16-016	738678	1010139.25	37	mV	9/26/2006	37	3	3	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-018	738645	1010157	69	mV	9/26/2006	69	3	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-022	738634.5	1010203.25	22	mV	9/26/2006	22	3	5	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G16-031	738701	1010229.5	20	mV	9/26/2006	20	3	5	Munitions Debris	10/3/2006	Frag	-	-
SEAD-57 Buffer	G16-034	738731.25	1010243.75	20	mV	9/26/2006	20	3	8	Cultural Debris	10/3/2006	-	-	-
SEAD-57 Buffer	G16-035	738725	1010217	18	mV	9/26/2006	18	3	16	Munitions Debris	10/3/2006	Frag	-	-
SEAD-57 Buffer	G18-013	738629.75	1010320	20	mV	9/26/2006	20	3	17	Munitions Debris	10/3/2006	Frag, 3 digs, 3 pieces	Pass	KC
SEAD-57 Buffer	G18-017	738649	1010273.5	18	mV	9/26/2006	18	3	30	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-018	738658.5	1010273	23	mV	9/26/2006	23	3	10	Munitions Debris	10/3/2006	Frag	Pass	KC
SEAD-57 Buffer	G18-023	738701.5	1010256.5	70	mV	9/26/2006	70	3	30	MPPEH	10/3/2006	Frag, also 1 ea 20 mm head	Pass	KC
SEAD-57 Buffer	G18-028	738727	1010287.5	59	mV	9/26/2006	59	3	3	Cultural Debris	10/3/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	G18-034	738873.5	1010346.25	20	mV	9/26/2006	20	3	10	Munitions Debris	10/2/2006	frag	-	-
SEAD-57 Buffer	I18-001	738912	1010377	23	mV	9/26/2006	23	3	5	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	I18-006	738909.5	1010316.75	18	mV	9/26/2006	18	3	36	Cultural Debris	10/2/2006	Trailer piece	Pass	KC
SEAD-57 Buffer	I18-007	738906.25	1010326.5	78	mV	9/26/2006	78	3	9	MPPEH	10/2/2006	2.36 war hrad piece	Pass	KC
SEAD-57 Buffer	I18-013	739006.75	1010362.5	19	mV	9/26/2006	19	3	2	Munitions Debris	10/2/2006	Small Arms, .50 cal head	Pass	KC
SEAD-57 Buffer	I18-025	739047.5	1010295.75	54	mV	9/26/2006	54	3	6	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-027	739079.4	1010310.8	160	mV	9/26/2006	160	3	4	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-028	739074.73	1010306.52	38	mV	9/26/2006	38	3	2	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-036	739060	1010342.5	20	mV	9/26/2006	20	3	20	Munitions Debris	10/2/2006	Frag, two digs, 2 pieces	Pass	KC
SEAD-57 Buffer	I18-040	739088.75	1010395	142	mV	9/26/2006	142	3	9	Munitions Debris	10/2/2006	Frag, 2 pieces	Pass	KC
SEAD-57 Buffer	I18-045	739098.25	1010443.75	24	mV	9/26/2006	24	3	20	Munitions Debris	10/2/2006	20 mm [empty]	-	-
SEAD-57 Buffer	I18-046	739063.75	1010423.75	26	mV	9/26/2006	26	3	7	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	I18-047	739046.5	1010401	132	mV	9/26/2006	132	3	6	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	I18-048	739041.46	1010394.85	23	mV	9/26/2006	23	3	5	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	I18-049	739033.5	1010403	24	mV	9/26/2006	24	3	10	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	I18-053	738915.25	1010383.75	17	mV	9/26/2006	17	3	6	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K16-012	739343.75	1010223.25	48	mV	9/26/2006	48	3	6	Cultural Debris	9/28/2006	-	Pass	KC
SEAD-57 Buffer	K18-004	739136	1010354.75	25	mV	9/26/2006	25	3	4	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K18-007	739216.75	1010340.75	121	mV	9/26/2006	121	3	7	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-015	739152.75	1010291.25	21	mV	9/26/2006	21	3	3	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K18-017	739139.25	1010271.5	20	mV	9/26/2006	20	3	4	Munitions Debris	10/2/2006	Frag	-	-
SEAD-57 Buffer	K18-025	739295	1010270	107	mV	9/26/2006	107	3	16	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-027	739309.5	1010284.25	18	mV	9/26/2006	18	3	16	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-035	739361.38	1010265.18	99	mV	9/26/2006	99	3	6	Cultural Debris	9/28/2006	Trash	Pass	KC
SEAD-57 Buffer	K18-038	739333	1010285.5	241	mV	9/26/2006	241	3	12	Cultural Debris	9/28/2006	-	Pass	KC
SEAD-57 Buffer	K18-051	739294.75	1010452.5	159	mV	9/26/2006	159	3	24	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-053	739276.5	1010447.25	30	mV	9/26/2006	30	3	5	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-058	739295.5	1010399.25	21	mV	9/26/2006	21	3	7	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-060	739317.5	1010389.75	66	mV	9/26/2006	66	3	7	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-065	739208	1010369.25	32	mV	9/26/2006	32	3	8	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	K18-072	739185	1010423.5	436	mV	9/26/2006	436	3	12	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	M16-002	739409.05	1010221.58	24	mV	9/26/2006	24	3	15	Cultural Debris	9/28/2006	Trash	Pass	KC
SEAD-57 Buffer	M16-005	739394.5	1010183	20	mV	9/26/2006	20	3	6	Munitions Debris	9/28/2006	Small Arms, .50 cal pieces	Pass	KC
SEAD-57 Buffer	M16-006	739375.59	1010224.11	60	mV	9/26/2006	60	3	8	Cultural Debris	9/28/2006	-	Pass	KC
SEAD-57 Buffer	X16-001	737849.5	1010211.75	313	mV	10/2/2006	315	3	6	Munitions Debris	10/9/2006	Frag	-	-
SEAD-57 Buffer	X16-004	737857	1010088.5	38	mV	10/2/2006	38	3	8	Munitions Debris	10/10/2006	Frag	Pass	KC

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SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	Item					Description			
SEAD-57	57C14-0032	738192.5	1009827.25	526	Mv	6/14/2006	356	2	3	Munitions Debris	6/29/2006	Frag	-		
SEAD-57	57C14-0042	738206.25	1009782.75	368	Mv	6/14/2006	312	2	3	Munitions Debris	6/21/2006	Frag	-		
SEAD-57	57C14-0060	738238.25	1009801	203	Mv	6/14/2006	139	2	4	Munitions Debris	6/21/2006	Frag	-		
SEAD-57	57C14-0075	738247.75	1009846.5	127	Mv	6/14/2006	126	2	6	Munitions Debris	6/15/2006	Frag	Pass	KC	
SEAD-57	57C14-0077	738194.75	1009808.75	126	Mv	6/14/2006	69	2	2	Munitions Debris	6/15/2006	Frag	-		
SEAD-57	57C14-0091	738247	1009890.75	95	Mv	6/14/2006	55	2	6	Munitions Debris	6/15/2006	Frag	-		
SEAD-57	57C14-0092	738188.5	1009829	90	Mv	6/14/2006	98	2	2	Munitions Debris	6/21/2006	Frag	-		
SEAD-57	57C14-0097	738198.25	1009835.75	79	Mv	6/14/2006	41	2	24	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0101	738175.25	1009803.25	75	Mv	6/14/2006	40	2	3	Munitions Debris	6/15/2006	Frag	-		
SEAD-57	57C14-0105	738153.25	1009785.75	65	Mv	6/14/2006	31	2	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0113	738162.75	1009856	55	Mv	6/14/2006	30	2	6	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0114	738235.75	1009907.25	55	Mv	6/14/2006	35	2	4	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0116	738219.75	1009839	54	Mv	6/14/2006	23	2	4	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0120	738200.5	1009787.75	54	Mv	6/14/2006	13	2	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0121	738197.75	1009787.25	54	Mv	6/14/2006	39	2	8	Cultural Debris	6/15/2006	Trash, Same as 0120	-		
SEAD-57	57C14-0122	738165.25	1009856	53	Mv	6/14/2006	22	2	6	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0127	738131	1009803	50	Mv	6/14/2006	40	2	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0307	738135.75	1009751	11	Mv	9/11/2006	11	2	6	Cultural Debris	9/20/2006	Trash	-		
SEAD-57	57E06-0010	738481.75	1008952	115	Mv	6/22/2006	50	2	6	Munitions Debris	6/26/2006	Frag	Pass	KC	
SEAD-57	57E06-0012	738486.5	1008941.5	113	Mv	6/22/2006	70	2	6	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E06-0014	738474.5	1008917.25	98	Mv	6/22/2006	108	2	2	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E06-0016	738489.75	1008913.75	94	Mv	6/22/2006	36	2	3	Munitions Debris	6/26/2006	Frag	Pass	KC	
SEAD-57	57E06-0019	738494.5	1008843.25	49	Mv	9/11/2006	49	2	3	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC	
SEAD-57	57E06-0023	738466.25	1008981.25	35	Mv	9/11/2006	35	2	4	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC	
SEAD-57	57E06-0028	738490.5	1008887.75	29	Mv	9/11/2006	29	2	2	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC	
SEAD-57	57E08-0010	738490.25	1009091	366	Mv	6/22/2006	113	2	6	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0014	738483	1009137.75	338	Mv	6/22/2006	118	2	6	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0036	738499	1009078.25	249	Mv	6/22/2006	104	2	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0058	738467.25	1009123.5	207	Mv	6/22/2006	104	2	6	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0068	738485.25	1009102.75	194	Mv	6/22/2006	153	2	4	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0074	738457.75	1009133.25	189	Mv	6/22/2006	110	2	3	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0077	738458.25	1009047.25	187	Mv	6/22/2006	120	2	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0081	738493.25	1009041.75	182	Mv	6/22/2006	117	2	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0084	738476.75	1009077.5	181	Mv	6/22/2006	125	2	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0088	738453.75	1009113.5	175	Mv	6/22/2006	159	2	5	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0107	738495	1009069.5	157	Mv	6/22/2006	70	2	6	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0108	738478	1009122.5	157	Mv	6/22/2006	109	2	3	Munitions Debris	6/26/2006	Frag	Pass	KC	
SEAD-57	57E08-0109	738475.5	1009059.75	153	Mv	6/22/2006	70	2	1	Munitions Debris	6/26/2006	\	-		
SEAD-57	57E08-0112	738460.75	1009115.5	151	Mv	6/22/2006	98	2	3	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0120	738481	1009043	144	Mv	6/22/2006	84	2	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0125	738481.5	1009086.25	140	Mv	6/22/2006	79	2	2	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0126	738485.5	1009081.5	139	Mv	6/22/2006	85	2	3	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0136	738474.75	1009126.5	129	Mv	6/22/2006	88	2	8	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0150	738458	1009130	113	Mv	6/22/2006	53	2	4	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0153	738482.25	1009036.25	109	Mv	6/22/2006	77	2	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0156	738491	1009035	105	Mv	6/22/2006	102	2	2	Cultural Debris	6/26/2006	Trash	-		
SEAD-57	57E08-0160	738498	1009036.75	95	Mv	6/22/2006	30	2	2	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0172	738459.25	1009018.75	76	Mv	6/22/2006	120	2	2	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0173	738483	1009119	76	Mv	6/22/2006	81	2	5	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0181	738478.25	1009141.5	65	Mv	6/22/2006	64	2	2	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0189	738490.75	1009045.5	50	Mv	6/22/2006	60	2	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0191	738469.5	1009013.75	48	Mv	9/11/2006	48	2	5	Munitions Debris	9/20/2006	Frag	Pass	KC	
SEAD-57	57E08-0198	738480	1009108.25	39	Mv	9/11/2006	39	2	10	Munitions Debris	9/20/2006	Frag	Pass	KC	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E08-0202	738484	1009026.25	34	Mv	9/11/2006	34	2	4	Munitions Debris	9/20/2006	MK25 pieces	Pass	KC
SEAD-57	57E10-0005	738491.25	1009268	459	Mv	6/27/2006	115	2	4	Munitions Debris	7/7/2006	Alum MD	-	-
SEAD-57	57E10-0016	738448.25	1009325.75	292	Mv	6/28/2006	180	2	5	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0017	738470.75	1009397.5	290	Mv	6/28/2006	85	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0020	738450.75	1009433.25	278	Mv	6/27/2006	173	2	1	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0024	738494.5	1009405	259	Mv	6/28/2006	165	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0026	738491.75	1009405.5	249	Mv	6/28/2006	120	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0031	738486	1009399.75	238	Mv	6/28/2006	87	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0037	738459.5	1009404.5	221	Mv	6/27/2006	105	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0039	738489.25	1009283	220	Mv	6/27/2006	165	2	1	Munitions Debris	7/7/2006	Alum MD	-	-
SEAD-57	57E10-0042	738478.5	1009343.75	212	Mv	6/28/2006	91	2	3	Munitions Debris	7/19/2006	Alum MD	-	-
SEAD-57	57E10-0043	738455.25	1009448.5	207	Mv	6/27/2006	104	2	0	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0060	738488.75	1009328.25	199	Mv	6/28/2006	99	2	4	Munitions Debris	7/19/2006	Alum MD	-	-
SEAD-57	57E10-0062	738449.136	1009343.452	163	Mv	6/28/2006	137	2	2	Munitions Debris	7/19/2006	Alum MD	Pass	KC
SEAD-57	57E10-0063	738462.25	1009281.25	193	Mv	6/27/2006	85	2	1	Munitions Debris	7/7/2006	Alum MD	-	-
SEAD-57	57E10-0067	738483.75	1009463	189	Mv	6/27/2006	117	2	0	Cultural Debris	6/27/2006	Alum	-	-
SEAD-57	57E10-0078	738470.25	1009421	181	Mv	6/27/2006	78	2	3	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0088	738482	1009480.5	169	Mv	6/27/2006	100	2	0	Cultural Debris	6/27/2006	Alum	-	-
SEAD-57	57E10-0092	738443.25	1009436	166	Mv	6/27/2006	86	2	0	Munitions Debris	6/28/2006	Frag	Pass	KC
SEAD-57	57E10-0093	738475	1009385	165	Mv	6/28/2006	53	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0095	738469.75	1009324.25	163	Mv	6/28/2006	108	2	4	Munitions Debris	7/17/2006	Alum MD	-	-
SEAD-57	57E10-0096	738450.75	1009441	162	Mv	6/27/2006	79	2	0	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0097	738492.75	1009315.5	162	Mv	6/28/2006	101	2	2	Munitions Debris	7/17/2006	Alum MD	-	-
SEAD-57	57E10-0099	738459.25	1009317.75	161	Mv	6/28/2006	82	2	3	Munitions Debris	7/17/2006	Alum MD	-	-
SEAD-57	57E10-0103	738478.625	1009416.25	158	Mv	6/28/2006	93	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0105	738449	1009492.25	158	Mv	6/27/2006	76	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0106	738467	1009416	157	Mv	6/27/2006	105	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0109	738476	1009292	156	Mv	6/22/2006	99	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0110	738480	1009269	156	Mv	6/22/2006	120	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0114	738472.75	1009252.5	151	Mv	7/5/2006	151	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0118	738471	1009369.25	148	Mv	6/28/2006	104	2	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0119	738463.25	1009274	147	Mv	6/27/2006	75	2	3	Munitions Debris	7/7/2006	Alum MD	-	-
SEAD-57	57E10-0121	738478	1009308	146	Mv	6/27/2006	92	2	2	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0122	738480	1009263.5	145	Mv	7/19/2006	145	2	0	Munitions Debris	7/19/2006	Alum MD	-	-
SEAD-57	57E10-0129	738454.5	1009268.25	141	Mv	6/27/2006	150	2	1	Munitions Debris	6/5/2006	Alum MD	-	-
SEAD-57	57E10-0130	738480.25	1009297.25	141	Mv	6/22/2006	93	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0131	738463.75	1009445.75	141	Mv	6/27/2006	113	2	0	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0135	738465.5	1009284.25	136	Mv	6/27/2006	91	2	2	Munitions Debris	7/7/2006	Alum MD	-	-
SEAD-57	57E10-0139	738479.75	1009443.25	133	Mv	6/27/2006	76	2	0	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0140	738455.75	1009479.75	133	Mv	6/27/2006	72	2	0	Cultural Debris	6/27/2006	Alum	-	-
SEAD-57	57E10-0141	738459	1009339.5	132	Mv	6/28/2006	76	2	3	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0144	738474.25	1009264.25	131	Mv	7/5/2006	131	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0148	738451	1009252.25	127	Mv	6/27/2006	84	2	3	Munitions Debris	7/7/2006	Alum MD	-	-
SEAD-57	57E10-0149	738446.25	1009456.5	126	Mv	6/27/2006	126	2	0	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0151	738469	1009304.5	122	Mv	6/27/2006	100	2	3	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0156	738449.5	1009454	120	Mv	6/27/2006	98	2	0	Cultural Debris	6/27/2006	Alum	-	-
SEAD-57	57E10-0161	738488.25	1009485.25	118	Mv	6/27/2006	65	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0168	738487.25	1009264.5	111	Mv	6/22/2006	61	2	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0172	738450.5	1009339.5	109	Mv	6/28/2006	50	2	3	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0177	738448.5	1009277.5	107	Mv	6/27/2006	81	2	2	Munitions Debris	6/5/2006	Alum MD	-	-
SEAD-57	57E10-0182	738495	1009324.5	105	Mv	6/28/2006	120	2	2	Munitions Debris	7/17/2006	Alum MD	-	-
SEAD-57	57E10-0184	738494.5	1009432.25	104	Mv	6/27/2006	81	2	1	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0194	738468.5	1009252.25	98	Mv	7/5/2006	98	2	0	Munitions Debris	7/6/2006	Alum MD	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E10-0196	738470.75	1009298.5	96	Mv	6/27/2006	50	2	1	Munitions Debris	6/27/2006	Alum MD 3"	-	
SEAD-57	57E10-0197	738493.75	1009329.75	96	Mv	6/28/2006	55	2	6	Munitions Debris	7/17/2006	Alum MD	Pass	KC
SEAD-57	57E10-0198	738493.25	1009451.25	95	Mv	6/27/2006	31	2	0	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0200	738470.75	1009265	93	Mv	7/5/2006	93	2	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0207	738473.75	1009290.25	88	Mv	6/22/2006	65	2	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0211	738476.5	1009482.5	87	Mv	6/27/2006	80	2	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0215	738497.25	1009262.75	86	Mv	6/22/2006	70	2	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0219	738496	1009494.5	84	Mv	6/27/2006	116	2	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0220	738476.25	1009280.5	80	Mv	6/22/2006	96	2	0	Munitions Debris	7/6/2006	Alum MD	-	
SEAD-57	57E10-0225	738499.25	1009307.25	79	Mv	6/27/2006	56	2	4	Munitions Debris	6/28/2006	Frag	-	
SEAD-57	57E10-0236	738447.25	1009306.75	63	Mv	6/27/2006	132	2	2	Munitions Debris	6/27/2006	Alum MD 3"	-	
SEAD-57	57E10-0251	738450	1009466.5	42	Mv	9/11/2006	42	2	16	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E10-0269	738487.75	1009473.5	31	Mv	9/11/2006	31	2	3	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57E10-0321	738477.25	1009365.25	13	Mv	9/11/2006	13	2	4	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57E12-0012	738478.75	1009592	322	Mv	7/5/2006	105	2	1	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0014	738480.75	1009711.75	286	Mv	6/29/2006	125	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0018	738493.5	1009508.5	263	Mv	7/5/2006	175	2	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0019	738489.75	1009516.25	256	Mv	7/5/2006	130	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0022	738492.25	1009545.25	249	Mv	7/5/2006	102	2	3	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0026	738474	1009505.75	233	Mv	7/5/2006	80	2	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0028	738497.5	1009546	227	Mv	7/5/2006	90	2	3	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0029	738478.25	1009509.75	221	Mv	7/5/2006	100	2	3	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0031	738475.25	1009633.75	221	Mv	6/29/2006	100	2	2	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0036	738457	1009559.75	214	Mv	7/5/2006	85	2	1	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0037	738493.25	1009555.75	213	Mv	7/5/2006	150	2	4	Munitions Debris	7/7/2006	Multiple digs / pieces	-	
SEAD-57	57E12-0038	738479.25	1009539.75	204	Mv	7/5/2006	130	2	3	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0041	738494.246	1009515.803	194	Mv	7/5/2006	160	2	2	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0047	738484	1009551.75	177	Mv	7/5/2006	85	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0048	738447.75	1009513.75	176	Mv	7/5/2006	85	2	2	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0051	738468.75	1009510.25	173	Mv	7/5/2006	85	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0054	738462.5	1009511.75	156	Mv	7/5/2006	95	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0058	738498.75	1009580	153	Mv	7/5/2006	100	2	1	Munitions Debris	7/7/2006	Multiple digs / pieces + 1ea grenade spoon	-	
SEAD-57	57E12-0059	738459.75	1009539.25	152	Mv	7/5/2006	85	2	1	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0066	738453.75	1009513.25	142	Mv	7/5/2006	80	2	3	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0074	738447.5	1009610.75	129	Mv	7/5/2006	75	2	1	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0081	738471.75	1009515.5	122	Mv	7/5/2006	45	2	5	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0087	738498.25	1009610	112	Mv	7/5/2006	85	2	4	Munitions Debris	7/7/2006	Multiple digs / pieces	Pass	KC
SEAD-57	57E12-0095	738457.75	1009502.25	98	Mv	7/5/2006	80	2	2	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0097	738481.5	1009515.75	90	Mv	7/5/2006	85	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0106	738432.75	1009708.25	82	Mv	6/29/2006	60	2	1	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0110	738483.75	1009707.75	76	Mv	6/28/2006	36	2	12	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0115	738469.75	1009706.5	69	Mv	6/29/2006	20	2	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0116	738494.75	1009746	68	Mv	6/29/2006	25	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0121	738428.75	1009680.25	64	Mv	6/29/2006	45	2	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0128	738454.5	1009547	54	Mv	7/5/2006	27	2	3	Munitions Debris	7/7/2006	Multiple pieces	Pass	KC
SEAD-57	57E12-0129	738484.25	1009582.75	53	Mv	7/5/2006	35	2	1	Munitions Debris	7/7/2006	Multiple digs/pieces	-	
SEAD-57	57E12-0131	738483.75	1009579.5	53	Mv	7/5/2006	25	2	4	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	57E12-0134	738485	1009505	51	Mv	7/5/2006	26	2	2	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0232	738486.5	1009741.25	18	Mv	9/11/2006	18	2	3	Munitions Debris	9/20/2006	Small Arms, Blank round	Pass	KC
SEAD-57	57E14-0008	738495.5	1009987	1489	Mv	6/28/2006	250	2	2	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0019	738299.25	1009897.25	549	Mv	6/22/2006	350	2	0	Cultural Debris	7/19/2006	Scrap metal	Pass	KC
SEAD-57	57E14-0023	738314.5	1009915.5	514	Mv	6/28/2006	170	2	1	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0028	738490.25	1009977.5	488	Mv	6/28/2006	300	2	3	Cultural Debris	6/29/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E14-0029	738379.75	1009874.75	488	Mv	6/21/2006	195	2	6	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57E14-0031	738495	1009788.5	481	Mv	6/28/2006	160	2	5	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0034	738335.75	1009958.75	454	Mv	6/22/2006	180	2	0	Cultural Debris	7/19/2006	Survey stake	-	
SEAD-57	57E14-0050	738499.25	1009987.25	303	Mv	6/28/2006	50	2	1	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0063	738337.75	1009918.5	231	Mv	6/22/2006	60	2	0	Cultural Debris	7/19/2006	Scrap metal	-	
SEAD-57	57E14-0065	738338.5	1009958.75	230	Mv	6/22/2006	200	2	0	Cultural Debris	7/19/2006	Survey stake	Pass	KC
SEAD-57	57E14-0071	738267	1009872.5	212	Mv	6/28/2006	65	2	0	Cultural Debris	6/29/2006	Survey stake	-	
SEAD-57	57E14-0076	738263	1009849	194	Mv	6/28/2006	135	2	1	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0083	738300	1009776.5	165	Mv	6/28/2006	100	2	3	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0090	738413.75	1009859.5	143	Mv	6/21/2006	65	2	24	Munitions Debris	6/27/2006	Small Arms, 5.56 brass	-	
SEAD-57	57E14-0095	738378	1009892.75	125	Mv	6/21/2006	55	2	14	Munitions Debris	6/27/2006	Small Arms, Blank cart.	Pass	KC
SEAD-57	57E14-0099	738263.5	1009923	117	Mv	6/28/2006	50	2	1	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0106	738457.25	1009815.25	108	Mv	6/28/2006	25	2	6	Munitions Debris	6/29/2006	Small Arms, 5.56 brass	-	
SEAD-57	57E14-0109	738295.625	1009782.875	107	Mv	6/28/2006	70	2	4	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0110	738346.75	1009805.25	107	Mv	6/28/2006	70	2	6	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0111	738294	1009905.5	106	Mv	6/22/2006	40	2	0	Munitions Debris	7/19/2006	Frag	-	
SEAD-57	57E14-0112	738480.5	1009809.25	105	Mv	6/28/2006	120	2	2	Munitions Debris	6/29/2006	Frag	-	
SEAD-57	57E14-0124	738425.5	1009844	93	Mv	6/22/2006	25	2	14	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57E14-0134	738351.5	1009853	82	Mv	6/28/2006	25	2	0	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0140	738401.75	1009780	78	Mv	7/5/2006	78	2	12	Munitions Debris	7/19/2006	Alum MD	Pass	KC
SEAD-57	57E14-0141	738363.25	1009868	75	Mv	6/28/2006	35	2	0	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0143	738437.25	1009906	75	Mv	6/21/2006	21	2	12	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57E14-0145	738442.5	1009916	73	Mv	6/21/2006	105	2	24	Cultural Debris	6/27/2006	Some type of road or parking area under a layer of grass all hot.	Pass	KC
SEAD-57	57E14-0154	738289	1009808.75	69	Mv	6/28/2006	15	2	3	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0159	738446.5	1009763.25	67	Mv	7/5/2006	67	2	3	Munitions Debris	7/19/2006	Steel MD Frag. Anomalies E14-0159 and -0204 are same item.	-	
SEAD-57	57E14-0167	738488	1009944.5	64	Mv	6/28/2006	55	2	10	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0170	738413.75	1009844	62	Mv	6/21/2006	60	2	5	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57E14-0171	738433.5	1009908.75	62	Mv	6/21/2006	11	2	14	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57E14-0180	738424.75	1009857	58	Mv	6/21/2006	35	2	7	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57E14-0182	738328	1009789.5	57	Mv	6/28/2006	160	2	4	Cultural Debris	6/29/2006	Trash	-	
SEAD-57	57E14-0186	738268.25	1009835.25	56	Mv	6/28/2006	20	2	1	Cultural Debris	6/29/2006	Trash	Pass	KC
SEAD-57	57E14-0190	738427.25	1009955	55	Mv	6/22/2006	22	2	6	Munitions Debris	7/19/2006	Alum MD	Pass	KC
SEAD-57	57E14-0204	738445.25	1009760.75	51	Mv	7/5/2006	51	2	3	Munitions Debris	7/19/2006	Steel MD Frag. Anomalies E14-0159 and -0204 are same item.	-	
SEAD-57	57E14-0205	738463.5	1009892	51	Mv	6/28/2006	25	2	4	Munitions Debris	6/29/2006	Frag	Pass	KC
SEAD-57	57E14-0208	738385.5	1009989.75	50	Mv	6/22/2006	25	2	0	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57E14-0212	738331	1009958.25	50	Mv	6/22/2006	50	2	0	Cultural Debris	7/19/2006	Scrap metal	Pass	KC
SEAD-57	57E14-0238	738316.75	1009988.5	44	Mv	9/11/2006	44	2	20	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57E16-0006	738496.25	1010072.5	206	Mv	6/21/2006	50	2	2	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57E16-0014	738387	1010022	58	Mv	6/21/2006	20	2	0	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57E16-0015	738500.07	1010034.622	50	Mv	6/21/2006	40	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57G04-0009	738739.5	1008611.5	376	Mv	6/20/2006	320	2	3	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57G04-0015	738740.75	1008606.25	268	Mv	6/20/2006	120	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0024	738711.75	1008641.75	207	Mv	6/20/2006	165	2	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0026	738742.5	1008648.75	204	Mv	6/20/2006	90	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0029	738726	1008735.75	194	Mv	6/20/2006	190	2	2	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0035	738741.5	1008601.75	182	Mv	6/20/2006	170	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0036	738695	1008631.75	179	Mv	6/20/2006	95	2	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0039	738699.75	1008612.5	175	Mv	6/20/2006	100	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0041	738734.5	1008717.75	170	Mv	6/20/2006	110	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0043	738721.25	1008737.75	167	Mv	6/20/2006	115	2	4	Munitions Debris	6/20/2006	Alum MD	-	
SEAD-57	57G04-0044	738745	1008636.5	164	Mv	6/20/2006	90	2	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0045	738735.75	1008600	164	Mv	6/20/2006	160	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0056	738668	1008629	142	Mv	6/20/2006	60	2	1	Munitions Debris	6/21/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G04-0057	738729	1008675.25	141	Mv	6/20/2006	140	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0061	738720.25	1008617	132	Mv	6/20/2006	90	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0070	738666.5	1008666.5	125	Mv	6/20/2006	80	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0074	738715.5	1008615.25	120	Mv	6/20/2006	90	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0076	738676.25	1008626.25	118	Mv	6/20/2006	100	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0081	738735.75	1008706.5	112	Mv	6/20/2006	105	2	4	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0083	738737.5	1008635	111	Mv	6/20/2006	80	2	9	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0088	738739	1008678.5	107	Mv	6/20/2006	95	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0095	738740	1008655.25	102	Mv	6/20/2006	30	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0101	738688.25	1008680	99	Mv	6/20/2006	55	2	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0104	738700.25	1008645.5	95	Mv	6/20/2006	55	2	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0114	738728.5	1008614.25	87	Mv	6/20/2006	90	2	2	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0125	738735.875	1008724.625	77	Mv	6/20/2006	125	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0126	738703.75	1008631.25	77	Mv	6/20/2006	30	2	3	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0143	738731.5	1008625	65	Mv	6/20/2006	75	2	14	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0145	738713	1008607.5	63	Mv	6/20/2006	45	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0149	738679	1008677.25	60	Mv	6/20/2006	90	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0151	738714.25	1008706.75	59	Mv	6/20/2006	55	2	4	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0156	738727.25	1008664.5	56	Mv	6/20/2006	50	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0159	738681.5	1008646.75	53	Mv	6/20/2006	25	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0160	738730.25	1008690.75	53	Mv	6/20/2006	40	2	1	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G04-0163	738735.5	1008712.5	50	Mv	6/20/2006	45	2	0	Munitions Debris	6/21/2006	Frag	-	
SEAD-57	57G14-0007	738586.75	1009996.25	103717	Mv	6/13/2006	3000	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0010	738749	1009984.25	48248	Mv	6/14/2006	3000	2	4	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0014	738588.25	1009989.5	4936	Mv	6/13/2006	2924	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0015	738603.25	1009944.25	4255	Mv	7/11/2006	500	2	10	Cultural Debris	7/12/2006	Truck wheel did not remove	Pass	KC
SEAD-57	57G14-0017	738722.5	1009963	3967	Mv	6/14/2006	1212	2	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0023	738689.75	1009881	2586	Mv	6/13/2006	816	2	2	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0026	738658.25	1009934	1968	Mv	6/21/2006	40	2	1	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57G14-0028	738742	1009774.75	1892	Mv	6/14/2006	1188	2	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0031	738611.25	1009809.5	1849	Mv	6/13/2006	691	2	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0032	738662	1009854.25	1844	Mv	6/13/2006	794	2	4	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0036	738715.5	1009978.25	1648	Mv	6/14/2006	359	2	4	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0044	738616.25	1009944.75	1338	Mv	6/21/2006	650	2	2	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57G14-0046	738719.5	1009865	1284	Mv	6/13/2006	322	2	4	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0049	738686.75	1009880.25	1174	Mv	6/13/2006	650	2	4	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0052	738556.5	1009977.5	1119	Mv	6/13/2006	0	2	2	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0060	738586.75	1009984.75	874	Mv	6/13/2006	180	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0062	738673.5	1009761.25	871	Mv	6/14/2006	394	2	1	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0068	738738.25	1009779.75	705	Mv	6/14/2006	301	2	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0072	738722.25	1009988.5	652	Mv	6/14/2006	260	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G14-0075	738741.5	1009779.75	599	Mv	6/14/2006	291	2	4	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0080	738609	1009753.25	572	Mv	6/13/2006	348	2	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0083	738631.5	1009839.5	554	Mv	6/13/2006	300	2	5	Munitions Debris	6/15/2006	Frag	Pass	KC
SEAD-57	57G14-0094	738564.5	1009994	482	Mv	6/13/2006	261	2	6	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0103	738557	1009981.25	441	Mv	6/13/2006	379	2	2	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0109	738566.5	1009997	425	Mv	6/13/2006	188	2	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0123	738600.5	1009988.5	338	Mv	7/11/2006	266	2	2	Cultural Debris	7/12/2006	cable	-	
SEAD-57	57G14-0131	738706.25	1009775	307	Mv	6/13/2006	150	2	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0133	738703.5	1009831	294	Mv	6/13/2006	136	2	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0136	738729.25	1009999	290	Mv	6/14/2006	273	2	1	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0141	738713	1009938.75	283	Mv	6/13/2006	2400	2	0	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0151	738619.25	1009750.5	265	Mv	6/13/2006	185	2	6	Munitions Debris	6/19/2006	Frag	-	

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57G14-0162	738702.75	1009766	249	Mv	6/13/2006	51	2	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0163	738610.5	1009822.75	248	Mv	6/13/2006	155	2	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0165	738708.5	1009758.25	241	Mv	6/13/2006	146	2	3	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0167	738580.5	1009884.25	235	Mv	6/13/2006	53	2	5	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0168	738646.75	1009781	233	Mv	6/13/2006	132	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0172	738632.25	1009781.75	223	Mv	6/13/2006	141	2	2	Munitions Debris	6/20/2006	Frag	Pass	KC
SEAD-57	57G14-0173	738503.5	1009751.25	219	Mv	6/14/2006	147	2	20	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0176	738518.25	1009936.25	215	Mv	6/13/2006	91	2	1	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0179	738591.5	1009794.75	212	Mv	6/13/2006	165	2	6	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0181	738674	1009944.75	209	Mv	6/14/2006	60	2	0	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0183	738707.25	1009777.75	207	Mv	6/13/2006	111	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0184	738688.5	1009779	203	Mv	6/13/2006	130	2	1	Munitions Debris	6/20/2006	Frag	Pass	KC
SEAD-57	57G14-0188	738679.5	1009789.25	202	Mv	6/13/2006	90	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0190	738674.487	1009781.464	199	Mv	6/13/2006	148	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0193	738699.25	1009768.75	195	Mv	6/13/2006	54	2	2	MPPEH	6/20/2006	20mm	-	
SEAD-57	57G14-0194	738663.5	1009780.75	195	Mv	6/13/2006	126	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0196	738715.736	1009862.883	193	Mv	6/13/2006	40	2	4	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0200	738637.25	1009776.25	189	Mv	6/13/2006	113	2	1	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0202	738707.75	1009764.5	183	Mv	6/13/2006	96	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0203	738686.5	1009767.5	182	Mv	6/13/2006	107	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0206	738700	1009777.25	181	Mv	6/13/2006	106	2	1	Munitions Debris	6/20/2006	frag	-	
SEAD-57	57G14-0224	738691.5	1009756	159	Mv	6/14/2006	116	2	3	MPPEH	6/19/2006	20mm	-	
SEAD-57	57G14-0229	738583.5	1009848	155	Mv	6/13/2006	62	2	10	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0231	738616.172	1009753.696	151	Mv	6/13/2006	100	2	5	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0233	738587.5	1009777.5	148	Mv	6/21/2006	45	2	6	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57G14-0237	738680.5	1009767.75	144	Mv	6/14/2006	86	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0240	738714.5	1009866.75	142	Mv	6/13/2006	113	2	6	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0243	738510.5	1009926.75	140	Mv	6/13/2006	49	2	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0247	738669	1009788.25	136	Mv	6/13/2006	56	2	4	Munitions Debris	6/20/2006	Frag	Pass	KC
SEAD-57	57G14-0249	738552.75	1009767	134	Mv	6/14/2006	124	2	1	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0275	738566.314	1009814.014	111	Mv	6/21/2006	60	2	2	Munitions Debris	6/22/2006	Frag	Pass	KC
SEAD-57	57G14-0282	738706.5	1009865	105	Mv	6/13/2006	106	2	4	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0288	738689	1009793.5	101	Mv	6/13/2006	85	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0289	738706	1009754	100	Mv	6/13/2006	31	2	2	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0292	738622.75	1009755.5	97	Mv	6/13/2006	103	2	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0308	738708.5	1009811	92	Mv	6/12/2006	20	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0315	738737.75	1009841	88	Mv	6/13/2006	57	2	8	Cultural Debris	6/20/2006	Trash	Pass	KC
SEAD-57	57G14-0316	738665.25	1009837.5	87	Mv	6/13/2006	50	2	7	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0328	738689.5	1009762	81	Mv	6/13/2006	74	2	1	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0338	738724.75	1009769.5	75	Mv	6/13/2006	31	2	2	Cultural Debris	6/19/2006	Trash	-	
SEAD-57	57G14-0342	738632.144	1009761.609	75	Mv	6/13/2006	40	2	8	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0343	738729.5	1009980.5	74	Mv	6/14/2006	27	2	20	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0351	738686.25	1009796	72	Mv	6/13/2006	36	2	2	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57G14-0356	738575.75	1009783.75	71	Mv	6/13/2006	48	2	1	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0376	738552.5	1009847.75	65	Mv	6/21/2006	25	2	5	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57G14-0380	738693.75	1009763.5	63	Mv	6/13/2006	37	2	2	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0410	738635.75	1009862.5	57	Mv	6/13/2006	20	2	8	Munitions Debris	6/20/2006	Frag	-	
SEAD-57	57G14-0411	738631.75	1009879.75	56	Mv	6/13/2006	11	2	10	Munitions Debris	6/27/2006	Small Arms, 5.56 blank	Pass	KC
SEAD-57	57G14-0423	738605.25	1009772.75	54	Mv	6/13/2006	37	2	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0428	738675.659	1009978.779	52	Mv	7/11/2006	85	2	2	Cultural Debris	7/12/2006	Nails	-	
SEAD-57	57G14-0430	738684.75	1009751.25	52	Mv	6/14/2006	12	2	1	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0440	738695.441	1009751.645	50	Mv	6/14/2006	24	2	0	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0442	738502	1009784	50	Mv	6/14/2006	40	2	24	Munitions Debris	6/19/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57G14-0443	738568	1009858.5	50	Mv	6/13/2006	60	2	6	Munitions Debris	6/19/2006	Frag	-	
SEAD-57	57G14-0645	738712.5	1009804.5	25	Mv	9/11/2006	25	2	8	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57G14-0670	738736.25	1009987.5	23	Mv	9/11/2006	23	2	24	Cultural Debris	9/25/2006		Pass	KC
SEAD-57	57G16-0003	738530	1010073.5	18185	Mv	6/12/2006	1870	2	0	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0009	738582.789	1010005.37	1845	Mv	6/12/2006	3000	2	0	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0012	738627.5	1010015.25	1394	Mv	6/12/2006	432	2	2	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0014	738581.5	1010099	1268	Mv	6/12/2006	585	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0015	738527.75	1010070.25	1158	Mv	6/12/2006	523	2	0	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0016	738717.5	1010124.75	1103	Mv	6/12/2006	557	2	3	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0019	738714.25	1010122.75	997	Mv	6/12/2006	402	2	3	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0024	738631.5	1010052	879	Mv	6/12/2006	433	2	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0027	738619.5	1010026.75	538	Mv	6/12/2006	35	2	0	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0031	738602.5	1010099.5	433	Mv	6/12/2006	201	2	0	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0032	738511.5	1010004.25	418	Mv	6/12/2006	103	2	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0035	738629.25	1010075.5	354	Mv	6/12/2006	80	2	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0037	738633.25	1010100.75	300	Mv	6/12/2006	457	2	3	Munitions Debris	6/14/2006	Frag	Pass	KC
SEAD-57	57G16-0039	738595	1010007	280	Mv	6/12/2006	73	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0042	738577.25	1010020.25	256	Mv	6/12/2006	142	2	4	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0044	738585.5	1010020	243	Mv	6/12/2006	41	2	0	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0046	738626.25	1010074.5	224	Mv	6/12/2006	190	2	2	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0050	738591.5	1010080.25	200	Mv	6/12/2006	999	2	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0053	738683	1010007.75	193	Mv	6/12/2006	125	2	2	Munitions Debris	6/14/2006	Frag	Pass	KC
SEAD-57	57G16-0056	738658.75	1010117.25	182	Mv	6/12/2006	460	2	2	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0060	738600.056	1010072.29	157	Mv	6/12/2006	60	2	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G16-0063	738534.25	1010083.5	153	Mv	6/12/2006	153	2	1	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57G16-0064	738526.5	1010024.75	145	Mv	6/12/2006	50	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0065	738633.25	1010043.5	144	Mv	6/12/2006	101	2	1	Munitions Debris	6/14/2006	Frag	Pass	KC
SEAD-57	57G16-0071	738509.25	1010006.75	131	Mv	6/12/2006	80	2	1	Cultural Debris	6/14/2006	Trash	-	
SEAD-57	57G16-0078	738677.75	1010011	104	Mv	6/12/2006	22	2	4	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0082	738674.75	1010010.25	89	Mv	6/12/2006	51	2	22	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0083	738583.75	1010022.5	88	Mv	6/12/2006	54	2	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0088	738694.25	1010111	80	Mv	6/12/2006	33	2	2	Munitions Debris	6/15/2006	Frag	-	
SEAD-57	57G16-0089	738663.75	1010041.75	79	Mv	6/12/2006	25	2	4	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57I04-0009	738814.25	1008697.5	662	Mv	6/29/2006	269	2	2	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57I04-0016	738816.25	1008686.75	572	Mv	6/29/2006	450	2	2	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57I04-0019	738810.75	1008660.25	486	Mv	6/29/2006	639	2	2	Munitions Debris	7/7/2006	Steel MD 2.36 motor	-	
SEAD-57	57I04-0023	738818.25	1008723.25	442	Mv	6/29/2006	306	2	2	Munitions Debris	7/7/2006	Steel MD	-	
SEAD-57	57I04-0025	738819.25	1008672	407	Mv	6/1/2006	375	2	2	Munitions Debris	7/7/2006	Steel MD Frag	-	
SEAD-57	57I04-0034	738967.75	1008699.25	349	Mv	6/29/2006	350	2	2	Munitions Debris	7/7/2006	Steel MD Fins 8"	-	
SEAD-57	57I04-0066	738801	1008721.75	200	Mv	6/29/2006	130	2	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0079	738809.75	1008710.75	159	Mv	6/29/2006	115	2	1	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0083	738871.5	1008712.5	154	Mv	6/29/2006	194	2	6	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0091	738813	1008678	147	Mv	6/29/2006	96	2	2	Munitions Debris	7/7/2006	Brass MD Rotating band	-	
SEAD-57	57I04-0101	738808.5	1008627.25	132	Mv	6/29/2006	130	2	1	Munitions Debris	6/15/2006	Alum MD	-	
SEAD-57	57I04-0111	738803	1008668.5	117	Mv	6/29/2006	35	2	5	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0112	738814	1008669.5	115	Mv	6/1/2006	61	2	5	Cultural Debris	7/7/2006	Steel scrap	-	
SEAD-57	57I04-0118	738825.25	1008749	105	Mv	6/29/2006	105	2	8	Cultural Debris	7/7/2006	Steel scrap	-	
SEAD-57	57I04-0119	738808	1008725.5	105	Mv	6/29/2006	70	2	3	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0122	738995.75	1008632.5	102	Mv	6/29/2006	77	2	8	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0131	738800	1008710	90	Mv	6/29/2006	110	2	7	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0133	738809.25	1008668.5	89	Mv	6/29/2006	120	2	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0134	738831	1008741.75	87	Mv	6/29/2006	141	2	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0143	738800.75	1008676.5	80	Mv	6/29/2006	68	2	3	Munitions Debris	7/7/2006	Alum MD	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57104-0146	738818	1008712.75	78	Mv	6/29/2006	82	2	3	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0152	738877	1008713.25	74	Mv	6/29/2006	15	2	4	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0154	738808.25	1008717.75	73	Mv	6/29/2006	188	2	1	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0176	738841.5	1008737.5	61	Mv	6/29/2006	68	2	4	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0179	738796	1008718.75	60	Mv	6/29/2006	30	2	8	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57104-0254	738947.25	1008733	29	Mv	9/11/2006	29	2	3	Munitions Debris	9/21/2006	Unknown	-	
SEAD-57	57104-0341	738918.5	1008639.25	14	Mv	9/11/2006	14	2	12	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57114-0003	738967.5	1009832	193715	Mv	6/19/2006	3000	2	6	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0021	738812	1009775	1561	Mv	6/20/2006	800	2	1	Cultural Debris	6/22/2006	Trash	-	
SEAD-57	57114-0027	738798.25	1009913.25	1007	Mv	6/22/2006	400	2	6	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0028	738773.75	1009752	898	Mv	6/20/2006	340	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0029	738816.5	1009937	882	Mv	6/28/2006	310	2	12	Munitions Debris	6/15/2006	Steel MD	-	
SEAD-57	57114-0033	738816	1009933.25	815	Mv	6/28/2006	378	2	10	Munitions Debris	6/15/2006	Steel MD	-	
SEAD-57	57114-0034	738828.5	1009889.25	800	Mv	6/22/2006	450	2	0	Cultural Debris	7/19/2006	Scrap Metal	-	
SEAD-57	57114-0042	738791.75	1009879.75	703	Mv	6/22/2006	340	2	0	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0056	738781.75	1009830.5	559	Mv	6/6/2006	559	2	3	Munitions Debris	7/19/2006	Alum MD	-	
SEAD-57	57114-0060	738818	1009934	488	Mv	6/28/2006	224	2	24	Munitions Debris	6/15/2006	Steel MD	-	
SEAD-57	57114-0063	738817	1009767.25	466	Mv	6/20/2006	220	2	1	Munitions Debris	6/22/2006	Frag	Pass	KC
SEAD-57	57114-0069	738789.25	1009871	443	Mv	6/28/2006	214	2	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0086	738806.5	1009852.75	343	Mv	6/22/2006	70	2	0	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0090	738895	1009941.75	314	Mv	6/22/2006	170	2	5	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0094	738814.5	1009954.25	287	Mv	6/22/2006	190	2	1	Cultural Debris	6/27/2006	Large concrete slab-possible septic tank	-	
SEAD-57	57114-0100	738875.993	1009753.953	261	Mv	6/20/2006	170	2	1	Cultural Debris	6/22/2006	wire	-	
SEAD-57	57114-0103	738831	1009860.25	255	Mv	6/22/2006	120	2	8	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0107	738907.5	1009775.75	242	Mv	6/20/2006	95	2	0	Cultural Debris	7/19/2006	Alum	Pass	KC
SEAD-57	57114-0114	738891.75	1009939.75	225	Mv	6/22/2006	125	2	5	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0123	738796.5	1009850.75	221	Mv	6/28/2006	233	2	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0124	738861.25	1009788.75	217	Mv	6/27/2006	131	2	0	Munitions Debris	8/23/2006	Alum MD	-	
SEAD-57	57114-0128	738776.25	1009755	214	Mv	6/20/2006	115	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0129	738801.048	1009856.314	212	Mv	6/22/2006	130	2	0	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0130	738927.75	1009793.5	211	Mv	6/20/2006	85	2	0	Cultural Debris	7/19/2006	Alum	-	
SEAD-57	57114-0137	738762.75	1009872.5	203	Mv	6/28/2006	98	2	2	Cultural Debris	7/7/2006	Alum scrap	-	
SEAD-57	57114-0139	738871.75	1009836.25	198	Mv	6/27/2006	119	2	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0147	738932.5	1009770	187	Mv	6/6/2006	187	2	8	Munitions Debris	7/19/2006	Alum MD	Pass	KC
SEAD-57	57114-0158	738868.75	1009836	173	Mv	6/27/2006	108	2	0	Cultural Debris	8/23/2006	Scrap metal	-	
SEAD-57	57114-0159	738924	1009772	171	Mv	6/20/2006	75	2	5	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0165	738771.75	1009761.25	165	Mv	6/20/2006	95	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0167	738884.25	1009901	164	Mv	6/6/2006	164	2	4	Cultural Debris	7/19/2006	Steel scrap	-	
SEAD-57	57114-0169	738878.75	1009961.5	164	Mv	6/22/2006	55	2	12	Cultural Debris	6/28/2006	Trash	-	
SEAD-57	57114-0172	738766	1009873.25	162	Mv	6/28/2006	98	2	3	Cultural Debris	7/7/2006	Alum scrap	-	
SEAD-57	57114-0181	738888	1009763	154	Mv	6/20/2006	105	2	2	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0184	738926.75	1009798.25	147	Mv	6/6/2006	147	2	0	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	57114-0186	738772	1009765.75	141	Mv	6/20/2006	95	2	8	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0194	738923	1009796	137	Mv	6/20/2006	115	2	0	Cultural Debris	7/19/2006	Wire	-	
SEAD-57	57114-0201	738881.5	1009958.75	130	Mv	6/22/2006	85	2	5	Cultural Debris	6/28/2006	Trash	-	
SEAD-57	57114-0202	738794	1009951.5	130	Mv	6/28/2006	61	2	0	Cultural Debris	7/7/2006	Metal banding	-	
SEAD-57	57114-0209	738828.75	1009937.25	124	Mv	6/22/2006	50	2	8	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0226	738818.5	1009845.25	112	Mv	6/22/2006	65	2	0	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0237	738786.25	1009783.75	107	Mv	6/20/2006	20	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0247	738871	1009909	104	Mv	6/22/2006	100	2	2	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0251	738757.25	1009826.25	101	Mv	6/22/2006	30	2	4	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0255	738775.5	1009758.75	99	Mv	6/20/2006	95	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0256	738995.25	1009833	99	Mv	6/19/2006	25	2	6	Munitions Debris	6/27/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57114-0265	738775.5	1009765.5	93	Mv	6/20/2006	95	2	2	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0268	738775.5	1009774.5	92	Mv	6/20/2006	115	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0290	738750	1009868	82	Mv	6/28/2006	22	2	2	Cultural Debris	7/7/2006	Alum scrap	-	
SEAD-57	57114-0297	738879.75	1009855.5	79	Mv	6/27/2006	67	2	0	Munitions Debris	8/23/2006	Frag MD	-	
SEAD-57	57114-0304	738973.5	1009968	77	Mv	6/22/2006	35	2	18	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57114-0313	738972.25	1009750	73	Mv	6/20/2006	30	2	2	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0315	738777.75	1009760.5	73	Mv	6/20/2006	40	2	1	Munitions Debris	6/22/2006	Frag	-	
SEAD-57	57114-0319	738806.75	1009823	71	Mv	6/22/2006	30	2	8	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0323	738789.25	1009812.25	68	Mv	6/22/2006	45	2	1	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0324	738873.75	1009838.5	68	Mv	6/27/2006	56	2	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0329	738902	1009752.75	66	Mv	6/20/2006	105	2	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0332	738900.25	1009804.75	66	Mv	6/27/2006	36	2	0	Cultural Debris	8/23/2006	Wire	-	
SEAD-57	57114-0340	738809.75	1009885.5	63	Mv	6/22/2006	30	2	10	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0365	738934.5	1009823.5	55	Mv	6/19/2006	30	2	4	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57114-0366	738810	1009845	55	Mv	6/22/2006	40	2	2	Munitions Debris	6/27/2006	Frag	Pass	KC
SEAD-57	57114-0368	738992.5	1009857	54	Mv	6/19/2006	25	2	8	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0372	738818.75	1009873	54	Mv	6/22/2006	30	2	2	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57114-0374	738915	1009753.75	54	Mv	6/20/2006	55	2	24	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57114-0426	738863	1009840	42	Mv	9/11/2006	42	2	19	Munitions Debris	9/25/2006	Frag	-	
SEAD-57	57114-0550	738752.75	1009805.25	29	Mv	9/11/2006	29	2	8	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57114-0877	738773	1009842.25	15	Mv	9/11/2006	15	2	3	Munitions Debris	9/25/2006	Flare scrap piece	Pass	KC
SEAD-57	57116-0005	738767.385	1010097.325	5378	Mv	6/12/2006	999	2	0	Cultural Debris	10/24/2006	Wrench	-	
SEAD-57	57116-0010	738751.5	1010009	1711	Mv	6/12/2006	523	2	0	Munitions Debris	8/23/2006	2.36" WH	Pass	KC
SEAD-57	57116-0016	738867.25	1010134.5	758	Mv	6/12/2006	225	2	2	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0021	738824.25	1010087	565	Mv	6/12/2006	244	2	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0024	738788.283	1010098.86	324	Mv	6/12/2006	260	2	2	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57116-0025	738858.5	1010064.75	314	Mv	6/12/2006	125	2	4	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0028	738865.75	1010183.75	244	Mv	6/12/2006	70	2	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0036	738897.25	1010143	162	Mv	6/7/2006	52	2	6	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0046	738892.25	1010193.5	121	Mv	6/7/2006	109	2	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0048	738914.5	1010043.25	119	Mv	6/7/2006	60	2	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57116-0056	738769.5	1010139.25	99	Mv	6/7/2006	56	2	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K04-0028	739066.75	1008741.75	46	Mv	9/11/2006	46	2	6	Hot Soil	9/21/2006		-	
SEAD-57	57K04-0030	739067.5	1008736.5	39	Mv	9/11/2006	39	2	3	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57K12-0070	739111.5	1009739.5	502	Mv	6/2/2006	999	2	0	Munitions Debris	7/5/2006	Frag	-	
SEAD-57	57K12-0085	739242.25	1009659.75	377	Mv	8/1/2006	377	2	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K12-0113	739087.25	1009687	256	Mv	6/1/2006	999	2	9	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0130	739025.5	1009669.25	210	Mv	6/1/2006	96	2	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0132	739118	1009640	206	Mv	6/1/2006	111	2	0	Cultural Debris	6/8/2006	Alum	-	
SEAD-57	57K12-0145	739007.5	1009696.5	184	Mv	6/1/2006	98	2	0	Cultural Debris	6/8/2006	Alum	Pass	KC
SEAD-57	57K12-0153	739079	1009738	172	Mv	8/1/2006	173	2	0	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0164	739019.25	1009653.75	165	Mv	6/1/2006	999	2	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0170	739086.5	1009694.75	160	Mv	6/1/2006	999	2	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0173	739096	1009700.75	155	Mv	6/1/2006	999	2	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0187	739004	1009661	140	Mv	6/1/2006	93	2	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0189	739031	1009669.25	136	Mv	6/1/2006	68	2	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0202	739005.75	1009639	128	Mv	6/1/2006	115	2	0	Cultural Debris	6/8/2006	Alum disk 3"	-	
SEAD-57	57K12-0209	739031	1009642	124	Mv	6/1/2006	999	2	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0230	739042.75	1009648.75	106	Mv	6/1/2006	999	2	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0231	739044.25	1009687.5	106	Mv	6/1/2006	52	2	8	Cultural Debris	7/5/2006	Alum	Pass	KC
SEAD-57	57K12-0235	739015.25	1009664	103	Mv	8/1/2006	103	2	0	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0251	739227.75	1009680	94	Mv	6/1/2006	999	2	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57K12-0252	739007.25	1009641.75	91	Mv	6/1/2006	86	2	0	Cultural Debris	6/8/2006	Alum tent stake	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57K12-0280	739115	1009748.25	74	Mv	8/1/2006	74	2	6	Cultural Debris	8/2/2006	Steel wire	-	
SEAD-57	57K12-0282	739040.5	1009634.5	72	Mv	6/1/2006	999	2	0	Cultural Debris	6/8/2006	Alum scrap	Pass	KC
SEAD-57	57K12-0299	739130.75	1009621.25	63	Mv	6/1/2006	64	2	0	Cultural Debris	6/8/2006	Steel	-	
SEAD-57	57K12-0308	739024	1009651.75	60	Mv	6/1/2006	999	2	0	Cultural Debris	6/8/2006	Alum scrap, 3"; and Steel wire., 3"	Pass	KC
SEAD-57	57K12-0311	739013	1009709.25	56	Mv	6/1/2006	27	2	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57K12-0314	739121	1009638	55	Mv	6/1/2006	25	2	0	Cultural Debris	6/8/2006	Steel wire	-	
SEAD-57	57K12-0315	739171.75	1009674.75	55	Mv	6/1/2006	999	2	0	Cultural Debris	6/8/2006	Scrap metal 1" x 3"	-	
SEAD-57	57K12-0316	739016.25	1009666.75	55	Mv	6/1/2006	30	2	2	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0317	739127	1009642	54	Mv	6/1/2006	105	2	0	Cultural Debris	6/8/2006	Steel wire	-	
SEAD-57	57K12-0318	739077.5	1009717	54	Mv	8/1/2006	54	2	0	Cultural Debris	8/22/2006	Steel wire	-	
SEAD-57	57K12-0319	739219.5	1009619.75	54	Mv	8/1/2006	54	2	0	Cultural Debris	8/22/2006	Scrap window seal	Pass	KC
SEAD-57	57K12-0320	739221.25	1009625.25	53	Mv	8/1/2006	53	2	0	Cultural Debris	8/22/2006	Alum	Pass	KC
SEAD-57	57K12-0323	739076	1009708	53	Mv	8/1/2006	53	2	0	Cultural Debris	8/22/2006	Alum	Pass	KC
SEAD-57	57K14-0029	739115	1009853.5	728	Mv	6/12/2006	688	2	0	Cultural Debris	10/24/2006	Tent stake	-	
SEAD-57	57K14-0030	739062.75	1009981.75	695	Mv	6/8/2006	350	2	12	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0047	739137.5	1009923.25	426	Mv	6/8/2006	180	2	20	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0077	739129.5	1009897	258	Mv	6/8/2006	72	2	18	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0090	739111.5	1009831	226	Mv	6/12/2006	108	2	3	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57K14-0095	739083	1009906.25	212	Mv	6/8/2006	92	2	24	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0102	739134.75	1009923.25	201	Mv	6/8/2006	134	2	18	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0103	739106.25	1009921.75	201	Mv	6/8/2006	20	2	18	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0107	739187	1009793.25	189	Mv	6/5/2006	90	2	1	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0108	739105.5	1009908.25	189	Mv	6/8/2006	230	2	24	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0117	739125.25	1009929.25	168	Mv	6/8/2006	76	2	10	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0128	739109.25	1009888	155	Mv	6/8/2006	73	2	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0135	739123	1009907.75	141	Mv	6/5/2006	110	2	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K14-0149	739077.5	1009964	131	Mv	6/8/2006	130	2	6	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0162	739030.25	1009966.75	117	Mv	6/8/2006	70	2	6	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0167	739045.5	1009801.75	113	Mv	7/19/2006	113	2	20	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	57K14-0168	739229.25	1009853	112	Mv	6/5/2006	33	2	18	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0183	739096	1009968.25	99	Mv	6/8/2006	80	2	8	Cultural Debris	6/13/2006	Trash	Pass	KC
SEAD-57	57K14-0184	739022	1009873	98	Mv	6/8/2006	104	2	10	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0205	739145.75	1009771.5	82	Mv	6/5/2006	26	2	4	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0206	739249.211	1009819.133	82	Mv	6/5/2006	185	2	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K14-0207	739024.25	1009808.25	81	Mv	6/12/2006	40	2	6	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0208	739027.5	1009825.75	81	Mv	6/8/2006	40	2	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K14-0210	739240.5	1009929.75	79	Mv	6/8/2006	107	2	10	Cultural Debris	6/12/2006	Steel scrap	Pass	KC
SEAD-57	57K14-0227	739012.75	1009896.5	71	Mv	6/8/2006	38	2	24	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57K14-0231	739168.327	1009910.045	69	Mv	6/8/2006	63	2	8	Cultural Debris	6/12/2006	Alum	-	
SEAD-57	57K14-0236	739089.25	1009889.5	67	Mv	6/8/2006	25	2	12	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0266	739132	1009792.25	56	Mv	6/5/2006	43	2	1	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0273	739239	1009849.25	54	Mv	6/5/2006	15	2	4	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57K14-0274	739178.5	1009785.25	54	Mv	6/5/2006	50	2	4	Cultural Debris	6/5/2006	Trash	-	
SEAD-57	57K14-0288	739016.5	1009964.75	50	Mv	6/8/2006	100	2	12	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0295	739100.75	1009918	50	Mv	6/8/2006	20	2	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0332	739128	1009818	42	Mv	9/11/2006	42	2	13	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57K14-0374	739068.5	1009800.75	36	Mv	9/11/2006	36	2	4	Munitions Debris	9/21/2006	Flare piece	Pass	KC
SEAD-57	57K14-0500	739033.75	1009803	23	Mv	9/11/2006	23	2	8	Cultural Debris	9/21/2006	Scrap metal	Pass	KC
SEAD-57	57K16-0001	739224.75	1010077	97375	Mv	6/7/2006	2000	2	0	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0006	739093.75	1010154.75	3815	Mv	6/7/2006	1200	2	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0007	739029.25	1010159.25	3515	Mv	6/7/2006	800	2	2	MPPEH	6/12/2006	20mm	-	
SEAD-57	57K16-0008	739086	1010158.5	3194	Mv	6/7/2006	2000	2	0	Cultural Debris	8/23/2006	Scrap metal 2" x 6"	-	
SEAD-57	57K16-0017	739189.5	1010066.75	1052	Mv	6/7/2006	430	2	3	Cultural Debris	6/13/2006	Trash	-	

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SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57K16-0020	739212.5	1010088	830	Mv	6/7/2006	350	2	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0023	739095.982	1010031.303	786	Mv	6/7/2006	150	2	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0030	739102.032	1010075.528	628	Mv	6/7/2006	30	2	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0034	739090.75	1010053.5	569	Mv	6/7/2006	400	2	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0038	739202.75	1010067.75	530	Mv	6/7/2006	330	2	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0041	739087.5	1010131.75	474	Mv	6/7/2006	113	2	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K16-0046	739175.25	1010066	418	Mv	6/7/2006	550	2	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0048	739118.5	1010105.25	356	Mv	6/7/2006	150	2	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K16-0051	739074.5	1010120.25	313	Mv	6/7/2006	250	2	0	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0059	739151.5	1010081.75	215	Mv	6/7/2006	65	2	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0075	739134	1010083	126	Mv	6/7/2006	15	2	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0079	739126	1010076.75	124	Mv	6/7/2006	50	2	4	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0080	739232.25	1010136.5	123	Mv	6/7/2006	105	2	0	Cultural Debris	8/23/2006	Scrap metal 1" x 7"	-	
SEAD-57	57K16-0085	739148.75	1010080.25	111	Mv	6/7/2006	45	2	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0109	739138.25	1010139.5	65	Mv	6/7/2006	65	2	1	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57K16-0113	739054.75	1010026	62	Mv	6/7/2006	20	2	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0114	739157.75	1010084.25	62	Mv	6/7/2006	20	2	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0116	739130	1010070.75	59	Mv	6/7/2006	30	2	1	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57K16-0120	739155.25	1010070	55	Mv	6/7/2006	15	2	2	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K16-0121	739175.048	1010107.556	54	Mv	6/12/2006	999	2	0	Cultural Debris	8/23/2006	Nails	-	
SEAD-57	57K16-0124	739009.75	1010068.25	53	Mv	6/7/2006	20	2	3	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57M08-0004	739437	1009152.25	641	Mv	6/5/2006	999	2	0	Cultural Debris	7/5/2006	Metal bar same as m08 0010	-	
SEAD-57	57M08-0009	739484.5	1009002.25	241	Mv	6/5/2006	101	2	0	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	57M08-0010	739438.25	1009149.5	234	Mv	6/5/2006	999	2	0	Cultural Debris	7/5/2006	Metal bar same as m08 0004	Pass	KC
SEAD-57	57M08-0023	739427.5	1009137	162	Mv	6/5/2006	999	2	0	Cultural Debris	7/5/2006	Alum cap	Pass	KC
SEAD-57	57M08-0051	739456.5	1009125	44	Mv	9/11/2006	44	2	15	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M08-0078	739480.25	1009088	33	Mv	9/11/2006	33	2	30	Cultural Debris	9/20/2006	Brass washer	Pass	KC
SEAD-57	57M08-0093	739415.75	1009162.5	29	Mv	9/11/2006	29	2	12	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M10-0003	739466.5	1009453.25	2314	Mv	8/1/2006	5000	2	0	Cultural Debris	8/22/2006	1 washer	-	
SEAD-57	57M10-0014	739476.5	1009469.75	180	Mv	8/1/2006	180	2	0	Cultural Debris	8/22/2006	Alum 2" disc	-	
SEAD-57	57M10-0021	739336.25	1009462.25	129	Mv	8/1/2006	129	2	0	Cultural Debris	8/22/2006	Alum washer	Pass	KC
SEAD-57	57M10-0047	739486	1009447.25	51	Mv	8/1/2006	51	2	0	Munitions Debris	8/22/2006	Frag 1" x 1" x 1/2"	-	
SEAD-57	57M10-0049	739432.5	1009414	49	Mv	9/11/2006	49	2	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	57M10-0059	739475.25	1009381.5	44	Mv	9/11/2006	44	2	24	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57M10-0079	739443.75	1009318.5	35	Mv	9/11/2006	35	2	14	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57M12-0016	739251.341	1009628.367	25392	Mv	6/2/2006	999	2	10	Cultural Debris	6/5/2006	Steel scrap, many rusty chips remain	Pass	KC
SEAD-57	57M12-0039	739375.75	1009600.5	2723	Mv	6/2/2006	999	2	0	Cultural Debris	7/5/2006	Metal bar	-	
SEAD-57	57M12-0040	739377.5	1009597.75	2717	Mv	6/2/2006	999	2	0	Cultural Debris	7/5/2006	Same as flag 39 (metal bar)	-	
SEAD-57	57M12-0058	739250.75	1009633	1781	Mv	6/2/2006	999	2	10	Cultural Debris	6/5/2006	Steel scrap, many rust chips remaining	-	
SEAD-57	57M12-0069	739459	1009618	1473	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0088	739399.25	1009601.75	984	Mv	6/2/2006	999	2	2	Cultural Debris	6/7/2006	Steel scrap. Anomalies M12-0088 and M12-0098 are same item.	Pass	KC
SEAD-57	57M12-0098	739399.005	1009599.793	814	Mv	6/2/2006	999	2	2	Cultural Debris	6/7/2006	Steel scrap. Anomalies M12-0088 and M12-0098 are same item.	-	
SEAD-57	57M12-0124	739284.5	1009624.75	576	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0139	739404.25	1009591.5	442	Mv	6/2/2006	999	2	0	Cultural Debris	6/7/2006	Steel scrap	-	
SEAD-57	57M12-0149	739386.5	1009581.25	370	Mv	6/2/2006	999	2	0	Cultural Debris	7/5/2006	Alum skon ?	-	
SEAD-57	57M12-0205	739383.25	1009600	176	Mv	6/2/2006	999	2	0	Cultural Debris	7/5/2006	Strap	Pass	KC
SEAD-57	57M12-0212	739359.25	1009674.25	167	Mv	6/6/2006	90	2	0	Cultural Debris	8/22/2006	Horse shoe	-	
SEAD-57	57M12-0237	739351	1009619.75	145	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0241	739412.75	1009647.75	141	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006	Steel scrap	-	
SEAD-57	57M12-0246	739250.5	1009639.25	136	Mv	6/2/2006	999	2	4	Cultural Debris	7/5/2006	Steel scrap	-	
SEAD-57	57M12-0285	739256.25	1009629.5	97	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0288	739419	1009642.75	95	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006	Steel scrap	-	
SEAD-57	57M12-0302	739465	1009634.25	88	Mv	6/2/2006	999	2	4	Cultural Debris	6/7/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57M12-0336	739448.5	1009590.75	72	Mv	6/2/2006	999	2	0	Cultural Debris	6/6/2006	Scrap metal, 2" x 4"	-	
SEAD-57	57M12-0353	739327	1009630.5	65	Mv	6/5/2006	25	2	3	Cultural Debris	6/7/2006	Trash	-	
SEAD-57	57M12-0356	739427.25	1009639	65	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006	Steel scrap	Pass	KC
SEAD-57	57M12-0357	739266.75	1009725.25	64	Mv	6/2/2006	999	2	1	Cultural Debris	6/7/2006		-	
SEAD-57	57M12-0367	739470.75	1009689.75	60	Mv	6/6/2006	13	2	8	Cultural Debris	8/22/2006	scrap metal	-	
SEAD-57	57M12-0382	739364	1009704.75	54	Mv	6/6/2006	37	2	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57M12-0395	739304.5	1009609.75	48	Mv	9/11/2006	48	2	6	Munitions Debris	9/20/2006	Frag	-	
SEAD-57	57M12-0467	739303.25	1009663	31	Mv	9/11/2006	31	2	4	Cultural Debris	9/20/2006	Steel bolt	-	
SEAD-57	57M12-0527	739390	1009670.75	23	Mv	9/11/2006	23	2	20	Cultural Debris	9/21/2006	Wire	Pass	KC
SEAD-57	57M14-0031	739259.75	1009855.75	1044	Mv	6/5/2006	330	2	3	Cultural Debris	6/20/2006	Trash	-	
SEAD-57	57M14-0062	739314	1009758.25	329	Mv	6/5/2006	124	2	2	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M14-0088	739324	1009987.25	162	Mv	6/6/2006	19000	2	0	Cultural Debris	6/7/2006	Steel railroad track	Pass	KC
SEAD-57	57M14-0124	739314.75	1009818.75	102	Mv	6/5/2006	118	2	6	Cultural Debris	6/6/2006	Steel scrap	-	
SEAD-57	57M14-0131	739339	1009815.25	96	Mv	6/5/2006	15	2	1	Cultural Debris	7/5/2006	Alum	Pass	KC
SEAD-57	57M14-0141	739374.75	1009865.5	90	Mv	6/6/2006	26	2	10	Cultural Debris	6/7/2006	Alum can	-	
SEAD-57	57M14-0152	739433	1009849	76	Mv	6/6/2006	45	2	10	Cultural Debris	6/7/2006	Cultural debris	-	
SEAD-57	57M14-0167	739391.75	1009858.25	65	Mv	6/6/2006	29	2	3	Munitions Debris	7/5/2006	Small Arms, .50 cal	Pass	KC
SEAD-57	57M14-0421	739317.25	1009929.75	20	Mv	9/11/2006	20	2	20	Hot Soil	9/21/2006	Can part	Pass	KC
SEAD-57	57M16-0031	739312.75	1010068.25	192	Mv	6/6/2006	54	2	0	Cultural Debris	6/8/2006	Nails	-	
SEAD-57	57M16-0036	739430.75	1010057.75	166	Mv	6/7/2006	55	2	0	Munitions Debris	6/10/2006	Frag	Pass	KC
SEAD-57	57M16-0045	739368.25	1010129	138	Mv	6/6/2006	40	2	0	Cultural Debris	6/10/2006	Nail	-	
SEAD-57	57M16-0046	739309.5	1010114	136	Mv	6/7/2006	48	2	3	Munitions Debris	10/19/2006	Small Arms, .50 cal head	-	
SEAD-57	57M16-0048	739431.75	1010064.25	126	Mv	6/7/2006	65	2	0	Cultural Debris	6/10/2006	Nail	-	
SEAD-57	57M16-0051	739312.5	1010113.75	114	Mv	6/6/2006	77	2	2	Cultural Debris	6/12/2006	Trash	-	
SEAD-57	57M16-0052	739389.5	1010057	114	Mv	6/7/2006	38	2	0	Munitions Debris	6/10/2006	Frag	Pass	KC
SEAD-57	57M16-0055	739314.5	1010090.25	107	Mv	6/6/2006	56	2	1	Cultural Debris	6/12/2006	Trash	Pass	KC
SEAD-57	57M16-0058	739266	1010099.75	103	Mv	6/6/2006	45	2	0	Cultural Debris	6/10/2006	Aluminum strip	-	
SEAD-57	57M16-0064	739312.5	1010072	93	Mv	6/6/2006	78	2	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57M16-0072	739312.75	1010057	83	Mv	6/6/2006	20	2	0	Cultural Debris	6/5/2006	Wire	-	
SEAD-57	57M16-0079	739302.514	1010075.187	71	Mv	6/6/2006	28	2	0	Cultural Debris	6/8/2006	Nails	-	
SEAD-57	57M16-0086	739316.5	1010160.25	69	Mv	6/6/2006	60	2	0	Cultural Debris	6/10/2006	Wire	Pass	KC
SEAD-57	57M16-0087	739318.25	1010163.5	67	Mv	6/6/2006	61	2	0	Cultural Debris	6/10/2006	aluminum	-	
SEAD-57	57M16-0088	739251.25	1010075.75	66	Mv	6/6/2006	50	2	1	Cultural Debris	6/10/2006	wire	Pass	KC
SEAD-57	57M16-0089	739274.5	1010106	65	Mv	6/6/2006	35	2	0	Cultural Debris	6/10/2006	Wire	-	
SEAD-57	57M16-0106	739431.25	1010077.5	50	Mv	6/7/2006	30	2	0	Cultural Debris	6/10/2006	Wire	Pass	KC
SEAD-57	57M16-0108	739254.5	1010074.75	50	Mv	6/7/2006	30	2	1	Cultural Debris	6/10/2006	Wire	-	
SEAD-57	57M16-0114	739299	1010071.5	46	Mv	9/11/2006	46	2	36	Cultural Debris	9/21/2006		Pass	KC
SEAD-57	57M16-0161	739267	1010075.5	31	Mv	9/11/2006	31	2	7	Munitions Debris	9/21/2006	Small Arms, .50 cal head	Pass	KC
SEAD-57	57O10-0039	739562	1009493	26	Mv	9/11/2006	26	2	30	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57O10-0173	739515.25	1009387.75	11	Mv	9/11/2006	11	2	18	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O12-0014	739510.25	1009564.25	350	Mv	6/5/2006	85	2	12	Cultural Debris	6/6/2006	Wire, 10" long, found 12" West of flag	-	
SEAD-57	57O12-0020	739525	1009506.5	152	Mv	6/5/2006	73	2	0	Cultural Debris	6/6/2006	Alum disk, 2" diameter	-	
SEAD-57	57O12-0024	739508.25	1009624.75	82	Mv	6/5/2006	33	2	0	Cultural Debris	6/6/2006	Wire 5"	-	
SEAD-57	57O12-0025	739551.161	1009583.905	80	Mv	6/5/2006	30	2	0	Cultural Debris	6/6/2006	Alum, 1" x 2"	-	
SEAD-57	57O12-0033	739560	1009555.75	44	Mv	9/11/2006	44	2	7	Munitions Debris	9/20/2006	Frag	Pass	KC
SEAD-57	57O12-0038	739505.75	1009651.75	29	Mv	9/11/2006	29	2	10	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57O12-0040	739515.25	1009586	28	Mv	9/11/2006	28	2	8	Munitions Debris	9/20/2006	Small Arms, brass cart.	Pass	KC
SEAD-57	57O12-0064	739514.75	1009654.75	20	Mv	9/11/2006	20	2	15	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	F08-001	738618.09	1009080.13	9	nT	8/8/2006	9	2	24	Cultural Debris	8/9/2006	Scrap metal	-	
SEAD-57	F08-003	738611.97	1009044.75	37	nT	8/8/2006	37	2	14	Cultural Debris	8/9/2006	Scrap metal	Pass	KC
SEAD-57	F08-004	738578.08	1009020.66	7	nT	8/8/2006	7	2	24	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	F08-006	738579.98	1009080.13	33	nT	8/8/2006	33	2	18	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	F08-007	738548	1009082.18	480	nT	8/8/2006	480	2	12	Cultural Debris	8/9/2006	Iron rod	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
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Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	F08-015	738524.05	1009074.42	14	nT	8/8/2006	14	2	8	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	F08-020	738551.81	1009119.87	9	nT	8/8/2006	9	2	14	Cultural Debris	8/9/2006		-	
SEAD-57	F09-005	738506.36	1009170.5	17	nT	8/8/2006	17	2	8	Hot Soil	8/9/2006	Hot Rock	-	
SEAD-57	F09-009	738513.84	1009155.12	6	nT	8/8/2006	6	2	20	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	F09-014	738599.99	1009150.09	11	nT	8/8/2006	11	2	12	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	F09-015	738618.23	1009175.53	19	nT	8/8/2006	19	2	18	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	F11-003	738540.106	1009392.116	15	nT	10/17/2006	15	2	5	Cultural Debris	10/25/2006	Scrap metal	-	
SEAD-57	G06-029	738739.06	1008792.658	14	nT	9/6/2006	14	2	10	Cultural Debris	9/7/2006		Pass	KC
SEAD-57	G07-010	738745.199	1008932.375	13	nT	9/6/2006	12	2	12	Cultural Debris	9/7/2006		-	
SEAD-57	G08-005	738698.88	1009039.62	10	nT	8/8/2006	10	2	14	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	G08-006	738708.03	1009039.76	5	nT	8/8/2006	5	2	10	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	G08-008	738728.86	1009050.31	28	nT	8/8/2006	28	2	4	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G08-018	738633.03	1009018.93	10	nT	8/8/2006	10	2	1	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	G08-020	738655.12	1009043.98	27	nT	8/8/2006	27	2	2	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	G08-030	738677.07	1009102.38	12	nT	8/8/2006	12	2	24	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G08-032	738683.12	1009067.76	13	nT	8/8/2006	13	2	24	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	G08-035	738697.2	1009098.58	11	nT	8/8/2006	11	2	18	Cultural Debris	8/9/2006	Wire	Pass	KC
SEAD-57	G08-038	738735.19	1009114.62	9	nT	8/8/2006	9	2	12	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G08-041	738731.25	1009104.06	9	nT	8/8/2006	9	2	6	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G08-043	738735.19	1009078.74	29	nT	8/8/2006	29	2	6	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G08-047	738722.95	1009074.09	30	nT	8/8/2006	30	2	11	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-002	738715.07	1009146.84	17	nT	8/8/2006	17	2	24	Cultural Debris	8/9/2006	Wire	Pass	KC
SEAD-57	G09-004	738727.03	1009162.18	21	nT	8/8/2006	21	2	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-005	738716.47	1009161.47	199	nT	8/8/2006	199	2	14	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-010	738699.02	1009190.6	12	nT	8/8/2006	12	2	14	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	G09-011	738691.29	1009200.59	3	nT	8/8/2006	3	2	18	Cultural Debris	8/9/2006	Wire	Pass	KC
SEAD-57	G09-017	738631.06	1009161.17	11	nT	8/8/2006	11	2	14	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	G09-018	738643.02	1009184.41	35	nT	8/8/2006	35	2	10	Cultural Debris	8/9/2006	Wire	Pass	KC
SEAD-57	G09-021	738657.09	1009227.89	25	nT	8/8/2006	25	2	12	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	G09-022	738663.28	1009230.42	9	nT	8/8/2006	9	2	12	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-026	738747.01	1009218.89	28	nT	8/8/2006	28	2	20	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-027	738747.15	1009212.13	16	nT	8/8/2006	16	2	18	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-029	738740.25	1009201.01	3	nT	8/8/2006	3	2	6	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-031	738735.19	1009191.45	12	nT	8/8/2006	12	2	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-034	738727.03	1009168.65	21	nT	8/8/2006	21	2	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-036	738735.33	1009165.13	13	nT	8/8/2006	13	2	18	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G09-038	738749.12	1009144.17	845	nT	8/8/2006	845	2	8	Munitions Debris	8/9/2006	Frag	-	
SEAD-57	G10-003	738682.9	1009326.75	51	nT	8/8/2006	51	2	8	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-004	738695.07	1009334.21	47	nT	8/8/2006	47	2	14	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-010	738650.33	1009359.93	7	nT	8/8/2006	7	2	8	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G10-011	738647.89	1009353.84	12	nT	8/8/2006	12	2	12	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G10-013	738643.17	1009310.31	19	nT	8/8/2006	19	2	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G10-014	738624.91	1009305.9	47	nT	8/8/2006	47	2	24	Munitions Debris	8/9/2006	Slap flare [empty]	Pass	KC
SEAD-57	G10-018	738647.13	1009251.57	89	nT	8/8/2006	89	2	10	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G10-025	738691.11	1009264.96	96	nT	8/8/2006	96	2	13	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-028	738716.84	1009267.7	82	nT	8/8/2006	82	2	22	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G10-032	738740.43	1009261.31	3	nT	8/8/2006	3	2	2	Cultural Debris	8/9/2006	Wire	-	
SEAD-57	G10-034	738748.8	1009262.37	16	nT	8/8/2006	16	2	24	Cultural Debris	8/9/2006	Trash	-	
SEAD-57	G10-035	738749.25	1009274.55	17	nT	8/8/2006	17	2	15	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G10-036	738738.6	1009282.31	19	nT	8/8/2006	19	2	24	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-038	738730.38	1009292.36	4	nT	8/8/2006	4	2	24	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G10-042	738747.12	1009307.12	17	nT	8/8/2006	17	2	20	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G10-046	738749.25	1009339.54	15	nT	8/8/2006	15	2	12	Cultural Debris	8/10/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	G10-052	738730.08	1009328.73	4	nT	8/8/2006	4	2	10	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G10-053	738732.51	1009310.62	2	nT	8/8/2006	2	2	24	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G10-057	738720.18	1009285.05	2	nT	8/8/2006	2	2	18	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-003	738728.23	1009411.76	2	nT	8/8/2006	2	2	12	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-018	738682.67	1009477.16	9	nT	8/8/2006	9	2	8	Munitions Debris	8/10/2006	Frag	-	
SEAD-57	G11-027	738747.18	1009458.34	15	nT	8/8/2006	15	2	3	Cultural Debris	8/10/2006	seed item	Pass	KC
SEAD-57	G11-030	738725.58	1009443.35	3	nT	8/8/2006	3	2	16	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-032	738724.11	1009429.69	6	nT	8/8/2006	6	2	36	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-033	738738.95	1009435.12	17	nT	8/8/2006	17	2	30	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-034	738744.1	1009431.89	6	nT	8/8/2006	6	2	22	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-035	738747.04	1009424.69	82	nT	8/8/2006	82	2	10	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-036	738740.13	1009419.55	3	nT	8/8/2006	3	2	0	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-037	738749.24	1009409.7	28	nT	8/8/2006	28	2	8	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-038	738743.07	1009405	10	nT	8/8/2006	10	2	2	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G11-039	738731.02	1009402.5	11	nT	8/8/2006	11	2	20	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-040	738726.9	1009394.56	16	nT	8/8/2006	16	2	8	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G12-001	738720.085	1009563.062	18	nT	10/17/2006	19	2	24	Hot Soil	10/24/2006	Hot rock	-	
SEAD-57	H06-005	738750.12	1008845.21	8	nT	8/8/2006	8	2	1	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-007	738758.12	1008787.61	11	nT	8/8/2006	11	2	6	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-012	738788.03	1008763.17	14	nT	8/8/2006	14	2	1	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-013	738793.95	1008761.69	19	nT	8/8/2006	19	2	1	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-014	738793.8	1008753.4	6	nT	8/8/2006	6	2	1	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-033	738788.77	1008824.92	4	nT	8/8/2006	4	2	2	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	H07-006	738797.65	1008947.39	11	nT	8/8/2006	11	2	8	Cultural Debris	8/9/2006		-	
SEAD-57	H07-013	738824.01	1008998.92	39	nT	8/8/2006	39	2	3	Munitions Debris	8/9/2006	Frag	Pass	KC
SEAD-57	H07-026	738792.32	1008892.15	28	nT	8/8/2006	28	2	1	Cultural Debris	8/9/2006		-	
SEAD-57	H08-001	738810.134	1009028.573	12	nT	9/6/2006	12	2	12	Cultural Debris	9/8/2006		-	
SEAD-57	H08-004	738814.022	1009070.695	45	nT	9/6/2006	45	2	5	Cultural Debris	9/8/2006		-	
SEAD-57	H08-009	738827.242	1009083.915	14	nT	9/6/2006	14	2	18	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	H08-013	738870.92	1009076.398	88	nT	9/6/2006	88	2	7	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	H08-014	738868.068	1009101.153	17	nT	9/6/2006	17	2	5	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-016	738851.09	1009102.838	8	nT	9/6/2006	8	2	6	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	H08-027	738805.987	1009109.836	39	nT	9/6/2006	39	2	10	Cultural Debris	9/8/2006		-	
SEAD-57	H08-028	738806.764	1009105.43	25	nT	9/6/2006	25	2	12	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-037	738791.86	1009087.674	28	nT	9/6/2006	27	2	16	Cultural Debris	9/8/2006		-	
SEAD-57	H08-059	738764.866	1009124.16	12	nT	10/17/2006	14	2	3	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	H08-071	738859.924	1009043.032	17	nT	10/17/2006	17	2	4	Cultural Debris	10/19/2006		-	
SEAD-57	H08-072	738835.585	1009054.665	21	nT	10/17/2006	20	2	1	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	H09-003	738789.817	1009234.066	8	nT	10/17/2006	9	2	6	Munitions Debris	10/23/2006	Frag	-	
SEAD-57	H09-005	738790.276	1009213.401	32	nT	10/17/2006	32	2	24	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	H09-016	738801.997	1009146.042	24	nT	10/17/2006	24	2	4	Munitions Debris	10/19/2006	M123	-	
SEAD-57	H09-020	738803.958	1009240.6	11	nT	10/17/2006	11	2	8	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	H09-024	738868.118	1009244.242	20	nT	10/17/2006	20	2	1	Munitions Debris	10/23/2006	Frag	-	
SEAD-57	H09-027	738845.984	1009178.122	9	nT	10/17/2006	9	2	5	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	H09-029	738850.047	1009163.973	8	nT	10/17/2006	8	2	28	Cultural Debris	10/25/2006	Wire	-	
SEAD-57	H09-031	738866.156	1009146.322	14	nT	10/17/2006	14	2	14	Cultural Debris	10/25/2006	Scrap metal	Pass	KC
SEAD-57	H10-009	738803.128	1009355.957	14	nT	10/17/2006	14	2	15	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-014	738802.99	1009319.203	15	nT	10/17/2006	15	2	6	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-018	738831.144	1009331.131	37	nT	10/17/2006	37	2	6	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-023	738805.07	1009309.633	13	nT	10/17/2006	13	2	14	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-027	738795.084	1009307.553	9	nT	10/17/2006	9	2	24	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-029	738786.901	1009291.187	11	nT	10/17/2006	12	2	18	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-038	738812.976	1009287.72	13	nT	10/17/2006	13	2	6	Cultural Debris	10/25/2006	Metal disc	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H10-061	738846.956	1009304.918	14	nT	10/17/2006	13	2	6	Cultural Debris	10/25/2006	Scrap metal	-	
SEAD-57	H10-065	738863.183	1009313.239	10	nT	10/17/2006	11	2	13	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-067	738863.183	1009326.831	14	nT	10/17/2006	14	2	28	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-068	738862.905	1009346.249	24	nT	10/17/2006	25	2	15	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-070	738867.205	1009365.111	10	nT	10/17/2006	11	2	30	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-073	738822.823	1009349.3	7	nT	10/17/2006	6	2	4	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H10-078	738809.092	1009370.52	17	nT	10/17/2006	17	2	19	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-082	738786.901	1009359.147	9	nT	10/17/2006	9	2	30	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H11-005	738857.009	1009377.866	150	nT	10/17/2006	150	2	12	Cultural Debris	10/25/2006	Wire	Pass	KC
SEAD-57	H11-006	738842.695	1009382.591	29	nT	10/17/2006	29	2	2	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-012	738801.283	1009377.866	110	nT	10/17/2006	111	2	12	Cultural Debris	10/25/2006	Nail	Pass	KC
SEAD-57	H11-015	738791	1009414.136	50	nT	10/17/2006	51	2	4	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H11-020	738851.867	1009396.626	52	nT	10/17/2006	53	2	7	Cultural Debris	10/25/2006	Wire	-	
SEAD-57	H12-002	738847.968	1009616.076	14	nT	10/17/2006	14	2	40	Cultural Debris	10/24/2006	Nail	Pass	KC
SEAD-57	H12-010	738792.056	1009595.373	16	nT	10/17/2006	15	2	12	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	H12-013	738793.887	1009573.12	18	nT	10/17/2006	18	2	12	Cultural Debris	10/24/2006	Metal disc	-	
SEAD-57	H12-017	738860.221	1009589.035	14	nT	10/17/2006	14	2	9	Cultural Debris	10/25/2006	Metal disc	Pass	KC
SEAD-57	H12-018	738850.081	1009593.824	30	nT	10/17/2006	30	2	18	Cultural Debris	10/24/2006	Metal disc	Pass	KC
SEAD-57	H13-001	738756.424	1009641.708	48	nT	10/17/2006	49	2	26	Cultural Debris	10/24/2006	Shot gun pellet	Pass	KC
SEAD-57	H13-004	738769.945	1009637.201	13	nT	10/17/2006	12	2	35	Cultural Debris	10/24/2006	Metal disc	-	
SEAD-57	H13-007	738784.028	1009631.85	65	nT	10/17/2006	66	2	18	Cultural Debris	10/24/2006	Wire	Pass	KC
SEAD-57	H13-008	738794.169	1009629.174	72	nT	10/17/2006	73	2	13	Cultural Debris	10/24/2006	A pocket of rust	-	
SEAD-57	H13-015	738844.025	1009673.819	131	nT	10/17/2006	131	2	50	Cultural Debris	10/24/2006	Wire	Pass	KC
SEAD-57	H13-027	738862.052	1009629.033	9	nT	10/17/2006	8	2	30	Munitions Debris	10/24/2006	Frag	Pass	KC
SEAD-57	H13-028	738862.193	1009639.596	28	nT	10/17/2006	28	2	18	Cultural Debris	10/24/2006	Wire	Pass	KC
SEAD-57	H13-040	738828.11	1009728.182	34	nT	10/17/2006	34	2	24	Cultural Debris	10/24/2006	Como wire	-	
SEAD-57	H13-042	738819.097	1009715.225	28	nT	10/17/2006	28	2	14	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	H13-045	738789.944	1009705.366	9	nT	10/17/2006	8	2	0	Cultural Debris	10/24/2006	Nail	-	
SEAD-57	H13-046	738785.859	1009692.409	26	nT	10/16/2006	26	2	48	Cultural Debris	10/24/2006	Spring clip	-	
SEAD-57	H13-047	738795.859	1009682.551	13	nT	10/17/2006	13	2	30	Cultural Debris	10/24/2006	Wire	Pass	KC
SEAD-57	H13-051	738784.028	1009661.284	28	nT	10/16/2006	28	2	20	Cultural Debris	10/24/2006	Nail	Pass	KC
SEAD-57	H13-055	738750.087	1009643.257	21	nT	10/16/2006	21	2	40	Cultural Debris	10/24/2006	Metal disc	Pass	KC
SEAD-57	I08-001	738941.478	1009092.828	33	nT	10/16/2006	33	2	6	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	I08-006	738880.051	1009087.568	9	nT	10/16/2006	8	2	6	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	I08-011	738950.132	1009118.621	20	nT	10/16/2006	21	2	1	Cultural Debris	10/23/2006		Pass	KC
SEAD-57	I08-013	738982.712	1009118.96	28	nT	10/16/2006	27	2	4	Cultural Debris	10/19/2006	Hinge	Pass	KC
SEAD-57	I08-020	738997.475	1009054.309	15	nT	10/16/2006	16	2	3	Hot Soil	10/23/2006	Rock	Pass	KC
SEAD-57	I08-025	738969.985	1009017.317	7	nT	10/16/2006	9	2	4	Hot Soil	10/23/2006	Rock	Pass	KC
SEAD-57	I08-028	738894.983	1009018.844	7	nT	10/16/2006	6	2	30	Hot Soil	10/23/2006	Hot rock	Pass	KC
SEAD-57	I10-014	738965.47	1009269.16	330	nT	8/8/2006	330	2	3	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	I10-024	738919.32	1009268.73	27	nT	8/8/2006	27	2	6	Cultural Debris	8/9/2006		-	
SEAD-57	I10-027	738901.11	1009277.34	21	nT	8/8/2006	21	2	5	Cultural Debris	8/9/2006		-	
SEAD-57	I10-028	738886.01	1009257.02	47	nT	8/8/2006	47	2	2	MPPEH	8/9/2006	3 stokes	Pass	KC
SEAD-57	I10-030	738891.23	1009277.06	24	nT	8/8/2006	24	2	2	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	I10-042	738911.13	1009346.35	12	nT	8/8/2006	12	2	2	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	I10-046	738950.22	1009338.17	5	nT	8/8/2006	5	2	4	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	I11-010	738914.8	1009428.91	11	nT	8/8/2006	11	2	7	Hot Soil	8/10/2006	Hot rock	Pass	KC
SEAD-57	I11-022	738888.97	1009490.59	12	nT	8/8/2006	12	2	4	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-023	738895.61	1009489.17	5	nT	8/8/2006	5	2	2	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-025	738888.83	1009484.38	5	nT	8/8/2006	5	2	6	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-027	738887.14	1009468.57	14	nT	8/8/2006	14	2	3	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-029	738895.04	1009454.74	15	nT	8/8/2006	15	2	4	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	I11-031	738917.06	1009445.28	15	nT	8/8/2006	15	2	6	Cultural Debris	8/10/2006	Trash	Pass	KC

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Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	I12-003	738938.167	1009528.513	8	nT	9/6/2006	8	2	8	Cultural Debris	9/8/2006	Snap ring	Pass	KC
SEAD-57	I12-004	738926.793	1009525.263	6	nT	9/6/2006	6	2	30	Cultural Debris	9/8/2006	Piece of chain	Pass	KC
SEAD-57	I12-007	738890.908	1009504.003	19	nT	9/6/2006	19	2	6	Cultural Debris	9/8/2006	Machine part	Pass	KC
SEAD-57	I12-008	738883.596	1009505.222	6	nT	9/6/2006	6	2	12	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I12-018	738875.336	1009534.471	11	nT	9/6/2006	11	2	4	Munitions Debris	9/8/2006	2 digs, 2 pieces	Pass	KC
SEAD-57	I12-020	738875.201	1009560.605	10	nT	9/6/2006	10	2	24	Cultural Debris	9/8/2006	Wrench	Pass	KC
SEAD-57	I12-021	738882.919	1009572.251	8	nT	9/6/2006	8	2	9	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I12-024	738903.773	1009575.094	9	nT	9/6/2006	9	2	20	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	I12-025	738922.866	1009578.886	14	nT	9/6/2006	14	2	4	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I12-026	738928.961	1009570.35	18	nT	9/6/2006	18	2	12	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	I12-027	738938.98	1009587.146	12	nT	9/6/2006	12	2	11	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	I12-032	738987.592	1009604.479	4	nT	9/6/2006	4	2	11	Cultural Debris	9/7/2006	Comm. wire	Pass	KC
SEAD-57	I12-033	738988.946	1009539.481	9	nT	9/6/2006	9	2	18	Munitions Debris	9/7/2006	Frag	-	
SEAD-57	I13-001	738885.977	1009668.598	3	nT	9/6/2006	3	2	30	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	I13-005	738875.055	1009724.863	81	nT	9/6/2006	81	2	36	Cultural Debris	9/7/2006	Wire	Pass	KC
SEAD-57	I13-008	738971.135	1009730.669	26	nT	9/6/2006	26	2	5	Cultural Debris	9/7/2006	Wire	Pass	KC
SEAD-57	I13-011	738972.656	1009660.165	5	nT	9/6/2006	5	2	18	Cultural Debris	9/7/2006	Wire	Pass	KC
SEAD-57	I13-015	738990.751	1009632.722	8	nT	9/6/2006	8	2	10	Cultural Debris	9/7/2006	Scrap metal	Pass	KC
SEAD-57	I13-018	738926.067	1009630.166	3	nT	9/6/2006	3	2	10	Cultural Debris	9/7/2006	Bolt	Pass	KC
SEAD-57	I13-019	738875.47	1009648.276	31	nT	9/6/2006	31	2	14	Cultural Debris	9/7/2006	Wire	Pass	KC
SEAD-57	I13-020	738875.332	1009658.091	59	nT	9/6/2006	59	2	24	Cultural Debris	9/7/2006	Wire	Pass	KC
SEAD-57	J08-001	739090.445	1009098.021	16	nT	10/16/2006	16	2	10	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	J08-004	739029.94	1009027.258	6	nT	10/16/2006	7	2	17	Cultural Debris	10/19/2006	Scrap metal	-	
SEAD-57	J09-007	739072.884	1009131.403	25	nT	10/16/2006	24	2	6	Cultural Debris	10/19/2006	Iron rod	-	
SEAD-57	J10-008	739036.739	1009305.044	41	nT	9/6/2006	41	2	16	Cultural Debris	9/8/2006		-	
SEAD-57	J10-014	739009.06	1009336.291	12	nT	9/6/2006	14	2	18	Cultural Debris	9/8/2006		-	
SEAD-57	J10-017	739013.061	1009293.691	10	nT	9/6/2006	10	2	8	Cultural Debris	9/8/2006		-	
SEAD-57	J10-038	739111.019	1009354.671	79	nT	9/6/2006	79	2	30	Cultural Debris	9/8/2006	Bolt	-	
SEAD-57	J11-006	739045.065	1009499.77	22	nT	9/6/2006	22	2	60	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	J11-010	739017.061	1009429.167	22	nT	9/6/2006	22	2	36	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	J11-013	739027.008	1009393.487	14	nT	9/6/2006	14	2	36	Munitions Debris	9/8/2006	Frag	-	
SEAD-57	J11-016	739048.957	1009388.838	18	nT	9/6/2006	18	2	36	Cultural Debris	9/8/2006		-	
SEAD-57	J11-019	739067.013	1009460.522	12	nT	9/6/2006	12	2	5	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	J11-026	739111.127	1009468.307	8	nT	9/6/2006	8	2	48	Munitions Debris	9/8/2006	Frag	-	
SEAD-57	J12-004	739095.042	1009591.176	15	nT	10/16/2006	14	2	30	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	J12-007	739120.128	1009573.021	11	nT	10/16/2006	12	2	6	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J12-008	739117.653	1009544.798	10	nT	10/16/2006	11	2	24	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J13-001	739089.982	1009632.641	8	nT	10/16/2006	8	2	6	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	K08-001	739152.403	1009059.768	28	nT	10/16/2006	29	2	6	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-006	739172.451	1009052.086	29	nT	10/16/2006	29	2	29	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-008	739184.817	1009022.107	10	nT	10/16/2006	10	2	6	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-011	739165.331	1009001.497	23	nT	10/16/2006	23	2	4	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-013	739145.095	1009002.434	46	nT	10/16/2006	45	2	6	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K08-014	739130.294	1009001.497	29	nT	10/16/2006	28	2	4	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	K08-015	739132.167	1009008.242	27	nT	10/16/2006	29	2	24	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	K09-003	739182.756	1009149.89	43	nT	10/16/2006	42	2	30	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K09-008	739187.44	1009188.862	18	nT	10/16/2006	19	2	9	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K10-002	739160.085	1009311.024	7	nT	10/16/2006	8	2	0	MPPEH	10/17/2006	MK 25	Pass	KC
SEAD-57	K11-003	739175.078	1009387.951	16	nT	10/16/2006	17	2	20	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K11-006	739147.286	1009494.75	9	nT	10/16/2006	9	2	33	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K11-007	739153.754	1009497.023	32	nT	10/16/2006	33	2	19	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	K11-008	739157.599	1009474.299	34	nT	10/16/2006	35	2	7	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	P57_M06-15	739258.5	1008921.75	26	Mv	7/7/2006	20	2	2	Cultural Debris	7/10/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Location (ft) Northing (Y)	Amp ²	Amp Unit	Date	Amp					Date	Item Description		
SEAD-57	P57_M06-23	739254	1008944.5	62	Mv	7/7/2006	100	2	3	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57_M06-38	739322.5	1008994.5	36	Mv	7/7/2006	40	2	2	Munitions Debris	7/10/2006	Frag	-		
SEAD-57	P57K06-110	739023.5	1008829.25	49	Mv	7/13/2006	50	2	2	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K06-115	739016	1008839.25	66	Mv	7/13/2006	100	2	2	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K06-117	739001.75	1008859.25	66	Mv	7/13/2006	110	2	2	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K06-148	739044.5	1008941.5	26	Mv	7/11/2006	25	2	2	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K06-19	739062.25	1008871.25	29	Mv	7/11/2006	85	2	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-2	739069.5	1008932.75	38	Mv	7/11/2006	85	2	3	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-208	739203.75	1008912	35	Mv	7/13/2006	45	2	2	Cultural Debris	7/18/2006	Trash	-		
SEAD-57	P57K06-228	739117.25	1008956.75	76	Mv	7/12/2006	150	2	3	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-231	739114.25	1008952.5	33	Mv	7/12/2006	85	2	3	Cultural Debris	7/18/2006	Trash	-		
SEAD-57	P57K06-234	739103	1008938.75	23	Mv	7/11/2006	23	2	2	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC	
SEAD-57	P57K06-238	739117.25	1008935.25	44	Mv	7/13/2006	92	2	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-251	739123.25	1008886.75	71	Mv	7/11/2006	95	2	2	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K06-26	739044.5	1008916.5	37	Mv	7/11/2006	80	2	2	Munitions Debris	7/17/2006	frag	Pass	KC	
SEAD-57	P57K06-267	739105.75	1008872.25	49	Mv	7/11/2006	65	2	2	Cultural Debris	7/18/2006	Trash	-		
SEAD-57	P57K06-268	739099.75	1008874.75	66	Mv	7/11/2006	85	2	2	Cultural Debris	7/18/2006	Trash	-		
SEAD-57	P57K06-277	739074.7	1008904.99	72	Mv	7/11/2006	200	2	2	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K06-283	739106	1008920.75	144	Mv	7/11/2006	140	2	2	Cultural Debris	7/17/2006	Trash	-		
SEAD-57	P57K06-284	739103	1008922.5	84	Mv	7/11/2006	130	2	2	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K06-285	739097.25	1008922	81	Mv	7/11/2006	110	2	3	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K06-289	739082.75	1008914.75	124	Mv	7/11/2006	130	2	1	Munitions Debris	7/17/2006	Frag	-		
SEAD-57	P57K06-293	739088.25	1008943	72	Mv	7/12/2006	105	2	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-294	739088.25	1008948.25	31	Mv	7/12/2006	85	2	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-298	739108.25	1008963	52	Mv	7/12/2006	120	2	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-313	739077.25	1008957	97	Mv	7/11/2006	115	2	2	Munitions Debris	7/18/2006	MK25 pieces	Pass	KC	
SEAD-57	P57K06-316	739071	1008947.25	140	Mv	7/11/2006	190	2	2	Cultural Debris	7/18/2006	Wire	-		
SEAD-57	P57K06-4	739061.5	1008925.75	24	Mv	7/11/2006	20	2	0	Cultural Debris	10/24/2006	Scrap metal	-		
SEAD-57	P57K06-5	739063.5	1008917.25	21	Mv	7/11/2006	20	2	2	Munitions Debris	7/18/2006	Frag	-		
SEAD-57	P57K06-51	739044.5	1008837.5	57	Mv	7/13/2006	48	2	2	Munitions Debris	7/18/2006	MK25 pieces	-		
SEAD-57	P57K06-56	739060	1008843.25	57	Mv	7/13/2006	58	2	2	Cultural Debris	7/18/2006	Nail	-		
SEAD-57	P57K06-68	739111.75	1008832	107	Mv	7/13/2006	105	2	3	Cultural Debris	7/17/2006	Trash	-		
SEAD-57	P57K06-77	739054.5	1008796	22	Mv	7/13/2006	30	2	2	Cultural Debris	7/17/2006	Trash	-		
SEAD-57	P57K08-106	739205.75	1009154.5	35	Mv	7/10/2006	39	2	18	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-121	739209.25	1009188.75	59	Mv	7/10/2006	78	2	15	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-122	739207.25	1009189.25	18	Mv	7/10/2006	22	2	10	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-123	739206.25	1009189.75	20	Mv	7/10/2006	23	2	3	Munitions Debris	7/11/2006	Multiple digs/pieces	-		
SEAD-57	P57K08-130	739195.5	1009206.75	62	Mv	7/10/2006	76	2	13	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-136	739209.25	1009200.25	75	Mv	7/10/2006	102	2	3	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	P57K08-152	739194.25	1009248.25	101	Mv	7/10/2006	180	2	4	Munitions Debris	7/11/2006	Frag	Pass	KC	
SEAD-57	P57K08-26	739208.75	1009105.75	28	Mv	7/10/2006	48	2	20	Munitions Debris	7/11/2006	Multiple digs/pieces	-		
SEAD-57	P57K08-27	739211.25	1009104.25	61	Mv	7/10/2006	90	2	8	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-45	739249.75	1009018.5	31	Mv	7/7/2006	50	2	0	Cultural Debris	10/24/2006	Scrap metal	-		
SEAD-57	P57K08-53	739201.75	1009018.25	16	Mv	6/1/2006	16	2	18	Munitions Debris	7/11/2006	Multiple digs/pieces	-		
SEAD-57	P57K08-54	739198.25	1009018.25	39	Mv	6/1/2006	40	2	0	Cultural Debris	10/24/2006	Soda can	-		
SEAD-57	P57K08-55	739206.25	1009023.5	96	Mv	7/7/2006	90	2	4	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-67	739206	1009074	78	Mv	7/10/2006	126	2	3	Munitions Debris	7/11/2006	Frag	-		
SEAD-57	P57K08-68	739211.5	1009075.75	22	Mv	7/10/2006	32	2	20	Hot Soil	7/11/2006	Hot Rock	-		
SEAD-57	P57K08-86	739207.25	1009134	71	Mv	7/10/2006	96	2	2	Munitions Debris	7/11/2006	Multiple digs/pieces	Pass	KC	
SEAD-57	P57K08-87	739206.25	1009136	78	Mv	7/10/2006	119	2	12	Cultural Debris	7/11/2006	Trash	Pass	KC	
SEAD-57	P57K10-106	739218.5	1009385.25	35	Mv	7/13/2006	42	2	2	Munitions Debris	7/18/2006	Alum MD	Pass	KC	
SEAD-57	P57K10-128	739200.75	1009305.75	17	Mv	7/11/2006	19	2	20	Munitions Debris	7/18/2006	Alum MD	-		
SEAD-57	P57K10-132	739203	1009298.75	59	Mv	7/11/2006	60	2	6	Munitions Debris	7/18/2006	Alum MD	-		

APPENDIX C
SEAD 57 All Dig Results
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Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Northing (Y)	Amp ²	Amp Unit	Date	Amp					Item Description			
SEAD-57	P57K10-139	739195	1009287.5	58	Mv	7/11/2006	60	2	6	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-14	739170.25	1009493	68	Mv	7/13/2006	94	2	10	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-140	739198.5	1009275.5	99	Mv	7/11/2006	110	2	6	Munitions Debris	7/18/2006	Alum MD Alum MD	-	-	
SEAD-57	P57K10-149	739196.5	1009265.5	24	Mv	7/11/2006	55	2	4	Cultural Debris	7/18/2006	Trash	-	-	
SEAD-57	P57K10-161	739238	1009272.5	19	Mv	7/11/2006	32	2	3	Cultural Debris	7/18/2006	Trash	-	-	
SEAD-57	P57K10-17	739162.25	1009484	47	Mv	7/13/2006	50	2	4	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-170	739220.25	1009295.25	25	Mv	7/11/2006	26	2	10	Cultural Debris	7/18/2006	Trash	-	-	
SEAD-57	P57K10-173	739225.75	1009308.5	28	Mv	7/11/2006	30	2	5	Munitions Debris	7/18/2006	Alum MD Alum MD	-	-	
SEAD-57	P57K10-177	739240.5	1009307	70	Mv	7/11/2006	75	2	6	Munitions Debris	7/18/2006	Alum MD Alum MD	-	-	
SEAD-57	P57K10-179	739240.25	1009312.25	48	Mv	7/11/2006	50	2	18	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-18	739176.25	1009475.5	92	Mv	7/13/2006	164	2	4	Munitions Debris	7/17/2006	Frag	-	-	
SEAD-57	P57K10-196	739233.75	1009427	34	Mv	7/13/2006	43	2	1	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-22	739182.25	1009468	39	Mv	7/13/2006	50	2	24	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-31	739204.25	1009453.25	28	Mv	7/13/2006	33	2	4	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-33	739196.5	1009457.5	22	Mv	10/4/2006	23	2	0	Cultural Debris	10/24/2006	seed item	-	-	
SEAD-57	P57K10-45	739213.25	1009425.5	37	Mv	7/13/2006	75	2	4	Munitions Debris	7/17/2006	Frag	Pass	KC	
SEAD-57	P57K10-49	739213	1009415.75	69	Mv	7/13/2006	89	2	14	Cultural Debris	7/18/2006	Trash	-	-	
SEAD-57	P57K10-53	739208	1009411.5	25	Mv	7/13/2006	28	2	8	Munitions Debris	7/18/2006	Alum MD Alum MD	-	-	
SEAD-57	P57K10-71	739201.75	1009388.75	70	Mv	7/13/2006	70	2	1	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-74	739199.75	1009379.5	82	Mv	7/13/2006	85	2	5	Cultural Debris	7/18/2006	Trash	-	-	
SEAD-57	P57K10-79	739204	1009371	26	Mv	7/13/2006	28	2	24	Munitions Debris	7/18/2006	Alum MD Alum MD	Pass	KC	
SEAD-57	P57K10-90	739198.25	1009354.5	50	Mv	7/13/2006	25	2	14	Munitions Debris	7/17/2006	Frag	-	-	
SEAD-57	P57K10-97	739210.5	1009346.25	61	Mv	7/11/2006	71	2	8	Cultural Debris	7/18/2006	seed item	Pass	KC	
SEAD-57	P57M08-118	739318.25	1009241.25	38	Mv	7/6/2006	40	2	0	Hot Soil	10/24/2006		-	-	
SEAD-57	P57M08-12	739374	1009219.5	17	Mv	7/6/2006	30	2	1	Munitions Debris	7/7/2006	Frag	-	-	
SEAD-57	P57M08-19	739394	1009175.25	29	Mv	7/6/2006	42	2	2	Munitions Debris	7/7/2006	Frag	-	-	
SEAD-57	P57M08-44	739303.25	1009132	58	Mv	7/5/2006	100	2	2	Munitions Debris	7/7/2006	Frag	-	-	
SEAD-57	P57M08-6	739347.5	1009242.25	49	Mv	7/6/2006	45	2	8	Munitions Debris	7/11/2006	Multiple digs/pieces	-	-	
SEAD-57	P57M08-7	739365	1009243.5	95	Mv	7/5/2006	145	2	1	Munitions Debris	7/7/2006	Frag	-	-	
SEAD-57	P57M08-73	739255.5	1009021	27	Mv	7/6/2006	27	2	2	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M08-8	739370.75	1009247.5	86	Mv	7/5/2006	160	2	1	Munitions Debris	7/7/2006	Frag	-	-	
SEAD-57	P57M08-9	739368	1009239.5	82	Mv	7/6/2006	90	2	1	Munitions Debris	7/7/2006	Frag	-	-	
SEAD-57	P57M08-92	739257	1009161.5	27	Mv	7/6/2006	45	2	1	Munitions Debris	7/7/2006	Frag	-	-	
SEAD-57	P57M10-1	739325.75	1009352.25	90	Mv	7/10/2006	104	2	12	Munitions Debris	7/10/2006	Frag	Pass	KC	
SEAD-57	P57M10-10	739358.25	1009348.75	104	Mv	7/10/2006	110	2	6	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-100	739343.75	1009416.5	95	Mv	7/10/2006	132	2	3	Cultural Debris	7/10/2006	Multiple digs / pieces of trash	-	-	
SEAD-57	P57M10-101	739341.25	1009416	28	Mv	7/10/2006	176	2	2	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-102	739335.25	1009418.5	22	Mv	7/10/2006	39	2	5	Munitions Debris	7/10/2006	Multiple digs / pieces	-	-	
SEAD-57	P57M10-105	739307.5	1009416.75	82	Mv	7/10/2006	113	2	8	Munitions Debris	7/10/2006	Frag	Pass	KC	
SEAD-57	P57M10-107	739300.5	1009384.75	31	Mv	7/10/2006	46	2	14	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-11	739373.25	1009332.25	26	Mv	7/10/2006	49	2	3	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-15	739382.5	1009299	47	Mv	7/10/2006	80	2	10	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-17	739387.25	1009296.25	35	Mv	7/10/2006	63	2	12	Munitions Debris	7/10/2006	Multiple digs / pieces	-	-	
SEAD-57	P57M10-18	739380.25	1009278.5	105	Mv	7/10/2006	108	2	4	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-2	739338.25	1009351.25	61	Mv	7/10/2006	70	2	4	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-20	739404	1009276.75	62	Mv	7/10/2006	110	2	5	Munitions Debris	7/10/2006	Multiple digs / pieces	-	-	
SEAD-57	P57M10-21	739395	1009253.5	17	Mv	7/10/2006	21	2	24	Cultural Debris	7/10/2006	Lead bullet and seed item	-	-	
SEAD-57	P57M10-22	739380.75	1009259.5	52	Mv	7/10/2006	150	2	4	Munitions Debris	7/10/2006	Multiple dig / pieces	-	-	
SEAD-57	P57M10-23	739364.5	1009254	302	Mv	7/10/2006	606	2	10	Cultural Debris	7/10/2006	Trash	-	-	
SEAD-57	P57M10-24	739367.5	1009262.25	16	Mv	7/10/2006	40	2	3	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-25	739370.25	1009271	29	Mv	7/10/2006	30	2	2	Munitions Debris	7/10/2006	Frag	-	-	
SEAD-57	P57M10-26	739361.25	1009276.75	40	Mv	7/10/2006	43	2	4	Cultural Debris	7/10/2006	Trash	-	-	
SEAD-57	P57M10-27	739347	1009262.5	68	Mv	7/10/2006	69	2	2	Cultural Debris	7/10/2006	Trash	-	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	P57M10-28	739344.5	1009257.75	22	Mv	7/10/2006	48	2	12	Munitions Debris	7/10/2006	Multiple digs / pieces	-	
SEAD-57	P57M10-30	739336	1009281.75	24	Mv	7/10/2006	40	2	12	Cultural Debris	7/10/2006	Multiple digs /pieces of trash and [2ea aluminum MD]	-	
SEAD-57	P57M10-33	739354.75	1009288.75	36	Mv	7/10/2006	33	2	4	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-34	739360.25	1009298.5	86	Mv	7/10/2006	101	2	6	Munitions Debris	7/10/2006	Multiple digs/pieces	-	
SEAD-57	P57M10-38	739342.5	1009328.5	59	Mv	7/10/2006	63	2	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-39	739336	1009337.75	24	Mv	7/10/2006	26	2	4	Munitions Debris	7/10/2006	Frag	Pass	KC
SEAD-57	P57M10-41	739310.25	1009333.25	129	Mv	7/10/2006	184	2	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-54	739307.59	1009272.95	37	Mv	7/10/2006	180	2	2	Munitions Debris	7/10/2006	Multiple digs / pieces [1ea frag]	-	
SEAD-57	P57M10-58	739281.75	1009270.75	16	Mv	7/10/2006	17	2	4	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	P57M10-59	739280.5	1009273.5	141	Mv	7/10/2006	160	2	13	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-6	739344.5	1009397.5	56	Mv	7/10/2006	83	2	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-60	739277.75	1009270	72	Mv	7/10/2006	120	2	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-66	739264	1009281	34	Mv	7/10/2006	46	2	3	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-68	739257	1009315	32	Mv	7/10/2006	80	2	7	Munitions Debris	7/10/2006	Multiple digs	Pass	KC
SEAD-57	P57M10-78	739266.25	1009393	111	Mv	7/10/2006	113	2	9	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-83	739266.25	1009443.75	42	Mv	7/10/2006	143	2	4	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-92	739263.75	1009478	26	Mv	7/10/2006	26	2	20	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-93	739282	1009496.25	20	Mv	7/10/2006	29	2	12	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	P57M10-99	739337.75	1009428.25	27	Mv	7/10/2006	46	2	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57 Buffer	A14-010	737970.75	1009929.75	20	mV	9/28/2006	20	2	12	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-030	738012.25	1009858.25	95	mV	9/28/2006	95	2	4	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-043	738050	1009856.5	226	mV	9/28/2006	226	2	3	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-063	738058.25	1009833.75	115	mV	9/28/2006	115	2	12	Cultural Debris	10/5/2006		Pass	KC
SEAD-57 Buffer	A14-071	737986.75	1009834.75	202	mV	9/28/2006	202	2	8	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-072	737987	1009826.25	67	mV	9/28/2006	67	2	16	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A14-087	737935.75	1009823.75	21	mV	9/28/2006	21	2	6	Cultural Debris	10/4/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A14-112	737897.5	1009865.25	42	mV	9/28/2006	42	2	10	Cultural Debris	10/10/2006		-	
SEAD-57 Buffer	A14-122	737904.25	1009977	22	mV	9/28/2006	22	2	6	Cultural Debris	10/10/2006	Wire	Pass	KC
SEAD-57 Buffer	A14-124	737945.5	1009988.5	23	mV	9/28/2006	23	2	4	Munitions Debris	10/10/2006	Frag	Pass	KC
SEAD-57 Buffer	A14-133	738012.25	1009978.25	17	mV	9/28/2006	17	2	4	Cultural Debris	10/9/2006		-	
SEAD-57 Buffer	A16-001	737927	1010106.25	18	mV	9/28/2006	18	2	2	Cultural Debris	10/9/2006	Nail	Pass	KC
SEAD-57 Buffer	A16-009	737947.75	1010065.25	17	mV	9/28/2006	17	2	40	Munitions Debris	10/9/2006	Flare piece	Pass	KC
SEAD-57 Buffer	A16-019	737954.75	1010017	24	mV	9/28/2006	24	2	3	Cultural Debris	10/10/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	A16-024	737997.25	1010002.5	678	mV	9/28/2006	678	2	10	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A16-025	738024.25	1010005.5	43	mV	9/28/2006	43	2	5	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A16-045	738055.75	1010071.5	30	mV	9/28/2006	30	2	13	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-063	738119.25	1010189.5	29	mV	9/28/2006	29	2	3	Munitions Debris	10/5/2006	Frag	-	
SEAD-57 Buffer	A16-070	738033	1010191.25	19	mV	9/28/2006	19	2	24	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-073	738043	1010163.75	73	mV	9/28/2006	73	2	4	Munitions Debris	10/5/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-076	738030	1010148.25	18	mV	9/28/2006	18	2	30	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-080	737976.25	1010131	28	mV	9/28/2006	28	2	2	Munitions Debris	10/25/2006	Frag	-	
SEAD-57 Buffer	A16-084	737965	1010166.75	110	mV	9/28/2006	110	2	1	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-085	737948	1010160	30	mV	9/28/2006	30	2	7	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-090	737996.75	1010199.25	56	mV	9/28/2006	56	2	20	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-091	737990.5	1010206.25	23	mV	9/28/2006	23	2	15	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A16-100	737905.75	1010209.5	158	mV	9/28/2006	158	2	30	Cultural Debris	10/9/2006	Same as #101, metal rod	Pass	KC
SEAD-57 Buffer	A16-101	737903.75	1010207	228	mV	9/28/2006	228	2	6	Cultural Debris	10/9/2006	Metal rod	Pass	KC
SEAD-57 Buffer	A16-105	737892.75	1010160.25	66	mV	9/28/2006	66	2	15	Munitions Debris	10/9/2006	Frag	Pass	KC
SEAD-57 Buffer	A18-011	738028	1010278.25	110	mV	9/28/2006	110	2	6	Munitions Debris	10/5/2006	Frag	-	
SEAD-57 Buffer	C16-010	738334.5	1010175.75	31	mV	9/28/2006	31	2	15	Munitions Debris	10/4/2006	Frag	Pass	KC
SEAD-57 Buffer	C16-019	738326	1010126	27	mV	9/28/2006	27	2	14	Munitions Debris	10/4/2006	Flare piece	Pass	KC
SEAD-57 Buffer	C16-057	738144.5	1010190.75	188	mV	10/2/2006	188	2	9	Munitions Debris	10/5/2006	Rotating band	Pass	KC
SEAD-57 Buffer	C16-058	738148.25	1010207	23	mV	10/2/2006	23	2	17	Munitions Debris	10/5/2006	Frag	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description			
		Easting (X)	Northing (Y)												
SEAD-57 Buffer	C16-062	738182.5	1010219	97	mV	10/2/2006	97	2	9	Munitions Debris	10/4/2006	Frag	Pass	KC	
SEAD-57 Buffer	C18-009	738161.25	1010254	40	mV	9/26/2006	40	2	4	Munitions Debris	10/5/2006	Frag	Pass	KC	
SEAD-57 Buffer	C18-010	738166.5	1010268.5	67	mV	9/26/2006	67	2	13	Munitions Debris	10/5/2006	Frag	Pass	KC	
SEAD-57 Buffer	E16-035	738578.5	1010145.25	62	mV	10/2/2006	62	2	3	Munitions Debris	10/3/2006	Frag	Pass	KC	
SEAD-57 Buffer	E18-007	738531	1010296.75	105	mV	9/26/2006	105	2	9	Cultural Debris	10/3/2006	Nails	Pass	KC	
SEAD-57 Buffer	E18-036	738454.75	1010282.75	279	mV	9/26/2006	279	2	4	Cultural Debris	10/4/2006	Horse shoe	Pass	KC	
SEAD-57 Buffer	I18-034	739097.29	1010342.32	26	mV	9/26/2006	26	2	5	Munitions Debris	10/2/2006	Frag	Pass	KC	
SEAD-57 Buffer	I18-035	739091	1010346.5	26	mV	9/26/2006	26	2	14	Munitions Debris	10/2/2006	Frag, 2 pieces	Pass	KC	
SEAD-57 Buffer	I18-037	739062.25	1010358.25	24	mV	9/26/2006	24	2	5	Munitions Debris	10/2/2006	Frag, 2 digs, 2 pieces	Pass	KC	
SEAD-57 Buffer	I18-039	739072.75	1010382.75	26	mV	9/26/2006	26	2	8	Munitions Debris	10/2/2006	Flare piece	Pass	KC	
SEAD-57 Buffer	I18-041	739096.75	1010376.25	23	mV	9/26/2006	22	2	7	Cultural Debris	10/2/2006	Wire	Pass	KC	
SEAD-57 Buffer	I18-044	739122	1010454	20	mV	9/26/2006	20	2	6	Munitions Debris	10/2/2006	Frag	-		
SEAD-57 Buffer	K16-014	739350.5	1010192	105	mV	9/26/2006	105	2	24	Cultural Debris	9/28/2006		Pass	KC	
SEAD-57 Buffer	K16-015	739364	1010179.25	77	mV	9/26/2006	77	2	2	Cultural Debris	9/28/2006		Pass	KC	
SEAD-57 Buffer	K18-006	739185.75	1010361.5	52	mV	9/26/2006	52	2	14	Munitions Debris	10/2/2006	Rotating band piece + frag	Pass	KC	
SEAD-57 Buffer	K18-009	739232.5	1010309.5	20	mV	9/26/2006	20	2	10	Cultural Debris	10/2/2006		Pass	KC	
SEAD-57 Buffer	K18-012	739185	1010300.5	34	mV	9/26/2006	34	2	0	Cultural Debris	10/24/2006	Soda	Pass	KC	
SEAD-57 Buffer	K18-026	739305.5	1010278.5	17	mV	9/26/2006	17	2	3	Munitions Debris	10/2/2006	Frag	Pass	KC	
SEAD-57 Buffer	K18-028	739316.5	1010281.25	21	mV	9/26/2006	21	2	7	Cultural Debris	10/2/2006		Pass	KC	
SEAD-57 Buffer	K18-037	739336.5	1010291.25	463	mV	9/26/2006	463	2	6	Cultural Debris	10/2/2006		Pass	KC	
SEAD-57 Buffer	K18-039	739328.25	1010289.75	754	mV	9/26/2006	754	2	5	Cultural Debris	9/28/2006		Pass	KC	
SEAD-57 Buffer	K18-064	739245	1010351	18	mV	9/26/2006	18	2	4	Munitions Debris	10/2/2006	Flare piece	Pass	KC	
SEAD-57 Buffer	K18-066	739201.75	1010379.5	30	mV	9/26/2006	30	2	17	Munitions Debris	10/2/2006	Frag, 2 pieces	Pass	KC	
SEAD-57 Buffer	K18-067	739197.5	1010384.5	31	mV	9/26/2006	31	2	7	Munitions Debris	10/2/2006	Frag	Pass	KC	
SEAD-57 Buffer	K18-068	739184.75	1010380	38	mV	9/26/2006	38	2	6	Munitions Debris	10/2/2006	Frag	Pass	KC	
SEAD-57 Buffer	K18-070	739191.75	1010417.5	48	mV	9/26/2006	48	2	9	Munitions Debris	10/2/2006	Frag	-		
SEAD-57 Buffer	K18-073	739187.25	1010449.75	26	mV	9/26/2006	26	2	12	Munitions Debris	10/2/2006	Frag	Pass	KC	
SEAD-57 Buffer	M18-003	739402	1010434	26	mV	9/26/2006	26	2	3	Munitions Debris	10/2/2006	Frag	Pass	KC	
SEAD-57 Buffer	M18-004	739402	1010434.75	23	mV	9/26/2006	23	2	11	Munitions Debris	10/2/2006	Frag [Same as #3]	Pass	KC	
SEAD-57 Buffer	M18-005	739427.5	1010409	35	mV	9/26/2006	35	2	10	Cultural Debris	10/2/2006	Iron rod	-		
SEAD-57 Buffer	M18-013	739379.75	1010435.5	32	mV	9/26/2006	32	2	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC	
SEAD-57 Buffer	M18-014	739396.75	1010450.75	68	mV	9/26/2006	68	2	24	Munitions Debris	10/2/2006	Frag	Pass	KC	
SEAD-57 Buffer	X16-003	737866.5	1010149.25	43	mV	10/2/2006	47	2	20	Cultural Debris	10/9/2006	Wire	Pass	KC	
SEAD-57 Buffer	X18-004	737861.25	1010264.75	208	mV	10/2/2006	207	2	5	Cultural Debris	10/9/2006	Scrap metal	Pass	KC	
SEAD-57 Buffer	X18-005	737865.75	1010252.5	50	mV	10/2/2006	51	2	7	Cultural Debris	10/9/2006	Aluminum can	Pass	KC	
SEAD-57	57C14-0046	738216.75	1009915	327	Mv	6/14/2006	164	1	12	Munitions Debris	6/15/2006	Small Arms, 7.62 brass	-		
SEAD-57	57C14-0049	738214.5	1009919.25	294	Mv	6/14/2006	112	1	2	Munitions Debris	6/15/2006	Small Arms, 7.62 brass	-		
SEAD-57	57C14-0063	738169	1009858.75	183	Mv	6/14/2006	99	1	1	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0065	738209.5	1009918	159	Mv	6/14/2006	56	1	24	Hot Soil	6/15/2006	Hot rock	-		
SEAD-57	57C14-0108	738114.5	1009754	62	Mv	6/14/2006	14	1	9	Cultural Debris	10/25/2006	Small nails	-		
SEAD-57	57C14-0117	738182.75	1009804.75	54	Mv	6/14/2006	3000	1	2	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0138	738112	1009757.5	44	Mv	9/11/2006	44	1	2	Cultural Debris	9/20/2006		-		
SEAD-57	57C14-0169	738109	1009754	32	Mv	9/11/2006	32	1	6	Cultural Debris	9/20/2006		-		
SEAD-57	57E06-0013	738485.75	1008838.75	113	Mv	6/22/2006	146	1	0	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0003	738450.033	1009205.79	601	Mv	6/22/2006	124	1	1	Munitions Debris	6/26/2006	Frag	Pass	KC	
SEAD-57	57E08-0004	738489.25	1009221.75	590	Mv	6/22/2006	96	1	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0005	738493.25	1009187.75	550	Mv	6/22/2006	270	1	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0008	738492.25	1009193.75	427	Mv	6/22/2006	115	1	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0009	738489.75	1009163.75	397	Mv	6/22/2006	136	1	1	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0011	738497.5	1009233.5	364	Mv	6/22/2006	107	1	1	Munitions Debris	6/26/2006	frag	-		
SEAD-57	57E08-0012	738496.75	1009184	362	Mv	6/22/2006	212	1	0	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0013	738495.75	1009041	358	Mv	6/22/2006	124	1	2	Munitions Debris	6/26/2006	Frag	-		
SEAD-57	57E08-0016	738479.25	1009182.75	324	Mv	6/22/2006	142	1	0	Munitions Debris	6/26/2006	Frag	-		

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Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E08-0017	738482.75	1009124.5	323	Mv	6/22/2006	129	1	2	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0019	738500.25	1009211	308	Mv	6/22/2006	191	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0020	738500.25	1009232	297	Mv	6/22/2006	112	1	0	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0021	738479.75	1009239.5	295	Mv	6/22/2006	99	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0022	738453	1009183.5	294	Mv	6/22/2006	124	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0023	738500	1009158.75	283	Mv	6/22/2006	130	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0024	738458.75	1009207.5	278	Mv	6/22/2006	130	1	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0026	738492.75	1009141.75	269	Mv	6/22/2006	130	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0028	738490.5	1009135.75	267	Mv	6/22/2006	131	1	6	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0029	738485	1009184.75	265	Mv	6/22/2006	95	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0030	738488.25	1009213	265	Mv	6/22/2006	130	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0032	738465.75	1009229.25	261	Mv	6/22/2006	132	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0033	738471.5	1009062	259	Mv	6/22/2006	170	1	3	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0034	738469.25	1009240.75	257	Mv	6/22/2006	144	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0035	738495	1009114.5	256	Mv	6/22/2006	124	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0037	738498.5	1009122.5	249	Mv	6/22/2006	141	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0039	738473.5	1009121.5	242	Mv	6/22/2006	116	1	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0040	738481.25	1009163.5	241	Mv	6/22/2006	116	1	0	Munitions Debris	6/26/2006	frag	-	
SEAD-57	57E08-0041	738492.75	1009175.75	234	Mv	6/22/2006	93	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0042	738499.5	1009189.5	232	Mv	6/22/2006	100	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0043	738495	1009142.5	232	Mv	6/22/2006	116	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0044	738499	1009135.5	231	Mv	6/22/2006	122	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0045	738492.75	1009227.25	227	Mv	6/22/2006	189	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0047	738492.75	1009239.75	224	Mv	6/22/2006	107	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0048	738484	1009153.5	221	Mv	6/22/2006	129	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0050	738467	1009180	220	Mv	6/22/2006	112	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0052	738483	1009197.75	219	Mv	6/22/2006	126	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0054	738487.25	1009177	215	Mv	6/22/2006	160	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0056	738482.5	1009175.75	211	Mv	6/22/2006	68	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0057	738481.5	1009190	209	Mv	6/22/2006	122	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0060	738470	1009200	206	Mv	6/22/2006	100	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0061	738487.5	1009199.5	202	Mv	6/22/2006	106	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0062	738463.5	1009211.5	200	Mv	6/22/2006	106	1	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0063	738468.5	1009225.5	199	Mv	6/22/2006	126	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0065	738498.25	1009160	198	Mv	6/22/2006	96	1	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0066	738460	1009050.5	198	Mv	6/22/2006	132	1	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0067	738478.75	1009202.5	198	Mv	6/22/2006	102	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0069	738473.5	1009164.75	191	Mv	6/22/2006	119	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0070	738474.5	1009185.75	190	Mv	6/22/2006	110	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0071	738467.75	1009210.5	190	Mv	6/22/2006	130	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0072	738478	1009215.5	190	Mv	6/22/2006	126	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0073	738464.5	1009159.25	189	Mv	6/22/2006	107	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0075	738478.25	1009102.75	188	Mv	6/22/2006	135	1	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0078	738472.75	1009248.5	185	Mv	6/22/2006	112	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0079	738461	1009192.75	182	Mv	6/22/2006	76	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0080	738497.5	1009109.5	182	Mv	6/22/2006	81	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0083	738473.25	1009153.5	181	Mv	6/22/2006	105	1	0	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0085	738486.75	1009144.25	181	Mv	6/22/2006	111	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0086	738480.5	1009247.25	179	Mv	6/22/2006	134	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0089	738472.75	1009119	173	Mv	6/22/2006	69	1	10	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0090	738461	1009205	173	Mv	6/22/2006	208	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0091	738466.5	1009165.25	171	Mv	6/22/2006	101	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0092	738468.5	1009150.5	171	Mv	6/22/2006	125	1	0	Munitions Debris	6/26/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57E08-0095	738499.25	1009166	167	Mv	6/22/2006	67	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0096	738479.5	1009161.5	167	Mv	6/22/2006	90	1	0	Munitions Debris	6/26/2006	frag	-	
SEAD-57	57E08-0097	738472.25	1009232.5	166	Mv	6/22/2006	56	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0099	738474.25	1009202.5	162	Mv	6/22/2006	96	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0100	738464.75	1009245.25	162	Mv	6/22/2006	89	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0101	738480.25	1009220.5	161	Mv	6/22/2006	124	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0103	738486.75	1009186	158	Mv	6/22/2006	104	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0106	738476.75	1009200	157	Mv	6/22/2006	106	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0110	738474.75	1009143	152	Mv	6/22/2006	97	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0113	738458.5	1009226	151	Mv	6/22/2006	121	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0114	738451.5	1009244.25	148	Mv	6/22/2006	98	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0117	738491.25	1009157.25	145	Mv	6/22/2006	113	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0118	738491.75	1009207.75	145	Mv	6/22/2006	102	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0119	738492.5	1009149.75	144	Mv	6/22/2006	91	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0122	738465.25	1009143.5	144	Mv	6/22/2006	76	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0123	738476.5	1009231.75	143	Mv	6/22/2006	93	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0127	738456	1009242	138	Mv	6/22/2006	80	1	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0128	738487.5	1009171.25	136	Mv	6/22/2006	97	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0129	738484.75	1009226.75	136	Mv	6/22/2006	118	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0130	738484.5	1009168.75	134	Mv	6/22/2006	96	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0131	738457.75	1009161.5	133	Mv	6/22/2006	120	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0133	738490.25	1009234	131	Mv	6/22/2006	71	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0134	738500	1009174.75	130	Mv	6/22/2006	140	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0135	738456.5	1009246.5	129	Mv	6/22/2006	45	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0141	738452.25	1009226.5	123	Mv	6/22/2006	86	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0142	738485.25	1009238	123	Mv	6/22/2006	76	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0143	738454	1009180	121	Mv	6/22/2006	60	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0145	738489.75	1009170.25	118	Mv	6/22/2006	110	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0147	738488.75	1009242.5	117	Mv	6/22/2006	108	1	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0148	738498.75	1009126.25	114	Mv	6/22/2006	98	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0149	738448.99	1009240.19	113	Mv	6/22/2006	102	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0151	738465	1009221.25	112	Mv	6/22/2006	102	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0152	738455	1009213.5	111	Mv	6/22/2006	52	1	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0154	738488.5	1009151.5	109	Mv	6/22/2006	63	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0155	738459.75	1009160.75	107	Mv	6/22/2006	91	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0157	738454.25	1009224.25	102	Mv	6/22/2006	101	1	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0158	738487.5	1009224.5	98	Mv	6/22/2006	80	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0162	738467.25	1009235.5	89	Mv	6/22/2006	114	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0164	738495.75	1009244.25	86	Mv	6/22/2006	40	1	1	Munitions Debris	6/26/2006	Frag	Pass	KC
SEAD-57	57E08-0166	738479.5	1009208.5	85	Mv	6/22/2006	48	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0169	738460.25	1009148.25	78	Mv	6/22/2006	104	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0170	738456	1009201.75	78	Mv	6/22/2006	83	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0175	738460.25	1009234.5	72	Mv	6/22/2006	108	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0176	738488.5	1009139	72	Mv	6/22/2006	36	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0177	738477.25	1009165	71	Mv	6/22/2006	85	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0179	738452	1009238	69	Mv	6/22/2006	84	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0180	738492.5	1009180.25	69	Mv	6/22/2006	36	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0182	738492.75	1009212.75	59	Mv	6/22/2006	112	1	2	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0184	738497.5	1009174.25	52	Mv	6/22/2006	10	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0185	738483.5	1009240	52	Mv	6/22/2006	100	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0186	738460.75	1009170.25	52	Mv	6/22/2006	20	1	0	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0188	738456.25	1009143.25	51	Mv	6/22/2006	30	1	1	Munitions Debris	6/26/2006	Frag	-	
SEAD-57	57E08-0190	738468.5	1009203.75	50	Mv	6/22/2006	30	1	1	Munitions Debris	6/26/2006	Frag	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57E10-0055	738487.5	1009402.375	201	Mv	6/28/2006	109	1	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0077	738473.5	1009395.75	181	Mv	6/28/2006	78	1	0	Munitions Debris	6/28/2006	Alum MD	Pass	KC
SEAD-57	57E10-0108	738494.25	1009401	156	Mv	6/28/2006	65	1	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0123	738467.25	1009379.25	144	Mv	6/28/2006	107	1	0	Munitions Debris	6/28/2006	Alum MD	-	-
SEAD-57	57E10-0147	738445.75	1009451	128	Mv	6/27/2006	91	1	0	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E10-0154	738465.5	1009479.5	120	Mv	6/27/2006	70	1	0	Munitions Debris	7/6/2006	Alum MD	-	-
SEAD-57	57E10-0167	738499	1009477.25	112	Mv	6/27/2006	87	1	0	Cultural Debris	6/27/2006	Alum	-	-
SEAD-57	57E10-0199	738483.5	1009445.75	94	Mv	6/27/2006	83	1	0	Munitions Debris	6/28/2006	Frag	-	-
SEAD-57	57E12-0043	738442	1009501.5	184	Mv	7/5/2006	110	1	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0061	738479.5	1009562.5	146	Mv	7/5/2006	60	1	3	Munitions Debris	7/7/2006	Frag	Pass	KC
SEAD-57	57E12-0065	738486	1009520	142	Mv	7/5/2006	100	1	2	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0092	738476	1009575	105	Mv	7/5/2006	85	1	1	Munitions Debris	7/7/2006	Frag	-	-
SEAD-57	57E12-0159	738485.5	1009743.5	34	Mv	9/11/2006	34	1	12	Cultural Debris	9/20/2006		Pass	KC
SEAD-57	57E14-0187	738359.75	1009996	55	Mv	6/22/2006	25	1	0	Munitions Debris	7/19/2006	Alum MD	Pass	KC
SEAD-57	57E14-0196	738410.25	1009799.75	54	Mv	7/5/2006	54	1	10	Cultural Debris	7/19/2006	Steel scrap.	-	-
SEAD-57	57E16-0013	738441	1010053.25	58	Mv	6/21/2006	25	1	0	Cultural Debris	6/22/2006	Trash	-	-
SEAD-57	57G04-0007	738521	1008745.75	400	Mv	6/20/2006	360	1	6	Cultural Debris	6/20/2006	Steel scrap. Anomalies G04-0007 and G04-0021 are same item.	-	-
SEAD-57	57G04-0021	738521.25	1008748.75	217	Mv	6/20/2006	157	1	6	Cultural Debris	6/20/2006	Steel scrap. Anomalies G04-0007 and G04-0021 are same item.	-	-
SEAD-57	57G04-0051	738721.5	1008661.25	155	Mv	6/20/2006	65	1	0	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0067	738731.25	1008648.75	127	Mv	6/20/2006	85	1	2	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0080	738733.75	1008727.25	114	Mv	6/20/2006	110	1	1	Munitions Debris	6/21/2006	Frag	Pass	KC
SEAD-57	57G04-0134	738699	1008733.75	74	Mv	6/20/2006	30	1	4	Munitions Debris	6/20/2006	Alum MD	-	-
SEAD-57	57G04-0140	738739.25	1008673.75	67	Mv	6/20/2006	50	1	0	Munitions Debris	6/21/2006	Frag	Pass	KC
SEAD-57	57G04-0141	738725.5	1008697.25	66	Mv	6/20/2006	50	1	2	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G04-0146	738736	1008721	62	Mv	6/20/2006	120	1	0	Munitions Debris	6/21/2006	Frag	-	-
SEAD-57	57G14-0005	738596.5	1009963.25	112248	Mv	7/11/2006	5000	1	2	Cultural Debris	7/12/2006	Trash	-	-
SEAD-57	57G14-0008	738598.25	1009963.75	81647	Mv	7/11/2006	5000	1	2	Cultural Debris	7/12/2006	Pipe same as 0005	-	-
SEAD-57	57G14-0047	738616.5	1009955.5	1221	Mv	7/11/2006	588	1	24	Cultural Debris	7/12/2006	Trash	-	-
SEAD-57	57G14-0051	738679.25	1009750.5	1141	Mv	6/14/2006	953	1	0	Munitions Debris	6/20/2006	Frag	-	-
SEAD-57	57G14-0053	738614.25	1009953.25	1095	Mv	7/11/2006	566	1	24	Cultural Debris	7/12/2006	Trash	-	-
SEAD-57	57G14-0059	738695	1009958.75	893	Mv	6/14/2006	432	1	1	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0099	738574	1009997.5	465	Mv	6/13/2006	200	1	6	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0110	738707.25	1009953.25	422	Mv	6/13/2006	70	1	2	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0118	738604.5	1009937.5	370	Mv	7/11/2006	230	1	6	Cultural Debris	7/12/2006	Trash	-	-
SEAD-57	57G14-0130	738699.25	1009953.75	308	Mv	6/13/2006	83	1	1	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0158	738622.25	1009889.5	250	Mv	6/13/2006	93	1	4	Munitions Debris	6/19/2006	Small Arms, 5.56 blank	-	-
SEAD-57	57G14-0177	738677	1009789	214	Mv	6/13/2006	111	1	1	Munitions Debris	6/20/2006	Frag	-	-
SEAD-57	57G14-0198	738692.75	1009777	192	Mv	6/13/2006	133	1	2	Munitions Debris	6/20/2006	Frag	-	-
SEAD-57	57G14-0244	738649.5	1009936.5	140	Mv	6/21/2006	45	1	1	Cultural Debris	6/22/2006	Trash	-	-
SEAD-57	57G14-0262	738727.25	1009953.25	122	Mv	6/14/2006	10	1	0	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0263	738740.25	1009977.5	118	Mv	6/14/2006	1800	1	1	Cultural Debris	6/15/2006	Trash	Pass	KC
SEAD-57	57G14-0295	738711.333	1009956.723	95	Mv	6/13/2006	36	1	0	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0313	738618	1009971.5	90	Mv	7/11/2006	54	1	2	Cultural Debris	7/12/2006	Wire	-	-
SEAD-57	57G14-0314	738628.75	1009878.25	89	Mv	6/13/2006	43	1	1	Cultural Debris	6/20/2006	Trash	-	-
SEAD-57	57G14-0344	738719.75	1009955.5	74	Mv	6/14/2006	10	1	5	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0348	738509.25	1009899.5	72	Mv	6/13/2006	20	1	0	Cultural Debris	6/19/2006	Trash	Pass	KC
SEAD-57	57G14-0349	738685.5	1009982.5	72	Mv	7/11/2006	32	1	2	Cultural Debris	7/12/2006	Wire	-	-
SEAD-57	57G14-0354	738645	1009992.25	71	Mv	7/11/2006	21	1	6	Cultural Debris	10/26/2006	Numerous bits of rust in the area of flag	-	-
SEAD-57	57G14-0358	738649.5	1009872.75	70	Mv	6/13/2006	26	1	24	Cultural Debris	6/20/2006	Trash	-	-
SEAD-57	57G14-0402	738672	1009944.5	60	Mv	6/14/2006	1400	1	1	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0403	738696.24	1009961.998	60	Mv	6/13/2006	41	1	1	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G14-0445	738714.5	1009954.5	50	Mv	6/13/2006	12	1	0	Cultural Debris	6/19/2006	Trash	-	-
SEAD-57	57G16-0002	738602.75	1010067.25	203335	Mv	6/12/2006	3000	1	0	Cultural Debris	6/15/2006	Trash	-	-

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		DIG RESULTS					QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ³	QC Initials
SEAD-57	57G16-0023	738749	1010009.75	912	Mv	6/12/2006	383	1	1	Munitions Debris	6/14/2006	2.36 rkt wh	-	
SEAD-57	57G16-0029	738727.5	1010000.25	448	Mv	6/12/2006	380	1	1	Cultural Debris	6/14/2006	Trash	Pass	KC
SEAD-57	57G16-0040	738571.5	1010027	271	Mv	6/12/2006	106	1	1	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0062	738575.75	1010017.5	155	Mv	6/12/2006	128	1	2	Cultural Debris	6/15/2006	Trash	-	
SEAD-57	57G16-0087	738608.75	1010106.5	81	Mv	6/12/2006	30	1	1	Munitions Debris	6/15/2006	20mm	-	
SEAD-57	57G16-0102	738641.5	1010036.25	62	Mv	6/12/2006	15	1	1	Munitions Debris	6/14/2006	Frag	-	
SEAD-57	57I04-0036	738805.5	1008678.25	336	Mv	6/29/2006	340	1	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0043	738807.75	1008744.25	285	Mv	6/29/2006	170	1	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0050	738806.75	1008656.5	246	Mv	6/29/2006	289	1	1	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0072	738803	1008685.5	180	Mv	6/29/2006	150	1	1	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0085	738809.25	1008739.75	152	Mv	6/29/2006	68	1	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0105	738806.5	1008684.5	122	Mv	6/29/2006	180	1	1	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0161	738828.25	1008740.75	69	Mv	6/29/2006	68	1	2	Cultural Debris	7/7/2006	Steel scrap	Pass	KC
SEAD-57	57I04-0196	738801.5	1008672.75	51	Mv	6/29/2006	44	1	2	Munitions Debris	7/7/2006	Alum MD	-	
SEAD-57	57I04-0240	738806.25	1008705.75	33	Mv	9/11/2006	33	1	2	Munitions Debris	9/21/2006	Frag	-	
SEAD-57	57I14-0002	738766.75	1009787.5	244221	Mv	6/27/2006	3000	1	6	Cultural Debris	10/25/2006	R/R track piece	Pass	KC
SEAD-57	57I14-0005	738799.75	1009896.75	79888	Mv	6/22/2006	3000	1	1	Cultural Debris	6/27/2006	Trash	Pass	KC
SEAD-57	57I14-0017	738777	1009824.25	1826	Mv	6/22/2006	700	1	5	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0102	738809.5	1009853.25	256	Mv	6/22/2006	140	1	3	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0120	738794.5	1009904.5	222	Mv	6/22/2006	85	1	0	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0132	738757.25	1009869	209	Mv	6/28/2006	52	1	3	Cultural Debris	7/7/2006	Steel scrap	-	
SEAD-57	57I14-0170	738815	1009851	163	Mv	6/22/2006	105	1	0	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0174	738984.5	1009802.25	160	Mv	6/20/2006	110	1	2	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0185	738999.67	1009803.757	142	Mv	6/20/2006	85	1	2	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0227	738806.25	1009839	112	Mv	6/22/2006	90	1	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0230	738825	1009834.25	111	Mv	6/22/2006	45	1	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0238	738794.75	1009909.5	107	Mv	6/22/2006	30	1	8	Cultural Debris	6/27/2006	Trash	-	
SEAD-57	57I14-0254	738995	1009777.25	100	Mv	6/20/2006	90	1	5	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0269	738816	1009822	92	Mv	6/22/2006	120	1	2	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0282	738901.75	1009784.5	85	Mv	6/20/2006	85	1	0	Cultural Debris	7/19/2006	Alum	Pass	KC
SEAD-57	57I14-0314	738754.25	1009844.75	73	Mv	6/28/2006	60	1	3	Cultural Debris	7/7/2006	Alum scrap	-	
SEAD-57	57I14-0338	738756.5	1009863.5	63	Mv	6/28/2006	30	1	1	Cultural Debris	7/7/2006	Steel scrap	-	
SEAD-57	57I14-0358	738811.5	1009815.25	58	Mv	6/22/2006	27	1	0	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I14-0373	738802.75	1009840.75	54	Mv	6/22/2006	30	1	1	Munitions Debris	6/27/2006	Frag	-	
SEAD-57	57I16-0077	738750.25	1010006	72	Mv	6/7/2006	120	1	0	Munitions Debris	6/14/2006	Frag	Pass	KC
SEAD-57	57I16-0089	738798	1010108.75	62	Mv	6/12/2006	999	1	0	Cultural Debris	10/24/2006	Bolt	Pass	KC
SEAD-57	57I16-0096	738812	1010040.5	56	Mv	6/12/2006	44	1	1	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K04-0002	739072	1008638.75	345	Mv	7/10/2006	140	1	2	Cultural Debris	7/10/2006	Trash	Pass	KC
SEAD-57	57K12-0131	739008.25	1009676.5	207	Mv	6/1/2006	112	1	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0167	739013.25	1009691	161	Mv	6/1/2006	63	1	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0179	739047.75	1009708	147	Mv	8/1/2006	147	1	0	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0192	739045	1009703.5	134	Mv	8/1/2006	134	1	0	Cultural Debris	8/1/2006	Alum	-	
SEAD-57	57K12-0208	739070.75	1009649.75	124	Mv	8/1/2006	124	1	0	Cultural Debris	8/1/2006	Alum disk	-	
SEAD-57	57K12-0223	739044	1009713.75	114	Mv	8/1/2006	114	1	0	Cultural Debris	8/1/2006	Alum	Pass	KC
SEAD-57	57K12-0227	739006.5	1009672.5	111	Mv	6/1/2006	121	1	0	Cultural Debris	6/8/2006	Alum scrap	-	
SEAD-57	57K12-0260	739109.25	1009736.25	87	Mv	8/1/2006	87	1	0	Cultural Debris	8/1/2006	Steel	-	
SEAD-57	57K12-0262	739074	1009646.5	86	Mv	8/1/2006	86	1	0	Cultural Debris	8/1/2006	Steel wire	-	
SEAD-57	57K12-0275	739142.25	1009623.75	77	Mv	6/1/2006	999	1	0	Cultural Debris	6/8/2006	Alum	-	
SEAD-57	57K12-0283	739042	1009725.75	72	Mv	8/1/2006	72	1	0	Cultural Debris	8/2/2006	Alum	-	
SEAD-57	57K12-0286	739071.25	1009684.75	70	Mv	6/1/2006	63	1	4	Cultural Debris	7/5/2006	Steel wire	-	
SEAD-57	57K12-0288	739012.75	1009696.5	69	Mv	6/1/2006	113	1	0	Cultural Debris	6/8/2006	Alum 3"	-	
SEAD-57	57K14-0038	739106	1009808.25	520	Mv	6/12/2006	155	1	0	Cultural Debris	10/24/2006	Scrap metal	-	
SEAD-57	57K14-0071	739142.5	1009835.25	274	Mv	6/5/2006	133	1	1	Cultural Debris	6/12/2006	Trash	-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST- QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57K14-0118	739034	1009764	167	Mv	7/19/2006	167	1	24	Cultural Debris	10/26/2006	-		
SEAD-57	57K14-0140	739076.75	1009898.25	140	Mv	6/12/2006	33	1	0	Cultural Debris	6/13/2006	-		
SEAD-57	57K14-0144	739197	1009777.25	135	Mv	6/5/2006	149	1	0	Cultural Debris	6/7/2006	-		
SEAD-57	57K14-0160	739004.25	1009958	119	Mv	6/12/2006	59	1	12	Munitions Debris	6/13/2006	-		
SEAD-57	57K14-0174	739079.75	1009931.25	107	Mv	6/8/2006	23	1	6	Cultural Debris	6/13/2006	-		
SEAD-57	57K14-0212	739014.75	1009963.25	79	Mv	6/8/2006	50	1	18	Cultural Debris	6/13/2006	-		
SEAD-57	57K14-0225	739001.5	1009957	72	Mv	6/12/2006	50	1	12	Munitions Debris	6/13/2006	-		
SEAD-57	57K14-0237	739081	1009891.75	66	Mv	6/12/2006	31	1	0	Cultural Debris	6/13/2006	-		
SEAD-57	57K14-0258	739102.75	1009767.5	60	Mv	7/19/2006	31	1	0	Cultural Debris	10/24/2006	-		
SEAD-57	57K14-0275	739125.75	1009877.5	53	Mv	6/8/2006	69	1	4	Cultural Debris	6/12/2006	-		
SEAD-57	57K14-0389	739236	1009915	34	Mv	10/4/2006	35	1	0	Cultural Debris	10/24/2006	-		
SEAD-57	57K16-0004	739052.25	1010009	5796	Mv	6/7/2006	1800	1	1	Cultural Debris	6/13/2006	-		
SEAD-57	57K16-0005	739052.75	1010012.25	4685	Mv	6/7/2006	1900	1	0	Cultural Debris	6/13/2006	-		
SEAD-57	57K16-0019	739161	1010078.75	934	Mv	6/7/2006	400	1	0	Cultural Debris	6/13/2006	Pass	KC	
SEAD-57	57K16-0029	739087	1010051	635	Mv	6/7/2006	580	1	2	Cultural Debris	6/13/2006	Pass	KC	
SEAD-57	57K16-0054	739140	1010087.25	300	Mv	6/7/2006	55	1	1	Cultural Debris	6/13/2006	-		
SEAD-57	57K16-0095	739153.5	1010078.75	93	Mv	6/7/2006	18	1	0	Cultural Debris	6/13/2006	-		
SEAD-57	57K16-0104	739154.5	1010084.5	72	Mv	6/7/2006	18	1	0	Cultural Debris	6/13/2006	-		
SEAD-57	57M06-0003	739487.628	1008993.564	416	Mv	6/5/2006	240	1	0	Munitions Debris	10/24/2006	Pass	KC	
SEAD-57	57M06-0004	739484	1008990.25	352	Mv	6/5/2006	260	1	0	Cultural Debris	10/24/2006	Pass	KC	
SEAD-57	57M06-0011	739444.25	1008936	89	Mv	6/5/2006	41	1	0	Cultural Debris	7/5/2006	-		
SEAD-57	57M08-0007	739467	1009016.75	300	Mv	6/5/2006	130	1	0	Cultural Debris	7/5/2006	-		
SEAD-57	57M10-0048	739384.25	1009496.75	50	Mv	8/1/2006	50	1	0	Cultural Debris	10/24/2006	-		
SEAD-57	57M10-0091	739415	1009380.75	30	Mv	9/11/2006	30	1	0	Cultural Debris	10/24/2006	-		
SEAD-57	57M12-0059	739455.5	1009617	1733	Mv	6/2/2006	999	1	1	Cultural Debris	6/7/2006	-		
SEAD-57	57M12-0115	739447.25	1009625.75	654	Mv	6/2/2006	999	1	1	Cultural Debris	6/7/2006	-		
SEAD-57	57M12-0267	739424	1009616.25	112	Mv	6/2/2006	999	1	1	Cultural Debris	6/7/2006	-		
SEAD-57	57M12-0316	739426	1009622.75	80	Mv	6/2/2006	999	1	1	Cultural Debris	6/7/2006	-		
SEAD-57	57M12-0318	739400.25	1009687.25	79	Mv	6/2/2006	999	1	2	Cultural Debris	6/7/2006	-		
SEAD-57	57M12-0632	739428.5	1009562.25	17	Mv	9/11/2006	17	1	0	Cultural Debris	10/24/2006	-		
SEAD-57	57M14-0157	739384	1009867.75	70	Mv	6/6/2006	16	1	10	Cultural Debris	6/7/2006	-		
SEAD-57	57M14-0200	739466.5	1009810.5	51	Mv	6/6/2006	29	1	1	Cultural Debris	7/5/2006	-		
SEAD-57	57M16-0001	739441.75	1010056.75	71153	Mv	6/7/2006	2200	1	0	Cultural Debris	6/10/2006	-		
SEAD-57	57M16-0092	739295.25	1010128.75	59	Mv	6/6/2006	22	1	0	Cultural Debris	6/10/2006	-		
SEAD-57	57M16-0094	739293.5	1010078.75	57	Mv	6/7/2006	8	1	6	Cultural Debris	10/19/2006	-		
SEAD-57	57O12-0028	739502	1009535.75	68	Mv	6/5/2006	15	1	0	Cultural Debris	6/6/2006	-		
SEAD-57	57O12-0031	739533	1009601.5	50	Mv	6/5/2006	30	1	0	Cultural Debris	6/6/2006	-		
SEAD-57	F08-008	738546.64	1009066.39	237	nT	8/8/2006	237	1	20	Cultural Debris	8/9/2006	Pass	KC	
SEAD-57	F08-018	738531.81	1009099.19	12	nT	8/8/2006	12	1	24	Munitions Debris	8/9/2006	-		
SEAD-57	F08-021	738565.97	1009108.71	46	nT	8/8/2006	46	1	3	Cultural Debris	8/9/2006	Pass	KC	
SEAD-57	G06-010	738733.055	1008867.788	164	nT	9/6/2006	164	1	6	Cultural Debris	9/7/2006	Pass	KC	
SEAD-57	G06-015	738639.243	1008822.683	35	nT	9/6/2006	35	1	12	Hot Soil	9/8/2006	-		
SEAD-57	G08-009	738735.05	1009048.76	43	nT	8/8/2006	43	1	3	Cultural Debris	8/9/2006	Pass	KC	
SEAD-57	G08-010	738747.15	1009040.46	18	nT	8/8/2006	18	1	20	Cultural Debris	8/9/2006	Pass	KC	
SEAD-57	G08-015	738694.38	1009006.27	341	nT	8/8/2006	341	1	12	Cultural Debris	8/9/2006	-		
SEAD-57	G08-026	738630.92	1009106.74	120	nT	8/8/2006	120	1	24	Cultural Debris	8/9/2006	-		
SEAD-57	G08-028	738650.9	1009107.02	122	nT	8/8/2006	122	1	24	Cultural Debris	8/9/2006	-		
SEAD-57	G08-029	738677.21	1009122.22	25	nT	8/8/2006	25	1	8	Cultural Debris	8/9/2006	Pass	KC	
SEAD-57	G08-036	738715.07	1009117.85	76	nT	8/8/2006	76	1	24	Cultural Debris	8/9/2006	-		
SEAD-57	G09-006	738708.73	1009174	47	nT	8/8/2006	47	1	24	Cultural Debris	8/9/2006	-		
SEAD-57	G09-007	738699.59	1009171.61	849	nT	8/8/2006	849	1	24	Cultural Debris	8/9/2006	Pass	KC	
SEAD-57	G09-008	738689.03	1009177.52	316	nT	8/8/2006	316	1	14	Cultural Debris	8/9/2006	-		
SEAD-57	G09-009	738696.77	1009184.69	31	nT	8/8/2006	31	1	12	Munitions Debris	8/9/2006	-		

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SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	G09-012	738661.03	1009195.39	19	nT	8/8/2006	19	1	24	Cultural Debris	8/9/2006		Pass	KC
SEAD-57	G09-025	738742.93	1009233.38	16	nT	8/8/2006	16	1	3	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-032	738713.94	1009196.65	16	nT	8/8/2006	16	1	24	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G09-035	738733.78	1009171.32	15	nT	8/8/2006	15	1	24	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G10-026	738690.96	1009253.7	154	nT	8/8/2006	154	1	6	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	G10-041	738748.95	1009294.79	23	nT	8/8/2006	23	1	4	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-013	738633.88	1009451.58	4	nT	8/8/2006	4	1	24	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-021	738732.93	1009489.35	18	nT	8/8/2006	18	1	12	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-022	738748.95	1009489.94	73	nT	8/8/2006	73	1	36	Cultural Debris	8/10/2006	Trash	-	
SEAD-57	G11-023	738744.98	1009485.83	27	nT	8/8/2006	27	1	24	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	G13-001	738715.802	1009635.187	68	nT	10/17/2006	67	1	20	Cultural Debris	10/24/2006	Electrical firing device	Pass	KC
SEAD-57	H06-022	738798.84	1008794.27	45	nT	8/8/2006	45	1	2	Cultural Debris	8/9/2006	Trash	Pass	KC
SEAD-57	H06-023	738812.17	1008780.05	6219	nT	8/8/2006	5000	1	11	Cultural Debris	8/9/2006	Survey stake	-	
SEAD-57	H08-010	738828.02	1009088.192	352	nT	9/6/2006	352	1	12	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	H08-011	738833.852	1009086.766	8	nT	9/6/2006	8	1	3	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	H08-025	738794.452	1009117.613	45	nT	9/6/2006	45	1	2	Hot Soil	9/8/2006	Hot rock	-	
SEAD-57	H08-031	738814.022	1009094.413	38	nT	9/6/2006	38	1	8	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-044	738790.175	1009031.554	20	nT	9/6/2006	20	1	24	Cultural Debris	9/8/2006		Pass	KC
SEAD-57	H08-052	738790.276	1009044.257	15	nT	10/17/2006	16	1	2	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	H09-004	738785.072	1009227.484	20	nT	10/17/2006	20	1	4	Munitions Debris	10/23/2006	Disc	Pass	KC
SEAD-57	H09-010	738775.275	1009198.094	15	nT	10/17/2006	16	1	6	Hot Soil	10/19/2006	Rock	Pass	KC
SEAD-57	H09-021	738806.059	1009246.624	15	nT	10/17/2006	15	1	10	Munitions Debris	10/23/2006	Disc	Pass	KC
SEAD-57	H09-028	738846.124	1009170.137	7	nT	10/17/2006	8	1	36	Cultural Debris	10/25/2006	Wire	-	
SEAD-57	H09-030	738853.969	1009160.891	21	nT	10/17/2006	21	1	30	Cultural Debris	10/25/2006	Wire	-	
SEAD-57	H09-032	738845.984	1009155.428	36	nT	10/17/2006	36	1	6	Cultural Debris	10/25/2006	Wire	-	
SEAD-57	H09-033	738840.1	1009139.878	13	nT	10/17/2006	12	1	9	Cultural Debris	10/25/2006	Wire	Pass	KC
SEAD-57	H10-002	738775.122	1009372.749	17	nT	10/17/2006	18	1	2	Munitions Debris	10/23/2006	Frag	-	
SEAD-57	H10-004	738767.621	1009271.568	217	nT	10/17/2006	218	1	3	Cultural Debris	10/23/2006	Grounding rod	Pass	KC
SEAD-57	H10-012	738801.187	1009340.978	32	nT	10/17/2006	32	1	4	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	H10-032	738785.098	1009264.697	61	nT	10/17/2006	61	1	14	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-034	738804.931	1009251.105	44	nT	10/17/2006	44	1	12	Cultural Debris	10/25/2006	Metal disc	-	
SEAD-57	H10-035	738805.07	1009257.762	12	nT	10/17/2006	11	1	12	Cultural Debris	10/25/2006	Nail	Pass	KC
SEAD-57	H10-063	738863.044	1009306.998	56	nT	10/17/2006	56	1	28	Cultural Debris	10/25/2006	Scrap metal	Pass	KC
SEAD-57	H11-016	738796.836	1009417.61	10	nT	10/17/2006	10	1	12	Cultural Debris	10/25/2006	Several Nails	-	
SEAD-57	H12-006	738827.97	1009622.836	12	nT	10/17/2006	12	1	18	Cultural Debris	10/24/2006	Metal disc	Pass	KC
SEAD-57	H12-012	738791.915	1009582.416	23	nT	10/17/2006	24	1	18	Cultural Debris	10/24/2006	Metal disc	Pass	KC
SEAD-57	H12-016	738854.024	1009578.754	10	nT	10/17/2006	11	1	24	Cultural Debris	10/24/2006	Metal disc	Pass	KC
SEAD-57	H13-003	738763.889	1009631.286	20	nT	10/17/2006	20	1	36	Cultural Debris	10/24/2006	Metal disc	Pass	KC
SEAD-57	H13-010	738796	1009657.623	9	nT	10/17/2006	9	1	4	Cultural Debris	10/24/2006	Wire	Pass	KC
SEAD-57	H13-013	738833.885	1009680.579	12	nT	10/17/2006	12	1	9	Cultural Debris	10/24/2006	Como wire	Pass	KC
SEAD-57	H13-017	738829.801	1009666.636	77	nT	10/17/2006	77	1	20	Cultural Debris	10/24/2006	Wire	Pass	KC
SEAD-57	H13-018	738817.97	1009654.665	17	nT	10/17/2006	17	1	36	Munitions Debris	10/24/2006	Frag	Pass	KC
SEAD-57	H13-021	738834.166	1009648.891	21	nT	10/17/2006	22	1	20	Cultural Debris	10/24/2006	Como wire	Pass	KC
SEAD-57	H13-025	738845.856	1009632.695	37	nT	10/17/2006	37	1	30	Cultural Debris	10/24/2006	Coat hanger	Pass	KC
SEAD-57	H13-026	738852.194	1009631.85	316	nT	10/17/2006	316	1	36	Cultural Debris	10/24/2006	Same as #25 [coat hanger]	Pass	KC
SEAD-57	H13-031	738849.94	1009678.044	38	nT	10/17/2006	39	1	30	Munitions Debris	10/24/2006	Frag	Pass	KC
SEAD-57	H13-037	738818.111	1009745.787	49	nT	10/17/2006	50	1	36	Cultural Debris	10/24/2006	Wire	-	
SEAD-57	H13-043	738811.914	1009710.155	56	nT	10/17/2006	56	1	26	Munitions Debris	10/24/2006	Frag	-	
SEAD-57	I07-020	738894	1008914.52	7	nT	8/8/2006	7	1	1	Hot Soil	8/9/2006	Hotrock	Pass	KC
SEAD-57	I07-021	738889.23	1008927.89	43	nT	8/8/2006	43	1	2	Hot Soil	8/9/2006	Hotrock	-	
SEAD-57	I08-015	738978.47	1009102.161	13	nT	10/16/2006	11	1	11	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	I08-016	738975.246	1009090.962	31	nT	10/16/2006	32	1	17	Munitions Debris	10/25/2006	Frag	-	
SEAD-57	I08-023	738982.373	1009047.522	12	nT	10/16/2006	11	1	12	Cultural Debris	10/23/2006		Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	I08-030	738897.698	1009051.764	13	nT	10/16/2006	12	1	2	Munitions Debris	10/23/2006	Frag	Pass	KC
SEAD-57	I08-034	738932.484	1009034.795	15	nT	10/16/2006	15	1	3	Cultural Debris	10/23/2006	Wire	Pass	KC
SEAD-57	I11-038	738959.11	1009456.01	15	nT	8/8/2006	15	1	5	Cultural Debris	8/10/2006	Trash	Pass	KC
SEAD-57	I11-046	738943.17	1009417.06	24	nT	8/8/2006	24	1	3	Hot Soil	8/10/2006	Hot rock	-	
SEAD-57	I12-017	738878.924	1009538.993	15	nT	9/6/2006	15	1	6	Munitions Debris	9/8/2006	Frag	Pass	KC
SEAD-57	I12-023	738904.043	1009568.053	9	nT	9/6/2006	9	1	18	Cultural Debris	9/8/2006	Wire	Pass	KC
SEAD-57	I12-028	738951.302	1009605.562	44	nT	9/6/2006	44	1	24	Cultural Debris	9/8/2006	Trailer hitch ball	Pass	KC
SEAD-57	I12-029	738947.24	1009609.624	5	nT	9/6/2006	5	1	14	Cultural Debris	9/8/2006	Trailer hitch ball 2ea	Pass	KC
SEAD-57	I13-012	738983.191	1009647.552	41	nT	9/6/2006	41	1	8	Cultural Debris	9/7/2006	Part of a metal pin flag	Pass	KC
SEAD-57	I13-013	738990.213	1009643.437	532	nT	9/6/2006	532	1	30	Cultural Debris	9/7/2006	Fence post	Pass	KC
SEAD-57	I13-014	738996.131	1009642.609	71	nT	9/6/2006	71	1	12	Cultural Debris	9/7/2006	Fence post [same as #14]	Pass	KC
SEAD-57	I13-017	738944.869	1009647.308	37	nT	9/6/2006	37	1	36	Cultural Debris	9/7/2006	3 ea trailer hitch balls	Pass	KC
SEAD-57	J08-005	739042.284	1009040.472	34	nT	10/16/2006	33	1	6	Cultural Debris	10/19/2006	Iron rod	Pass	KC
SEAD-57	J09-001	739020.204	1009212.945	17	nT	10/18/2006	16	1	6	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	J09-002	739017.943	1009223.203	16	nT	10/16/2006	18	1	2	Cultural Debris	10/19/2006	Iron rod	-	
SEAD-57	J09-005	739094.27	1009154.527	24	nT	10/16/2006	22	1	1	Cultural Debris	10/19/2006	Wire	Pass	KC
SEAD-57	J10-022	739006.898	1009254.443	480	nT	9/6/2006	480	1	16	Cultural Debris	9/8/2006		-	
SEAD-57	J11-014	739043.01	1009380.404	38	nT	9/6/2006	38	1	18	Cultural Debris	9/8/2006	Wire	-	
SEAD-57	J12-013	739089.925	1009603.059	13	nT	10/16/2006	12	1	14	Cultural Debris	10/19/2006	Wire	-	
SEAD-57	K09-006	739177.884	1009243.385	88	nT	10/16/2006	88	1	2	Cultural Debris	10/19/2006	Scrap metal	Pass	KC
SEAD-57	K10-003	739164.769	1009339.691	7	nT	10/16/2006	6	1	0	MPPEH	10/17/2006	MK 25	-	
SEAD-57	P57_M06-32	739251.1	1008999.29	110	Mv	7/7/2006	400	1	1	Cultural Debris	7/10/2006	Survey stake	-	
SEAD-57	P57K06-210	739198.25	1008912.75	86	Mv	7/13/2006	145	1	2	Cultural Debris	7/18/2006	Trash	-	
SEAD-57	P57K06-235	739106	1008933	22	Mv	7/11/2006	25	1	1	Munitions Debris	7/18/2006	MK25 pieces	-	
SEAD-57	P57K08-1	739239.5	1009221.75	57	Mv	7/17/2006	57	1	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	P57K08-126	739196	1009192	53	Mv	7/10/2006	75	1	4	Cultural Debris	7/11/2006	Trash	-	
SEAD-57	P57K08-148	739201	1009226	92	Mv	7/10/2006	125	1	12	Munitions Debris	7/11/2006	Frag	-	
SEAD-57	P57K08-6	739231.75	1009208	68	Mv	7/10/2006	117	1	0	Cultural Debris	10/24/2006	Scrap metal	Pass	KC
SEAD-57	P57K08-89	739214.75	1009140	75	Mv	7/10/2006	104	1	0	Cultural Debris	10/24/2006		-	
SEAD-57	P57K10-152	739204.75	1009255	534	Mv	7/11/2006	555	1	1	Cultural Debris	7/18/2006	Trash	-	
SEAD-57	P57K10-64	739196.75	1009405.25	86	Mv	7/13/2006	99	1	8	Munitions Debris	7/18/2006	Alum MD Alum MD	-	
SEAD-57	P57M08-109	739281.25	1009248.75	34	Mv	7/6/2006	30	1	2	Munitions Debris	7/7/2006	Frag	-	
SEAD-57	P57M10-56	739304.25	1009260.25	54	Mv	7/10/2006	120	1	2	Munitions Debris	7/10/2006	Frag	-	
SEAD-57	S57_M12_1	739286.25	1009503.25	446	Mv	7/10/2006	290	1	3	Cultural Debris	7/10/2006	Trash	-	
SEAD-57	S57_M12_6	739258.75	1009526.25	2307	Mv	7/10/2006	1717	1	24	Cultural Debris	10/19/2006	Iron rod	-	
SEAD-57 Buffer	A14-009	737992.25	1009923.5	53	mV	9/28/2006	53	1	2	Cultural Debris	10/9/2006		-	
SEAD-57 Buffer	A14-013	737920.22	1009928.27	65	mV	9/28/2006	65	1	2	Cultural Debris	10/10/2006	Wire	Pass	KC
SEAD-57 Buffer	A14-017	737945	1009882.25	72	mV	9/28/2006	72	1	3	Cultural Debris	10/10/2006		Pass	KC
SEAD-57 Buffer	A14-024	737987.25	1009853.25	18	mV	9/28/2006	18	1	0	Cultural Debris	10/24/2006	Bolt	Pass	KC
SEAD-57 Buffer	A14-136	738017.18	1009962.22	147	mV	9/28/2006	147	1	4	Cultural Debris	10/9/2006		-	
SEAD-57 Buffer	A14-154	738031	1009938.25	190	mV	9/28/2006	190	1	6	Cultural Debris	10/9/2006		Pass	KC
SEAD-57 Buffer	A16-020	737970.75	1010006.75	289	mV	9/28/2006	289	1	5	Cultural Debris	10/10/2006	Tent peg, 2ea	Pass	KC
SEAD-57 Buffer	C14-006	738250.06	1009999.27	112	mV	9/28/2006	112	1	12	Cultural Debris	10/4/2006	Survey stake	Pass	KC
SEAD-57 Buffer	C16-011	738338	1010168.75	324	mV	9/28/2006	324	1	2	Munitions Debris	10/4/2006	2.36 motor, empty	Pass	KC
SEAD-57 Buffer	C16-026	738312.25	1010040	852	mV	9/28/2006	852	1	5	Cultural Debris	10/4/2006		Pass	KC
SEAD-57 Buffer	C16-060	738159.25	1010211	118	mV	10/2/2006	118	1	3	Cultural Debris	10/5/2006	Scrap metal	Pass	KC
SEAD-57 Buffer	G16-017	738661.25	1010143.5	132860	mV	9/26/2006	5000	1	2	Cultural Debris	10/3/2006	Pipe	-	
SEAD-57 Buffer	G16-026	738664.85	1010242.37	217	mV	9/26/2006	217	1	3	Munitions Debris	10/3/2006	2.36 motor, empty	Pass	KC
SEAD-57 Buffer	G18-031	738750.5	1010250.75	274	mV	9/26/2006	274	1	4	Cultural Debris	10/3/2006	Survey stake	-	
SEAD-57 Buffer	I18-008	738918.7	1010343.29	181	mV	9/26/2006	181	1	2	Cultural Debris	10/2/2006	Trailer piece	-	
SEAD-57 Buffer	I18-023	739000.22	1010251.86	82	mV	9/26/2006	82	1	6	Cultural Debris	10/2/2006	Survey stake	Pass	KC
SEAD-57 Buffer	K18-029	739322.26	1010281.01	131	mV	9/26/2006	131	1	3	Cultural Debris	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-030	739310.5	1010251.75	219	mV	9/26/2006	219	1	8	Cultural Debris	10/2/2006		Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item	Description		
		Easting (X)	Northing (Y)												
SEAD-57	57C14-0057	738170	1009772	207	Mv	6/14/2006	0	0	0	No Contact	6/15/2006		-		
SEAD-57	57C14-0067	738221	1009804.75	152	Mv	6/14/2006	80	0	1	Cultural Debris	6/15/2006	Trash	-		
SEAD-57	57C14-0094	738125.25	1009761.5	85	Mv	6/14/2006	35	0	10	Cultural Debris	10/25/2006	Surface rust	-		
SEAD-57	57C14-0134	738088	1009758.25	47	Mv	9/11/2006	47	0	0	No Contact	9/20/2006		-		
SEAD-57	57C14-0136	738170.25	1009794.75	45	Mv	9/11/2006	45	0	0	No Contact	9/21/2006		Pass	KC	
SEAD-57	57C14-0147	738106	1009769.5	39	Mv	9/11/2006	39	0	0	No Contact	9/20/2006		-		
SEAD-57	57C14-0153	738186.25	1009806.25	38	Mv	9/11/2006	38	0	0	No Contact	9/21/2006		Pass	KC	
SEAD-57	57C14-0161	738194.25	1009872	35	Mv	9/11/2006	35	0	0	No Contact	9/21/2006		-		
SEAD-57	57C14-0191	738239	1009786	26	Mv	9/11/2006	26	0	0	No Contact	9/21/2006		Pass	KC	
SEAD-57	57C14-0199	738185.75	1009878.75	25	Mv	10/4/2006	24	0	0	No Contact	10/25/2006		-		
SEAD-57	57C14-0210	738223.25	1009872.5	23	Mv	9/11/2006	23	0	0	No Contact	9/21/2006		-		
SEAD-57	57C14-0263	738239.25	1009834	14	Mv	9/11/2006	14	0	0	No Contact	9/21/2006		-		
SEAD-57	57C14-0327	738228.5	1009936.75	10	Mv	9/11/2006	10	0	0	No Contact	9/21/2006		Pass	KC	
SEAD-57	57E06-0015	738480.75	1008780.25	96	Mv	6/22/2006	69	0	0	No Contact	10/26/2006		-		
SEAD-57	57E06-0017	738487.75	1008766.5	77	Mv	6/22/2006	86	0	0	No Contact	10/26/2006		-		
SEAD-57	57E06-0018	738462.75	1008999.25	64	Mv	6/22/2006	72	0	0	No Contact	10/19/2006		-		
SEAD-57	57E06-0061	738490.5	1008934.25	11	Mv	9/11/2006	11	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E08-0199	738474.5	1009086.25	37	Mv	9/11/2006	37	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E10-0208	738462.5	1009349.25	87	Mv	6/28/2006	84	0	0	No Contact	10/23/2006		-		
SEAD-57	57E10-0235	738455.75	1009454.75	64	Mv	6/27/2006	22	0	0	No Contact	10/23/2006		-		
SEAD-57	57E10-0246	738461.25	1009432	49	Mv	9/11/2006	49	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E10-0290	738469.25	1009488.5	21	Mv	9/11/2006	21	0	0	No Contact	9/20/2006		-		
SEAD-57	57E10-0340	738459.75	1009386.25	10	Mv	9/11/2006	10	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E12-0141	738437.75	1009664.5	42	Mv	9/11/2006	42	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E12-0146	738441	1009663.5	38	Mv	9/11/2006	38	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E12-0161	738433.75	1009748.75	33	Mv	9/11/2006	33	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E12-0216	738490.25	1009701.25	21	Mv	9/11/2006	21	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E12-0224	738421.75	1009739.5	19	Mv	9/11/2006	19	0	0	No Contact	9/20/2006		-		
SEAD-57	57E12-0237	738406	1009736.5	17	Mv	10/4/2006	16	0	0	No Contact	10/25/2006		-		
SEAD-57	57E12-0291	738461.75	1009592.5	11	Mv	9/11/2006	11	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E14-0057	738351.75	1009910.25	252	Mv	6/22/2006	95	0	0	No Contact	7/19/2006	No contact	Pass	KC	
SEAD-57	57E14-0078	738344.25	1009933.5	189	Mv	6/22/2006	60	0	0	No Contact	7/19/2006	No contact	-		
SEAD-57	57E14-0093	738336.75	1009939.25	134	Mv	6/22/2006	60	0	0	No Contact	7/19/2006	No contact	Pass	KC	
SEAD-57	57E14-0194	738429.25	1009899.75	54	Mv	6/21/2006	20	0	0	Cultural Debris	6/27/2006	Same as contact 0145	-		
SEAD-57	57E14-0195	738370.25	1009795	54	Mv	7/19/2006	54	0	0	No Contact	10/25/2006		-		
SEAD-57	57E14-0264	738251.5	1009924.25	41	Mv	10/4/2006	42	0	0	No Contact	10/25/2006		-		
SEAD-57	57E14-0269	738493.25	1009802.5	40	Mv	9/11/2006	40	0	0	No Contact	9/21/2006		Pass	KC	
SEAD-57	57E14-0411	738306.25	1009768.75	25	Mv	9/11/2006	25	0	0	No Contact	9/20/2006		Pass	KC	
SEAD-57	57E14-0467	738356.25	1009829.75	22	Mv	9/11/2006	22	0	0	No Contact	9/21/2006		Pass	KC	
SEAD-57	57E14-0820	738334	1009928.75	11	Mv	9/11/2006	11	0	0	No Contact	9/21/2006		Pass	KC	
SEAD-57	57E16-0018	738489.5	1010023.75	45	Mv	9/11/2006	45	0	0	No Contact	9/25/2006		Pass	KC	
SEAD-57	57E16-0020	738465	1010006	42	Mv	9/11/2006	42	0	0	No Contact	9/25/2006		Pass	KC	
SEAD-57	57E16-0022	738481.25	1010039.75	34	Mv	9/11/2006	34	0	0	No Contact	9/25/2006		Pass	KC	
SEAD-57	57E16-0035	738471.25	1010023.5	19	Mv	10/4/2006	21	0	0	No Contact	10/25/2006		-		
SEAD-57	57G04-0042	738649.75	1008609	168	Mv	6/20/2006	75	0	0	No Contact	10/19/2006		-		
SEAD-57	57G04-0110	738711.5	1008730	90	Mv	6/20/2006	170	0	0	No Contact	10/19/2006		-		
SEAD-57	57G04-0189	738700.75	1008651	43	Mv	9/11/2006	43	0	0	No Contact	9/21/2006		-		
SEAD-57	57G04-0297	738580.25	1008717.5	15	Mv	9/11/2006	15	0	0	No Contact	9/21/2006		-		
SEAD-57	57G04-0309	738653.25	1008665.75	13	Mv	9/11/2006	13	0	0	No Contact	9/21/2006		-		
SEAD-57	57G04-0349	738666.75	1008662.75	10	Mv	9/11/2006	10	0	0	No Contact	10/19/2006		-		
SEAD-57	57G06-0091	738530	1008966.5	120	Mv	6/20/2006	120	0	0	No Contact	10/19/2006		-		
SEAD-57	57G14-0054	738629	1009991.75	1024	Mv	7/11/2006	544	0	0	No Contact	7/12/2006		-		
SEAD-57	57G14-0079	738670.5	1009942	572	Mv	6/14/2006	85	0	0	No Contact	10/25/2006		-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	57G14-0134	738623	1009942.5	294	Mv	6/21/2006	90	0	0	No Contact	6/22/2006	-		
SEAD-57	57G14-0204	738614.5	1009940.5	182	Mv	7/11/2006	76	0	0	Cultural Debris	10/25/2006	-		
SEAD-57	57G14-0208	738654.75	1009977	179	Mv	7/11/2006	80	0	0	No Contact	7/12/2006	-		
SEAD-57	57G14-0241	738603	1009981	141	Mv	7/11/2006	75	0	0	No Contact	7/12/2006	-		
SEAD-57	57G14-0350	738715.25	1009877.25	72	Mv	6/13/2006	36	0	1	Munitions Debris	6/20/2006	Pass	KC	
SEAD-57	57G14-0352	738606.5	1009979.5	71	Mv	7/11/2006	53	0	0	No Contact	7/12/2006	-		
SEAD-57	57G14-0357	738617.75	1009892.75	71	Mv	6/13/2006	71	0	0	No Contact	6/19/2006	-		
SEAD-57	57G14-0384	738718.25	1009950.75	62	Mv	7/11/2006	28	0	0	No Contact	10/26/2006	-		
SEAD-57	57G14-0416	738737.5	1009830.5	55	Mv	6/12/2006	38	0	0	No Contact	6/20/2006	Pass	KC	
SEAD-57	57G14-0495	738622.5	1009970.75	40	Mv	9/11/2006	40	0	0	No Contact	9/25/2006	-		
SEAD-57	57G14-0577	738720.75	1009947.75	30	Mv	10/4/2006	29	0	2	Cultural Debris	10/26/2006	-		
SEAD-57	57G14-0596	738541	1009857.5	28	Mv	9/11/2006	28	0	0	No Contact	9/25/2006	Pass	KC	
SEAD-57	57G14-0767	738578.75	1009968	19	Mv	9/11/2006	19	0	0	No Contact	9/25/2006	-		
SEAD-57	57G14-0839	738576.315	1009801.612	16	Mv	9/11/2006	16	0	0	No Contact	9/25/2006	Pass	KC	
SEAD-57	57G16-0115	738664.5	1010040.25	48	Mv	9/11/2006	48	0	0	No Contact	9/25/2006	-		
SEAD-57	57G16-0121	738724.75	1010147.5	45	Mv	9/11/2006	45	0	0	No Contact	9/25/2006	Pass	KC	
SEAD-57	57G16-0208	738745.75	1010062	23	Mv	9/11/2006	23	0	0	No Contact	9/25/2006	-		
SEAD-57	57G16-0221	738645	1010104.75	21	Mv	9/11/2006	21	0	0	No Contact	9/25/2006	-		
SEAD-57	57G16-0279	738670.25	1010075	17	Mv	9/11/2006	17	0	0	No Contact	9/25/2006	-		
SEAD-57	57G16-0290	738704	1010004	16	Mv	9/11/2006	16	0	0	No Contact	9/25/2006	Pass	KC	
SEAD-57	57G16-0318	738593	1010020.5	14	Mv	9/11/2006	14	0	0	No Contact	9/25/2006	-		
SEAD-57	57G16-0365	738747.5	1010038.25	11	Mv	9/11/2006	11	0	0	No Contact	9/25/2006	Pass	KC	
SEAD-57	57I04-0204	738778.649	1008650.706	45	Mv	9/11/2006	45	0	0	No Contact	9/21/2006	-		
SEAD-57	57I04-0207	738767.5	1008626.5	43	Mv	9/11/2006	43	0	0	No Contact	9/21/2006	-		
SEAD-57	57I04-0280	738888	1008738.5	23	Mv	9/11/2006	23	0	0	No Contact	9/21/2006	-		
SEAD-57	57I14-0009	738810.5	1009961.5	10122	Mv	6/28/2006	3000	0	0	Cultural Debris	7/7/2006	-		
SEAD-57	57I14-0011	738751.25	1009980.5	5042	Mv	6/6/2006	3000	0	0	No Contact	10/26/2006	-		
SEAD-57	57I14-0013	738753.5	1009954	3442	Mv	6/28/2006	1870	0	0	Cultural Debris	7/7/2006	-		
SEAD-57	57I14-0019	738811.75	1009965.5	1641	Mv	6/28/2006	700	0	0	Cultural Debris	7/7/2006	-		
SEAD-57	57I14-0023	738750.5	1009777	1514	Mv	6/27/2006	15	0	0	No Contact	10/25/2006	Pass	KC	
SEAD-57	57I14-0026	738806	1009961.25	1135	Mv	6/28/2006	400	0	0	Cultural Debris	7/7/2006	-		
SEAD-57	57I14-0036	738802.5	1009964.25	786	Mv	6/28/2006	33	0	0	Cultural Debris	7/7/2006	-		
SEAD-57	57I14-0067	738963	1009799.25	445	Mv	6/20/2006	30	0	0	No Contact	7/19/2006	Pass	KC	
SEAD-57	57I14-0071	738804	1009957.75	427	Mv	6/28/2006	3000	0	0	Cultural Debris	7/7/2006	-		
SEAD-57	57I14-0087	738964.25	1009835.75	324	Mv	6/7/2006	30	0	0	No Contact	10/26/2006	-		
SEAD-57	57I14-0195	738805.5	1009953.25	137	Mv	6/22/2006	500	0	0	Hot Soil	7/7/2006	-		
SEAD-57	57I14-0331	738768.25	1009813	66	Mv	6/22/2006	20	0	0	No Contact	6/27/2006	-		
SEAD-57	57I14-0375	738859.25	1009751.75	53	Mv	6/20/2006	30	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	57I14-0387	738954.25	1009860.75	50	Mv	6/22/2006	65	0	0	No Contact	6/28/2006	-		
SEAD-57	57I14-0456	738983.75	1009950.25	38	Mv	9/11/2006	38	0	0	No Contact	9/25/2006	-		
SEAD-57	57I14-0483	738980	1009852.25	35	Mv	10/4/2006	32	0	0	No Contact	10/26/2006	-		
SEAD-57	57I14-1060	738929.75	1009909.25	11	Mv	9/11/2006	11	0	0	No Contact	9/25/2006	-		
SEAD-57	57I16-0001	738764.58	1010101.632	464604	Mv	6/12/2006	3000	0	0	Cultural Debris	6/14/2006	-		
SEAD-57	57I16-0002	738760.373	1010099.729	450367	Mv	6/12/2006	3000	0	0	Cultural Debris	6/14/2006	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	57I16-0003	738759	1010105.5	137129	Mv	6/12/2006	3000	0	0	Cultural Debris	6/14/2006	Metal sign 4' W x 8' L; Anomalies I16-0005, I16-0001, I16-0032, I16-0003, I16-0002, I16-0007 are associated with this Anomaly.	-	
SEAD-57	57I16-0007	738760.874	1010094.721	2328	Mv	6/12/2006	300	0	0	Cultural Debris	6/14/2006	Metal sign 4' W x 8' L; Anomalies I16-0005, I16-0001, I16-0032, I16-0003, I16-0002, I16-0007 are associated with this Anomaly.	-	
SEAD-57	57I16-0032	738759.437	1010110.178	200	Mv	6/12/2006	3000	0	0	Cultural Debris	6/14/2006	Metal sign 4' W x 8' L; Anomalies I16-0005, I16-0001, I16-0032, I16-0003, I16-0002, I16-0007 are associated with this Anomaly.	-	
SEAD-57	57I16-0110	738868	1010006.5	47	Mv	9/11/2006	47	0	0	No Contact	9/25/2006		-	
SEAD-57	57I16-0310	738965	1010150	18	Mv	10/4/2006	19	0	0	No Contact	10/26/2006		-	
SEAD-57	57I16-0415	738981.5	1010005	14	Mv	9/11/2006	14	0	0	No Contact	9/25/2006		-	
SEAD-57	57K04-0026	739015	1008680.5	47	Mv	9/11/2006	47	0	0	No Contact	9/21/2006		-	
SEAD-57	57K04-0046	739005.75	1008649.25	28	Mv	9/11/2006	28	0	0	No Contact	9/21/2006		-	
SEAD-57	57K04-0059	739061.5	1008686.75	20	Mv	9/11/2006	20	0	0	No Contact	9/21/2006		-	
SEAD-57	57K04-0066	739071.75	1008692.25	17	Mv	9/11/2006	17	0	0	No Contact	9/21/2006		-	
SEAD-57	57K06-0003	739097.5	1008753	52	Mv	7/18/2006	52	0	0	No Contact	10/19/2006		-	
SEAD-57	57K12-0024	739247	1009581.75	2376	Mv	6/1/2006	1832	0	0	Cultural Debris	10/19/2006	.prior dig	-	
SEAD-57	57K12-0178	739044.5	1009748.75	149	Mv	8/1/2006	149	0	0	Cultural Debris	10/19/2006	Prior dig	-	
SEAD-57	57K12-0310	739078	1009672	57	Mv	8/1/2006	57	0	4	Cultural Debris	8/22/2006	Steel wire	-	
SEAD-57	57K14-0020	739108.25	1009930.5	1032	Mv	6/8/2006	325	0	0	Cultural Debris	6/13/2006	Trash	-	
SEAD-57	57K14-0025	739062.25	1009978.5	806	Mv	6/8/2006	360	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0063	739093.5	1009861.5	339	Mv	6/8/2006	253	0	1	Cultural Debris	6/12/2006	Survey monument	-	
SEAD-57	57K14-0080	739098.5	1009921.75	254	Mv	6/8/2006	50	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0130	739035.25	1009944.75	153	Mv	6/8/2006	88	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0137	739190	1009856.25	140	Mv	6/5/2006	57	0	0	No Contact	6/12/2006		-	
SEAD-57	57K14-0145	739052	1009764.5	134	Mv	7/19/2006	134	0	0	No Contact	10/19/2006		-	
SEAD-57	57K14-0147	739056.75	1009863.25	132	Mv	6/8/2006	150	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0178	739011.5	1009987	105	Mv	6/12/2006	57	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0179	739028.5	1009805.75	105	Mv	7/19/2006	105	0	0	No Contact	10/19/2006		-	
SEAD-57	57K14-0189	739104.75	1009894.25	94	Mv	6/8/2006	45	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0200	739103	1009764	84	Mv	7/19/2006	84	0	0	No Contact	10/26/2006		-	
SEAD-57	57K14-0229	739090	1009952.5	70	Mv	6/8/2006	80	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0238	739192.5	1009915.5	66	Mv	6/8/2006	10	0	0	No Contact	6/12/2006	No contact	Pass	KC
SEAD-57	57K14-0239	739130	1009919.75	66	Mv	6/8/2006	30	0	0	No Contact	6/13/2006		-	
SEAD-57	57K14-0242	739026.75	1009796.25	65	Mv	7/19/2006	65	0	0	No Contact	10/19/2006		-	
SEAD-57	57K14-0253	739063.5	1009777.25	61	Mv	7/19/2006	32	0	0	No Contact	10/19/2006		-	
SEAD-57	57K14-0259	739014	1009799.5	60	Mv	7/19/2006	32	0	0	No Contact	10/19/2006		-	
SEAD-57	57K14-0262	739051.75	1009799.75	58	Mv	7/19/2006	29	0	0	No Contact	10/19/2006		-	
SEAD-57	57K14-0265	739042.5	1009795.75	56	Mv	7/19/2006	30	0	0	No Contact	10/19/2006		-	
SEAD-57	57K14-0283	739007.25	1009769	52	Mv	7/19/2006	27	0	0	No Contact	10/26/2006		-	
SEAD-57	57K14-0284	739210.75	1009840.75	51	Mv	6/5/2006	0	0	0	No Contact	8/1/2006		-	
SEAD-57	57K14-0293	739179.5	1009787.25	50	Mv	7/19/2006	50	0	0	No Contact	10/26/2006		-	
SEAD-57	57K14-0477	739242.5	1009797.5	25	Mv	9/11/2006	25	0	0	No Contact	9/21/2006		Pass	KC
SEAD-57	57K14-0705	739055.5	1009821.5	14	Mv	9/11/2006	14	0	0	No Contact	9/21/2006		Pass	KC
SEAD-57	57K16-0063	739089.25	1010141	186	Mv	6/7/2006	22	0	0	No Contact	10/26/2006		-	
SEAD-57	57K16-0163	739034.25	1010091.5	37	Mv	9/11/2006	37	0	0	No Contact	9/21/2006		-	
SEAD-57	57K16-0189	739208	1010201.75	31	Mv	9/11/2006	31	0	0	No Contact	9/21/2006		Pass	KC
SEAD-57	57K16-0321	739089	1010027	18	Mv	9/11/2006	18	0	0	No Contact	9/21/2006		Pass	KC
SEAD-57	57K16-0335	739061.5	1010145.25	16	Mv	9/11/2006	16	0	0	No Contact	9/21/2006		-	
SEAD-57	57K16-0397	739122	1010217	13	Mv	9/11/2006	13	0	18	Hot Soil	9/21/2006	Hot rock	Pass	KC
SEAD-57	57K16-0435	739122.25	1010189.75	12	Mv	9/11/2006	12	0	0	No Contact	9/21/2006		-	
SEAD-57	57M06-0001	739490.5	1008986.75	857	Mv	6/5/2006	385	0	0	Cultural Debris	7/5/2006	9pc wire	-	
SEAD-57	57M06-0005	739473.5	1008966	231	Mv	6/5/2006	115	0	0	Munitions Debris	7/5/2006	M38 spotting charge pieces	Pass	KC
SEAD-57	57M06-0006	739483.5	1008999.5	181	Mv	6/5/2006	260	0	0	Cultural Debris	7/5/2006	9pc wire	-	
SEAD-57	57M06-0007	739335.75	1008935.75	170	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum washer	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	QC Code ³						QC Initials	
SEAD-57	57M06-0008	739373.75	1008959.75	142	Mv	6/5/2006	53	0	0	Cultural Debris	7/5/2006	Alum washer	-	
SEAD-57	57M06-0010	739383.75	1008930	104	Mv	6/5/2006	51	0	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M06-0013	739390.25	1008934.5	69	Mv	6/5/2006	28	0	0	Munitions Debris	7/5/2006	Frag 2"	-	
SEAD-57	57M06-0014	739377.25	1008926.75	54	Mv	6/5/2006	999	0	0	Munitions Debris	7/5/2006	Frag 1"	Pass	KC
SEAD-57	57M06-0015	739357	1008927.25	53	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum	-	
SEAD-57	57M06-0016	739388.75	1008998	46	Mv	9/11/2006	46	0	0	No Contact	9/20/2006		-	
SEAD-57	57M06-0017	739403	1008944.5	45	Mv	9/11/2006	45	0	0	No Contact	9/20/2006		Pass	KC
SEAD-57	57M06-0019	739394	1008948.75	42	Mv	9/11/2006	42	0	0	No Contact	9/20/2006		-	
SEAD-57	57M06-0027	739367.5	1008981.25	32	Mv	9/11/2006	32	0	0	No Contact	9/20/2006		-	
SEAD-57	57M06-0035	739393.75	1008943.75	30	Mv	9/11/2006	30	0	0	No Contact	9/20/2006		-	
SEAD-57	57M06-0107	739400	1008935.25	19	Mv	9/11/2006	19	0	0	No Contact	9/20/2006		-	
SEAD-57	57M06-0134	739447.954	1008951.37	16	Mv	9/11/2006	16	0	0	No Contact	9/20/2006		-	
SEAD-57	57M06-0193	739386.75	1008995.25	13	Mv	9/11/2006	13	0	0	No Contact	9/20/2006		-	
SEAD-57	57M06-0260	739354	1008954.75	10	Mv	9/11/2006	10	0	0	No Contact	9/20/2006		-	
SEAD-57	57M08-0011	739422.75	1009240.25	229	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum 1"x2"	-	
SEAD-57	57M08-0014	739414.75	1009222.75	196	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum disk	-	
SEAD-57	57M08-0017	739424	1009216.75	184	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum washer x2	Pass	KC
SEAD-57	57M08-0021	739498.5	1009037.5	167	Mv	6/5/2006	35	0	0	Cultural Debris	7/5/2006	Alum cap 1"x2"	Pass	KC
SEAD-57	57M08-0025	739412	1009023	138	Mv	6/5/2006	999	0	0	Munitions Debris	7/5/2006	Frag 1"x1"	Pass	KC
SEAD-57	57M08-0035	739434.5	1009051	81	Mv	6/5/2006	999	0	0	Munitions Debris	7/5/2006	Frag 1"x1"	Pass	KC
SEAD-57	57M08-0036	739485.5	1009234.5	75	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum 1"x4"	-	
SEAD-57	57M08-0038	739409	1009023	69	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum washer	-	
SEAD-57	57M08-0040	739486.163	1009242.646	65	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Metal d-ring	-	
SEAD-57	57M08-0041	739481.25	1009240.75	62	Mv	6/5/2006	999	0	0	Cultural Debris	7/5/2006	Alum	Pass	KC
SEAD-57	57M08-0046	739401.75	1009008.5	53	Mv	6/5/2006	999	0	0	Munitions Debris	7/5/2006	Frag 1"x2"	-	
SEAD-57	57M08-0145	739468.5	1009190.75	21	Mv	9/11/2006	21	0	0	No Contact	9/20/2006		Pass	KC
SEAD-57	57M08-0357	739444.5	1009174	11	Mv	9/11/2006	11	0	0	No Contact	9/20/2006		-	
SEAD-57	57M10-0006	739495.75	1009369.25	1064	Mv	8/1/2006	1064	0	0	Cultural Debris	8/22/2006	Wrench	Pass	KC
SEAD-57	57M10-0009	739458.75	1009479.75	413	Mv	6/2/2006	999	0	0	No Contact	10/19/2006		-	
SEAD-57	57M10-0011	739371.75	1009409	277	Mv	8/1/2006	277	0	0	Cultural Debris	8/22/2006	Wrench	Pass	KC
SEAD-57	57M10-0012	739377.5	1009376	259	Mv	8/1/2006	259	0	0	Cultural Debris	8/22/2006	Alum cap	-	
SEAD-57	57M10-0015	739440.5	1009296.75	172	Mv	8/1/2006	172	0	0	Cultural Debris	8/22/2006	Alum disc	-	
SEAD-57	57M10-0016	739434.25	1009309	171	Mv	8/1/2006	171	0	0	Cultural Debris	8/22/2006	Alum disc	Pass	KC
SEAD-57	57M10-0019	739408	1009296.25	160	Mv	8/1/2006	160	0	0	Munitions Debris	8/22/2006	Frag 1" x 3"	Pass	KC
SEAD-57	57M10-0020	739293.811	1009499.44	137	Mv	6/2/2006	999	0	0	Cultural Debris	7/5/2006	Alum 15"	-	
SEAD-57	57M10-0025	739403.25	1009361	110	Mv	8/1/2006	110	0	0	Cultural Debris	8/22/2006	Alum disc	Pass	KC
SEAD-57	57M10-0030	739383.75	1009361	99	Mv	8/1/2006	99	0	0	Cultural Debris	8/22/2006	Alum 1" x 2"	-	
SEAD-57	57M10-0031	739492.5	1009388	98	Mv	6/2/2006	999	0	0	MPPEH	7/5/2006	20mm hl w fuze	Pass	KC
SEAD-57	57M10-0036	739377	1009406.75	89	Mv	8/1/2006	89	0	0	Cultural Debris	8/22/2006	Alum strip	-	
SEAD-57	57M10-0037	739423	1009398.5	86	Mv	8/1/2006	86	0	0	Cultural Debris	8/22/2006	Wire	-	
SEAD-57	57M10-0038	739493.75	1009381.75	83	Mv	6/2/2006	999	0	0	Munitions Debris	7/5/2006	Frag 1"x6"	-	
SEAD-57	57M10-0043	739402.25	1009429.5	60	Mv	8/1/2006	60	0	0	Cultural Debris	8/22/2006	Alum strip 1" x 3"	-	
SEAD-57	57M10-0046	739363.25	1009413.5	53	Mv	8/1/2006	53	0	0	Cultural Debris	8/22/2006	Alum strip	-	
SEAD-57	57M10-0113	739422	1009305.75	26	Mv	9/11/2006	26	0	0	No Contact	9/20/2006		Pass	KC
SEAD-57	57M10-0406	739486	1009364.5	12	Mv	9/11/2006	12	0	0	No Contact	9/20/2006		Pass	KC
SEAD-57	57M12-0011	739437.75	1009570.25	68309	Mv	6/2/2006	999	0	0	Cultural Debris	6/6/2006	Scrap metal, 2' x 3' x 1"; and Scrap metal, 3" x 3".	-	
SEAD-57	57M12-0025	739440.25	1009587.25	4109	Mv	6/2/2006	999	0	0	Cultural Debris	6/6/2006	Surface metal, scrap metal, 4" x 36"	-	
SEAD-57	57M12-0061	739396.5	1009638.25	1608	Mv	6/2/2006	999	0	1	Cultural Debris	6/7/2006	Alum, surface metal	-	
SEAD-57	57M12-0143	739494	1009642.75	419	Mv	6/2/2006	999	0	0	No Contact	8/22/2006		-	
SEAD-57	57M12-0146	739393.75	1009635	383	Mv	6/2/2006	999	0	1	Cultural Debris	6/7/2006	Alum, surface metal	-	
SEAD-57	57M12-0179	739495.5	1009634	266	Mv	6/2/2006	999	0	0	No Contact	8/22/2006		-	
SEAD-57	57M12-0180	739398.59	1009642.449	266	Mv	6/2/2006	999	0	1	Cultural Debris	6/7/2006	Alum, surface metal	-	
SEAD-57	57M12-0358	739292.75	1009725.25	64	Mv	6/2/2006	999	0	0	No Contact	10/19/2006		-	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp					Item Description	Description		
		Easting (X)	Northing (Y)												
SEAD-57	57M12-0492	739493.25	1009648	28	Mv	9/11/2006	28	0	18	Hot Soil	9/20/2006	Hot rock	-		
SEAD-57	57M12-0510	739361.75	1009597.75	25	Mv	9/11/2006	25	0	0	No Contact	10/19/2006	-	-		
SEAD-57	57M12-0752	739257.75	1009550.25	14	Mv	9/11/2006	14	0	0	No Contact	9/20/2006	-	-		
SEAD-57	57M14-0016	739378	1009869.25	2721	Mv	6/6/2006	869	0	0	Cultural Debris	6/7/2006	Steel pole anchor	-		
SEAD-57	57M14-0060	739279.75	1009845.75	336	Mv	6/5/2006	190	0	0	No Contact	6/20/2006	-	-		
SEAD-57	57M14-0192	739355.75	1009827.5	53	Mv	6/6/2006	5	0	0	No Contact	7/5/2006	No contact	-		
SEAD-57	57M14-0213	739332.25	1009904.75	47	Mv	9/11/2006	47	0	0	No Contact	9/21/2006	-	-		
SEAD-57	57M14-0226	739419.5	1009845.75	44	Mv	9/11/2006	44	0	18	Hot Soil	9/21/2006	Hot rock	Pass	KC	
SEAD-57	57M14-0478	739481.75	1009762.5	17	Mv	9/11/2006	17	0	10	Hot Soil	9/21/2006	Hot rock	-		
SEAD-57	57M16-0002	739424	1010134.5	4442	Mv	6/7/2006	600	0	0	Cultural Debris	6/10/2006	m16-003 and m16-002 are same item	-		
SEAD-57	57M16-0003	739420.25	1010133.75	2778	Mv	6/6/2006	1830	0	0	Cultural Debris	6/10/2006	m16-003 and m16-002 are same item	Pass	KC	
SEAD-57	57M16-0102	739318.25	1010112.5	52	Mv	6/6/2006	37	0	0	Cultural Debris	6/10/2006	Pole	-		
SEAD-57	57M16-0109	739370.5	1010132.75	49	Mv	9/11/2006	49	0	0	No Contact	9/21/2006	-	Pass	KC	
SEAD-57	57M16-0131	739333.75	1010012.75	40	Mv	9/11/2006	40	0	0	No Contact	9/21/2006	-	Pass	KC	
SEAD-57	57M16-0141	739268	1010102	37	Mv	9/11/2006	37	0	0	No Contact	9/21/2006	-	Pass	KC	
SEAD-57	57M16-0185	739257.75	1010113	26	Mv	9/11/2006	26	0	0	No Contact	9/21/2006	-	Pass	KC	
SEAD-57	57M16-0214	739315.25	1010163	21	Mv	9/11/2006	21	0	0	No Contact	9/21/2006	-	Pass	KC	
SEAD-57	57M16-0367	739412.75	1010110	10	Mv	9/11/2006	10	0	0	No Contact	9/25/2006	-	-		
SEAD-57	57O10-0003	739540.25	1009401.75	193	Mv	6/5/2006	125	0	0	Cultural Debris	7/5/2006	Alum	-		
SEAD-57	57O10-0004	739500.25	1009392.5	167	Mv	6/5/2006	101	0	0	No Contact	10/19/2006	-	-		
SEAD-57	57O10-0005	739561	1009382	166	Mv	6/5/2006	128	0	0	No Contact	10/19/2006	-	-		
SEAD-57	57O10-0007	739572.25	1009452.75	147	Mv	6/5/2006	80	0	0	Cultural Debris	7/5/2006	Sead item #2corpshaw	-		
SEAD-57	57O10-0008	739572.25	1009449.75	147	Mv	6/5/2006	55	0	0	Cultural Debris	7/5/2006	Sead item #2corpshaw	-		
SEAD-57	57O10-0010	739567.5	1009481.75	110	Mv	6/5/2006	79	0	0	MPPEH	7/5/2006	20mm w fuze	-		
SEAD-57	57O10-0014	739536.25	1009419	52	Mv	6/5/2006	18	0	0	Cultural Debris	7/5/2006	2pc alum	-		
SEAD-57	57O10-0015	739525.051	1009322.317	52	Mv	6/5/2006	50	0	0	Munitions Debris	7/5/2006	Frag 1"xl"	-		
SEAD-57	57O10-0016	739566.75	1009494.75	50	Mv	6/5/2006	17	0	0	Cultural Debris	7/5/2006	Alum 2"x2"	-		
SEAD-57	57O10-0026	739530.75	1009471.75	38	Mv	9/11/2006	38	0	0	No Contact	9/20/2006	-	Pass	KC	
SEAD-57	57O10-0064	739535	1009333	19	Mv	9/11/2006	19	0	0	No Contact	9/20/2006	-	Pass	KC	
SEAD-57	57O12-0013	739507.5	1009684.5	355	Mv	6/5/2006	146	0	0	No Contact	10/19/2006	-	-		
SEAD-57	57O12-0035	739522.75	1009602.25	37	Mv	9/11/2006	37	0	0	Cultural Debris	9/20/2006	Contact under road, put in by sevenson	Pass	KC	
SEAD-57	57O12-0045	739550	1009543.25	26	Mv	9/11/2006	26	0	24	Hot Soil	9/20/2006	Hot rock	Pass	KC	
SEAD-57	57O12-0053	739505.5	1009710.5	23	Mv	9/11/2006	23	0	0	No Contact	9/20/2006	-	Pass	KC	
SEAD-57	57O12-0074	739566.75	1009529.75	17	Mv	9/11/2006	17	0	0	No Contact	9/20/2006	-	-		
SEAD-57	F06-003	738617.496	1008772.444	8	nT	10/17/2006	8	0	0	No Contact	10/19/2006	-	-		
SEAD-57	F08-005	738590.05	1009060.13	6	nT	8/8/2006	6	0	0	No Contact	8/9/2006	-	Pass	KC	
SEAD-57	F08-009	738526.23	1009051.96	112	nT	8/8/2006	112	0	0	No Contact	8/9/2006	-	Pass	KC	
SEAD-57	F08-011	738499.96	1009002.7	13	nT	8/8/2006	13	0	20	Cultural Debris	8/9/2006	Grid corner [steel rod]	-		
SEAD-57	F08-012	738508.13	1009019.3	9	nT	8/8/2006	9	0	0	No Contact	8/9/2006	-	Pass	KC	
SEAD-57	F08-013	738516.02	1009034.54	28	nT	8/8/2006	28	0	0	No Contact	8/9/2006	-	Pass	KC	
SEAD-57	F08-022	738582.03	1009111.84	7	nT	8/8/2006	7	0	0	No Contact	8/9/2006	-	-		
SEAD-57	F08-023	738603.8	1009112.66	8	nT	8/8/2006	8	0	0	No Contact	8/9/2006	-	Pass	KC	
SEAD-57	F08-024	738610.33	1009113.34	6	nT	8/8/2006	6	0	0	No Contact	8/9/2006	-	-		
SEAD-57	F09-001	738528.13	1009243.44	21	nT	8/8/2006	21	0	0	Hot Soil	8/9/2006	Large Hot Rock	Pass	KC	
SEAD-57	F09-002	738508.94	1009235.96	3	nT	8/8/2006	3	0	0	No Contact	8/9/2006	-	Pass	KC	
SEAD-57	F09-003	738522.01	1009219.9	9	nT	8/8/2006	9	0	0	No Contact	8/9/2006	-	Pass	KC	
SEAD-57	F09-004	738500.37	1009179.48	13	nT	8/8/2006	13	0	0	No Contact	8/9/2006	-	-		
SEAD-57	F09-006	738528	1009179.62	13	nT	8/8/2006	13	0	0	Hot Soil	8/9/2006	Large Hot Rock	Pass	KC	
SEAD-57	F09-007	738531.26	1009162.74	9	nT	8/8/2006	9	0	24	Hot Soil	8/9/2006	Hot Hock	Pass	KC	
SEAD-57	F09-010	738509.35	1009147.09	7	nT	8/8/2006	7	0	0	No Contact	8/9/2006	-	-		
SEAD-57	F09-013	738570.05	1009154.85	9	nT	8/8/2006	9	0	0	No Contact	8/9/2006	-	-		
SEAD-57	F09-019	738579.03	1009195.4	3	nT	8/8/2006	3	0	0	No Contact	8/9/2006	-	-		
SEAD-57	F09-020	738572.09	1009199.08	14	nT	8/8/2006	14	0	0	No Contact	8/9/2006	..	Pass	KC	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG	QC
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp	Item					Description	QC Code ³	QC Initials	
SEAD-57	F09-021	738533.17	1009235.96	4	nT	8/8/2006	4	0	0	No Contact	8/9/2006		-		
SEAD-57	F10-001	738619.954	1009250.459	10	nT	10/17/2006	11	0	0	No Contact	10/25/2006		-		
SEAD-57	F11-002	738582.617	1009411.274	5	nT	10/17/2006	5	0	0	No Contact	10/25/2006		-		
SEAD-57	F11-005	738570.032	1009457.002	10	nT	10/17/2006	10	0	8	Cultural Debris	10/25/2006	Old pin flag [steel]	-		
SEAD-57	F12-001	738569.028	1009514.538	54	nT	10/17/2006	54	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-002	738547.237	1009507.331	20	nT	10/17/2006	21	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-003	738547.065	1009500.124	16	nT	10/17/2006	16	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-006	738501.766	1009512.307	3	nT	10/17/2006	3	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-008	738507	1009536.672	13	nT	10/17/2006	12	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-009	738510.946	1009543.707	6	nT	10/17/2006	6	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-011	738523.043	1009539.932	23	nT	10/17/2006	22	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-013	738499.25	1009577.436	9	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-014	738499.151	1009587.572	8	nT	10/17/2006	8	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-016	738501.021	1009604.4	12	nT	10/17/2006	12	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-017	738507.024	1009624.082	8	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-018	738531.233	1009620.835	10	nT	10/17/2006	11	0	0	No Contact	10/19/2006		-		
SEAD-57	F12-019	738547.077	1009623.688	115	nT	10/17/2006	114	0	0	No Contact	10/19/2006		-		
SEAD-57	F12-020	738547.175	1009614.733	14	nT	10/17/2006	14	0	0	No Contact	10/19/2006		-		
SEAD-57	F12-021	738534.972	1009591.804	7	nT	10/17/2006	8	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-022	738536.842	1009586.982	19	nT	10/17/2006	19	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-023	738546.88	1009585.998	9	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-024	738557.094	1009591.334	12	nT	10/17/2006	11	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-025	738565.282	1009576.747	19	nT	10/17/2006	18	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-027	738547.175	1009576.354	9	nT	10/17/2006	10	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-029	738547.077	1009551.063	18	nT	10/17/2006	18	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-030	738563.216	1009551.653	6	nT	10/17/2006	6	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-035	738617.045	1009593.477	6	nT	10/17/2006	7	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-036	738601.202	1009562.38	10	nT	10/17/2006	11	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F12-039	738581.028	1009510.518	9	nT	10/17/2006	8	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-001	738598.938	1009732.824	9	nT	10/17/2006	10	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-002	738571.088	1009727.018	9	nT	10/17/2006	9	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-003	738523.163	1009728.691	27	nT	10/17/2006	28	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-004	738514.995	1009726.821	10	nT	10/17/2006	10	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-006	738499.25	1009724.754	8	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-007	738514.995	1009709.993	15	nT	10/17/2006	14	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-009	738531.036	1009701.333	57	nT	10/17/2006	57	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-010	738539.204	1009697.79	15	nT	10/17/2006	15	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-012	738531.036	1009669.547	16	nT	10/17/2006	16	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-013	738514.897	1009656.655	5	nT	10/17/2006	5	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-014	738499.151	1009652.621	9	nT	10/17/2006	11	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-015	738512.929	1009631.66	9	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-016	738531.036	1009646.421	11	nT	10/17/2006	11	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-017	738538.909	1009643.862	48	nT	10/17/2006	48	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-018	738539.007	1009626.05	32	nT	10/17/2006	33	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-020	738575.123	1009631.66	8	nT	10/17/2006	8	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-022	738575.123	1009642.681	11	nT	10/17/2006	11	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-023	738565.085	1009642.485	6	nT	10/17/2006	7	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-024	738569.022	1009666.398	16	nT	10/17/2006	16	0	0	No Contact	10/19/2006		-		
SEAD-57	F13-026	738612.814	1009662.166	22	nT	10/17/2006	23	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-029	738611.141	1009699.463	9	nT	10/17/2006	10	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	F13-032	738619.112	1009747.093	6	nT	10/17/2006	6	0	0	No Contact	10/19/2006		Pass	KC	
SEAD-57	G06-003	738702.897	1008825.085	10	nT	9/6/2006	10	0	0	No Contact	9/7/2006		-		
SEAD-57	G06-011	738698.893	1008869.389	12	nT	9/6/2006	12	0	0	Hot Soil	9/7/2006	Hot rock	-		

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Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	G06-012	738656.992	1008829.356	21	nT	9/6/2006	21	0	0	No Contact	9/8/2006	-		
SEAD-57	G06-013	738654.857	1008838.83	6	nT	9/6/2006	6	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	G06-014	738630.836	1008852.975	33	nT	9/6/2006	33	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	G06-016	738646.881	1008813.743	7	nT	9/6/2006	7	0	0	No Contact	9/8/2006	-		
SEAD-57	G06-017	738663.13	1008811.341	27	nT	9/6/2006	27	0	0	No Contact	9/8/2006	-		
SEAD-57	G06-018	738665.059	1008799.421	23	nT	9/6/2006	22	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	G06-019	738658.329	1008792.406	7	nT	9/6/2006	7	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	G06-020	738634.916	1008795.155	15	nT	9/6/2006	15	0	0	No Contact	9/8/2006	-		
SEAD-57	G06-021	738638.992	1008789.373	49	nT	9/6/2006	49	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	G06-022	738636.053	1008760.841	19	nT	9/6/2006	19	0	0	No Contact	9/7/2006	-		
SEAD-57	G06-023	738645.059	1008772.69	15	nT	9/6/2006	15	0	0	No Contact	9/8/2006	-		
SEAD-57	G06-024	738659.277	1008770.509	11	nT	9/6/2006	11	0	0	No Contact	9/7/2006	-		
SEAD-57	G07-007	738680.878	1008959.598	9	nT	9/6/2006	9	0	0	No Contact	9/7/2006	-		
SEAD-57	G07-017	738664.998	1008907.154	19	nT	9/6/2006	19	0	0	No Contact	9/7/2006	Pass	KC	
SEAD-57	G07-018	738665.132	1008913.159	9	nT	9/6/2006	9	0	0	No Contact	9/7/2006	Pass	KC	
SEAD-57	G07-019	738660.995	1008915.695	16	nT	9/6/2006	16	0	0	No Contact	9/7/2006	Pass	KC	
SEAD-57	G07-022	738677.008	1008927.304	27	nT	9/6/2006	27	0	0	No Contact	9/7/2006	Pass	KC	
SEAD-57	G07-025	738664.865	1008976.012	7	nT	9/6/2006	7	0	0	No Contact	9/7/2006	Pass	KC	
SEAD-57	G07-026	738691.02	1008997.363	12	nT	9/6/2006	14	0	0	No Contact	9/7/2006	-		
SEAD-57	G08-001	738705.22	1009057.21	27	nT	8/8/2006	27	0	0	No Contact	8/9/2006	-		
SEAD-57	G08-004	738683.41	1009033.71	4	nT	8/8/2006	4	0	0	No Contact	8/9/2006	-		
SEAD-57	G08-011	738727.03	1009032.86	18	nT	8/8/2006	18	0	0	No Contact	8/9/2006	-		
SEAD-57	G08-012	738735.05	1009022.31	7	nT	8/8/2006	7	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G08-016	738687.06	1009006.83	583	nT	8/8/2006	583	0	0	Cultural Debris	8/9/2006	-	Trash, Same as #15	
SEAD-57	G08-017	738642.88	1009011.76	8	nT	8/8/2006	8	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G08-021	738639.08	1009061.57	6	nT	8/8/2006	6	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G08-022	738635	1009074.8	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006	-		
SEAD-57	G08-033	738687.77	1009076.91	4	nT	8/8/2006	4	0	0	No Contact	8/9/2006	-		
SEAD-57	G08-034	738688.89	1009091.12	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006	-		
SEAD-57	G08-044	738739.13	1009072.68	30	nT	8/8/2006	30	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G09-020	738626.98	1009224.51	16	nT	8/8/2006	16	0	0	No Contact	8/9/2006	-		
SEAD-57	G10-002	738693.09	1009306.66	13	nT	8/8/2006	13	0	0	No Contact	8/10/2006	Pass	KC	
SEAD-57	G10-006	738701.01	1009359.02	27	nT	8/8/2006	27	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G10-015	738630.85	1009295.1	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G10-022	738671.33	1009257.35	8	nT	8/8/2006	8	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G10-023	738677.26	1009256.74	7	nT	8/8/2006	7	0	0	No Contact	8/9/2006	-		
SEAD-57	G10-024	738679.24	1009264.35	17	nT	8/8/2006	17	0	0	No Contact	8/10/2006	Pass	KC	
SEAD-57	G10-027	738701.01	1009251.87	21	nT	8/8/2006	21	0	0	No Contact	8/9/2006	-		
SEAD-57	G10-029	738719.88	1009261.31	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006	-		
SEAD-57	G10-030	738725.21	1009261.16	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	G10-031	738725.51	1009269.53	6	nT	8/8/2006	6	0	0	No Contact	8/10/2006	-		
SEAD-57	G10-033	738750.77	1009252.63	93	nT	8/8/2006	93	0	24	Cultural Debris	8/9/2006	-	Re-bar for grid corner	
SEAD-57	G10-043	738739.06	1009319.45	21	nT	8/8/2006	21	0	0	No Contact	8/10/2006	-		
SEAD-57	G10-054	738725.21	1009311.68	30	nT	8/8/2006	30	0	0	No Contact	8/10/2006	-		
SEAD-57	G10-056	738725.05	1009297.07	11	nT	8/8/2006	11	0	0	No Contact	8/10/2006	Pass	KC	
SEAD-57	G11-005	738711.91	1009414.55	1	nT	8/8/2006	1	0	0	No Contact	8/10/2006	Pass	KC	
SEAD-57	G11-008	738685.17	1009402.35	14	nT	8/8/2006	14	0	0	No Contact	8/10/2006	-		
SEAD-57	G11-009	738677.52	1009446.59	15	nT	8/8/2006	15	0	0	No Contact	8/10/2006	Pass	KC	
SEAD-57	G11-010	738653.57	1009439.39	5	nT	8/8/2006	5	0	0	No Contact	8/10/2006	-		
SEAD-57	G11-011	738649.45	1009451.29	4	nT	8/8/2006	4	0	0	No Contact	8/10/2006	Pass	KC	
SEAD-57	G11-012	738640.64	1009440.56	5	nT	8/8/2006	5	0	0	No Contact	8/10/2006	Pass	KC	
SEAD-57	G11-014	738636.96	1009459.96	10	nT	8/8/2006	10	0	0	No Contact	8/10/2006	-		
SEAD-57	G11-016	738665.33	1009474.36	8	nT	8/8/2006	8	0	0	No Contact	8/10/2006	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	G11-017	738679.14	1009485.39	10	nT	8/8/2006	10	0	0	No Contact	8/10/2006		-	
SEAD-57	G11-019	738711.62	1009469.81	31808	nT	8/8/2006	5000	0	24	Cultural Debris	8/10/2006	Test Well	-	
SEAD-57	G11-031	738721.02	1009440.56	19	nT	8/8/2006	19	0	9	Hot Soil	8/10/2006	Hot Rock	-	
SEAD-57	H06-008	738750.71	1008756.21	106	nT	8/8/2006	106	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H06-009	738768.18	1008780.79	20	nT	8/8/2006	20	0	0	No Contact	8/9/2006		-	
SEAD-57	H06-024	738834.38	1008783.75	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006		-	
SEAD-57	H06-028	738874.21	1008791.01	8	nT	8/8/2006	8	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H06-030	738839.71	1008802.71	47	nT	8/8/2006	47	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H06-032	738820.01	1008805.23	22	nT	8/8/2006	22	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H07-004	738800.02	1008930.95	4	nT	8/8/2006	4	0	0	No Contact	8/9/2006		-	
SEAD-57	H07-005	738803.28	1008948.87	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006		-	
SEAD-57	H07-010	738772.33	1008988.7	19	nT	8/8/2006	19	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H07-018	738874.06	1008963.23	40	nT	8/8/2006	40	0	0	No Contact	8/9/2006		-	
SEAD-57	H07-019	738858.66	1008933.02	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006		-	
SEAD-57	H07-025	738795.58	1008886.82	8	nT	8/8/2006	8	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H07-030	738776.03	1008909.18	31	nT	8/8/2006	30	0	0	No Contact	8/9/2006		-	
SEAD-57	H07-032	738768.18	1008897.33	16	nT	8/8/2006	16	0	0	No Contact	8/9/2006		-	
SEAD-57	H07-034	738752.78	1008899.41	2	nT	8/8/2006	2	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H07-036	738750.12	1008931.24	9	nT	8/8/2006	9	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	H08-005	738807.931	1009081.971	65	nT	9/6/2006	65	0	0	No Contact	10/25/2006		-	
SEAD-57	H08-012	738838	1009079.638	22	nT	9/6/2006	22	0	0	No Contact	9/8/2006		-	
SEAD-57	H08-015	738871.956	1009105.041	9	nT	9/6/2006	9	0	0	No Contact	9/8/2006		Pass	KC
SEAD-57	H08-017	738847.59	1009094.802	10	nT	9/6/2006	10	0	0	No Contact	9/8/2006		Pass	KC
SEAD-57	H08-020	738830.353	1009098.431	21	nT	9/6/2006	21	0	0	No Contact	9/8/2006		Pass	KC
SEAD-57	H08-048	738827.472	1009004.917	17	nT	10/17/2006	18	0	0	No Contact	10/19/2006		-	
SEAD-57	H08-049	738792.419	1009012.265	19	nT	10/17/2006	20	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-050	738789.97	1009026.041	16	nT	10/17/2006	17	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-051	738780.02	1009035.072	13	nT	10/17/2006	13	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-053	738777.571	1009045.328	9	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-054	738772.52	1009048.543	18	nT	10/17/2006	17	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-055	738774.969	1009058.492	10	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-056	738767.928	1009077.779	14	nT	10/17/2006	15	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-057	738750.171	1009083.443	14	nT	10/17/2006	15	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-058	738765.019	1009112.067	11	nT	10/17/2006	11	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-060	738789.97	1009108.7	8	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-061	738790.276	1009090.025	74	nT	10/17/2006	75	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-062	738784.919	1009083.749	9	nT	10/17/2006	9	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-064	738834.973	1009075.636	31	nT	10/17/2006	30	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-065	738840.024	1009091.403	13	nT	10/17/2006	14	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-066	738847.678	1009095.076	24	nT	10/17/2006	24	0	0	No Contact	10/19/2006		-	
SEAD-57	H08-067	738852.576	1009110.69	12	nT	10/17/2006	12	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-073	738832.524	1009044.563	14	nT	10/17/2006	14	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	H08-poly02a	738876.086	1009237.806	1	nT	10/16/2006	1	0	0	Munitions Debris	8/4/2006	RPG motor training aid found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02b	738854.671	1009236.092	1	nT	10/16/2006	1	0	0	Munitions Debris	10/16/2006	Frag found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02c	738844.392	1009206.112	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	Pieces of wire found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02d	738853.3	1009166.88	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	nails found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02e	738875.572	1009149.405	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	scrap metal found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02f	738875.572	1009149.405	1	nT	10/16/2006	1	0	0	Munitions Debris	10/16/2006	Flare parts found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02g	738875.572	1009149.405	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	Iron rods found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02h	738875.572	1009149.405	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	Alum scrap found inside polygon H08-02	Pass	KC
SEAD-57	H08-poly02i	738875.572	1009149.405	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	Brass scrap found inside polygon H08-02	Pass	KC
SEAD-57	H09-007	738780.02	1009156.458	20	nT	10/17/2006	21	0	6	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	H09-009	738775.122	1009179.878	8	nT	10/17/2006	8	0	15	Munitions Debris	10/19/2006	M123	Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H09-014	738805.919	1009133.994	8	nT	10/17/2006	8	0	32	Cultural Debris	10/19/2006		Pass	KC
SEAD-57	H09-017	738803.818	1009225.471	13	nT	10/17/2006	14	0	0	No Contact	10/23/2006		Pass	KC
SEAD-57	H09-018	738808.021	1009230.934	21	nT	10/17/2006	21	0	0	No Contact	10/23/2006		Pass	KC
SEAD-57	H09-026	738836.458	1009187.087	19	nT	10/17/2006	19	0	0	No Contact	10/23/2006		Pass	KC
SEAD-57	H09-poly01a	738780.148	1009359.613	1	nT	10/16/2006	1	0	0	Cultural Debris	10/17/2006	Guide wire anchor found inside polygon H08-02. could not be removed	Pass	KC
SEAD-57	H10-006	738757.366	1009261.313	20	nT	10/17/2006	21	0	0	No Contact	10/23/2006		Pass	KC
SEAD-57	H10-007	738767.621	1009296.366	15	nT	10/17/2006	15	0	0	No Contact	10/23/2006		Pass	KC
SEAD-57	H10-013	738796.887	1009327.941	9	nT	10/17/2006	9	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-017	738819.078	1009335.153	24	nT	10/17/2006	24	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-019	738826.984	1009318.371	10	nT	10/17/2006	11	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-021	738827.122	1009300.064	23	nT	10/17/2006	22	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-030	738793.004	1009280.23	14	nT	10/17/2006	14	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-031	738797.026	1009268.857	18	nT	10/17/2006	17	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-033	738788.981	1009252.491	7	nT	10/17/2006	8	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-037	738814.917	1009277.04	12	nT	10/17/2006	13	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-041	738829.203	1009266.361	29	nT	10/17/2006	28	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-043	738841.13	1009267.332	16	nT	10/17/2006	16	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-046	738864.986	1009268.58	22	nT	10/17/2006	23	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-047	738858.883	1009277.04	7	nT	10/17/2006	8	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-050	738850.978	1009283.143	27	nT	10/17/2006	28	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-051	738845.153	1009282.311	15	nT	10/17/2006	14	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-054	738840.853	1009304.363	37	nT	10/17/2006	37	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-055	738835.028	1009308.663	15	nT	10/17/2006	15	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-057	738841.269	1009312.962	16	nT	10/17/2006	16	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-059	738841.269	1009321.145	27	nT	10/17/2006	27	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-064	738868.869	1009303.253	10	nT	10/17/2006	10	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-066	738865.124	1009318.787	17	nT	10/17/2006	18	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-069	738867.066	1009349.3	33	nT	10/17/2006	33	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-075	738819.078	1009363.585	39	nT	10/17/2006	39	0	0	No Contact	10/25/2006		-	
SEAD-57	H10-077	738818.939	1009371.075	9	nT	10/17/2006	9	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H10-081	738784.959	1009365.388	24	nT	10/17/2006	24	0	0	No Contact	10/25/2006		-	
SEAD-57	H11-003	738867.015	1009385.092	31	nT	10/17/2006	31	0	0	No Contact	10/25/2006		Pass	KC
SEAD-57	H11-004	738871.184	1009379.95	33	nT	10/17/2006	33	0	40	Cultural Debris	10/25/2006	Piece of pipe on surface	Pass	KC
SEAD-57	H11-009	738822.962	1009382.591	11	nT	10/17/2006	11	0	0	No Contact	10/25/2006		-	
SEAD-57	H11-poly01a	738749.746	1009621.763	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	Metal disc's found inside polygon H011-01	-	
SEAD-57	H11-poly01b	738748.867	1009430.161	1	nT	10/16/2006	1	0	0	Cultural Debris	10/16/2006	Brass scrap found inside polygon H11-01	-	
SEAD-57	H11-poly01c	738756.338	1009373.471	1	nT	10/16/2006	1	0	0	Munitions Debris	10/16/2006	Frag found inside polygon H11-01	-	
SEAD-57	H11-poly01d	738786.221	1009374.789	1	nT	10/16/2006	1	0	0	Hot Soil	10/16/2006	Hot rock found inside polygon H11-01	-	
SEAD-57	H11-poly01e	738784.902	1009487.729	1	nT	10/16/2006	1	0	0	Cultural Debris	10/18/2006	3 link's of chain found inside polygon H11-01	-	
SEAD-57	H11-poly01f	738793.252	1009499.155	1	nT	10/16/2006	1	0	0	Cultural Debris	10/18/2006	Iron rod found inside polygon H11-01	-	
SEAD-57	H11-poly02a	738802.92	1009616.49	1	nT	10/16/2006	1	0	0	Munitions Debris	10/18/2006	43 metal disc's found inside polygon H11-02	-	
SEAD-57	H12-001	738850.222	1009600.725	9	nT	10/17/2006	9	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H12-003	738835.997	1009613.4	24	nT	10/17/2006	24	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H12-004	738832.195	1009607.626	59	nT	10/17/2006	59	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H12-007	738795.859	1009620.16	14	nT	10/17/2006	14	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H12-008	738797.69	1009613.259	6	nT	10/17/2006	7	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H12-011	738796.14	1009584.669	15	nT	10/17/2006	15	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H12-014	738791.915	1009566.924	12	nT	10/17/2006	12	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H12-015	738794.028	1009525.095	199	nT	10/17/2006	198	0	0	No Contact	10/24/2006		-	
SEAD-57	H13-002	738752.058	1009629.033	11	nT	10/17/2006	11	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H13-009	738798.112	1009643.821	8	nT	10/17/2006	8	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H13-011	738808.112	1009664.805	44	nT	10/17/2006	44	0	0	No Contact	10/24/2006		Pass	KC
SEAD-57	H13-012	738816.139	1009675.791	12	nT	10/17/2006	12	0	0	No Contact	10/24/2006		Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57	H13-014	738836.138	1009674.805	8	nT	10/17/2006	8	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-019	738811.914	1009647.06	26	nT	10/17/2006	26	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-020	738824.026	1009650.018	14	nT	10/17/2006	14	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-023	738840.222	1009647.764	9	nT	10/17/2006	9	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-024	738847.968	1009641.849	22	nT	10/17/2006	23	0	0	Cultural Debris	10/24/2006	Pass	KC	
SEAD-57	H13-029	738859.94	1009662.693	16	nT	10/17/2006	16	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-030	738856.137	1009675.65	47	nT	10/17/2006	47	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-032	738847.828	1009687.339	6	nT	10/17/2006	7	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-033	738844.025	1009700.296	18	nT	10/17/2006	17	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	H13-035	738840.222	1009740.012	198	nT	10/17/2006	199	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-038	738824.167	1009742.97	24	nT	10/17/2006	24	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-039	738830.505	1009737.055	356	nT	10/17/2006	355	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-044	738805.999	1009706.916	19	nT	10/17/2006	19	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-048	738789.944	1009681.847	13	nT	10/16/2006	12	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-049	738788.113	1009672.411	18	nT	10/16/2006	18	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-050	738781.916	1009669.171	14	nT	10/16/2006	15	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-052	738779.944	1009657.482	7	nT	10/16/2006	7	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-053	738764.03	1009662.13	13	nT	10/16/2006	13	0	0	No Contact	10/24/2006	-		
SEAD-57	H13-054	738756.002	1009660.721	70	nT	10/16/2006	70	0	0	No Contact	10/24/2006	Pass	KC	
SEAD-57	106-001	738903.14	1008811.52	14	nT	8/8/2006	14	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	106-003	738905.32	1008800.06	441	nT	8/8/2006	441	0	0	Hot Soil	8/9/2006	Pass	KC	
SEAD-57	106-004	738906.96	1008788.19	26	nT	8/8/2006	26	0	0	Hot Soil	8/9/2006	Pass	KC	
SEAD-57	106-007	738902.05	1008769.5	8	nT	8/8/2006	8	0	0	No Contact	8/9/2006	-		
SEAD-57	106-008	738907.92	1008769.91	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006	-		
SEAD-57	106-010	738931.11	1008811.79	17	nT	8/8/2006	17	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	106-011	738979.13	1008826.53	17	nT	8/8/2006	17	0	0	No Contact	8/9/2006	-		
SEAD-57	106-012	738904.23	1008872.77	21	nT	8/8/2006	21	0	0	No Contact	8/9/2006	-		
SEAD-57	107-001	738893.73	1008961.31	87	nT	8/8/2006	87	0	0	No Contact	8/9/2006	-		
SEAD-57	107-002	738908.05	1008962.67	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-003	738897.96	1008976.18	11	nT	8/8/2006	11	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-004	738898.91	1008994.46	11	nT	8/8/2006	11	0	0	No Contact	8/9/2006	-		
SEAD-57	107-005	738911.05	1008986.82	21	nT	8/8/2006	21	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-006	738921.15	1008991.05	8	nT	8/8/2006	8	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-007	738927.15	1008980.27	13	nT	8/8/2006	13	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-008	738945.98	1008950.26	29	nT	8/8/2006	29	0	0	No Contact	8/9/2006	-		
SEAD-57	107-010	738960.16	1008954.49	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-012	738999.59	1008917.25	44	nT	8/8/2006	44	0	0	No Contact	8/9/2006	-		
SEAD-57	107-013	738928.51	1008892.96	20	nT	8/8/2006	20	0	0	No Contact	8/9/2006	-		
SEAD-57	107-014	738918.15	1008886.69	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-015	738920.88	1008877.28	9	nT	8/8/2006	9	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-016	738897.96	1008887.23	13	nT	8/8/2006	13	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-017	738883.22	1008882.6	10	nT	8/8/2006	10	0	0	No Contact	8/9/2006	-		
SEAD-57	107-018	738897	1008901.15	24	nT	8/8/2006	24	0	0	No Contact	8/9/2006	-		
SEAD-57	107-019	738901.5	1008906.33	16	nT	8/8/2006	16	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	107-022	738893.73	1008952.31	27	nT	8/8/2006	27	0	0	No Contact	8/9/2006	Pass	KC	
SEAD-57	108-007	738882.426	1009105.215	28	nT	10/16/2006	28	0	0	No Contact	10/23/2006	Pass	KC	
SEAD-57	108-009	738918.4	1009123.881	19	nT	10/16/2006	18	0	0	No Contact	10/23/2006	-		
SEAD-57	108-012	738970.155	1009119.3	21	nT	10/16/2006	22	0	0	No Contact	10/19/2006	Pass	KC	
SEAD-57	108-018	738977.621	1009072.635	8	nT	10/16/2006	8	0	0	No Contact	10/23/2006	Pass	KC	
SEAD-57	108-019	738992.554	1009083.326	8	nT	10/16/2006	9	0	0	No Contact	10/23/2006	Pass	KC	
SEAD-57	108-024	738992.554	1009016.638	10	nT	10/16/2006	12	0	0	No Contact	10/23/2006	Pass	KC	
SEAD-57	110-004	738976.9	1009321.94	7	nT	8/8/2006	7	0	0	No Contact	8/9/2006	-		
SEAD-57	110-005	738968.85	1009310.37	10	nT	8/8/2006	10	0	0	No Contact	8/9/2006	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION			DIG RESULTS				QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp	Depth (in)	Location Offset (in)	Type	Date	Item Description	QC Code ³	QC Initials
SEAD-57	I10-007	738975.2	1009296.96	14	nT	8/8/2006	14	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-009	738988.89	1009286.09	23	nT	8/8/2006	23	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-013	738968.85	1009259.14	13	nT	8/8/2006	13	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-016	738960.67	1009288.07	6	nT	8/8/2006	6	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-019	738955.02	1009280.02	9	nT	8/8/2006	9	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-029	738890.67	1009268.88	6	nT	8/8/2006	6	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-031	738891.23	1009285.53	50	nT	8/8/2006	50	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-033	738880.93	1009298.51	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-035	738895.04	1009307.26	35	nT	8/8/2006	35	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-036	738891.09	1009330.83	490	nT	8/8/2006	490	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-039	738893.49	1009343.11	74	nT	8/8/2006	74	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-040	738893.21	1009355.25	121	nT	8/8/2006	121	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-041	738899.84	1009365.97	2	nT	8/8/2006	2	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-044	738921.86	1009336.9	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-050	738977.18	1009343.11	12	nT	8/8/2006	12	0	0	No Contact	8/9/2006		-	
SEAD-57	I10-051	738976.9	1009362.3	13	nT	8/8/2006	13	0	0	No Contact	8/9/2006		Pass	KC
SEAD-57	I10-052	738994.4	1009359.9	5	nT	8/8/2006	5	0	0	No Contact	8/9/2006		-	
SEAD-57	I11-001	738893.07	1009382.62	26	nT	8/8/2006	26	0	0	No Contact	8/10/2006		Pass	KC
SEAD-57	I11-006	738890.95	1009406.19	14	nT	8/8/2006	14	0	0	No Contact	8/10/2006		-	
SEAD-57	I11-007	738895.04	1009413.39	14	nT	8/8/2006	14	0	0	No Contact	8/10/2006		-	
SEAD-57	I11-012	738890.81	1009432.44	7	nT	8/8/2006	7	0	0	No Contact	8/10/2006		-	
SEAD-57	I11-028	738893.21	1009465.18	5	nT	8/8/2006	5	0	0	No Contact	8/10/2006		-	
SEAD-57	I11-037	738946.98	1009484.38	7	nT	8/8/2006	7	0	0	No Contact	8/10/2006		Pass	KC
SEAD-57	I11-041	738984.94	1009439.92	11	nT	8/8/2006	11	0	0	No Contact	8/10/2006		-	
SEAD-57	I11-043	738979.01	1009388.41	49	nT	8/8/2006	49	0	0	Cultural Debris	8/10/2006	seed item	-	
SEAD-57	I11-044	738958.97	1009383.19	13	nT	8/8/2006	13	0	0	No Contact	8/10/2006		Pass	KC
SEAD-57	I11-047	738931.45	1009415.22	10	nT	8/8/2006	10	0	0	No Contact	8/10/2006		-	
SEAD-57	I12-012	738905.072	1009543.691	16	nT	9/6/2006	16	0	0	No Contact	9/8/2006		Pass	KC
SEAD-57	I13-003	738922.473	1009705.509	6	nT	9/6/2006	6	0	0	No Contact	9/7/2006		Pass	KC
SEAD-57	I13-009	738996.019	1009725.554	3	nT	9/6/2006	3	0	0	No Contact	9/7/2006		Pass	KC
SEAD-57	J09-003	739012.728	1009242.676	6	nT	10/16/2006	7	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	J09-009	739022.812	1009177.477	32	nT	10/16/2006	31	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	J09-011	739020.551	1009186.866	24	nT	10/16/2006	22	0	0	No Contact	10/19/2006		Pass	KC
SEAD-57	J10-001	739059.12	1009320.289	65	nT	9/6/2006	65	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-002	739048.957	1009319.856	18	nT	9/6/2006	18	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-006	739050.903	1009290.123	11	nT	9/6/2006	11	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-007	739045.93	1009306.125	36	nT	9/6/2006	36	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-009	739028.955	1009311.855	14	nT	9/6/2006	14	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-010	739020.954	1009326.668	25	nT	9/6/2006	25	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-012	739012.953	1009364.186	51	nT	9/6/2006	51	0	0	Cultural Debris	9/8/2006	seed item	-	
SEAD-57	J10-013	739012.953	1009343.535	114	nT	9/6/2006	114	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-016	739017.061	1009305.368	11	nT	9/6/2006	11	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-018	739015.007	1009290.555	19	nT	9/6/2006	19	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-020	739009.06	1009284.717	13	nT	9/6/2006	13	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-021	739003.005	1009274.121	13	nT	9/6/2006	13	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-023	739021.062	1009267.417	38	nT	9/6/2006	38	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-024	739037.064	1009260.822	10	nT	9/6/2006	10	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-025	739037.064	1009254.767	14	nT	9/6/2006	14	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-026	739063.013	1009270.012	14	nT	9/6/2006	14	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-027	739068.959	1009268.715	9	nT	9/6/2006	9	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-028	739095.017	1009253.037	10	nT	9/6/2006	10	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-030	739123.02	1009254.551	13	nT	9/6/2006	14	0	0	No Contact	9/8/2006		-	
SEAD-57	J10-031	739106.91	1009285.257	9	nT	9/6/2006	9	0	0	No Contact	9/8/2006		-	

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Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft)		Amp ²	Amp Unit	Date	Amp							
		Easting (X)	Northing (Y)											
SEAD-57	J10-033	739113.181	1009307.855	16	nT	9/6/2006	16	0	0	No Contact	9/8/2006	-		
SEAD-57	J10-039	739111.019	1009334.02	12	nT	9/6/2006	12	0	0	No Contact	9/8/2006	-		
SEAD-57	J10-040	739105.072	1009312.828	11	nT	9/6/2006	11	0	0	No Contact	9/8/2006	-		
SEAD-57	J10-042	739087.016	1009315.964	9	nT	9/6/2006	9	0	0	No Contact	9/8/2006	-		
SEAD-57	J11-003	739092.962	1009492.31	27	nT	9/6/2006	27	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	J11-004	739089.178	1009498.689	9	nT	9/6/2006	9	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	J11-005	739075.014	1009494.256	11	nT	9/6/2006	11	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	J11-008	739012.953	1009438.898	9	nT	9/6/2006	8	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	J11-009	739015.007	1009434.897	17	nT	9/6/2006	17	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	J11-011	739004.952	1009404.84	3	nT	9/6/2006	3	0	0	No Contact	9/8/2006	-		
SEAD-57	J11-012	739012.953	1009376.836	16	nT	9/6/2006	16	0	0	No Contact	9/8/2006	-		
SEAD-57	J11-015	739045.065	1009385.378	8	nT	9/6/2006	8	0	0	No Contact	9/8/2006	-		
SEAD-57	J11-017	739071.014	1009422.463	20	nT	9/6/2006	20	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	J11-021	739100.963	1009415.003	12	nT	9/6/2006	12	0	0	No Contact	9/8/2006	-		
SEAD-57	J11-024	739117.073	1009425.707	23	nT	9/6/2006	23	0	0	No Contact	9/8/2006	Pass	KC	
SEAD-57	J11-027	739100.963	1009464.739	4	nT	9/6/2006	4	0	0	No Contact	9/8/2006	-		
SEAD-57	J11-028	739101.072	1009476.957	14	nT	9/6/2006	14	0	0	No Contact	9/8/2006	-		
SEAD-57	J11-029	739123.02	1009482.146	9	nT	9/6/2006	9	0	0	No Contact	9/8/2006	-		
SEAD-57	J12-011	739045.198	1009506.508	19	nT	10/16/2006	17	0	0	Cultural Debris	10/19/2006	Pass	KC	
SEAD-57	J12-012	739060.052	1009584.244	7	nT	10/16/2006	8	0	0	No Contact	10/19/2006	-		
SEAD-57	J12-poly01a	739096.885	1009682.73	1	nT	10/16/2006	1	0	0	Cultural Debris	10/17/2006	Pass	KC	
SEAD-57	K08-007	739192.499	1009059.768	9	nT	10/16/2006	9	0	0	Cultural Debris	10/19/2006	Pass	KC	
SEAD-57	K08-019	739157.462	1009019.297	20	nT	10/16/2006	21	0	0	No Contact	10/19/2006	Pass	KC	
SEAD-57	K09-001	739193.061	1009183.803	16	nT	10/16/2006	17	0	0	Cultural Debris	10/19/2006	Pass	KC	
SEAD-57	K09-poly01a	739127.382	1009231.7	1	nT	10/16/2006	1	0	0	Cultural Debris	10/18/2006	-		
SEAD-57	K10-007	739134.978	1009314.022	16	nT	10/16/2006	17	0	0	No Contact	10/19/2006	Pass	KC	
SEAD-57	K10-010	739177.322	1009278.235	6	nT	10/16/2006	7	0	0	No Contact	10/19/2006	Pass	KC	
SEAD-57	K10-poly01a	739134.895	1009252.416	1	nT	10/16/2006	1	0	0	Cultural Debris	10/18/2006	-		
SEAD-57	K10-poly02a	739140.464	1009372.151	1	nT	10/16/2006	1	0	0	Cultural Debris	10/17/2006	-		
SEAD-57	K11-poly01a	739141.09	1009473.716	1	nT	10/16/2006	1	0	0	Cultural Debris	10/17/2006	-		
SEAD-57	K11-poly01b	739125.219	1009423.316	1	nT	10/16/2006	1	0	0	Cultural Debris	10/17/2006	-		
SEAD-57	K12-poly01a	739125.219	1009556.695	1	nT	10/16/2006	1	0	0	Cultural Debris	10/17/2006	Pass	KC	
SEAD-57	K13-poly01a	739131.623	1009718.197	1	nT	10/16/2006	1	0	0	Cultural Debris	10/17/2006	Pass	KC	
SEAD-57	P57_M06-49	739352.75	1008973.5	20	Mv	7/7/2006	20	0	0	No Contact	7/10/2006	-		
SEAD-57	P57K06-17	739067.75	1008869.32	52	Mv	7/11/2006	60	0	0	No Contact	7/18/2006	Pass	KC	
SEAD-57	P57K06-187	739203	1008993.25	32	Mv	7/13/2006	60	0	0	No Contact	7/19/2006	-		
SEAD-57	P57K06-220	739211.75	1008937.25	21	Mv	7/13/2006	16	0	0	No Contact	7/19/2006	-		
SEAD-57	P57K06-222	739207.5	1008942.25	19	Mv	7/13/2006	17	0	0	No Contact	7/19/2006	-		
SEAD-57	P57K06-232	739117.5	1008947.25	18	Mv	7/12/2006	20	0	0	No Contact	7/18/2006	-		
SEAD-57	P57K06-271	739082.5	1008883.25	18	Mv	7/11/2006	18	0	0	No Contact	7/18/2006	-		
SEAD-57	P57K06-310	739082.5	1008960.25	17	Mv	7/11/2006	20	0	0	No Contact	7/18/2006	Pass	KC	
SEAD-57	P57K06-37	739019.5	1008902.25	29	Mv	7/11/2006	30	0	0	No Contact	7/17/2006	Pass	KC	
SEAD-57	P57K06-62	739078.25	1008834.75	25	Mv	7/13/2006	25	0	0	No Contact	7/18/2006	-		
SEAD-57	P57K06-86	739066	1008751	68	Mv	7/13/2006	28	0	0	No Contact	7/18/2006	-		
SEAD-57	P57K08-52	739207.5	1009021.5	79	Mv	7/24/2006	79	0	0	Cultural Debris	10/19/2006	-		
SEAD-57	P57K08-98	739214.75	1009150.5	35	Mv	7/10/2006	54	0	0	No Contact	7/11/2006	-		
SEAD-57	P57K10-24	739184.5	1009464.5	40	Mv	10/4/2006	41	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-25	739196.25	1009463	34	Mv	10/4/2006	33	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-26	739201	1009461.5	88	Mv	10/4/2006	89	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-27	739203	1009473.25	16	Mv	10/4/2006	18	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-28	739204.25	1009473.25	20	Mv	10/4/2006	21	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-29	739203.75	1009470.75	19	Mv	10/4/2006	23	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-34	739190.5	1009452.25	20	Mv	10/4/2006	20	0	0	No Contact	10/26/2006	-		

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC Code ³	QC Initials
		Location (ft) Easting (X)	Location (ft) Northing (Y)	Amp ²	Amp Unit	Date	Amp							
SEAD-57	P57K10-35	739196.75	1009454	126	Mv	7/13/2006	36	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-7	739230.5	1009491.25	117	Mv	10/4/2006	119	0	0	No Contact	10/26/2006	-		
SEAD-57	P57K10-83	739199.5	1009368	65	Mv	7/13/2006	65	0	0	Cultural Debris	10/19/2006	-		
SEAD-57	P57M08-14	739377	1009203.25	21	Mv	7/6/2006	30	0	0	No Contact	7/7/2006	-		
SEAD-57	P57M08-47	739357.75	1009104.25	29	Mv	7/6/2006	36	0	0	No Contact	10/26/2006	-		
SEAD-57	P57M08-53	739372.75	1009026	24	Mv	7/6/2006	24	0	0	No Contact	7/7/2006	-		
SEAD-57	P57M08-71	739289.75	1009010.25	20	Mv	7/6/2006	20	0	0	No Contact	7/10/2006	-		
SEAD-57	P57M10-62	739251.7	1009251.91	319	Mv	7/10/2006	384	0	0	Cultural Debris	7/10/2006	-		
SEAD-57	S57_M12_5	739256.75	1009517	40	Mv	7/10/2006	24	0	0	No Contact	10/19/2006	-		
SEAD-57	S57K12-45	739226.5	1009509	19	Mv	7/10/2006	18	0	0	No Contact	10/19/2006	-		
SEAD-57	S57K12-46	739244.75	1009506.25	43	Mv	7/10/2006	20	0	0	No Contact	10/26/2006	Pass	KC	
SEAD-57	S57K12-47	739248.76	1009501.91	202	Mv	7/10/2006	170	0	0	Cultural Debris	10/19/2006	-		
SEAD-57	S57K12-48	739245.5	1009518.5	36	Mv	7/10/2006	19	0	0	No Contact	10/19/2006	-		
SEAD-57 Buffer	A14-019	737950.75	1009879.25	36	mV	9/28/2006	36	0	0	No Contact	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-041	738056.25	1009861	31	mV	9/28/2006	31	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-059	738091	1009813.5	45	mV	9/28/2006	45	0	0	No Contact	10/25/2006	Pass	KC	
SEAD-57 Buffer	A14-070	737992	1009838	117	mV	9/28/2006	117	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A14-107	737919.34	1009869.11	26	mV	9/28/2006	26	0	0	No Contact	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-111A1	737879.998	1009866.099	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111B1	737922.015	1009859.976	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111C1	737922.015	1009844.714	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111C2	737922.015	1009844.714	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111C3	737922.015	1009844.714	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111C4	737922.015	1009844.714	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111D1	737879.904	1009848.765	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111D2	737879.904	1009848.765	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-111D3	737879.904	1009848.765	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	-		
SEAD-57 Buffer	A14-123	737927	1009991	23	mV	9/28/2006	23	0	0	No Contact	10/10/2006	Pass	KC	
SEAD-57 Buffer	A14-146	738114	1009983.5	18	mV	9/28/2006	18	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A14-147	738102.75	1009972.5	43	mV	9/28/2006	43	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-007	737933.74	1010072.49	14	mV	9/28/2006	14	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-010	737955	1010067	18	mV	9/28/2006	18	0	0	No Contact	10/10/2006	Pass	KC	
SEAD-57 Buffer	A16-016	737959.75	1010066	18	mV	9/28/2006	18	0	0	No Contact	10/10/2006	Pass	KC	
SEAD-57 Buffer	A16-026	737991	1010047.25	17	mV	9/28/2006	17	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-028	738007	1010087.5	16	mV	9/28/2006	16	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-029	738016	1010088	23	mV	9/28/2006	23	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-031	738023.25	1010087.75	17	mV	9/28/2006	17	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-032	738026.25	1010087.75	30	mV	9/28/2006	30	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-033	738033.5	1010088.25	27	mV	9/28/2006	27	0	0	No Contact	10/9/2006	-		
SEAD-57 Buffer	A16-034	738037.75	1010087.75	24	mV	9/28/2006	24	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-035	738045	1010086.75	23	mV	9/28/2006	23	0	0	No Contact	10/9/2006	Pass	KC	
SEAD-57 Buffer	A16-038	738056	1010088.25	21	mV	9/28/2006	21	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-039	738060	1010087.75	31	mV	9/28/2006	31	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-040	738067.5	1010088	17	mV	9/28/2006	17	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-042	738086.5	1010071.5	17	mV	9/28/2006	17	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-043	738067.75	1010069.5	17	mV	9/28/2006	17	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-047	738056	1010040.5	17	mV	9/28/2006	17	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-049	738065.75	1010002.75	18	mV	9/28/2006	18	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-053	738120.5	1010089	17	mV	9/28/2006	17	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-054	738116.75	1010101.25	18	mV	9/28/2006	18	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-055	738102	1010088.5	19	mV	9/28/2006	19	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-056	738094.25	1010089	20	mV	9/28/2006	20	0	0	No Contact	10/5/2006	Pass	KC	
SEAD-57 Buffer	A16-057	738090.25	1010088	16	mV	9/28/2006	16	0	0	No Contact	10/5/2006	Pass	KC	

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY				REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS Item Description	QPOST-DIG QC	
		Location (ft)		Amp ²	Amp Unit	Date	Amp						QC Code ³	QC Initials
		Easting (X)	Northing (Y)											
SEAD-57 Buffer	A16-058	738085	1010103.75	19	mV	9/28/2006	19	0	0	No Contact	10/5/2006	Northern edge of a large ditch	Pass	KC
SEAD-57 Buffer	A16-059	738096.25	1010109	18	mV	9/28/2006	18	0	0	No Contact	10/5/2006	Northern edge of a large ditch	Pass	KC
SEAD-57 Buffer	A16-075	738038.75	1010141.75	17	mV	9/28/2006	17	0	0	No Contact	10/5/2006	South of a ridge line	Pass	KC
SEAD-57 Buffer	A16-082	737977	1010158	18	mV	9/28/2006	18	0	0	No Contact	10/9/2006	Near ridge line	Pass	KC
SEAD-57 Buffer	A16-088	737962.75	1010182.5	26	mV	9/28/2006	26	0	0	No Contact	10/9/2006	Near ditch	Pass	KC
SEAD-57 Buffer	A16-093	737964.5	1010218.75	18	mV	9/28/2006	18	0	0	No Contact	10/9/2006	Wet area	Pass	KC
SEAD-57 Buffer	A16-106	737921.75	1010154.25	23	mV	9/28/2006	23	0	0	No Contact	10/9/2006	Near a ridge	Pass	KC
SEAD-57 Buffer	A16-111	737931.75	1010114.75	19	mV	9/28/2006	19	0	0	No Contact	10/9/2006	Near ditch	Pass	KC
SEAD-57 Buffer	A18-003	737975.5	1010276.25	17	mV	9/28/2006	17	0	0	No Contact	10/9/2006	Near ditch	Pass	KC
SEAD-57 Buffer	A18-019	738105.75	1010267.5	22	mV	9/28/2006	22	0	0	No Contact	10/5/2006	Wet spot	-	-
SEAD-57 Buffer	C14-010	738217.31	1009942.87	79	mV	9/28/2006	79	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	C14-011	738215.4	1009947.13	74	mV	9/28/2006	74	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	C14-013	738211.87	1009927.6	24	mV	9/28/2006	24	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	C14-014	738208.5	1009920.75	23	mV	9/28/2006	23	0	0	No Contact	10/5/2006		Pass	KC
SEAD-57 Buffer	C14-016	738182	1009905	22	mV	9/28/2006	22	0	0	No Contact	10/5/2006		Pass	KC
SEAD-57 Buffer	C14-020	738156.5	1009860	20	mV	9/28/2006	20	0	0	No Contact	10/5/2006	Already dug	Pass	KC
SEAD-57 Buffer	C14-025	738128.5	1009873.25	17	mV	9/28/2006	17	0	0	No Contact	10/5/2006		Pass	KC
SEAD-57 Buffer	C14-026	738127.75	1009881.5	16	mV	9/28/2006	16	0	0	No Contact	10/5/2006		Pass	KC
SEAD-57 Buffer	C14-029	738167.25	1009927	31	mV	9/28/2006	31	0	0	No Contact	10/5/2006		Pass	KC
SEAD-57 Buffer	C14-035	738175.5	1009942.25	30	mV	9/28/2006	30	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	C14-036	738184.75	1009937	21	mV	9/28/2006	21	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	C16-049	738204	1010134.25	19	mV	10/2/2006	19	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	E16-006	738377.75	1010235.25	19	mV	10/2/2006	19	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	E16-019A1	738394.184	1010075.066	634	mV	10/16/2006	634	0	0	Cultural Debris	7/20/2006	Pieces of metal sign found near A & B flags	-	-
SEAD-57 Buffer	E16-044	738603.75	1010181.25	22	mV	10/2/2006	22	0	0	No Contact	10/3/2006		Pass	KC
SEAD-57 Buffer	E16-059	738512.75	1010204.5	24	mV	10/2/2006	24	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	E18-029	738393	1010298	22	mV	9/26/2006	22	0	0	No Contact	10/4/2006		Pass	KC
SEAD-57 Buffer	G16-017A	738662.248	1010165.379	634	mV	10/16/2006	634	0	0	Munitions Debris	7/20/2006	1" frag	-	-
SEAD-57 Buffer	G16-017B	738646.896	1010129.006	634	mV	10/16/2006	634	0	0	MPPEH	7/20/2006	2.36" WP warhead w/ burst	-	-
SEAD-57 Buffer	G16-017C	738665.555	1010133.022	634	mV	10/16/2006	634	0	0	Munitions Debris	7/20/2006	2" frag	-	-
SEAD-57 Buffer	G16-017D	738678.545	1010162.308	634	mV	10/16/2006	634	0	0	Munitions Debris	7/20/2006	1" frag	-	-
SEAD-57 Buffer	G16-017E	738678.545	1010162.308	634	mV	10/16/2006	634	0	0	Munitions Debris	7/20/2006	3" frag	-	-
SEAD-57 Buffer	G16-024	738639.25	1010231.5	20	mV	9/26/2006	20	0	0	No Contact	10/3/2006		Pass	KC
SEAD-57 Buffer	G18-002	738707	1010338.75	22	mV	9/26/2006	22	0	30	Cultural Debris	10/3/2006	Same as #1	Pass	KC
SEAD-57 Buffer	G18-009	738696.25	1010308.25	3828	mV	9/26/2006	3828	0	24	Cultural Debris	10/3/2006	Test well piece	Pass	KC
SEAD-57 Buffer	G18-010	738690.75	1010288.5	97	mV	9/26/2006	97	0	48	Cultural Debris	10/3/2006	Pole for test well	Pass	KC
SEAD-57 Buffer	G18-027	738714.75	1010289	103	mV	9/26/2006	103	0	48	Cultural Debris	10/3/2006	Pole around test well	-	-
SEAD-57 Buffer	I18-005	738906	1010321.25	31	mV	9/26/2006	31	0	0	No Contact	10/2/2006		Pass	KC
SEAD-57 Buffer	I18-021	738969	1010300	32	mV	9/26/2006	32	0	0	Munitions Debris	10/2/2006	Frag	Pass	KC
SEAD-57 Buffer	I18-029	739076.75	1010281	21	mV	9/26/2006	21	0	0	No Contact	10/2/2006		-	-
SEAD-57 Buffer	K16-001	739323	1010201.25	19	mV	9/26/2006	19	0	0	No Contact	9/28/2006		Pass	KC
SEAD-57 Buffer	K16-005	739265.75	1010184.75	21	mV	9/26/2006	21	0	0	No Contact	10/2/2006		Pass	KC
SEAD-57 Buffer	K16-011	739336.26	1010248.27	109	mV	9/26/2006	109	0	0	No Contact	9/28/2006		Pass	KC
SEAD-57 Buffer	K18-002	739127.75	1010378	375	mV	9/26/2006	375	0	0	Munitions Debris	10/2/2006	Same as #143 [frag]	Pass	KC
SEAD-57 Buffer	K18-031	739328	1010256.5	20	mV	9/26/2006	20	0	0	No Contact	9/28/2006		Pass	KC
SEAD-57 Buffer	K18-046	739363.75	1010391.5	26	mV	9/26/2006	26	0	0	No Contact	10/26/2006		-	-
SEAD-57 Buffer	K18-047	739358.5	1010410.5	4299	mV	9/26/2006	4299	0	0	No Contact	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-057	739294.25	1010413	22	mV	9/26/2006	22	0	0	No Contact	10/2/2006		Pass	KC
SEAD-57 Buffer	K18-069	739182	1010390	27	mV	9/26/2006	27	0	0	No Contact	10/2/2006		Pass	KC
SEAD-57 Buffer	M18-006	739433.75	1010322.75	21	mV	9/26/2006	21	0	0	No Contact	10/2/2006		Pass	KC
SEAD-57 Buffer	M18-007	739440.75	1010276	19	mV	9/26/2006	19	0	0	No Contact	10/2/2006		Pass	KC
SEAD-57 Buffer	M18-010	739413.25	1010287.75	59	mV	9/26/2006	59	0	0	No Contact	10/2/2006		Pass	KC

APPENDIX C
SEAD 57 All Dig Results
Explosives Safety Submission Completion Report
Seneca Army Depot Activity

Worksite	Anomaly ID	DGM ¹ and GPS SURVEY			REACQUISITION		Depth (in)	Location Offset (in)	Type	Date	DIG RESULTS		QPOST-DIG QC	
		Location (ft) Easting (X) Northing (Y)	Amp ²	Amp Unit	Date	Amp					Item Description	QC Code ³	QC Initials	

Notes:

- 1) DGM survey coordinates were obtained from Shaw E & I Inc SEAD-46/57 Completion Report. GPS survey coordinates were produced by Parsons.
- 2) EM-61 Response (mV) and 858 Magnetomer (nT) readings are listed in the Amp column in DGM and GPS Survey category.
- 3) QC Code (-) indicates the Anomaly was not QC'ed, (Pass) indicates the Anomaly was QC'ed and was acceptable.

APPENDIX D
DATA FRAGMENTATION FORMS

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

1	2	3	4	5	6	7	25242200070000	QUANTITY	100	UNIT PRICE		1. TOTAL PRICE	2. SHIP FROM	3. SHIP TO
COO ZINC	FRM	QTY	CON CODE	DIST	UP									

24. DOCUMENT NUMBER & SUFFIX (30-44)

25. NATIONAL STOCK NO. & ADD (8-32)

26. NC (4-8) LI (23-34) QTY (25-36) CON CODE (71) DIST (85-88) UP (7-40)

27. ADDITIONAL DATA

ONE 55gal DRUM CONTAINING MUNITION DEBRIS - ALUMINUM
Weight: 499 Lbs
SEAL # 4416009

"This certifies that the material listed has been 100 percent properly inspected and, to the best of our knowledge and belief, are free of explosive hazards, engine fluids, illuminating dials and other visible liquid HTWR materials.

Ad Mall
SUXOS PARSONS

UNIT PRICE		DOLLARS		CTS	4. MARK FOR	
DOLLARS	CTS					
4. DOC DATE	5. NMFC	7. FRT RATE	8. TYPE CARGO		9. PS	
10. QTY. RECD	11. SUP	12. UNIT WEIGHT	13. UNIT CUBE	14. UPC	15. BL	
16. FREIGHT CLASSIFICATION NOMENCLATURE						
17. ITEM NOMENCLATURE						
18. TY CONT	19. NO CONT	20. TOTAL WEIGHT		21. TOTAL CUBE		
22. RECEIVED BY				23. DATE RECEIVED		

PREVIOUS EDITION MAY BE USED

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

1	2	3	4	5	6	7	25242200070000	QUANTITY	100	UNIT PRICE		1. TOTAL PRICE	2. SHIP FROM	3. SHIP TO
COO ZINC	FRM	QTY	CON CODE	DIST	UP									

24. DOCUMENT NUMBER & SUFFIX (30-44)

25. NATIONAL STOCK NO. & ADD (8-32)

26. NC (4-8) LI (23-34) QTY (25-36) CON CODE (71) DIST (85-88) UP (7-40)

27. ADDITIONAL DATA

ONE 55gal DRUM CONTAINING MUNITION DEBRIS - ALUMINUM
Weight 119 Lbs
SEAL # 4416009

"This certifies that the material listed has been 100 percent properly inspected and, to the best of our knowledge and belief, are free of explosive hazards, engine fluids, illuminating dials and other visible liquid HTWR materials.

Ad Mall
SUXOS PARSONS

UNIT PRICE		DOLLARS		CTS	4. MARK FOR	
DOLLARS	CTS					
4. DOC DATE	5. NMFC	7. FRT RATE	8. TYPE CARGO		9. PS	
10. QTY. RECD	11. SUP	12. UNIT WEIGHT	13. UNIT CUBE	14. UPC	15. BL	
16. FREIGHT CLASSIFICATION NOMENCLATURE						
17. ITEM NOMENCLATURE						
18. TY CONT	19. NO CONT	20. TOTAL WEIGHT		21. TOTAL CUBE		
22. RECEIVED BY				23. DATE RECEIVED		

PREVIOUS EDITION MAY BE USED

Formflow (DLA)

CHAIN OF CUSTODY RECORD

PARSONS

PROJECT/CLIENT INFORMATION

PROJECT NO. 745054-01400
 P.O. NUMBER 745054-01400
 PROJECT MANAGER Todd Helms
 CLIENT (SITE) PM Jacqueline Travers/Chunhua Liu
 CLIENT NAME Parsons
 CLIENT EMAIL Benedict.McAllister@parsons.com
 CLIENT FAX 617-946-9777
 CONTRACT/Quote No. None
 CLIENT PHONE 617-449-1592

PROJECT STATE NY
 CLIENT ADDRESS 150 Federal Street, Boston, MA 02110
 Samplers Signature & Initials:

150 Federal Street
 Boston MA 02110
 Ph: 617-9469400
 Fax: 617-946-9777
 Website: www.parsons.com

Possible Hazards: Non-Hazard

Sample Disposal: Return to Client

Sample Information		Custody Seal Number	
Weight	Custody Seal Intact	16832	16839
LABORATORY SAMPLE ID		4416007	4416004
		16833	4416009
		16832	4416006
		16839	4416009
		4416007	4416004

LABORATORY SAMPLE ID	Weight	Custody Seal Intact	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	835 lbs.	Y					
	585 lbs.	Y					
	454 lbs.	Y					
	434 lbs.	Y					
	537 lbs.	Y					
	499 lbs.	Y					
	119 lbs.	Y					
7 drums total							

IDENTIFICATION

11/9/2006 11:00 Drum #1 Ferrous MD
 11/9/2006 11:10 Drum #2 Ferrous MD
 11/9/2006 Drum #3 Ferrous MD
 11/9/2006 Drum #4 Ferrous MD
 11/9/2006 Drum #5 Ferrous MD
 11/9/2006 Drum #6 Aluminum MD
 11/9/2006 Drum #7 Aluminum MD

RECEIVED BY: (SIGNATURE) *[Signature]* DATE 11/9/06 TIME 12:40
 RELINQUISHED BY: (SIGNATURE) *[Signature]* DATE 11/9/06 TIME 12:41

RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE TIME
 CUSTODY SEAL NO. YES NO 8

REMARKS

Munitions Debris from Seneca Army Depot

1348-1a on file

1 HCl

8 lbs

Originator

MEMO FOR RECORD

Name _____
Company _____
Address _____
Phone _____
Subject Explosives Inventory

Date 12/30/02
Time _____ a.m./p.m.

Originator Placed Call
 Originator Received Call

W.O. Number _____

Notes

An explosives inventory was not conducted during the week of 12-23-02 as the site was shut down due to the Christmas holiday

FAA

*PARSONS Transferred Explosives from
AG205 TO Demo Area MAGAZINES
on 06-07-06
Inventory Also Conducted*

File Number _____
 Tickle File _____ / /
 Follow-Up By: _____
 Copy/Route To: _____

Follow-Up Action: _____

Originator's Initials _____



1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
		Igniters, Fuze, Weatherproof				
					153	
3-15-05	-	Carried Forward	-	-	21	M. Holmes MFA.HK
3-21-05	-	Inventory	-	-	21	M. Holmes MFA.HK
3-31-05	-	Inventory	-	-	21	M. Holmes MFA.HK
4/1/06	-	Inventory/Transfer	-	-	21	K. Card
6/7/06	-	Inventory	-	-	21	K. Card S.A. MOLLÉ
6/11/06	-	Draw	-	3	18	K. Card S.A. MOLLÉ
6/21/06	-	Issue	-	3	15	K. Card S.A. MOLLÉ
6/21/06	-	Issue	-	1	14	K. Card S.A. MOLLÉ
6/25/06	-	Inventory	-	-	14	K. Card S.A. MOLLÉ
7/7/06	-	Inventory	-	-	14	K. Card S.A. MOLLÉ
7/13/06	-	Inventory	-	-	14	K. Card S.A. MOLLÉ
7/20/06	-	Inventory	-	-	14	K. Card S.A. MOLLÉ
7/21/06	-	Inventory	-	-	14	K. Card S.A. MOLLÉ
8/7/06	-	Inventory	-	-	14	K. Card S.A. MOLLÉ
8/14/06	-	Inventory	-	-	14	K. Card S.A. MOLLÉ

DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

Continued on Reverse
PREVIOUS EDITION IS OBSOLETE
USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
8/22/06		Inventory	-	-	14	K. Card S.A. MOLLÉ
8/25/06		Inventory	-	-	14	K. Card S.A. MOLLÉ
9/05/06		Issue	-	4	10	K. Card S.A. MOLLÉ
9/5/06		Inventory	-	-	10	K. Card S.A. MOLLÉ
9/12/06		Inventory	-	-	10	K. Card S.A. MOLLÉ
9/18/06		Inventory	-	-	10	K. Card S.A. MOLLÉ
9/25/06		Inventory	-	-	10	K. Card S.A. MOLLÉ
9/27/06		Issue	-	3	7	K. Card S.A. MOLLÉ
10/3/06		Inventory	-	-	7	K. Card S.A. MOLLÉ
10/9/06		Inventory	-	-	7	K. Card S.A. MOLLÉ
10/16/06		Inventory	-	-	7	K. Card S.A. MOLLÉ
10/20/06		Inventory	-	-	7	DAN DORRELL S.A. MOLLÉ
11/2/06		Inventory	-	-	7	D. Dorrell
11/8/06		Issue	-	7	0	D. Dorrell

REVERSE, DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

Use Other Side First

USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
3-15-05	-	Carried Forward	-	-	776'	M. Holmes MFA/H
3-21-05	-	Inventory	-	-	776'	M. Holmes MFA/H
3-31-05	-	Inventory	-	-	776'	M. Holmes MFA/H
5/5/06	-	Inventory/transfer	-	-	776'	K. Campbell
6/7/06	-	Inventory	-	-	776'	S.A. Malle
6/14/06	-	Demo	-	30'	746	K. Campbell S.A. Malle
6/11/06	-	Demo issue	-	19'	727	K. Campbell S.A. Malle
6/27/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
7/7/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
7/13/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
7/20/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
7/31/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
8/7/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
8/14/06	-	Inventory	-	-	727	K. Campbell S.A. Malle

DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

Continued on Reverse
PREVIOUS EDITION IS OBSOLETE
USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
8/22/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
8/28/06	-	Inventory	-	-	727	K. Campbell S.A. Malle
9/05/06	-	Issue	-	21'	706	K. Campbell S.A. Malle
9/5/06	-	Inventory	-	-	706	K. Campbell S.A. Malle
9/12/06	-	Inventory	-	-	706	K. Campbell S.A. Malle
9/18/06	-	Inventory	-	-	706	K. Campbell S.A. Malle
9/25/06	-	Inventory	-	-	706	K. Campbell S.A. Malle
9/27/06	-	Issue	-	19	687	K. Campbell S.A. Malle
10/3/06	-	Inventory	-	-	687	K. Campbell S.A. Malle
10/9/06	-	Inventory	-	-	687	K. Campbell S.A. Malle
10/16/06	-	Inventory	-	-	687	K. Campbell S.A. Malle
10/24/06	-	Inventory	-	-	687	D. Dorrel S.A. Malle
11/2/06	-	Inventory	-	-	687	K. Campbell D. Dorrel
11/8/06	-	Issue	-	687'	0	D. Dorrel/K. Campbell

REVERSE, DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

Use Other Side First

USAPPC V1.01

2

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
			213			
		Detonators, NON-Electric		1.4B	UN 0267	
3-15-05	-	Carried Forward	-	-	104	M. Holmes M.S.A. Jr
3-21-04	-	Inventory	-	-	104	M. Holmes M.S.A. Jr
3-31-05	-	Inventory	-	-	104	M. Holmes M.S.A. Jr
5/25/06	-	Inventory/Transfer	-	-	104	K. Capel S.A. Malle
6/7/06	-	Inventory	-	-	104	K. Capel S.A. Malle
6/19/06	-	Demo	-	2	102	K. Capel S.A. Malle
6/21/06	-	Demo	-	4	98	K. Capel S.A. Malle
6/29/06	-	Inventory	-	-	98	K. Capel S.A. Malle
7/1/06	-	Inventory	-	-	98	K. Capel S.A. Malle
7/13/06	-	Inventory	-	-	98	K. Capel S.A. Malle
7/26/06	-	Inventory	-	-	98	K. Capel S.A. Malle
7/31/06	-	Inventory	-	-	98	K. Capel S.A. Malle
8/7/06	-	Inventory	-	-	98	K. Capel S.A. Malle
8/14/06	-	Inventory	-	-	98	K. Capel S.A. Malle

DA FORM 3020-R, AUG 89 MAGAZINE DATA CARD
 For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

Continued on Reverse
 PREVIOUS EDITION IS OBSOLETE
 USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
8/23/06		Inventory	-	-	98	K. Capel S.A. Malle
8/28/06		Inventory	-	-	98	K. Capel S.A. Malle
9/05/06		Issue	-	2	96	K. Capel S.A. Malle
9/13/06		Inventory	-	-	96	K. Capel S.A. Malle
9/12/06		Inventory	-	-	96	K. Capel S.A. Malle
9/15/06		Inventory	-	-	96	K. Capel S.A. Malle
9/25/06		Inventory	-	-	96	K. Capel S.A. Malle
9/27/06		Issue	-	2	94	K. Capel S.A. Malle
10/3/06		Inventory	-	-	94	K. Capel S.A. Malle
10/9/06		Inventory	-	-	94	K. Capel S.A. Malle
10/16/06		Inventory	-	-	94	K. Capel S.A. Malle
10-16-06		Inventory	-	-	94	D. Dorrew S.A. Malle
11/2/06		Inventory	-	-	94	K. Capel D. Dorrew
11/7/06		Issue	-	94	0	K. Capel D. Dorrew

REVERSE, DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

Use Other Side First

USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO. 142266F	4. LOCATION	B.	D.
5. DESCRIPTION Card, Detonating, 80gr			A. 1.4D	C. UN0289	E.

6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
3-15-05	-	Carried Forward	-	-	290'	M. Holmes MFA.Hz
3-21-05	-	Inventory	-	-	290'	M. Holmes MFA.Hz
3-31-05	-	Inventory	-	-	290'	M. Holmes MFA.Hz
5/25/06	-	Inventory	-	-	290'	M. Holmes MFA.Hz
6/7/06	-	Inventory	-	-	290'	K. Capel S.A. Malle
6/14/06	-	Demo	-	6'	284'	K. Capel S.A. Malle
6/21/06	-	ISSUE / DEMO	-	30	254'	K. Capel S.A. Malle
6/29/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
7/7/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
7/13/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
7/20/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
7/31/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
8/7/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
8/14/06	-	Inventory	-	-	254'	K. Capel S.A. Malle

DA FORM 3020-R, AUG 89 **MAGAZINE DATA CARD**
 For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

Continued on Reverse
 PREVIOUS EDITION IS OBSOLETE
 USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.
5. DESCRIPTION			A.	C.	E.

6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
8/22/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
8/28/06	-	Inventory	-	-	254'	K. Capel S.A. Malle
9/05/06	-	ISSUE	-	2'	253'	K. Capel S.A. Malle
9/15/06	-	Inventory	-	-	253'	K. Capel S.A. Malle
9/19/06	-	Inventory	-	-	253'	K. Capel S.A. Malle
9/18/06	-	Inventory	-	-	253'	K. Capel S.A. Malle
9/25/06	-	Inventory	-	-	253'	K. Capel S.A. Malle
9/27/06	-	ISSUE	-	64'	189'	K. Capel S.A. Malle
10/3/06	-	Inventory	-	-	189'	K. Capel S.A. Malle
10/9/06	-	Inventory	-	-	189'	K. Capel S.A. Malle
10/16/06	-	ISSUE	-	25'	164'	K. Capel S.A. Malle
10/16/06	-	Inventory	-	-	164'	K. Capel S.A. Malle
10-26-06	-	INVENTORY	-	-	164'	D. DORRELL S.A. MALLE
11/2/06	-	Inventory	-	-	164'	K. Capel S.A. Malle
11/7/06	-	ISSUE	-	164'	0	D. DORRELL S.A. MALLE

REVERSE, DA FORM 3020-R, AUG 89 **MAGAZINE DATA CARD**

Use Other Side First

1. DODIC	2. NSN	3. LOT NO. 0052220118	4. LOCATION	B.	D.
5. DESCRIPTION Charges, Shaped, 4" Perforators rex HSC Type C			A.	C. In 0441	E.

6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
3-15-05	-	Carried forward	-	-	51	M. Holmes MSA.Hz
3-21-05	-	Inventory	-	-	51	M. Holmes MSA.Hz
3-31-05	-	Inventory	-	-	51	M. Holmes MSA.Hz
5-25-06	-	Inventory/Transfer	-	-	51	K. Cappel S.A. Mollé
6-7-06	-	Inventory	-	-	51	K. Cappel S.A. Mollé
6-14-06	-	Demo	-	1	50	K. Cappel S.A. Mollé
6-21-06	-	Issue	-	10	40	K. Cappel S.A. Mollé
6-29-06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
7-7-06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
7-12-06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
7-20-06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
7-31-06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
8-7-06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
8-14-06	-	Inventory	-	-	40	K. Cappel S.A. Mollé

DA FORM 3020-R, AUG 89 MAGAZINE DATA CARD

For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

Continued on Reverse
PREVIOUS EDITION IS OBSOLETE
USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.
5. DESCRIPTION			A.	C.	E.

6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
8/22/06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
8/28/06	-	Inventory	-	-	40	K. Cappel S.A. Mollé
9/15/06	-	Issue	-	2	39	K. Cappel S.A. Mollé
9/15/06	-	Inventory	-	-	39	K. Cappel S.A. Mollé
9/16/06	-	Inventory	-	-	39	K. Cappel S.A. Mollé
9/18/06	-	Inventory	-	-	39	K. Cappel S.A. Mollé
9/25/06	-	Inventory	-	-	39	K. Cappel S.A. Mollé
9/27/06	-	Issue	-	12	27	K. Cappel S.A. Mollé
10/3/06	-	Inventory	-	-	27	K. Cappel S.A. Mollé
10/9/06	-	Inventory	-	-	27	K. Cappel S.A. Mollé
10/10/06	-	Issue	-	7	20	K. Cappel S.A. Mollé
10/16/06	-	Inventory	-	-	20	K. Cappel S.A. Mollé
10-24-06	-	INVENTORY	-	-	20	D. DORRELL SIA.MOLLE
11/2/06	-	Inventory	-	-	20	K. Cappel D. DORRELL
11/7/06	-	ISSUE	-	20	0	S.A. Mollé D. DORRELL

REVERSE, DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

Use Other Side First

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
Boosters, 1/2lb			1.1D	un		
3-15-05	-	Carried Forward	-	-	65	M. Holmes MFA/It
3-21-05	-	Inventory	-	-	65	M. Holmes MFA/It
3-24-05	-	Inventory	-	-	65	M. Holmes MFA/It
5/25-06	-	Inventory Transfer	-	-	65	K. Royal S.A. Malle
6/7/06	-	Inventory	-	-	65	K. Royal S.A. Malle
6/21/06	-	ISSUE	-	1	64	K. Royal S.A. Malle
6/26/06	-	Inventory	-	-	64	K. Royal S.A. Malle
7/7/06	-	Inventory	-	-	64	K. Royal S.A. Malle
7/12/06	-	Inventory	-	-	64	K. Royal S.A. Malle
7/20/06	-	Inventory	-	-	64	K. Royal S.A. Malle
7/31/06	-	Inventory	-	-	64	K. Royal S.A. Malle
8/7/06	-	Inventory	-	-	64	K. Royal S.A. Malle
8/17/06	-	Inventory	-	-	64	K. Royal S.A. Malle

DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG

Continued on Reverse
PREVIOUS EDITION IS OBSOLETE
USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
8/2/06		Inventory	-	-	64	K. Royal S.A. Malle
8/23/06		Inventory	-	-	64	K. Royal S.A. Malle
8/5/06		Inventory	-	-	64	K. Royal S.A. Malle
8/12/06		Inventory	-	-	64	K. Royal S.A. Malle
8/18/06		Inventory	-	-	64	K. Royal S.A. Malle
8/25/06		Inventory	-	-	64	K. Royal S.A. Malle
9/29/06		ISSUE	-	9	55	K. Royal S.A. Malle
10/3/06		Inventory	-	-	55	K. Royal S.A. Malle
10/9/06		Inventory	-	-	55	K. Royal S.A. Malle
10/16/06		ISSUE	-	9	46	K. Royal S.A. Malle
10/16/06		Inventory	-	-	46	K. Royal S.A. Malle
10/16/06		INVENTORY	-	-	46	D. DORREU S.A. Malle
11/2/06		Inventory	-	-	46	K. Royal S.A. Malle
11/7/06		ISSUE	-	46	0	S.A. Malle D. Dorreu

REVERSE, DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

Use Other Side First

USAPPC V1.01

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION						
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
6/20/06	#16672	Receive inventory	50		50	K. Cape / S.A. Malle
6/22/06		Inventory	-	-	50	K. Cape / S.A. Malle
7/1/06		Inventory	-	-	50	K. Cape / S.A. Malle
7/13/06		Inventory	-	-	50	K. Cape / S.A. Malle
7/20/06		Inventory	-	-	50	K. Cape / S.A. Malle
7/21/06		Inventory	-	-	50	K. Cape / S.A. Malle
8/7/06		Inventory	-	-	50	K. Cape / S.A. Malle
8/14/06		Inventory	-	-	50	K. Cape / S.A. Malle
8/22/06		Inventory	-	-	50	K. Cape / S.A. Malle
8/28/06		Inventory	-	-	50	K. Cape / S.A. Malle
9/15/06		Inventory	-	-	50	K. Cape / S.A. Malle
9/17/06		Inventory	-	-	50	K. Cape / S.A. Malle
9/18/06		Inventory	-	-	50	K. Cape / S.A. Malle
9/25/06		Inventory	-	-	50	K. Cape / S.A. Malle
9/27/06		ISSUE	-	6	44	K. Cape / S.A. Malle

REVERSE, DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

Use Other Side First

1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION						
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		
10/3/06		Inventory	-	-	44	K. Cape / S.A. Malle
10/9/06		Inventory	-	-	44	K. Cape / S.A. Malle
10/16/06		ISSUE	-	4	40	K. Cape / S.A. Malle
10/16/06		Inventory	-	-	40	K. Cape / S.A. Malle
10-26-06		INVENTORY	-	-	40	D. Dorrell
11/2/06		Inventory	-	-	40	K. Cape / D. Dorrell
11/8/06		ISSUE	-	40	0	S.A. Malle / D. Dorrell

REVERSE, DA FORM 3020-R, AUG 89

MAGAZINE DATA CARD

Use Other Side First

Figure 7 - Explosive Vehicle Inspection Form

EXPLOSIVE VEHICLE INSPECTION FORM			
This form must be filled out for any vehicle carrying explosives, prior to loading.			
DRIVERS NAME <i>K. Capel</i>	LICENSE NUMBER <i>25146 JU</i>		
COMPANY <i>PARSONS</i>			
TYPE OF VEHICLE <i>F-350</i>	VEHICLE NUMBER		
INSPECTION DATE/TIME <i>6-7-06</i>	INSPECTOR <i>K. Capel</i>		
PART INSPECTED	SAT.	UNSAT.	COMMENT
HORN	<input checked="" type="checkbox"/>		
STEERING SYSTEM	<input checked="" type="checkbox"/>		
WIPERS	<input checked="" type="checkbox"/>		
MIRRORS	<input checked="" type="checkbox"/>		
FIRE EXTINGUISHERS (10 ABC, 2 EACH)	<input checked="" type="checkbox"/>		
REFLECTORS			<i>NA</i>
EMERGENCY FLASHERS	<input checked="" type="checkbox"/>		
LIGHTS	<input checked="" type="checkbox"/>		
ELECTRIC WIRING	<input checked="" type="checkbox"/>		
FUEL SYSTEM	<input checked="" type="checkbox"/>		
EXHAUST SYSTEM	<input checked="" type="checkbox"/>		
BRAKE SYSTEM	<input checked="" type="checkbox"/>		
SUSPENSION	<input checked="" type="checkbox"/>		
CARGO SPACE	<input checked="" type="checkbox"/>		
TIRES, WHEELS, RIMS	<input checked="" type="checkbox"/>		
TAILGATE	<input checked="" type="checkbox"/>		
TARPAULIN			<i>N/A</i>
INSPECTION RESULTS (INSPECTOR INITIAL)			
ACCEPTED:	<i>[Signature]</i>	<i>SAT</i>	<i>[Signature]</i>
REJECTED:			
REMARKS			
DRIVERS SIGNATURE/DATE		INSPECTORS SIGNATURE/DATE	
<i>[Signature] 6/7/06</i>		<i>[Signature] 6/7/06</i>	

Figure 4 – Explosives Usage Record

Explosive Usage Record			
Team Number: <u>UXO Alpha</u>		Date: <u>06/14/2006</u>	
Team Leader: <u>Joe DeLong</u>		Project Name: <u>Seneca Army Depot</u>	
Explosives Issued <u>UXO50</u>		Signature of Team Leader: <u>[Signature]</u>	
Work Areas & Grid Numbers: <u>SEAD 57</u>			
Item	Quantity	Lot Number	Checkers Initials
Fuze Igniters	3 ea	#153	KAC / ADM
Safety Fuze	30 FT	NONE / UNK	KAC / ADM
CAPS NON Elec	2 ea	#213	KAC / ADM
Det Cord 80 ft	6 FT	#142266F	KAC / ADM
4" Perforator	1 ea	#005222018	KAC / ADM
Explosives Expended <u>UXO50</u>		Signature of Team Leader: <u>[Signature]</u>	
Item	Quantity	Lot Number	Checkers Initials
Fuze Igniters	3 ea	#153	KAC / ADM
Safety Fuze	30 FT	NONE / UNK	KAC / ADM
Caps NON Elec	2 ea	#213	KAC / ADM
Det Cord 80 ft	6 FT	#142266F	KAC / ADM
4" Perforator	1 ea	#005222018	KAC / ADM
Explosives Returned <u>UXO50</u>		Signature of SUXOS: <u>[Signature]</u>	
Item	Quantity	Lot Number	Checkers Initials
<u>NONE</u>			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

8.0 Transportation

Transportation of MEC will comply with all Federal, state, and local regulations. Permits are not required under CERCLA for on-site or on Federal installation transportation of

Figure 4 – Explosives Usage Record

Explosive Usage Record			
Team Number: <i>UXO Team A</i>		Date: <i>6/21/06</i>	Project Name: <i>Sevent Army Depot</i>
Team Leader: <i>Joe Debra</i>		Work Areas & Grid Numbers: <i>SEAD 57</i>	
Explosives Issued <i>[Signature]</i>		Signature of Team Leader: <i>[Signature]</i>	
Item	Quantity	Lot Number	Checkers Initials
<i>Igniters - Fuse</i>	<i>4 EA</i>	<i># 153</i>	<i>[Initials]</i>
<i>Safety Fuse</i>	<i>19 FT</i>	<i>NONE UNK</i>	<i>[Initials]</i>
<i>Caps non Elec</i>	<i>4 ea</i>	<i># 213</i>	<i>[Initials]</i>
<i>Det Cord</i>	<i>30 FT</i>	<i>#142266F</i>	<i>[Initials]</i>
<i>Shape Charge/Perf</i>	<i>10 EA</i>	<i>0052220118</i>	<i>[Initials]</i>
<i>Boosters 1/2 lb</i>	<i>1 EA</i>	<i>BRLU Q12865</i>	<i>[Initials]</i>
Explosives Expended <i>[Signature]</i>		Signature of Team Leader: <i>[Signature]</i>	
Item	Quantity	Lot Number	Checkers Initials
<i>Igniters - Fuse</i>	<i>4 EA</i>	<i># 153</i>	<i>[Initials]</i>
<i>Safety Fuse</i>	<i>19 FT</i>	<i>NONE</i>	<i>[Initials]</i>
<i>Caps non Elec</i>	<i>4 EA</i>	<i># 213</i>	<i>[Initials]</i>
<i>Det Cord</i>	<i>30 FT</i>	<i>#142266F</i>	<i>[Initials]</i>
<i>Shape Charge/Perf</i>	<i>10 EA</i>	<i>0052220118</i>	<i>[Initials]</i>
<i>Boosters 1/2 lb</i>	<i>1 EA</i>	<i>BRLU Q12865</i>	<i>[Initials]</i>
Explosives Returned		Signature of SUXOS: <i>[Signature]</i>	
Item	Quantity	Lot Number	Checkers Initials
<i>NONE</i>			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

8.0 Transportation

Transportation of MEC will comply with all Federal, state, and local regulations. Permits are not required under CERCLA for on-site or on Federal installation transportation of

Figure 7 - Explosive Vehicle Inspection Form

EXPLOSIVE VEHICLE INSPECTION FORM			
This form must be filled out for any vehicle carrying explosives, prior to loading.			
DRIVERS NAME <u>MATT BUSEH</u>		LICENSE NUMBER <u>CYR-4576 / NY</u>	
COMPANY <u>USA ENVR. INC</u>			
TYPE OF VEHICLE <u>Ford A50</u>		VEHICLE NUMBER <u>TAX18W41NAB8671</u>	
INSPECTION DATE/TIME <u>6/21/06 / 0900</u>		INSPECTOR <u>MATT BUSEH Be De. 102A</u>	
PART INSPECTED	SAT.	UNSAT.	COMMENT
HORN	X		
STEERING SYSTEM	Y		
WIPERS	X		
MIRRORS	X		
FIRE EXTINGUISHERS (10 ABC, 2 EACH)	X		
REFLECTORS	X		
EMERGENCY FLASHERS	X		
LIGHTS	X		
ELECTRIC WIRING	X		
FUEL SYSTEM	X		
EXHAUST SYSTEM	X		
BRAKE SYSTEM	X		
SUSPENSION	X		
CARGO SPACE	X		
TIRES, WHEELS, RIMS	X		
TAILGATE	Y		
TARPAULIN	N/A	N/A	
INSPECTION RESULTS (INSPECTOR INITIAL)			
ACCEPTED: <u>MTB</u>			
REJECTED:			
REMARKS			
DRIVERS SIGNATURE/DATE		INSPECTORS SIGNATURE/DATE	
<u>Matt Buseh</u> 6/21/06		<u>[Signature]</u> 6/21/06	

Figure 4 – Explosives Usage Record

Explosive Usage Record			
Team Number: UXO Team A		Date: 6/21/06	
Team Leader: Joe Debra		Project Name: Select Army Depot	
Explosives Issued		Signature of Team Leader: [Signature]	
Item	Quantity	Lot Number	Checkers Initials
Igniters - Fuse	4 EA	# 153	[Initials]
Safety Fuse	19 FT	NONE UNK	[Initials]
Caps Non Elec	4 ea	# 213	[Initials]
Det Cord	30 FT	#142266F	[Initials]
Shape Charge/Parts	10 EA	005222018	[Initials]
Boosters 1/2 lb	1 EA	BRLU 012865	[Initials]
Explosives Expended		Signature of Team Leader: [Signature]	
Item	Quantity	Lot Number	Checkers Initials
Igniters - Fuse	4 EA	# 153	[Initials]
Safety Fuse	19 FT	NONE	[Initials]
Caps non Elec	4 EA	# 213	[Initials]
Det Cord	30 FT	#142266F	[Initials]
Shape Charge/Parts	10 EA	005222018	[Initials]
Boosters 1/2 lb	1 EA	BRLU 012865	[Initials]
Explosives Returned		Signature of SUBS: [Signature]	
Item	Quantity	Lot Number	Checkers Initials
NONE			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

8.0 Transportation

Transportation of MEC will comply with all Federal, state, and local regulations. Permits are not required under CERCLA for on-site or on Federal installation transportation of

Figure 4 – Explosives Usage Record

Explosive Usage Record			
Team Number: <i>JX0 T-A</i>		Date: <i>9/05/06</i>	Project Name: <i>SENECA Army Depot</i>
Team Leader: <i>D Garcia</i>		Work Areas & Grid Numbers: <i>SEAD 46</i>	
Explosives Issued		Signature of Team Leader: <i>[Signature]</i>	
Item	Quantity	Lot Number	Checkers Initials
<i>Igitor, Fuse</i>	<i>4 ea</i>	<i>153</i>	<i>KE</i>
<i>Safety Fuse</i>	<i>21 FT</i>	<i>NONE</i>	<i>KE</i>
<i>Detonators Non Elec</i>	<i>2 ea</i>	<i>213</i>	<i>KE</i>
<i>Cord Detonating 80</i>	<i>1 FT</i>	<i>142266 F</i>	<i>KE</i>
<i>Perforator</i>	<i>1 ea</i>	<i>0052220118</i>	<i>KE</i>
<i>LAST</i>		<i>ITEM</i>	
Explosives Expended		Signature of Team Leader: <i>[Signature]</i>	
Item	Quantity	Lot Number	Checkers Initials
<i>Igitor, Fuse</i>	<i>4 ea</i>	<i>153</i>	<i>KE</i>
<i>Safety Fuse</i>	<i>21 FT</i>	<i>NONE</i>	<i>KE</i>
<i>Detonators Non Elec</i>	<i>2 ea</i>	<i>213</i>	<i>KE</i>
<i>Cord Det 80</i>	<i>1 FT</i>	<i>142266 F</i>	<i>KE</i>
<i>Perforator</i>	<i>1 ea</i>	<i>0052220118</i>	<i>KE</i>
<i>LAST</i>		<i>ITEM</i>	
Explosives Returned		Signature of SUXOS: <i>[Signature]</i>	
Item	Quantity	Lot Number	Checkers Initials
(This section is crossed out with a large diagonal line)			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

8.0 Transportation

Transportation of MEC will comply with all Federal, state, and local regulations. Permits are not required under CERCLA for on-site or on Federal installation transportation of

Figure 7 - Explosive Vehicle Inspection Form

EXPLOSIVE VEHICLE INSPECTION FORM			
This form must be filled out for any vehicle carrying explosives, prior to loading.			
DRIVERS NAME <i>MATTHEW BUSCH</i>		LICENSE NUMBER <i>CYR-4576 / NY</i>	
COMPANY <i>UGA Environmental, Inc.</i>			
TYPE OF VEHICLE <i>Ford F150</i>		VEHICLE NUMBER <i>TRX18W41NAY8L71</i>	
INSPECTION DATE/TIME <i>5 sept 06 / 1030</i>		INSPECTOR <i>MATTHEW BUSCH</i>	
PART INSPECTED	SAT.	UNSAT.	COMMENT
HORN	X		
STEERING SYSTEM	X		
WIPERS	X		
MIRRORS	X		
FIRE EXTINGUISHERS (10 ABC, 2 EACH)	X		
REFLECTORS	X		
EMERGENCY FLASHERS	X		
LIGHTS	X		
ELECTRIC WIRING	X		
FUEL SYSTEM	X		
EXHAUST SYSTEM	X		
BRAKE SYSTEM	X		
SUSPENSION	X		
CARGO SPACE	X		
TIRES, WHEELS, RIMS	X		
TAILGATE	X		
TARPAULIN	X		
INSPECTION RESULTS (INSPECTOR INITIAL)			
ACCEPTED: <i>MB</i>			
REJECTED:			
REMARKS			
DRIVERS SIGNATURE/DATE		INSPECTORS SIGNATURE/DATE	
<i>Matthew Busch</i>		<i>Matthew Busch</i>	

Explosives Usage Record

Contract Number:

Team Number: *Team A*

Date: *9/27/06*

Project Name: *Seneca Army Depot*

Team Leader: *D. Parrel*

Work Area & Grid Numbers:

Explosives Issued		Signature Of Team Leader: <i>D. Parrel</i>	
Item	Quantity	Lot Number	Checkers Initials
Fuze Igniters	3 ea	153	<i>[Signature]</i>
Safety fuze	19 FT	N/A	<i>[Signature]</i>
NOA Elec Det	2 ea	213	<i>[Signature]</i>
Det Cord	64'	142266F	<i>[Signature]</i>
Shape Charge 4" Type C	12 ea	005222018	<i>[Signature]</i>
Booster 1/2 lb	9 ea	BrLu 012865	<i>[Signature]</i>

Explosives Expended		Signature Of Team Leader: <i>D. Parrel</i>	
Item	Quantity	Lot Number	Checkers Initials
Fuze Igniters	3 ea	153	<i>[Signature]</i>
Safety fuze	19 FT	N/A	<i>[Signature]</i>
NOA Elec Det	2 ea	213	<i>[Signature]</i>
Det Cord	64'	142266F	<i>[Signature]</i>
Shape Charge 4" Type C	12 ea	005222018	<i>[Signature]</i>
Booster 1/2 lb	9 ea	BrLu 012865	<i>[Signature]</i>

Explosives Returned		Signature Of QC Officer: <i>[Signature]</i>	
Item	Quantity	Lot Number	Checkers Initials
<i>[Signature]</i>			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

Explosives Usage Record

Contract Number:

Team Number: *Team A*

Date: *9/27/06*

Project Name: *Seneca Army Depot*

Team Leader: *D. Darrel*

Work Area & Grid Numbers:

Explosives Issued

Signature Of Team Leader: *D. Darrel*

Item	Quantity	Lot Number	Checkers Initials
<i>DeTs Elec</i>	<i>6 ea</i>	<i>EX9709010</i>	<i>[Signature]</i>
<i>LAST ITEM</i>			

Explosives Expended

Signature Of Team Leader: *D. Darrel*

Item	Quantity	Lot Number	Checkers Initials
<i>DeTs Elec</i>	<i>6 ea</i>	<i>EX 9709010</i>	<i>[Signature]</i>
<i>LAST ITEM</i>			

Explosives Returned

Signature Of QC Officer: *[Signature]*

Item	Quantity	Lot Number	Checkers Initials
<i>None</i>			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

Figure 7 - Explosive Vehicle Inspection Form

EXPLOSIVE VEHICLE INSPECTION FORM			
This form must be filled out for any vehicle carrying explosives, prior to loading.			
DRIVERS NAME <i>Matt Busch</i>		LICENSE NUMBER <i>78330 JT /NY</i>	
COMPANY <i>USA Envic.</i>			
TYPE OF VEHICLE <i>Ford F-150</i>		VEHICLE NUMBER <i>1FTVX145D5NA96354</i>	
INSPECTION DATE/TIME <i>27 Sept 06 / 0710</i>		INSPECTOR <i>Matt Busch</i>	
PART INSPECTED	SAT.	UNSAT.	COMMENT
HORN	X		
STEERING SYSTEM	X		
WIPERS	X		
MIRRORS	X		
FIRE EXTINGUISHERS (10 ABC, 2 EACH)	X		
REFLECTORS	X		
EMERGENCY FLASHERS	X		
LIGHTS	X		
ELECTRIC WIRING	X		
FUEL SYSTEM	X		
EXHAUST SYSTEM	X		
BRAKE SYSTEM	X		
SUSPENSION	X		
CARGO SPACE	X		
TIRES, WHEELS, RIMS	X		
TAILGATE	X		
TARPAULIN	X		
INSPECTION RESULTS (INSPECTOR INITIAL)			
ACCEPTED: <i>MBS</i>			
REJECTED:			
REMARKS			
DRIVERS SIGNATURE/DATE		INSPECTORS SIGNATURE/DATE	
<i>Matt Busch</i>		<i>Matt Busch</i>	
<i>27 Sept 06</i>		<i>27 Sept 06</i>	

Explosives Usage Record

Contract Number:

Team Number: DAN/T-A Date: 10/16/06

Project Name: Seneca Army Depot

Team Leader: Dan Dorru Work Area & Grid Numbers: DEMO AREA

Explosives Issued		Signature Of Team Leader: <u>[Signature]</u>	
Item	Quantity	Lot Number	Checkers Initials
DET Card 80gr	25 FT	142266F	<u>MC</u>
Perforators 4"	7 ea	0052220118	<u>MC</u>
Boosters 1/2"	9 ea	ARLU 012865	<u>MC</u>
Caps Elec NON-D	4 ea	EX 9709010	<u>MC</u>
<u>[Signature]</u>			

Explosives Expended		Signature Of Team Leader: <u>[Signature]</u>	
Item	Quantity	Lot Number	Checkers Initials
DET Card 80gr	25 FT	142266F	<u>MC</u>
Perforators 4"	7 ea	0052220118	<u>MC</u>
Boosters 1/2"	9 ea	BILU 012865	<u>MC</u>
Caps Elec NON-D	4 ea	EX 9709010	<u>MC</u>
<u>[Signature]</u>			

Explosives Returned		Signature Of QC Officer:	
Item	Quantity	Lot Number	Checkers Initials
<u>[Signature]</u>			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

Figure 7 - Explosive Vehicle Inspection Form

EXPLOSIVE VEHICLE INSPECTION FORM			
This form must be filled out for any vehicle carrying explosives, prior to loading.			
DRIVERS NAME <i>MATT BOSCH</i>	LICENSE NUMBER <i>78330 JT /NY</i>		
COMPANY <i>USA Environmental, Inc.</i>			
TYPE OF VEHICLE <i>Ford F-150</i>	VEHICLE NUMBER <i>1FTVX14585NA06354</i>		
INSPECTION DATE/TIME <i>16 Oct 06 / 0715</i>	INSPECTOR <i>MATT BOSCH</i>		
PART INSPECTED	SAT.	UNSAT.	COMMENT
HORN	X		
STEERING SYSTEM	X		
WIPERS	X		
MIRRORS	X		
FIRE EXTINGUISHERS (10 ABC, 2 EACH)	X		
REFLECTORS	X		
EMERGENCY FLASHERS	X		
LIGHTS	X		
ELECTRIC WIRING	X		
FUEL SYSTEM	X		
EXHAUST SYSTEM	X		
BRAKE SYSTEM	X		
SUSPENSION	X		
CARGO SPACE	X		
TIRES, WHEELS, RIMS	X		
TAILGATE	X		
TARPAULIN	N/A		
INSPECTION RESULTS (INSPECTOR INITIAL)			
ACCEPTED: <i>MBS</i> <i>[Signature]</i>			
REJECTED:			
REMARKS			
DRIVERS SIGNATURE/DATE		INSPECTORS SIGNATURE/DATE	
<i>Matt Bosch</i> <i>16 Oct 06</i>		<i>Matt Bosch</i> <i>16 Oct 06</i>	

Explosives Usage Record

Contract Number:

Team Number: DAN/T-A Date: 10/16/06

Project Name: Seveta Army Depot

Team Leader: DAN Dorrell Work Area & Grid Numbers: DEMO AREA

Explosives Issued

Signature Of Team Leader: [Signature]

Item	Quantity	Lot Number	Checkers Initials
Det Cord 80gr	25 FT	142266F	[Initials]
Perforators 4"	7 ea	0052220118	[Initials]
Boosters 1/2"	9 ea	PRU 012865	[Initials]
Caps Elec NON-D	4 ea	EX 9709010	[Initials]
<u>[Signature]</u>			

Explosives Expended

Signature Of Team Leader: [Signature]

Item	Quantity	Lot Number	Checkers Initials
Det Cord 80gr	25 FT	142266F	[Initials]
Perforators 4"	7 ea	0052220118	[Initials]
Boosters 1/2"	9 ea	BiLU 012865	[Initials]
Caps Elec NON-D	4 ea	EX 9709010	[Initials]
<u>[Signature]</u>			

Explosives Returned

Signature Of QC Officer:

Item	Quantity	Lot Number	Checkers Initials
<u>[Signature]</u>			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

Figure 7 - Explosive Vehicle Inspection Form

EXPLOSIVE VEHICLE INSPECTION FORM			
This form must be filled out for any vehicle carrying explosives, prior to loading.			
DRIVERS NAME	D. DORRELL	LICENSE NUMBER	78330 JT (MS)
COMPANY	USAE		
TYPE OF VEHICLE	F150	VEHICLE NUMBER	
INSPECTION DATE/TIME	0710 11-7-2006	INSPECTOR	D. DORRELL / P. MATTER
PART INSPECTED	SAT.	UNSAT.	COMMENT
HORN	✓		
STEERING SYSTEM	✓		
WIPERS	✓		
MIRRORS	✓		
FIRE EXTINGUISHERS (10 ABC, 2 EACH)	✓		
REFLECTORS	✓		
EMERGENCY FLASHERS	✓		
LIGHTS	✓		
ELECTRIC WIRING	✓		
FUEL SYSTEM	✓		
EXHAUST SYSTEM	✓		
BRAKE SYSTEM	✓		
SUSPENSION	✓		
CARGO SPACE	✓		
TIRES, WHEELS, RIMS	✓		
TAILGATE	✓		
TARPAULIN	N/A		
INSPECTION RESULTS (INSPECTOR INITIAL)			
ACCEPTED:	DDP / PM		
REJECTED:			
REMARKS			
DRIVERS SIGNATURE/DATE		INSPECTORS SIGNATURE/DATE	
D. Dorrell		P. Matter	
11-7-06		11/7/2006	

Explosives Usage Record

Contract Number:

Team Number: *Team A* Date: *11-7-06* Project Name: *SEAD*

Team Leader: *DAN DORRILL* Work Area & Grid Numbers: *Davis Area*

Explosives Issued Signature Of Team Leader: *[Signature]*

Item	Quantity	Lot Number	Checkers Initials
<i>Caps Non Elec</i>	<i>94 ea</i>	<i>213</i>	<i>KL</i>
<i>Det Cord</i>	<i>164'</i>	<i>142266 F</i>	<i>KL</i>
<i>Shape Chrg</i>	<i>20 ea</i>	<i>005222018</i>	<i>KL</i>
<i>Boosters 1/2 lb</i>	<i>46 ea</i>	<i>Brlu 012865</i>	<i>KL</i>
<i>Caps Elec</i>	<i>40 ea</i>	<i>EX 9709010</i>	<i>KL</i>

Explosives Expended Signature Of Team Leader: *[Signature]*

Item	Quantity	Lot Number	Checkers Initials
<i>Caps Non Elec</i>	<i>94 ea</i>	<i>213</i>	<i>KL</i>
<i>Det Cord</i>	<i>164'</i>	<i>142266 F</i>	<i>KL</i>
<i>Shape Charge</i>	<i>20 ea</i>	<i>142266 F</i>	<i>KL</i>
<i>Boosters 1/2 lb</i>	<i>46 ea</i>	<i>BRLU 012865</i>	<i>KL</i>
<i>Caps Elec</i>	<i>40 ea</i>	<i>EX 9709010</i>	<i>KL</i>

Explosives Returned Signature Of QC Officer: *[Signature]*

Item	Quantity	Lot Number	Checkers Initials
<div style="position: relative; width: 100%; height: 100%;"> </div>			

The signatures in each section of this document indicate that the items listed in that section were in fact issued, expended, or returned to storage and that the quantities listed were verified through a physical count.

APPENDIX E
ANALYTICAL DATA FROM SITE INVESTIGATIONS

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A1	GR-A2-A	GR-A2-B	GR-A3	GR-A4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011001	007R011002	007R011003	007R011004	007R011005
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	16 J	14 J	12 J	61	50
Cyclohexane	UG/KG	1.5	2%		0	1	42	6.6 U	8 U	1.5 J	7.3 U	6.7 U
Methyl Acetate	UG/KG	11	2%		0	1	42	13 U	16 U	19 U	15 U	13 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	13 U	16 U	19 U	15 U	13 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	13 U	16 U	19 U	11 J	3.4 J
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	1.5 J	1.6 J	1.7 J	1.4 J	1.4 J
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Toluene	UG/KG	8.7	26%	700	0	11	42	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	450 U	480 U	500 U	470 U	430 U
Benzaldehyde	UG/KG	420	2%		0	1	42	450 U	480 U	500 U	470 U	430 U
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	14500	16100	18100	15600	13400
Arsenic	MG/KG	9.3	100%	13	0	42	42	3.4	3.8	4.4	3.2	9.3
Barium	MG/KG	180	100%	350	0	42	42	112	119	164	103	84.8
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.02 U	0.85	0.88	0.68 J	0.57 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.08 J	0.09 J	0.11 J	0.09 J	0.04 U
Calcium	MG/KG	11100	100%		0	42	42	3510	3630	2700	2770	2250
Chromium	MG/KG	27.7	100%		0	42	42	22	24.9	27.7	21	17.8
Cobalt	MG/KG	23.5	100%		0	42	42	9.4	9.1	23.5	8.2	11.6
Copper	MG/KG	23.1	100%	50	0	42	42	17	19.5	15.7	13.8	15.1
Iron	MG/KG	32300	100%		0	42	42	22100	24600	32300	23000	21600
Lead	MG/KG	38.5	100%	63	0	42	42	24.9	24.2	28.2	20.2	21.7
Magnesium	MG/KG	5230	100%		0	42	42	3600	3970	3980	3510	3110
Manganese	MG/KG	1880	100%	1600	1	42	42	641	603	1880	356	312
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.06	0.06	0.06	0.05	0.05
Nickel	MG/KG	31.9	100%	30	3	42	42	23.6	25	27.3	18.7	22
Potassium	MG/KG	2370	100%		0	42	42	1590	1920	2060	1400	1160
Selenium	MG/KG	4.4	100%	3.9	2	42	42	1.9	2.1	3.1	1.8	1.7
Sodium	MG/KG	54.7	64%		0	27	42	136 U	141 U	153 U	140 U	126 U
Vanadium	MG/KG	33.5	100%		0	42	42	26.9	31.1	33.5	29.4	25.3
Zinc	MG/KG	110	100%	109	1	42	42	74.3	88.7	105	72.8	64.7
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	6.87 U	8.27	8.09	7.13 U	6.53 U
Percent Solids	%	79.3	100%		0	42	42	72.8	68.9	65.5	70.1	76.6

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

								GR	GR	GR	GR	GR
								GR-A4-B	GR-B1	GR-B2-A	GR-B2-B	GR-B3-A
								SOIL	SOIL	SOIL	SOIL	SOIL
								007R011006	007R011013	007R011011	007R011012	007R011009
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
								SA	SA	SA	SA	SA
								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	55	110	42	54	48
Cyclohexane	UG/KG	1.5	2%		0	1	42	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Methyl Acetate	UG/KG	11	2%		0	1	42	19 U	15 UJ	14 UJ	16 UJ	15 UJ
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	19 U	15 U	14 U	16 U	15 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	4.4 J	9.8 J	5.6 J	6.7 J	3.5 J
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	1.9 J	1.4 J	1.2 J	1.8 J	1.6 J
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Toluene	UG/KG	8.7	26%	700	0	11	42	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	510 U	460 U	450 U	480 U	480 U
Benzaldehyde	UG/KG	420	2%		0	1	42	510 U	460 UJ	450 U	480 U	480 U
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	17200	15800	15900	16600	14900
Arsenic	MG/KG	9.3	100%	13	0	42	42	3.3	2.6	4.6	3.5	2.8
Barium	MG/KG	180	100%	350	0	42	42	148	117	94.4	109	106
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.97	0.71	0.74	0.81	0.67 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.14 J	0.07 J	0.05 U	0.1 J	0.05 U
Calcium	MG/KG	11100	100%		0	42	42	3830	2920	2000	2790	3350
Chromium	MG/KG	27.7	100%		0	42	42	24.2	21.7	21.9	23.5	20
Cobalt	MG/KG	23.5	100%		0	42	42	8.1	9.1	11.3	10.2	6.8 J
Copper	MG/KG	23.1	100%	50	0	42	42	16.6	15	14.4	15	16.1
Iron	MG/KG	32300	100%		0	42	42	24800	20300	26800	22200	20600
Lead	MG/KG	38.5	100%	63	0	42	42	20.7	20.6	25.2	20.9	18.8
Magnesium	MG/KG	5230	100%		0	42	42	4130	3520	3480	3670	3400
Manganese	MG/KG	1880	100%	1600	1	42	42	582	546	647	610	255
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.08	0.05	0.04	0.05	0.05
Nickel	MG/KG	31.9	100%	30	3	42	42	23	20.3	18.7	22.9	17.5
Potassium	MG/KG	2370	100%		0	42	42	1880	1740	1660	2010	1980
Selenium	MG/KG	4.4	100%	3.9	2	42	42	2.4	1.7	2.5	1.9	1.7
Sodium	MG/KG	54.7	64%		0	27	42	151 U	139 U	135 U	139 U	147 U
Vanadium	MG/KG	33.5	100%		0	42	42	30.7	29.1	32.3	31.6	28.1
Zinc	MG/KG	110	100%	109	1	42	42	80.6	82.3	74.2	95.2	65.8
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	7.79 U	7.17	7.8	9.06	7.34 U
Percent Solids	%	79.3	100%		0	42	42	64.2	71.1	73.1	68.4	68.1

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-B3-B	GR-B4-A	GR-B4-B	GR-C1	GR-C2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011010	007R011007	007R011008	007R011014	007R011015
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	52	71 J	36	100	98
Cyclohexane	UG/KG	1.5	2%		0	1	42	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Methyl Acetate	UG/KG	11	2%		0	1	42	14 UJ	28 UJ	12 U	16 UJ	14 UJ
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	14 U	28 UJ	12 U	16 U	14 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	5.8 J	5.4 J	2.1 J	19	7.9 J
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	1.8 J	4.6 J	1.2 J	1.7 J	1.5 J
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Toluene	UG/KG	8.7	26%	700	0	11	42	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	450 U	510 U	420 U	480 U	450 U
Benzaldehyde	UG/KG	420	2%		0	1	42	450 U	510 U	420 U	480 UJ	450 UJ
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	14400	19600	15100	16300	13700
Arsenic	MG/KG	9.3	100%	13	0	42	42	3.3	3.4	3	4	3.5
Barium	MG/KG	180	100%	350	0	42	42	98.9	152	87.6	122	74.6
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.7	0.91	0.68	0.87	0.62 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.07 J	0.18 J	0.04 J	0.12 J	0.05 U
Calcium	MG/KG	11100	100%		0	42	42	2940	4370	3310	11100	1640
Chromium	MG/KG	27.7	100%		0	42	42	20.2	23.7	21.1	25	20.6
Cobalt	MG/KG	23.5	100%		0	42	42	7.8	6.8 J	9	11.5	10.4
Copper	MG/KG	23.1	100%	50	0	42	42	14.2	16	18.2	22.2	19.1
Iron	MG/KG	32300	100%		0	42	42	21100	21100	21900	24400	22100
Lead	MG/KG	38.5	100%	63	0	42	42	20	20.6	19.7	22.9	21.3
Magnesium	MG/KG	5230	100%		0	42	42	3580	4160	3980	5230	3490
Manganese	MG/KG	1880	100%	1600	1	42	42	387	277	289	665	381
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.05	0.08	0.04	0.06	0.05
Nickel	MG/KG	31.9	100%	30	3	42	42	18.7	20.2	23.6	29.5	23.2
Potassium	MG/KG	2370	100%		0	42	42	1800	2070	1560	2120	1480
Selenium	MG/KG	4.4	100%	3.9	2	42	42	1.5	1.4 J	1.8	1.9	3.8
Sodium	MG/KG	54.7	64%		0	27	42	129 U	147 U	125 U	141 U	132 U
Vanadium	MG/KG	33.5	100%		0	42	42	27.5	32.7	27.3	29.1	25
Zinc	MG/KG	110	100%	109	1	42	42	76.1	95.7	72	94.2	70
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	7.07	7.69	6.44 U	7.41	8.21
Percent Solids	%	79.3	100%		0	42	42	73.6	65	77.7	68.8	73.1

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-C2-B	GR-C3-A	GR-C3-B	GR-D1	GR-D2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011016	007R011017	007R011018	007R011026	007R011024
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	50	29.6 U	130	65	280
Cyclohexane	UG/KG	1.5	2%		0	1	42	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Methyl Acetate	UG/KG	11	2%		0	1	42	13 UJ	15 UJ	19 UJ	15 U	20 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	13 U	15 U	19 U	15 U	20 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	6.6 J	4.2 J	9.4 J	5.5 J	25
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	1.3 J	1.4 J	2.1 J	1.3 J	10 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Toluene	UG/KG	8.7	26%	700	0	11	42	6.7 U	7.4 U	9.3 U	7.4 U	0.91 J
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	420 U	480 U	470 U	470 U	480 U
Benzaldehyde	UG/KG	420	2%		0	1	42	420 U	480 U	470 U	470 U	480 UJ
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	15500	15500	14700	14800	15400
Arsenic	MG/KG	9.3	100%	13	0	42	42	3.6	5	4.4	3.2	4.2
Barium	MG/KG	180	100%	350	0	42	42	124	111	95.3	84.6	93.2
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.79	0.75	0.77	0.66 J	0.74 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.08 J	0.05 U	0.05 U	0.05 U	0.05 U
Calcium	MG/KG	11100	100%		0	42	42	3370 J	2430 J	3210 J	2450	3150
Chromium	MG/KG	27.7	100%		0	42	42	21.1	21.2	22.1	21.8	24
Cobalt	MG/KG	23.5	100%		0	42	42	8.9	7.9	10	9.3	10.4
Copper	MG/KG	23.1	100%	50	0	42	42	17.3	17	18.7	15.8	21.9
Iron	MG/KG	32300	100%		0	42	42	20800	23200	23100	21600	24200
Lead	MG/KG	38.5	100%	63	0	42	42	17.3	16.7	26.7	22.8	21.3
Magnesium	MG/KG	5230	100%		0	42	42	3670	3710	4130	3890	4500
Manganese	MG/KG	1880	100%	1600	1	42	42	642 J	253 J	361 J	398	359
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.05	0.06	0.05	0.05	0.05
Nickel	MG/KG	31.9	100%	30	3	42	42	20.2	19.7	25	23.4	28.4
Potassium	MG/KG	2370	100%		0	42	42	1550	1840	1590	1710	1740
Selenium	MG/KG	4.4	100%	3.9	2	42	42	3.8	4.1	3.9	1.6 J	3.9
Sodium	MG/KG	54.7	64%		0	27	42	50.9 J	47.3 J	42.2 J	37.1 J	33.8 J
Vanadium	MG/KG	33.5	100%		0	42	42	28.6	29.1	27.5	26.2	27.2
Zinc	MG/KG	110	100%	109	1	42	42	69.6	71	86.3	77.4	87.6
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	9.08	7.32 U	7.1 U	7.08 U	8.2
Percent Solids	%	79.3	100%		0	42	42	79.3	68.3	70.4	70.6	68.3

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D2-B	GR-D3-A	GR-D3-A	GR-D3-B	GR-D4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011025	007R011021	007R011022	007R011023	007R011019
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/12/06	12/13/06	12/13/06	12/12/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vaolatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	60	59	150	51	200
Cyclohexane	UG/KG	1.5	2%		0	1	42	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Methyl Acetate	UG/KG	11	2%		0	1	42	13 U	15 UJ	17 U	15 U	16 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	13 U	15 U	17 U	15 U	16 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	4.8 J	5.9 J	18	4.8 J	14 J
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	1.2 J	1.5 J	1.8 J	1.3 J	1.3 J
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Toluene	UG/KG	8.7	26%	700	0	11	42	6.3 U	7.7 U	8.5 U	7.7 U	3.8 J
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	430 U	490 U	500 U	460 U	460 U
Benzaldehyde	UG/KG	420	2%		0	1	42	430 U	490 U	500 U	460 U	460 U
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	14000	13100	17200	14600	10500
Arsenic	MG/KG	9.3	100%	13	0	42	42	3.5	3.7	3.2	3.5	2.7
Barium	MG/KG	180	100%	350	0	42	42	77.1	104	149	112	61.9
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.64 J	0.71	0.98 J	0.76 J	0.45 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.04 U	0.05 U	0.2 J	0.08 J	0.05 U
Calcium	MG/KG	11100	100%		0	42	42	1480	2340 J	4520	3410	2130 J
Chromium	MG/KG	27.7	100%		0	42	42	20.8	20.1	26.6	21.1	13.7
Cobalt	MG/KG	23.5	100%		0	42	42	10.2	13	10.7	9.2	5.2 J
Copper	MG/KG	23.1	100%	50	0	42	42	14.9	16.6	23.1	16.5	11.6
Iron	MG/KG	32300	100%		0	42	42	20300	21000	26800	21500	13700
Lead	MG/KG	38.5	100%	63	0	42	42	21	19.9	25.9	22.3	13.6
Magnesium	MG/KG	5230	100%		0	42	42	3540	3290	4820	3920	2370
Manganese	MG/KG	1880	100%	1600	1	42	42	480	693 J	532	339	230 J
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.04	0.06	0.08	0.05	0.05 J
Nickel	MG/KG	31.9	100%	30	3	42	42	22.6	21	31.9	23.5	11.6
Potassium	MG/KG	2370	100%		0	42	42	1410	1160	2310	1740	962
Selenium	MG/KG	4.4	100%	3.9	2	42	42	2 J	3.8	2.5 J	2.1 J	2.7
Sodium	MG/KG	54.7	64%		0	27	42	32.6 J	34.6 J	53.4 J	42.3 J	32.6 J
Vanadium	MG/KG	33.5	100%		0	42	42	24.6	23.9	29.5	26.4	20.5
Zinc	MG/KG	110	100%	109	1	42	42	69.4	63.9	102	77.1	51
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	7.42	7.36 U	10.6	7.04 U	6.99 U
Percent Solids	%	79.3	100%		0	42	42	76.8	67.9	66.1	71	71.5

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION				GR	GR	GR	GR	GR				
LOCATION ID				GR-D4-B	GR-E1	GR-E2-A	GR-E2-B	GR-E3				
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID				007R011020	007R011027	007R011028	007R011029	007R011030				
TOP OF SAMPLE				0	0	0	0	0				
BOTTOM OF SAMPLE				0.2	0.2	0.2	0.2	0.2				
SAMPLE DATE				12/12/06	12/13/06	12/13/06	12/13/06	12/13/06				
QC CODE				SA	SA	SA	SA	SA				
STUDY ID				RA	RA	RA	RA	RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	64	100	200	46	72
Cyclohexane	UG/KG	1.5	2%		0	1	42	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Methyl Acetate	UG/KG	11	2%		0	1	42	14 U	15 U	15 U	17 U	18 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	14 U	15 U	15 U	17 U	18 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	11 J	6.5 J	14 J	4.3 J	18 U
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	1.3 J	1 J	1.3 J	1.2 J	1.4 J
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	6.8 U	2.4 J	7.6 U	8.3 U	9 U
Toluene	UG/KG	8.7	26%	700	0	11	42	6.8 U	0.74 J	2 J	8.3 U	9 U
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	430 U	460 U	480 U	490 U	490 U
Benzaldehyde	UG/KG	420	2%		0	1	42	430 U	460 U	480 U	490 U	490 U
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	15700	14400	15500	17300	18600
Arsenic	MG/KG	9.3	100%	13	0	42	42	4.9	3.3	3.4	4.3	3.8
Barium	MG/KG	180	100%	350	0	42	42	119	116	92.8	148	155
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.83	0.77 J	0.79 J	0.99 J	1.1 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.04 U	0.12 J	0.13 J	0.25 J	0.22 J
Calcium	MG/KG	11100	100%		0	42	42	2310 J	3360	2340	3250	4240
Chromium	MG/KG	27.7	100%		0	42	42	23.3	20.1	22.9	24.6	26.3
Cobalt	MG/KG	23.5	100%		0	42	42	16.2	8.7	10.6	13.6	9.9
Copper	MG/KG	23.1	100%	50	0	42	42	18.7	16.9	21.9	19	20.5
Iron	MG/KG	32300	100%		0	42	42	24200	20000	22800	26100	25100
Lead	MG/KG	38.5	100%	63	0	42	42	21.5	21.7	22.6	26	23.8
Magnesium	MG/KG	5230	100%		0	42	42	3760	3590	4280	4260	4440
Manganese	MG/KG	1880	100%	1600	1	42	42	980 J	471	412	1220	672
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.06	0.06	0.05	0.06	0.08
Nickel	MG/KG	31.9	100%	30	3	42	42	24.8	22.4	28.6	27.2	27.9
Potassium	MG/KG	2370	100%		0	42	42	1380	1720	2260	2120	2370
Selenium	MG/KG	4.4	100%	3.9	2	42	42	4.4	1.9 J	1.9 J	2.5 J	2.5 J
Sodium	MG/KG	54.7	64%		0	27	42	39.2 J	43.4 J	33 J	46.9 J	51.5 J
Vanadium	MG/KG	33.5	100%		0	42	42	28.4	26.1	27.2	32	32.9
Zinc	MG/KG	110	100%	109	1	42	42	72.4	76.6	90.6	82.1	110
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	6.83	7.8	7.3 U	7.44 U	9.01
Percent Solids	%	79.3	100%		0	42	42	76.1	71.8	68.5	67.2	67.7

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-E4	GR-F1	GR-F2	GR-F3	GR-F4
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011031	007R011035	007R011034	007R011033	007R011032
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vaolatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	140	240	130	76	210
Cyclohexane	UG/KG	1.5	2%		0	1	42	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Methyl Acetate	UG/KG	11	2%		0	1	42	11 J	19 U	13 U	15 U	14 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	14 U	8.1 J	13 U	15 U	14 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	12 J	63	13 J	25	13 J
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	0.92 J	9.6 U	6.7 U	7.3 U	1.4 J
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	1.1 J	9.6 U	6.7 U	7.3 U	7.1 U
Toluene	UG/KG	8.7	26%	700	0	11	42	0.54 J	1.1 J	6.7 U	7.3 U	8.7
Semivolatle Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	430 U	500 U	440 U	460 U	450 U
Benzaldehyde	UG/KG	420	2%		0	1	42	430 U	500 U	440 U	460 U	450 U
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	16300	15300	14800	16600	14300
Arsenic	MG/KG	9.3	100%	13	0	42	42	3.9	2.4	3.6	3.1	4.5
Barium	MG/KG	180	100%	350	0	42	42	86.2	110	60.5	128	99.5
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.68 J	0.75 J	0.6 J	0.81 J	0.71 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.04 U	0.08 J	0.05 U	0.11 J	0.1 J
Calcium	MG/KG	11100	100%		0	42	42	1530	3580	1900	2900	2130
Chromium	MG/KG	27.7	100%		0	42	42	21.4	22.5	22.4	23.1	19.3
Cobalt	MG/KG	23.5	100%		0	42	42	11.3	9.4	8.6	12.1	13.7
Copper	MG/KG	23.1	100%	50	0	42	42	13.2	17.2	18.4	15.6	13
Iron	MG/KG	32300	100%		0	42	42	23400	20800	21100	21700	23200
Lead	MG/KG	38.5	100%	63	0	42	42	21.5	24.7	22.8	22	23.1
Magnesium	MG/KG	5230	100%		0	42	42	3660	3820	3970	3880	3070
Manganese	MG/KG	1880	100%	1600	1	42	42	648	553	217	818	1180
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.04	0.06	0.04 J	0.05	0.05
Nickel	MG/KG	31.9	100%	30	3	42	42	20.1	24.9	24.2	23.7	18
Potassium	MG/KG	2370	100%		0	42	42	1400	2370	1860	1930	1470
Selenium	MG/KG	4.4	100%	3.9	2	42	42	2.1 J	1.5 J	1.9 J	1.7 J	2.2 J
Sodium	MG/KG	54.7	64%		0	27	42	36.3 J	41.9 J	35.2 J	45.3 J	40.3 J
Vanadium	MG/KG	33.5	100%		0	42	42	29.9	26.3	27	29.4	30.5
Zinc	MG/KG	110	100%	109	1	42	42	74	94.9	78.1	77	58.7
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	7.36	7.99	6.66 U	9.27	6.87 U
Percent Solids	%	79.3	100%		0	42	42	76.1	66.3	75.1	71.2	72.8

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-G1	GR-G2	GR-G2	GR-G3-A	GR-G3-B
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011036	007R011041	007R011037	007R011038	007R011039
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vaolatile Organic Compounds												
Acetone	UG/KG	290	98%	50	32	41	42	110	290 J	75 J	200	160
Cyclohexane	UG/KG	1.5	2%		0	1	42	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Methyl Acetate	UG/KG	11	2%		0	1	42	14 U	15 U	14 U	16 U	17 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	14 U	15 U	14 U	16 U	17 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	24	27 J	5.5 J	29	13 J
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	0.7 J	7.6 U	7.2 U	8.2 U	8.4 U
Toluene	UG/KG	8.7	26%	700	0	11	42	1.2 J	0.8 J	7.2 U	0.59 J	8.4 U
Semivolatile Organic Compounds												
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	440 U	430 J	450 U	470 U	480 U
Benzaldehyde	UG/KG	420	2%		0	1	42	440 U	450 U	450 U	420 J	480 U
Metals												
Aluminum	MG/KG	19600	100%		0	42	42	15000	16400	15900	13200	16200
Arsenic	MG/KG	9.3	100%	13	0	42	42	2.5	3.6	3.3	2.8	3.2
Barium	MG/KG	180	100%	350	0	42	42	87.4	86	84.6	97.6	180
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.68 J	0.76 J	0.75 J	0.58 J	0.95 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.05 U	0.05 U	0.05 J	0.05 U	0.24 J
Calcium	MG/KG	11100	100%		0	42	42	1800	2090	2250	3120	4420
Chromium	MG/KG	27.7	100%		0	42	42	21.4	24.4	23.9	16.7	23.1
Cobalt	MG/KG	23.5	100%		0	42	42	8.9	13.9	13.7	5 J	9.4
Copper	MG/KG	23.1	100%	50	0	42	42	16.4	21.4	21	12.1	20.8
Iron	MG/KG	32300	100%		0	42	42	20000	24300	23800	15900	22400
Lead	MG/KG	38.5	100%	63	0	42	42	20.7	27	26.3	18.2	38.5
Magnesium	MG/KG	5230	100%		0	42	42	3650	4380	4300	2940	3940
Manganese	MG/KG	1880	100%	1600	1	42	42	521	606	605	133	564
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.05	0.05	0.04 J	0.05	0.08
Nickel	MG/KG	31.9	100%	30	3	42	42	22.7	31.1	30.5	13.9	24.9
Potassium	MG/KG	2370	100%		0	42	42	1570	2030	1970	1230	1900
Selenium	MG/KG	4.4	100%	3.9	2	42	42	1.6 J	2 J	1.6 J	1.4 J	2.2 J
Sodium	MG/KG	54.7	64%		0	27	42	39.1 J	32.2 J	32.7 J	46.9 J	54.7 J
Vanadium	MG/KG	33.5	100%		0	42	42	25.2	27.3	26.5	24	29.2
Zinc	MG/KG	110	100%	109	1	42	42	75.2	93	92.8	55.4	109
Other Analytes												
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	6.68 U	8.83	8.34	8.88	9.52
Percent Solids	%	79.3	100%		0	42	42	74.8	73.6	73.1	69.8	68.3

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 1A
Grenade Range Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Cleanup Level (1)	Number of Exceedances	Number of Times Detected	Number of Sample Analyses	Value (Q)	Value (Q)
Volatile Organic Compounds									
Acetone	UG/KG	290	98%	50	32	41	42	150	130
Cyclohexane	UG/KG	1.5	2%		0	1	42	6.7 U	6.9 U
Methyl Acetate	UG/KG	11	2%		0	1	42	13 U	14 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	42	13 U	14 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	38	42	11 J	9.5 J
Methylene chloride	UG/KG	4.6	74%	50	0	31	42	6.7 U	6.9 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	42	6.7 U	0.55 J
Toluene	UG/KG	8.7	26%	700	0	11	42	6.7 U	0.63 J
Semivolatile Organic Compounds									
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	42	440 U	450 U
Benzaldehyde	UG/KG	420	2%		0	1	42	440 U	450 U
Metals									
Aluminum	MG/KG	19600	100%		0	42	42	12200	14000
Arsenic	MG/KG	9.3	100%	13	0	42	42	2.8	3
Barium	MG/KG	180	100%	350	0	42	42	84.5	88.2
Beryllium	MG/KG	1.1	98%	7.2	0	41	42	0.55 J	0.69 J
Cadmium	MG/KG	0.25	57%	2.5	0	24	42	0.05 J	0.05 U
Calcium	MG/KG	11100	100%		0	42	42	2370	3020
Chromium	MG/KG	27.7	100%		0	42	42	15.9	20.2
Cobalt	MG/KG	23.5	100%		0	42	42	10.5	8.6
Copper	MG/KG	23.1	100%	50	0	42	42	11.8	15.9
Iron	MG/KG	32300	100%		0	42	42	16400	20900
Lead	MG/KG	38.5	100%	63	0	42	42	17.1	20
Magnesium	MG/KG	5230	100%		0	42	42	2790	3700
Manganese	MG/KG	1880	100%	1600	1	42	42	563	269
Mercury	MG/KG	0.08	100%	0.18	0	42	42	0.04	0.05
Nickel	MG/KG	31.9	100%	30	3	42	42	14.7	21.7
Potassium	MG/KG	2370	100%		0	42	42	1090	1500
Selenium	MG/KG	4.4	100%	3.9	2	42	42	1.3 J	1.8 J
Sodium	MG/KG	54.7	64%		0	27	42	35.6 J	42.9 J
Vanadium	MG/KG	33.5	100%		0	42	42	23	24.8
Zinc	MG/KG	110	100%	109	1	42	42	52.4	64.5
Other Analytes									
Nitrate Nitrogen	MG/KG	10.6	57%		0	24	42	6.69 U	8.08
Percent Solids	%	79.3	100%		0	42	42	74.7	73

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-A1	GR-A2-A	GR-A2-B	GR-A3	GR-A4-A							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011001	007R011002	007R011003	007R011004	007R011005							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06							
QC CODE	SA	SA	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Acetone	UG/KG	290	98%	50	31	40	41	16 J	14 J	12 J	61	50
Benzene	UG/KG	0	0%	60	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Bromoform	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Carbon disulfide	UG/KG	0	0%		0	0	41	13 U	16 U	19 U	15 U	13 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Chloroethane	UG/KG	0	0%		0	0	41	13 U	16 U	19 U	15 U	13 U
Chloroform	UG/KG	0	0%	370	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	6.6 U	8 U	1.5 J	7.3 U	6.7 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Methyl Acetate	UG/KG	11	2%		0	1	41	13 U	16 U	19 U	15 U	13 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Methyl bromide	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	13 U	16 U	19 U	15 U	13 U
Methyl chloride	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	13 U	16 U	19 U	11 J	3.4 J

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A1	GR-A2-A	GR-A2-B	GR-A3	GR-A4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011001	007R011002	007R011003	007R011004	007R011005
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	13 U	16 U	19 U	15 U	13 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	1.5 J	1.6 J	1.7 J	1.4 J	1.4 J
Ortho Xylene	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Styrene	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Toluene	UG/KG	8.7	27%	700	0	11	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	6.6 U	8 U	9.5 U	7.3 U	6.7 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2300 U	2500 U	2600 U	2400 U	2200 U
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	450 U	480 U	500 U	470 U	430 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	450 U	480 U	500 U	470 U	430 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2500 U	2600 U	2400 U	2200 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2500 U	2600 U	2400 U	2200 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2300 U	2500 U	2600 U	2400 U	2200 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	450 U	480 U	500 U	470 U	430 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2300 UJ	2500 UJ	2600 UJ	2400 UJ	2200 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	41	2300 U	2500 U	2600 U	2400 U	2200 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	450 U	480 U	500 U	470 U	430 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	450 U	480 U	500 U	470 U	430 U
Acetophenone	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A1	GR-A2-A	GR-A2-B	GR-A3	GR-A4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011001	007R011002	007R011003	007R011004	007R011005
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	450 U	480 U	500 U	470 U	430 U
Atrazine	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Benzaldehyde	UG/KG	420	2%		0	1	41	450 U	480 U	500 U	470 U	430 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	450 U	480 U	500 U	470 U	430 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	450 U	480 U	500 U	470 U	430 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	450 U	480 U	500 U	470 U	430 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	450 U	480 U	500 U	470 U	430 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	450 U	480 U	500 U	470 U	430 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Caprolactam	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Carbazole	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Chrysene	UG/KG	0	0%	1000	0	0	41	450 U	480 U	500 U	470 U	430 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	450 U	480 U	500 U	470 U	430 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	450 U	480 U	500 U	470 U	430 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	450 U	480 U	500 U	470 U	430 U
Fluorene	UG/KG	0	0%	30000	0	0	41	450 U	480 U	500 U	470 U	430 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	450 U	480 U	500 U	470 U	430 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Hexachloroethane	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	450 U	480 U	500 U	470 U	430 U
Isophorone	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	450 U	480 U	500 U	470 U	430 U
Nitrobenzene	UG/KG	0	0%		0	0	41	450 U	480 U	500 U	470 U	430 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2300 U	2500 U	2600 U	2400 U	2200 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	450 U	480 U	500 U	470 U	430 U
Phenol	UG/KG	0	0%	330	0	0	41	450 U	480 U	500 U	470 U	430 U
Pyrene	UG/KG	0	0%	100000	0	0	41	450 U	480 U	500 U	470 U	430 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A1	GR-A2-A	GR-A2-B	GR-A3	GR-A4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011001	007R011002	007R011003	007R011004	007R011005
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	45 U	48 U	50 U	47 U	43 U
Aroclor-1221	UG/KG	0	0%		0	0	41	92 U	97 U	100 U	96 U	87 U
Aroclor-1232	UG/KG	0	0%		0	0	41	45 U	48 U	50 U	47 U	43 U
Aroclor-1242	UG/KG	0	0%		0	0	41	45 U	48 U	50 U	47 U	43 U
Aroclor-1248	UG/KG	0	0%		0	0	41	45 U	48 U	50 U	47 U	43 U
Aroclor-1254	UG/KG	0	0%		0	0	41	45 U	48 U	50 U	47 U	43 U
Aroclor-1260	UG/KG	0	0%		0	0	41	45 U	48 U	50 U	47 U	43 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
Endrin	UG/KG	0	0%	14	0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-A1	GR-A2-A	GR-A2-B	GR-A3	GR-A4-A							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011001	007R011002	007R011003	007R011004	007R011005							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06							
QC CODE	SA	SA	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.5 U	4.8 U	5 U	4.7 U	4.3 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.3 U	2.5 U	2.6 U	2.4 U	2.2 U
Methoxychlor	UG/KG	0	0%		0	0	41	23 U	25 U	26 U	24 U	22 U
Toxaphene	UG/KG	0	0%		0	0	41	45 U	48 U	50 U	47 U	43 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	14500	16100	18100	15600	13400
Antimony	MG/KG	0	0%		0	0	41	0.48 UJ	0.5 UJ	0.54 UJ	0.49 UJ	0.44 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	3.4	3.8	4.4	3.2	9.3
Barium	MG/KG	180	100%	350	0	41	41	112	119	164	103	84.8
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.02 U	0.85	0.88	0.68 J	0.57 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.08 J	0.09 J	0.11 J	0.09 J	0.04 U
Calcium	MG/KG	11100	100%		0	41	41	3510	3630	2700	2770	2250
Chromium	MG/KG	27.7	100%		0	41	41	22	24.9	27.7	21	17.8
Cobalt	MG/KG	23.5	100%		0	41	41	9.4	9.1	23.5	8.2	11.6
Copper	MG/KG	22.2	100%	50	0	41	41	17	19.5	15.7	13.8	15.1
Iron	MG/KG	32300	100%		0	41	41	22100	24600	32300	23000	21600
Lead	MG/KG	38.5	100%	63	0	41	41	24.9	24.2	28.2	20.2	21.7
Magnesium	MG/KG	5230	100%		0	41	41	3600	3970	3980	3510	3110
Manganese	MG/KG	1880	100%	1600	1	41	41	641	603	1880	356	312
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.06	0.06	0.06	0.05	0.05
Nickel	MG/KG	31.1	100%	30	2	41	41	23.6	25	27.3	18.7	22
Potassium	MG/KG	2370	100%		0	41	41	1590	1920	2060	1400	1160
Selenium	MG/KG	4.4	100%	3.9	2	41	41	1.9	2.1	3.1	1.8	1.7
Silver	MG/KG	0	0%	2	0	0	41	0.16 U	0.16 U	0.18 U	0.16 U	0.14 U
Sodium	MG/KG	54.7	63%		0	26	41	136 U	141 U	153 U	140 U	126 U
Thallium	MG/KG	0	0%		0	0	41	1.2 U	1.2 U	4.5 U	0.41 U	0.37 U
Vanadium	MG/KG	33.5	100%		0	41	41	26.9	31.1	33.5	29.4	25.3
Zinc	MG/KG	110	100%	109	1	41	41	74.3	88.7	105	72.8	64.7
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	6.87 U	8.27	8.09	7.13 U	6.53 U
Percent Solids	%	79.3	100%		0	41	41	72.8	68.9	65.5	70.1	76.6

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A4-B	GR-B1	GR-B2-A	GR-B2-B	GR-B3-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011006	007R011013	007R011011	007R011012	007R011009
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Acetone	UG/KG	290	98%	50	31	40	41	55	110	42	54	48
Benzene	UG/KG	0	0%	60	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Bromoform	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Carbon disulfide	UG/KG	0	0%		0	0	41	19 U	15 U	14 U	16 U	15 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Chloroethane	UG/KG	0	0%		0	0	41	19 U	15 U	14 U	16 U	15 U
Chloroform	UG/KG	0	0%	370	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Methyl Acetate	UG/KG	11	2%		0	1	41	19 U	15 UJ	14 UJ	16 UJ	15 UJ
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Methyl bromide	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	19 U	15 U	14 U	16 U	15 U
Methyl chloride	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	4.4 J	9.8 J	5.6 J	6.7 J	3.5 J

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A4-B	GR-B1	GR-B2-A	GR-B2-B	GR-B3-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011006	007R011013	007R011011	007R011012	007R011009
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	19 U	15 U	14 U	16 U	15 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	1.9 J	1.4 J	1.2 J	1.8 J	1.6 J
Ortho Xylene	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Styrene	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Toluene	UG/KG	8.7	27%	700	0	11	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	9.7 U	7.7 U	7 U	7.9 U	7.3 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2600 U	2400 U	2300 U	2500 U	2500 U
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	510 U	460 U	450 U	480 U	480 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	510 U	460 U	450 U	480 U	480 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2600 U	2400 U	2300 U	2500 U	2500 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2600 U	2400 U	2300 U	2500 U	2500 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2600 U	2400 U	2300 U	2500 U	2500 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	510 U	460 U	450 U	480 U	480 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2600 UJ	2400 UJ	2300 U	2500 U	2500 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	41	2600 U	2400 U	2300 U	2500 U	2500 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	510 U	460 U	450 U	480 U	480 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	510 U	460 U	450 U	480 U	480 U
Acetophenone	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A4-B	GR-B1	GR-B2-A	GR-B2-B	GR-B3-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011006	007R011013	007R011011	007R011012	007R011009
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	510 U	460 U	450 U	480 U	480 U
Atrazine	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Benzaldehyde	UG/KG	420	2%		0	1	41	510 U	460 UJ	450 U	480 U	480 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	510 U	460 U	450 U	480 U	480 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	510 U	460 U	450 U	480 U	480 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	510 U	460 U	450 U	480 U	480 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	510 U	460 U	450 U	480 U	480 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	510 U	460 U	450 U	480 U	480 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Caprolactam	UG/KG	0	0%		0	0	41	510 U	460 UJ	450 U	480 U	480 U
Carbazole	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Chrysene	UG/KG	0	0%	1000	0	0	41	510 U	460 U	450 U	480 U	480 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	510 U	460 U	450 U	480 U	480 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	510 U	460 U	450 U	480 U	480 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	510 U	460 U	450 U	480 U	480 U
Fluorene	UG/KG	0	0%	30000	0	0	41	510 U	460 U	450 U	480 U	480 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	510 U	460 U	450 U	480 U	480 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Hexachloroethane	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	510 U	460 U	450 U	480 U	480 U
Isophorone	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	510 U	460 U	450 U	480 U	480 U
Nitrobenzene	UG/KG	0	0%		0	0	41	510 U	460 U	450 U	480 U	480 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2600 U	2400 U	2300 U	2500 U	2500 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	510 U	460 U	450 U	480 U	480 U
Phenol	UG/KG	0	0%	330	0	0	41	510 U	460 U	450 U	480 U	480 U
Pyrene	UG/KG	0	0%	100000	0	0	41	510 U	460 U	450 U	480 U	480 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A4-B	GR-B1	GR-B2-A	GR-B2-B	GR-B3-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011006	007R011013	007R011011	007R011012	007R011009
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	51 U	46 U	45 U	48 U	48 U
Aroclor-1221	UG/KG	0	0%		0	0	41	100 U	94 U	92 U	98 U	98 U
Aroclor-1232	UG/KG	0	0%		0	0	41	51 U	46 U	45 U	48 U	48 U
Aroclor-1242	UG/KG	0	0%		0	0	41	51 U	46 U	45 U	48 U	48 U
Aroclor-1248	UG/KG	0	0%		0	0	41	51 U	46 U	45 U	48 U	48 U
Aroclor-1254	UG/KG	0	0%		0	0	41	51 U	46 U	45 U	48 U	48 U
Aroclor-1260	UG/KG	0	0%		0	0	41	51 U	46 U	45 U	48 U	48 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Dieldrin	UG/KG	0	0%	5	0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
Endrin	UG/KG	0	0%	14	0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-A4-B	GR-B1	GR-B2-A	GR-B2-B	GR-B3-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011006	007R011013	007R011011	007R011012	007R011009
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	5.1 U	4.6 U	4.5 U	4.8 U	4.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.6 U	2.4 U	2.3 U	2.5 U	2.5 U
Methoxychlor	UG/KG	0	0%		0	0	41	26 U	24 U	23 U	25 U	25 U
Toxaphene	UG/KG	0	0%		0	0	41	51 U	46 U	45 U	48 U	48 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	17200	15800	15900	16600	14900
Antimony	MG/KG	0	0%		0	0	41	0.53 UJ	0.49 UJ	0.48 UJ	0.52 UJ	0.52 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	3.3	2.6	4.6	3.5	2.8
Barium	MG/KG	180	100%	350	0	41	41	148	117	94.4	109	106
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.97	0.71	0.74	0.81	0.67 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.14 J	0.07 J	0.05 U	0.1 J	0.05 U
Calcium	MG/KG	11100	100%		0	41	41	3830	2920	2000	2790	3350
Chromium	MG/KG	27.7	100%		0	41	41	24.2	21.7	21.9	23.5	20
Cobalt	MG/KG	23.5	100%		0	41	41	8.1	9.1	11.3	10.2	6.8 J
Copper	MG/KG	22.2	100%	50	0	41	41	16.6	15	14.4	15	16.1
Iron	MG/KG	32300	100%		0	41	41	24800	20300	26800	22200	20600
Lead	MG/KG	38.5	100%	63	0	41	41	20.7	20.6	25.2	20.9	18.8
Magnesium	MG/KG	5230	100%		0	41	41	4130	3520	3480	3670	3400
Manganese	MG/KG	1880	100%	1600	1	41	41	582	546	647	610	255
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.08	0.05	0.04	0.05	0.05
Nickel	MG/KG	31.1	100%	30	2	41	41	23	20.3	18.7	22.9	17.5
Potassium	MG/KG	2370	100%		0	41	41	1880	1740	1660	2010	1980
Selenium	MG/KG	4.4	100%	3.9	2	41	41	2.4	1.7	2.5	1.9	1.7
Silver	MG/KG	0	0%	2	0	0	41	0.17 U	0.16 U	0.16 U	0.16 U	0.17 U
Sodium	MG/KG	54.7	63%		0	26	41	151 U	139 U	135 U	139 U	147 U
Thallium	MG/KG	0	0%		0	0	41	0.88 U	1.2 U	1.2 U	1.2 U	0.43 U
Vanadium	MG/KG	33.5	100%		0	41	41	30.7	29.1	32.3	31.6	28.1
Zinc	MG/KG	110	100%	109	1	41	41	80.6	82.3	74.2	95.2	65.8
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	7.79 U	7.17	7.8	9.06	7.34 U
Percent Solids	%	79.3	100%		0	41	41	64.2	71.1	73.1	68.4	68.1

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-B3-B	GR-B4-A	GR-B4-B	GR-C1	GR-C2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011010	007R011007	007R011008	007R011014	007R011015
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatiles Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Acetone	UG/KG	290	98%	50	31	40	41	52 J	71 J	36	100	98
Benzene	UG/KG	0	0%	60	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Bromoform	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Carbon disulfide	UG/KG	0	0%		0	0	41	14 U	28 UJ	12 U	16 U	14 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Chloroethane	UG/KG	0	0%		0	0	41	14 U	28 UJ	12 U	16 U	14 U
Chloroform	UG/KG	0	0%	370	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Methyl Acetate	UG/KG	11	2%		0	1	41	14 UJ	28 UJ	12 U	16 UJ	14 UJ
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Methyl bromide	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	14 U	28 UJ	12 U	16 U	14 U
Methyl chloride	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	5.8 J	5.4 J	2.1 J	19	7.9 J

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-B3-B	GR-B4-A	GR-B4-B	GR-C1	GR-C2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011010	007R011007	007R011008	007R011014	007R011015
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	14 U	28 UJ	12 U	16 U	14 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	1.8 J	4.6 J	1.2 J	1.7 J	1.5 J
Ortho Xylene	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Styrene	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Toluene	UG/KG	8.7	27%	700	0	11	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	7.2 U	14 UJ	5.9 U	7.9 U	6.8 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2300 U	2600 U	2200 U	2500 U	2300 U
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	450 U	510 U	420 U	480 U	450 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	450 U	510 U	420 U	480 U	450 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2600 U	2200 U	2500 U	2300 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2600 U	2200 U	2500 U	2300 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2300 U	2600 U	2200 U	2500 U	2300 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	450 U	510 U	420 U	480 U	450 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2300 UJ	2600 UJ	2200 UJ	2500 UJ	2300 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	41	2300 U	2600 U	2200 U	2500 U	2300 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	450 U	510 U	420 U	480 U	450 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	450 U	510 U	420 U	480 U	450 U
Acetophenone	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-B3-B	GR-B4-A	GR-B4-B	GR-C1	GR-C2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011010	007R011007	007R011008	007R011014	007R011015
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	450 U	510 U	420 U	480 U	450 U
Atrazine	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Benzaldehyde	UG/KG	420	2%		0	1	41	450 U	510 U	420 U	480 UJ	450 UJ
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	450 U	510 U	420 U	480 U	450 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	450 U	510 U	420 U	480 U	450 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	450 U	510 U	420 U	480 U	450 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	450 U	510 U	420 U	480 U	450 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	450 U	510 U	420 U	480 U	450 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Caprolactam	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 UJ	450 UJ
Carbazole	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Chrysene	UG/KG	0	0%	1000	0	0	41	450 U	510 U	420 U	480 U	450 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	450 U	510 U	420 U	480 U	450 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	450 U	510 U	420 U	480 U	450 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	450 U	510 U	420 U	480 U	450 U
Fluorene	UG/KG	0	0%	30000	0	0	41	450 U	510 U	420 U	480 U	450 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	450 U	510 U	420 U	480 U	450 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Hexachloroethane	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	450 U	510 U	420 U	480 U	450 U
Isophorone	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	450 U	510 U	420 U	480 U	450 U
Nitrobenzene	UG/KG	0	0%		0	0	41	450 U	510 U	420 U	480 U	450 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2300 U	2600 U	2200 U	2500 U	2300 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	450 U	510 U	420 U	480 U	450 U
Phenol	UG/KG	0	0%	330	0	0	41	450 U	510 U	420 U	480 U	450 U
Pyrene	UG/KG	0	0%	100000	0	0	41	450 U	510 U	420 U	480 U	450 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-B3-B	GR-B4-A	GR-B4-B	GR-C1	GR-C2-A							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011010	007R011007	007R011008	007R011014	007R011015							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/12/06	12/12/06	12/12/06	12/12/06	12/12/06							
QC CODE	SA	SA	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	45 U	51 U	42 U	48 U	45 U
Aroclor-1221	UG/KG	0	0%		0	0	41	91 U	100 U	86 U	97 U	92 U
Aroclor-1232	UG/KG	0	0%		0	0	41	45 U	51 U	42 U	48 U	45 U
Aroclor-1242	UG/KG	0	0%		0	0	41	45 U	51 U	42 U	48 U	45 U
Aroclor-1248	UG/KG	0	0%		0	0	41	45 U	51 U	42 U	48 U	45 U
Aroclor-1254	UG/KG	0	0%		0	0	41	45 U	51 U	42 U	48 U	45 U
Aroclor-1260	UG/KG	0	0%		0	0	41	45 U	51 U	42 U	48 U	45 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
Endrin	UG/KG	0	0%	14	0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-B3-B	GR-B4-A	GR-B4-B	GR-C1	GR-C2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011010	007R011007	007R011008	007R011014	007R011015
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/12/06	12/12/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.5 U	5.1 U	4.2 U	4.8 U	4.5 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.3 U	2.6 U	2.2 U	2.5 U	2.3 U
Methoxychlor	UG/KG	0	0%		0	0	41	23 U	26 U	22 U	25 U	23 U
Toxaphene	UG/KG	0	0%		0	0	41	45 U	51 U	42 U	48 U	45 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	14400	19600	15100	16300	13700
Antimony	MG/KG	0	0%		0	0	41	0.46 UJ	0.52 UJ	0.44 UJ	0.5 UJ	0.46 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	3.3	3.4	3	4	3.5
Barium	MG/KG	180	100%	350	0	41	41	98.9	152	87.6	122	74.6
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.7	0.91	0.68	0.87	0.62 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.07 J	0.18 J	0.04 J	0.12 J	0.05 U
Calcium	MG/KG	11100	100%		0	41	41	2940	4370	3310	11100	1640
Chromium	MG/KG	27.7	100%		0	41	41	20.2	23.7	21.1	25	20.6
Cobalt	MG/KG	23.5	100%		0	41	41	7.8	6.8 J	9	11.5	10.4
Copper	MG/KG	22.2	100%	50	0	41	41	14.2	16	18.2	22.2	19.1
Iron	MG/KG	32300	100%		0	41	41	21100	21100	21900	24400	22100
Lead	MG/KG	38.5	100%	63	0	41	41	20	20.6	19.7	22.9	21.3
Magnesium	MG/KG	5230	100%		0	41	41	3580	4160	3980	5230	3490
Manganese	MG/KG	1880	100%	1600	1	41	41	387	277	289	665	381
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.05	0.08	0.04	0.06	0.05
Nickel	MG/KG	31.1	100%	30	2	41	41	18.7	20.2	23.6	29.5	23.2
Potassium	MG/KG	2370	100%		0	41	41	1800	2070	1560	2120	1480
Selenium	MG/KG	4.4	100%	3.9	2	41	41	1.5	1.4 J	1.8	1.9	3.8
Silver	MG/KG	0	0%	2	0	0	41	0.15 U	0.17 U	0.14 U	0.16 U	0.15 U
Sodium	MG/KG	54.7	63%		0	26	41	129 U	147 U	125 U	141 U	132 U
Thallium	MG/KG	0	0%		0	0	41	0.38 U	0.43 U	0.36 U	1.2 U	0.38 U
Vanadium	MG/KG	33.5	100%		0	41	41	27.5	32.7	27.3	29.1	25
Zinc	MG/KG	110	100%	109	1	41	41	76.1	95.7	72	94.2	70
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	7.07	7.69	6.44 U	7.41	8.21
Percent Solids	%	79.3	100%		0	41	41	73.6	65	77.7	68.8	73.1

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-C2-B	GR-C3-A	GR-C3-B	GR-D1	GR-D2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011016	007R011017	007R011018	007R011026	007R011024
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatiles Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Acetone	UG/KG	290	98%	50	31	40	41	50	29.6 U	130	65	280
Benzene	UG/KG	0	0%	60	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Bromoform	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Carbon disulfide	UG/KG	0	0%		0	0	41	13 U	15 U	19 U	15 U	20 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Chloroethane	UG/KG	0	0%		0	0	41	13 U	15 U	19 U	15 U	20 U
Chloroform	UG/KG	0	0%	370	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Methyl Acetate	UG/KG	11	2%		0	1	41	13 UJ	15 UJ	19 UJ	15 U	20 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Methyl bromide	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	13 U	15 U	19 U	15 U	20 U
Methyl chloride	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	6.6 J	4.2 J	9.4 J	5.5 J	25

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-C2-B	GR-C3-A	GR-C3-B	GR-D1	GR-D2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011016	007R011017	007R011018	007R011026	007R011024
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	13 U	15 U	19 U	15 U	20 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	1.3 J	1.4 J	2.1 J	1.3 J	10 U
Ortho Xylene	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Styrene	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Toluene	UG/KG	8.7	27%	700	0	11	41	6.7 U	7.4 U	9.3 U	7.4 U	0.91 J
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	6.7 U	7.4 U	9.3 U	7.4 U	10 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2100 UJ	2500 UJ	2400 UJ	2400 UJ	2500 UJ
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	420 U	480 U	470 U	470 U	480 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	420 U	480 U	470 U	470 U	480 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2100 U	2500 U	2400 U	2400 U	2500 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2100 U	2500 U	2400 U	2400 U	2500 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2100 U	2500 U	2400 U	2400 U	2500 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	420 U	480 U	470 U	470 U	480 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2100 U	2500 U	2400 U	2400 U	2500 U
4-Nitrophenol	UG/KG	0	0%		0	0	41	2100 U	2500 U	2400 U	2400 U	2500 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	420 U	480 U	470 U	470 U	480 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	420 U	480 U	470 U	470 U	480 U
Acetophenone	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-C2-B	GR-C3-A	GR-C3-B	GR-D1	GR-D2-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011016	007R011017	007R011018	007R011026	007R011024
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/12/06	12/12/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	420 U	480 U	470 U	470 U	480 U
Atrazine	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Benzaldehyde	UG/KG	420	2%		0	1	41	420 U	480 U	470 U	470 U	480 UJ
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	420 U	480 U	470 U	470 U	480 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	420 U	480 U	470 U	470 U	480 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	420 U	480 U	470 U	470 U	480 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	420 U	480 U	470 U	470 U	480 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	420 U	480 U	470 U	470 U	480 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Caprolactam	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Carbazole	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Chrysene	UG/KG	0	0%	1000	0	0	41	420 U	480 U	470 U	470 U	480 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	420 U	480 U	470 U	470 U	480 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	420 U	480 U	470 U	470 U	480 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	420 U	480 U	470 U	470 U	480 U
Fluorene	UG/KG	0	0%	30000	0	0	41	420 U	480 U	470 U	470 U	480 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	420 U	480 U	470 U	470 U	480 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Hexachloroethane	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	420 U	480 U	470 U	470 U	480 U
Isophorone	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	420 U	480 U	470 U	470 U	480 U
Nitrobenzene	UG/KG	0	0%		0	0	41	420 U	480 U	470 U	470 U	480 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2100 U	2500 U	2400 U	2400 U	2500 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	420 U	480 U	470 U	470 U	480 U
Phenol	UG/KG	0	0%	330	0	0	41	420 U	480 U	470 U	470 U	480 U
Pyrene	UG/KG	0	0%	100000	0	0	41	420 U	480 U	470 U	470 U	480 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-C2-B	GR-C3-A	GR-C3-B	GR-D1	GR-D2-A							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011016	007R011017	007R011018	007R011026	007R011024							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/12/06	12/12/06	12/12/06	12/13/06	12/13/06							
QC CODE	SA	SA	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	42 U	48 U	47 U	47 U	48 U
Aroclor-1221	UG/KG	0	0%		0	0	41	84 U	98 U	95 U	95 U	98 U
Aroclor-1232	UG/KG	0	0%		0	0	41	42 U	48 U	47 U	47 U	48 U
Aroclor-1242	UG/KG	0	0%		0	0	41	42 U	48 U	47 U	47 U	48 U
Aroclor-1248	UG/KG	0	0%		0	0	41	42 U	48 U	47 U	47 U	48 U
Aroclor-1254	UG/KG	0	0%		0	0	41	42 U	48 U	47 U	47 U	48 U
Aroclor-1260	UG/KG	0	0%		0	0	41	42 U	48 U	47 U	47 U	48 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
Endrin	UG/KG	0	0%	14	0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-C2-B	GR-C3-A	GR-C3-B	GR-D1	GR-D2-A							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011016	007R011017	007R011018	007R011026	007R011024							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/12/06	12/12/06	12/12/06	12/13/06	12/13/06							
QC CODE	SA	SA	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.2 U	4.8 U	4.7 U	4.7 U	4.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.1 U	2.5 U	2.4 U	2.4 U	2.5 U
Methoxychlor	UG/KG	0	0%		0	0	41	21 U	25 U	24 U	24 U	25 U
Toxaphene	UG/KG	0	0%		0	0	41	42 U	48 U	47 U	47 U	48 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	15500	15500	14700	14800	15400
Antimony	MG/KG	0	0%		0	0	41	0.43 UJ	0.52 UJ	0.49 UJ	0.49 UJ	0.51 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	3.6	5	4.4	3.2	4.2
Barium	MG/KG	180	100%	350	0	41	41	124	111	95.3	84.6	93.2
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.79	0.75	0.77	0.66 J	0.74 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.08 J	0.05 U	0.05 U	0.05 U	0.05 U
Calcium	MG/KG	11100	100%		0	41	41	3370 J	2430 J	3210 J	2450	3150
Chromium	MG/KG	27.7	100%		0	41	41	21.1	21.2	22.1	21.8	24
Cobalt	MG/KG	23.5	100%		0	41	41	8.9	7.9	10	9.3	10.4
Copper	MG/KG	22.2	100%	50	0	41	41	17.3	17	18.7	15.8	21.9
Iron	MG/KG	32300	100%		0	41	41	20800	23200	23100	21600	24200
Lead	MG/KG	38.5	100%	63	0	41	41	17.3	16.7	26.7	22.8	21.3
Magnesium	MG/KG	5230	100%		0	41	41	3670	3710	4130	3890	4500
Manganese	MG/KG	1880	100%	1600	1	41	41	642 J	253 J	361 J	398	359
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.05	0.06	0.05	0.05	0.05
Nickel	MG/KG	31.1	100%	30	2	41	41	20.2	19.7	25	23.4	28.4
Potassium	MG/KG	2370	100%		0	41	41	1550	1840	1590	1710	1740
Selenium	MG/KG	4.4	100%	3.9	2	41	41	3.8	4.1	3.9	1.6 J	3.9
Silver	MG/KG	0	0%	2	0	0	41	0.14 U	0.17 U	0.16 U	0.16 U	0.17 U
Sodium	MG/KG	54.7	63%		0	26	41	50.9 J	47.3 J	42.2 J	37.1 J	33.8 J
Thallium	MG/KG	0	0%		0	0	41	1.1 U	0.43 U	0.81 U	0.41 U	0.85 U
Vanadium	MG/KG	33.5	100%		0	41	41	28.6	29.1	27.5	26.2	27.2
Zinc	MG/KG	110	100%	109	1	41	41	69.6	71	86.3	77.4	87.6
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	9.08	7.32 U	7.1 U	7.08 U	8.2
Percent Solids	%	79.3	100%		0	41	41	79.3	68.3	70.4	70.6	68.3

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D2-B	GR-D3-A	GR-D3-A	GR-D3-B	GR-D4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011025	007R011021	007R011022	007R011023	007R011019
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/12/06	12/13/06	12/13/06	12/12/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,1-Dichloroethane	UG/KG	0	0%	330	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Acetone	UG/KG	290	98%	50	31	40	41	60	59	150	51	200
Benzene	UG/KG	0	0%	60	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Bromoform	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 UJ
Carbon disulfide	UG/KG	0	0%		0	0	41	13 U	15 U	17 U	15 U	16 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Chloroethane	UG/KG	0	0%		0	0	41	13 U	15 U	17 U	15 U	16 U
Chloroform	UG/KG	0	0%	370	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 UJ
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Methyl Acetate	UG/KG	11	2%		0	1	41	13 U	15 UJ	17 U	15 U	16 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Methyl bromide	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	13 U	15 U	17 U	15 U	16 U
Methyl chloride	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	4.8 J	5.9 J	18	4.8 J	14 J

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D2-B	GR-D3-A	GR-D3-A	GR-D3-B	GR-D4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011025	007R011021	007R011022	007R011023	007R011019
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/12/06	12/13/06	12/13/06	12/12/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	13 U	15 U	17 U	15 U	16 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	1.2 J	1.5 J	1.8 J	1.3 J	1.3 J
Ortho Xylene	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Styrene	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Toluene	UG/KG	8.7	27%	700	0	11	41	6.3 U	7.7 U	8.5 U	7.7 U	3.8 J
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	6.3 U	7.7 U	8.5 U	7.7 U	8 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2200 UJ	2500 UJ	2600 U	2400 UJ	2400 UJ
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	430 U	490 U	500 U	460 U	460 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	430 U	490 U	500 U	460 U	460 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2500 U	2600 U	2400 U	2400 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2500 U	2600 U	2400 U	2400 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2200 U	2500 U	2600 U	2400 U	2400 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	430 U	490 U	500 U	460 U	460 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2500 U	2600 U	2400 U	2400 U
4-Nitrophenol	UG/KG	0	0%		0	0	41	2200 U	2500 U	2600 U	2400 U	2400 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	430 U	490 U	500 U	460 U	460 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	430 U	490 U	500 U	460 U	460 U
Acetophenone	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D2-B	GR-D3-A	GR-D3-A	GR-D3-B	GR-D4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011025	007R011021	007R011022	007R011023	007R011019
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/12/06	12/13/06	12/13/06	12/12/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	430 U	490 U	500 U	460 U	460 U
Atrazine	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Benzaldehyde	UG/KG	420	2%		0	1	41	430 U	490 U	500 U	460 U	460 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	430 U	490 U	500 U	460 U	460 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	430 U	490 U	500 U	460 U	460 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	430 U	490 U	500 U	460 U	460 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	430 U	490 U	500 U	460 U	460 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	430 U	490 U	500 U	460 U	460 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Caprolactam	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Carbazole	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Chrysene	UG/KG	0	0%	1000	0	0	41	430 U	490 U	500 U	460 U	460 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	430 U	490 U	500 U	460 U	460 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	430 U	490 U	500 U	460 U	460 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	430 U	490 U	500 U	460 U	460 U
Fluorene	UG/KG	0	0%	30000	0	0	41	430 U	490 U	500 U	460 U	460 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	430 U	490 U	500 U	460 U	460 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Hexachloroethane	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	430 U	490 U	500 U	460 U	460 U
Isophorone	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	430 U	490 U	500 U	460 U	460 U
Nitrobenzene	UG/KG	0	0%		0	0	41	430 U	490 U	500 U	460 U	460 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2200 U	2500 U	2600 U	2400 U	2400 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	430 U	490 U	500 U	460 U	460 U
Phenol	UG/KG	0	0%	330	0	0	41	430 U	490 U	500 U	460 U	460 U
Pyrene	UG/KG	0	0%	100000	0	0	41	430 U	490 U	500 U	460 U	460 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D2-B	GR-D3-A	GR-D3-A	GR-D3-B	GR-D4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011025	007R011021	007R011022	007R011023	007R011019
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/12/06	12/13/06	12/13/06	12/12/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	43 U	49 U	50 U	46 U	46 U
Aroclor-1221	UG/KG	0	0%		0	0	41	87 U	99 U	100 U	94 U	94 U
Aroclor-1232	UG/KG	0	0%		0	0	41	43 U	49 U	50 U	46 U	46 U
Aroclor-1242	UG/KG	0	0%		0	0	41	43 U	49 U	50 U	46 U	46 U
Aroclor-1248	UG/KG	0	0%		0	0	41	43 U	49 U	50 U	46 U	46 U
Aroclor-1254	UG/KG	0	0%		0	0	41	43 U	49 U	50 U	46 U	46 U
Aroclor-1260	UG/KG	0	0%		0	0	41	43 U	49 U	50 U	46 U	46 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
Endrin	UG/KG	0	0%	14	0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D2-B	GR-D3-A	GR-D3-A	GR-D3-B	GR-D4-A
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011025	007R011021	007R011022	007R011023	007R011019
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/12/06	12/13/06	12/13/06	12/12/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.3 U	4.9 U	5 U	4.6 U	4.6 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.2 U	2.5 U	2.6 U	2.4 U	2.4 U
Methoxychlor	UG/KG	0	0%		0	0	41	22 U	25 U	26 U	24 U	24 U
Toxaphene	UG/KG	0	0%		0	0	41	43 U	49 U	50 U	46 U	46 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	14000	13100	17200	14600	10500
Antimony	MG/KG	0	0%		0	0	41	0.44 UJ	0.5 UJ	0.51 UJ	0.48 UJ	0.47 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	3.5	3.7	3.2	3.5	2.7
Barium	MG/KG	180	100%	350	0	41	41	77.1	104	149	112	61.9
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.64 J	0.71	0.98 J	0.76 J	0.45 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.04 U	0.05 U	0.2 J	0.08 J	0.05 U
Calcium	MG/KG	11100	100%		0	41	41	1480	2340 J	4520	3410	2130 J
Chromium	MG/KG	27.7	100%		0	41	41	20.8	20.1	26.6	21.1	13.7
Cobalt	MG/KG	23.5	100%		0	41	41	10.2	13	10.7	9.2	5.2 J
Copper	MG/KG	22.2	100%	50	0	41	41	14.9	16.6	23.1	16.5	11.6
Iron	MG/KG	32300	100%		0	41	41	20300	21000	26800	21500	13700
Lead	MG/KG	38.5	100%	63	0	41	41	21	19.9	25.9	22.3	13.6
Magnesium	MG/KG	5230	100%		0	41	41	3540	3290	4820	3920	2370
Manganese	MG/KG	1880	100%	1600	1	41	41	480	693 J	532	339	230 J
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.04	0.06	0.08	0.05	0.05 J
Nickel	MG/KG	31.1	100%	30	2	41	41	22.6	21	31.9	23.5	11.6
Potassium	MG/KG	2370	100%		0	41	41	1410	1160	2310	1740	962
Selenium	MG/KG	4.4	100%	3.9	2	41	41	2 J	3.8	2.5 J	2.1 J	2.7
Silver	MG/KG	0	0%	2	0	0	41	0.14 U	0.16 U	0.17 U	0.16 U	0.15 U
Sodium	MG/KG	54.7	63%		0	26	41	32.6 J	34.6 J	53.4 J	42.3 J	32.6 J
Thallium	MG/KG	0	0%		0	0	41	0.37 U	1.2 U	0.42 U	0.4 U	0.39 U
Vanadium	MG/KG	33.5	100%		0	41	41	24.6	23.9	29.5	26.4	20.5
Zinc	MG/KG	110	100%	109	1	41	41	69.4	63.9	102	77.1	51
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	7.42	7.36 U	10.6	7.04 U	6.99 U
Percent Solids	%	79.3	100%		0	41	41	76.8	67.9	66.1	71	71.5

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D4-B	GR-E1	GR-E2-A	GR-E2-B	GR-E3
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011020	007R011027	007R011028	007R011029	007R011030
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Acetone	UG/KG	290	98%	50	31	40	41	64	100	200	46	72
Benzene	UG/KG	0	0%	60	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Bromoform	UG/KG	0	0%		0	0	41	6.8 UJ	7.7 U	7.6 U	8.3 U	9 U
Carbon disulfide	UG/KG	0	0%		0	0	41	14 U	15 U	15 U	17 U	18 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Chloroethane	UG/KG	0	0%		0	0	41	14 U	15 U	15 U	17 U	18 U
Chloroform	UG/KG	0	0%	370	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	6.8 UJ	7.7 U	7.6 U	8.3 U	9 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Methyl Acetate	UG/KG	11	2%		0	1	41	14 U	15 U	15 U	17 U	18 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Methyl bromide	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	14 U	15 U	15 U	17 U	18 U
Methyl chloride	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	11 J	6.5 J	14 J	4.3 J	18 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D4-B	GR-E1	GR-E2-A	GR-E2-B	GR-E3
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011020	007R011027	007R011028	007R011029	007R011030
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	14 U	15 U	15 U	17 U	18 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	1.3 J	1 J	1.3 J	1.2 J	1.4 J
Ortho Xylene	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Styrene	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	6.8 U	2.4 J	7.6 U	8.3 U	9 U
Toluene	UG/KG	8.7	27%	700	0	11	41	6.8 U	0.74 J	2 J	8.3 U	9 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	6.8 U	7.7 U	7.6 U	8.3 U	9 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2200 UJ	2400 UJ	2500 UJ	2500 UJ	2500 UJ
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	430 U	460 U	480 U	490 U	490 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	430 U	460 U	480 U	490 U	490 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2400 U	2500 U	2500 U	2500 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2400 U	2500 U	2500 U	2500 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2200 U	2400 U	2500 U	2500 U	2500 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	430 U	460 U	480 U	490 U	490 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2400 U	2500 U	2500 U	2500 U
4-Nitrophenol	UG/KG	0	0%		0	0	41	2200 U	2400 U	2500 U	2500 U	2500 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	430 U	460 U	480 U	490 U	490 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	430 U	460 U	480 U	490 U	490 U
Acetophenone	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-D4-B	GR-E1	GR-E2-A	GR-E2-B	GR-E3
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011020	007R011027	007R011028	007R011029	007R011030
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/12/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	430 U	460 U	480 U	490 U	490 U
Atrazine	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Benzaldehyde	UG/KG	420	2%		0	1	41	430 U	460 U	480 U	490 U	490 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	430 U	460 U	480 U	490 U	490 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	430 U	460 U	480 U	490 U	490 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	430 U	460 U	480 U	490 U	490 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	430 U	460 U	480 U	490 U	490 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	430 U	460 U	480 U	490 U	490 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Caprolactam	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Carbazole	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Chrysene	UG/KG	0	0%	1000	0	0	41	430 U	460 U	480 U	490 U	490 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	430 U	460 U	480 U	490 U	490 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	430 U	460 U	480 U	490 U	490 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	430 U	460 U	480 U	490 U	490 U
Fluorene	UG/KG	0	0%	30000	0	0	41	430 U	460 U	480 U	490 U	490 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	430 U	460 U	480 U	490 U	490 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Hexachloroethane	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	430 U	460 U	480 U	490 U	490 U
Isophorone	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	430 U	460 U	480 U	490 U	490 U
Nitrobenzene	UG/KG	0	0%		0	0	41	430 U	460 U	480 U	490 U	490 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2200 U	2400 U	2500 U	2500 U	2500 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	430 U	460 U	480 U	490 U	490 U
Phenol	UG/KG	0	0%	330	0	0	41	430 U	460 U	480 U	490 U	490 U
Pyrene	UG/KG	0	0%	100000	0	0	41	430 U	460 U	480 U	490 U	490 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-D4-B	GR-E1	GR-E2-A	GR-E2-B	GR-E3							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011020	007R011027	007R011028	007R011029	007R011030							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/12/06	12/13/06	12/13/06	12/13/06	12/13/06							
QC CODE	SA	SA	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	43 U	46 U	48 U	49 U	49 U
Aroclor-1221	UG/KG	0	0%		0	0	41	88 U	93 U	98 U	100 U	99 U
Aroclor-1232	UG/KG	0	0%		0	0	41	43 U	46 U	48 U	49 U	49 U
Aroclor-1242	UG/KG	0	0%		0	0	41	43 U	46 U	48 U	49 U	49 U
Aroclor-1248	UG/KG	0	0%		0	0	41	43 U	46 U	48 U	49 U	49 U
Aroclor-1254	UG/KG	0	0%		0	0	41	43 U	46 U	48 U	49 U	49 U
Aroclor-1260	UG/KG	0	0%		0	0	41	43 U	46 U	48 U	49 U	49 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
Endrin	UG/KG	0	0%	14	0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-D4-B	GR-E1	GR-E2-A	GR-E2-B	GR-E3							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011020	007R011027	007R011028	007R011029	007R011030							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/12/06	12/13/06	12/13/06	12/13/06	12/13/06							
QC CODE	SA	SA	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.3 U	4.6 U	4.8 U	4.9 U	4.9 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.2 U	2.4 U	2.5 U	2.5 U	2.5 U
Methoxychlor	UG/KG	0	0%		0	0	41	22 U	24 U	25 U	25 U	25 U
Toxaphene	UG/KG	0	0%		0	0	41	43 U	46 U	48 U	49 U	49 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	15700	14400	15500	17300	18600
Antimony	MG/KG	0	0%		0	0	41	0.44 UJ	0.48 UJ	0.5 UJ	0.52 UJ	0.51 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	4.9	3.3	3.4	4.3	3.8
Barium	MG/KG	180	100%	350	0	41	41	119	116	92.8	148	155
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.83	0.77 J	0.79 J	0.99 J	1.1 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.04 U	0.12 J	0.13 J	0.25 J	0.22 J
Calcium	MG/KG	11100	100%		0	41	41	2310 J	3360	2340	3250	4240
Chromium	MG/KG	27.7	100%		0	41	41	23.3	20.1	22.9	24.6	26.3
Cobalt	MG/KG	23.5	100%		0	41	41	16.2	8.7	10.6	13.6	9.9
Copper	MG/KG	22.2	100%	50	0	41	41	18.7	16.9	21.9	19	20.5
Iron	MG/KG	32300	100%		0	41	41	24200	20000	22800	26100	25100
Lead	MG/KG	38.5	100%	63	0	41	41	21.5	21.7	22.6	26	23.8
Magnesium	MG/KG	5230	100%		0	41	41	3760	3590	4280	4260	4440
Manganese	MG/KG	1880	100%	1600	1	41	41	980 J	471	412	1220	672
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.06	0.06	0.05	0.06	0.08
Nickel	MG/KG	31.1	100%	30	2	41	41	24.8	22.4	28.6	27.2	27.9
Potassium	MG/KG	2370	100%		0	41	41	1380	1720	2260	2120	2370
Selenium	MG/KG	4.4	100%	3.9	2	41	41	4.4	1.9 J	1.9 J	2.5 J	2.5 J
Silver	MG/KG	0	0%	2	0	0	41	0.15 U	0.16 U	0.16 U	0.17 U	0.17 U
Sodium	MG/KG	54.7	63%		0	26	41	39.2 J	43.4 J	33 J	46.9 J	51.5 J
Thallium	MG/KG	0	0%		0	0	41	1.8 U	0.39 U	0.41 U	2.2 U	0.85 U
Vanadium	MG/KG	33.5	100%		0	41	41	28.4	26.1	27.2	32	32.9
Zinc	MG/KG	110	100%	109	1	41	41	72.4	76.6	90.6	82.1	110
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	6.83	7.8	7.3 U	7.44 U	9.01
Percent Solids	%	79.3	100%		0	41	41	76.1	71.8	68.5	67.2	67.7

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION						GR	GR	GR	GR	GR		
LOCATION ID						GR-E4	GR-F1	GR-F2	GR-F3	GR-F4		
MATRIX						SOIL	SOIL	SOIL	SOIL	SOIL		
SAMPLE ID						007R011031	007R011035	007R011034	007R011033	007R011032		
TOP OF SAMPLE						0	0	0	0	0		
BOTTOM OF SAMPLE						0.2	0.2	0.2	0.2	0.2		
SAMPLE DATE						12/13/06	12/13/06	12/13/06	12/13/06	12/13/06		
QC CODE						SA	SA	SA	SA	SA		
STUDY ID						RA	RA	RA	RA	RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Acetone	UG/KG	290	98%	50	31	40	41	140	240	130	76	210
Benzene	UG/KG	0	0%	60	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Bromoform	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Carbon disulfide	UG/KG	0	0%		0	0	41	14 U	19 U	13 U	15 U	14 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Chloroethane	UG/KG	0	0%		0	0	41	14 U	19 U	13 U	15 U	14 U
Chloroform	UG/KG	0	0%	370	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Methyl Acetate	UG/KG	11	2%		0	1	41	11 J	19 U	13 U	15 U	14 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Methyl bromide	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	14 U	8.1 J	13 U	15 U	14 U
Methyl chloride	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	12 J	63	13 J	25	13 J

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-E4	GR-F1	GR-F2	GR-F3	GR-F4
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011031	007R011035	007R011034	007R011033	007R011032
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	14 U	19 U	13 U	15 U	14 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	0.92 J	9.6 U	6.7 U	7.3 U	1.4 J
Ortho Xylene	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Styrene	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	1.1 J	9.6 U	6.7 U	7.3 U	7.1 U
Toluene	UG/KG	8.7	27%	700	0	11	41	0.54 J	1.1 J	6.7 U	7.3 U	8.7
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	7.1 U	9.6 U	6.7 U	7.3 U	7.1 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2200 UJ	2600 U	2300 U	2400 U	2300 U
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	430 U	500 U	440 U	460 U	450 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	430 U	500 U	440 U	460 U	450 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2600 U	2300 U	2400 U	2300 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2600 U	2300 U	2400 U	2300 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2200 U	2600 U	2300 U	2400 U	2300 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	430 U	500 U	440 U	460 U	450 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2200 U	2600 U	2300 U	2400 U	2300 U
4-Nitrophenol	UG/KG	0	0%		0	0	41	2200 U	2600 U	2300 U	2400 U	2300 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	430 U	500 U	440 U	460 U	450 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	430 U	500 U	440 U	460 U	450 U
Acetophenone	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR PArt 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-E4	GR-F1	GR-F2	GR-F3	GR-F4
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011031	007R011035	007R011034	007R011033	007R011032
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	430 U	500 U	440 U	460 U	450 U
Atrazine	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Benzaldehyde	UG/KG	420	2%		0	1	41	430 U	500 U	440 U	460 U	450 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	430 U	500 U	440 U	460 U	450 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	430 U	500 U	440 U	460 U	450 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	430 U	500 U	440 U	460 U	450 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	430 U	500 U	440 U	460 U	450 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	430 U	500 U	440 U	460 U	450 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Caprolactam	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Carbazole	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Chrysene	UG/KG	0	0%	1000	0	0	41	430 U	500 U	440 U	460 U	450 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	430 U	500 U	440 U	460 U	450 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	430 U	500 U	440 U	460 U	450 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	430 U	500 U	440 U	460 U	450 U
Fluorene	UG/KG	0	0%	30000	0	0	41	430 U	500 U	440 U	460 U	450 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	430 U	500 U	440 U	460 U	450 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Hexachloroethane	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	430 U	500 U	440 U	460 U	450 U
Isophorone	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	430 U	500 U	440 U	460 U	450 U
Nitrobenzene	UG/KG	0	0%		0	0	41	430 U	500 U	440 U	460 U	450 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2200 U	2600 U	2300 U	2400 U	2300 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	430 U	500 U	440 U	460 U	450 U
Phenol	UG/KG	0	0%	330	0	0	41	430 U	500 U	440 U	460 U	450 U
Pyrene	UG/KG	0	0%	100000	0	0	41	430 U	500 U	440 U	460 U	450 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-E4	GR-F1	GR-F2	GR-F3	GR-F4
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011031	007R011035	007R011034	007R011033	007R011032
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	43 UJ	50 U	44 U	46 U	45 U
Aroclor-1221	UG/KG	0	0%		0	0	41	88 UJ	100 U	89 U	94 U	92 U
Aroclor-1232	UG/KG	0	0%		0	0	41	43 UJ	50 U	44 U	46 U	45 U
Aroclor-1242	UG/KG	0	0%		0	0	41	43 UJ	50 U	44 U	46 U	45 U
Aroclor-1248	UG/KG	0	0%		0	0	41	43 UJ	50 U	44 U	46 U	45 U
Aroclor-1254	UG/KG	0	0%		0	0	41	43 UJ	50 U	44 U	46 U	45 U
Aroclor-1260	UG/KG	0	0%		0	0	41	43 UJ	50 U	44 U	46 U	45 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
Endrin	UG/KG	0	0%	14	0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-E4	GR-F1	GR-F2	GR-F3	GR-F4
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011031	007R011035	007R011034	007R011033	007R011032
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.3 U	5 U	4.4 U	4.6 U	4.5 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.2 U	2.6 U	2.3 U	2.4 U	2.3 U
Methoxychlor	UG/KG	0	0%		0	0	41	22 U	26 U	23 U	24 U	23 U
Toxaphene	UG/KG	0	0%		0	0	41	43 U	50 U	44 U	46 U	45 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	16300	15300	14800	16600	14300
Antimony	MG/KG	0	0%		0	0	41	0.44 UJ	0.53 UJ	0.46 UJ	0.47 UJ	0.47 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	3.9	2.4	3.6	3.1	4.5
Barium	MG/KG	180	100%	350	0	41	41	86.2	110	60.5	128	99.5
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.68 J	0.75 J	0.6 J	0.81 J	0.71 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.04 U	0.08 J	0.05 U	0.11 J	0.1 J
Calcium	MG/KG	11100	100%		0	41	41	1530	3580	1900	2900	2130
Chromium	MG/KG	27.7	100%		0	41	41	21.4	22.5	22.4	23.1	19.3
Cobalt	MG/KG	23.5	100%		0	41	41	11.3	9.4	8.6	12.1	13.7
Copper	MG/KG	22.2	100%	50	0	41	41	13.2	17.2	18.4	15.6	13
Iron	MG/KG	32300	100%		0	41	41	23400	20800	21100	21700	23200
Lead	MG/KG	38.5	100%	63	0	41	41	21.5	24.7	22.8	22	23.1
Magnesium	MG/KG	5230	100%		0	41	41	3660	3820	3970	3880	3070
Manganese	MG/KG	1880	100%	1600	1	41	41	648	553	217	818	1180
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.04	0.06	0.04 J	0.05	0.05
Nickel	MG/KG	31.1	100%	30	2	41	41	20.1	24.9	24.2	23.7	18
Potassium	MG/KG	2370	100%		0	41	41	1400	2370	1860	1930	1470
Selenium	MG/KG	4.4	100%	3.9	2	41	41	2.1 J	1.5 J	1.9 J	1.7 J	2.2 J
Silver	MG/KG	0	0%	2	0	0	41	0.15 U	0.17 U	0.15 U	0.15 U	0.15 U
Sodium	MG/KG	54.7	63%		0	26	41	36.3 J	41.9 J	35.2 J	45.3 J	40.3 J
Thallium	MG/KG	0	0%		0	0	41	0.74 U	0.44 U	0.38 U	1.2 U	2 U
Vanadium	MG/KG	33.5	100%		0	41	41	29.9	26.3	27	29.4	30.5
Zinc	MG/KG	110	100%	109	1	41	41	74	94.9	78.1	77	58.7
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	7.36	7.99	6.66 U	9.27	6.87 U
Percent Solids	%	79.3	100%		0	41	41	76.1	66.3	75.1	71.2	72.8

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-G1	GR-G2	GR-G2	GR-G3-A	GR-G3-B
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011036	007R011041	007R011037	007R011038	007R011039
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Acetone	UG/KG	290	98%	50	31	40	41	110	290 J	75 J	200	160
Benzene	UG/KG	0	0%	60	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Bromoform	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Carbon disulfide	UG/KG	0	0%		0	0	41	14 U	15 U	14 U	16 U	17 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Chloroethane	UG/KG	0	0%		0	0	41	14 U	15 U	14 U	16 U	17 U
Chloroform	UG/KG	0	0%	370	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Methyl Acetate	UG/KG	11	2%		0	1	41	14 U	15 U	14 U	16 U	17 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Methyl bromide	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	14 U	15 U	14 U	16 U	17 U
Methyl chloride	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	24	27 J	5.5 J	29	13 J

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION								GR	GR	GR	GR	GR
LOCATION ID								GR-G1	GR-G2	GR-G2	GR-G3-A	GR-G3-B
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								007R011036	007R011041	007R011037	007R011038	007R011039
TOP OF SAMPLE								0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/13/06	12/13/06	12/13/06	12/13/06	12/13/06
QC CODE								SA	DU	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	14 U	15 U	14 U	16 U	17 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Ortho Xylene	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Styrene	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	0.7 J	7.6 U	7.2 U	8.2 U	8.4 U
Toluene	UG/KG	8.7	27%	700	0	11	41	1.2 J	0.8 J	7.2 U	0.59 J	8.4 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	7.2 U	7.6 U	7.2 U	8.2 U	8.4 U
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2300 U	2300 U	2300 U	2400 U	2500 U
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	440 U	430 J	450 U	470 U	480 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	440 U	450 U	450 U	470 U	480 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2300 U	2300 U	2400 U	2500 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2300 U	2300 U	2400 U	2500 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2300 U	2300 U	2300 U	2400 U	2500 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	440 U	450 U	450 U	470 U	480 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2300 U	2300 U	2400 U	2500 U
4-Nitrophenol	UG/KG	0	0%		0	0	41	2300 U	2300 U	2300 U	2400 U	2500 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	440 U	450 U	450 U	470 U	480 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	440 U	450 U	450 U	470 U	480 U
Acetophenone	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION						GR	GR	GR	GR	GR		
LOCATION ID						GR-G1	GR-G2	GR-G2	GR-G3-A	GR-G3-B		
MATRIX						SOIL	SOIL	SOIL	SOIL	SOIL		
SAMPLE ID						007R011036	007R011041	007R011037	007R011038	007R011039		
TOP OF SAMPLE						0	0	0	0	0		
BOTTOM OF SAMPLE						0.2	0.2	0.2	0.2	0.2		
SAMPLE DATE						12/13/06	12/13/06	12/13/06	12/13/06	12/13/06		
QC CODE						SA	DU	SA	SA	SA		
STUDY ID						RA	RA	RA	RA	RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	440 U	450 U	450 U	470 U	480 U
Atrazine	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Benzaldehyde	UG/KG	420	2%		0	1	41	440 U	450 U	450 U	420 J	480 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	440 U	450 U	450 U	470 U	480 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	440 U	450 U	450 U	470 U	480 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	440 U	450 U	450 U	470 U	480 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	440 U	450 U	450 U	470 U	480 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	440 U	450 U	450 U	470 U	480 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Caprolactam	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Carbazole	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Chrysene	UG/KG	0	0%	1000	0	0	41	440 U	450 U	450 U	470 U	480 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	440 U	450 U	450 U	470 U	480 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	440 U	450 U	450 U	470 U	480 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	440 U	450 U	450 U	470 U	480 U
Fluorene	UG/KG	0	0%	30000	0	0	41	440 U	450 U	450 U	470 U	480 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	440 U	450 U	450 U	470 U	480 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Hexachloroethane	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	440 U	450 U	450 U	470 U	480 U
Isophorone	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	440 U	450 U	450 U	470 U	480 U
Nitrobenzene	UG/KG	0	0%		0	0	41	440 U	450 U	450 U	470 U	480 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2300 U	2300 U	2300 U	2400 U	2500 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	440 U	450 U	450 U	470 U	480 U
Phenol	UG/KG	0	0%	330	0	0	41	440 U	450 U	450 U	470 U	480 U
Pyrene	UG/KG	0	0%	100000	0	0	41	440 U	450 U	450 U	470 U	480 U
Explosives												

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-G1	GR-G2	GR-G2	GR-G3-A	GR-G3-B							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011036	007R011041	007R011037	007R011038	007R011039							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/13/06	12/13/06	12/13/06	12/13/06	12/13/06							
QC CODE	SA	DU	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs												
Aroclor-1016	UG/KG	0	0%		0	0	41	44 U	45 U	45 U	47 U	48 U
Aroclor-1221	UG/KG	0	0%		0	0	41	90 U	91 U	92 U	96 U	98 U
Aroclor-1232	UG/KG	0	0%		0	0	41	44 U	45 U	45 U	47 U	48 U
Aroclor-1242	UG/KG	0	0%		0	0	41	44 U	45 U	45 U	47 U	48 U
Aroclor-1248	UG/KG	0	0%		0	0	41	44 U	45 U	45 U	47 U	48 U
Aroclor-1254	UG/KG	0	0%		0	0	41	44 U	45 U	45 U	47 U	48 U
Aroclor-1260	UG/KG	0	0%		0	0	41	44 U	45 U	45 U	47 U	48 U
Pesticides												
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
Endrin	UG/KG	0	0%	14	0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION	GR	GR	GR	GR	GR							
LOCATION ID	GR-G1	GR-G2	GR-G2	GR-G3-A	GR-G3-B							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
SAMPLE ID	007R011036	007R011041	007R011037	007R011038	007R011039							
TOP OF SAMPLE	0	0	0	0	0							
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2	0.2							
SAMPLE DATE	12/13/06	12/13/06	12/13/06	12/13/06	12/13/06							
QC CODE	SA	DU	SA	SA	SA							
STUDY ID	RA	RA	RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.4 U	4.5 U	4.5 U	4.7 U	4.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U
Methoxychlor	UG/KG	0	0%		0	0	41	23 U	23 U	23 U	24 U	25 U
Toxaphene	UG/KG	0	0%		0	0	41	44 U	45 U	45 U	47 U	48 U
Metals												
Aluminum	MG/KG	19600	100%		0	41	41	15000	16400	15900	13200	16200
Antimony	MG/KG	0	0%		0	0	41	0.46 UJ	0.46 UJ	0.48 UJ	0.48 UJ	0.49 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	2.5	3.6	3.3	2.8	3.2
Barium	MG/KG	180	100%	350	0	41	41	87.4	86	84.6	97.6	180
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.68 J	0.76 J	0.75 J	0.58 J	0.95 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.05 U	0.05 U	0.05 J	0.05 U	0.24 J
Calcium	MG/KG	11100	100%		0	41	41	1800	2090	2250	3120	4420
Chromium	MG/KG	27.7	100%		0	41	41	21.4	24.4	23.9	16.7	23.1
Cobalt	MG/KG	23.5	100%		0	41	41	8.9	13.9	13.7	5 J	9.4
Copper	MG/KG	22.2	100%	50	0	41	41	16.4	21.4	21	12.1	20.8
Iron	MG/KG	32300	100%		0	41	41	20000	24300	23800	15900	22400
Lead	MG/KG	38.5	100%	63	0	41	41	20.7	27	26.3	18.2	38.5
Magnesium	MG/KG	5230	100%		0	41	41	3650	4380	4300	2940	3940
Manganese	MG/KG	1880	100%	1600	1	41	41	521	606	605	133	564
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.05	0.05	0.04 J	0.05	0.08
Nickel	MG/KG	31.1	100%	30	2	41	41	22.7	31.1	30.5	13.9	24.9
Potassium	MG/KG	2370	100%		0	41	41	1570	2030	1970	1230	1900
Selenium	MG/KG	4.4	100%	3.9	2	41	41	1.6 J	2 J	1.6 J	1.4 J	2.2 J
Silver	MG/KG	0	0%	2	0	0	41	0.15 U	0.15 U	0.16 U	0.16 U	0.16 U
Sodium	MG/KG	54.7	63%		0	26	41	39.1 J	32.2 J	32.7 J	46.9 J	54.7 J
Thallium	MG/KG	0	0%		0	0	41	0.76 U	0.77 U	0.4 U	0.4 U	1.2 U
Vanadium	MG/KG	33.5	100%		0	41	41	25.2	27.3	26.5	24	29.2
Zinc	MG/KG	110	100%	109	1	41	41	75.2	93	92.8	55.4	109
Other Analyses												
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	6.68 U	8.83	8.34	8.88	9.52
Percent Solids	%	79.3	100%		0	41	41	74.8	73.6	73.1	69.8	68.3

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	41	6.7 U	6.9 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	41	6.7 U	6.9 U
1,1-Dichloroethane	UG/KG	0	0%	330	0	0	41	6.7 U	6.9 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	41	6.7 U	6.9 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	41	6.7 U	6.9 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	41	6.7 U	6.9 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	41	6.7 U	6.9 U
Acetone	UG/KG	290	98%	50	31	40	41	150	130
Benzene	UG/KG	0	0%	60	0	0	41	6.7 U	6.9 U
Bromodichloromethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Bromoform	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Carbon disulfide	UG/KG	0	0%		0	0	41	13 U	14 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	41	6.7 U	6.9 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	41	6.7 U	6.9 U
Chlorodibromomethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Chloroethane	UG/KG	0	0%		0	0	41	13 U	14 U
Chloroform	UG/KG	0	0%	370	0	0	41	6.7 U	6.9 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	41	6.7 U	6.9 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Cyclohexane	UG/KG	1.5	2%		0	1	41	6.7 U	6.9 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	41	6.7 U	6.9 U
Isopropylbenzene	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Meta/Para Xylene	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Methyl Acetate	UG/KG	11	2%		0	1	41	13 U	14 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	41	6.7 U	6.9 U
Methyl bromide	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Methyl butyl ketone	UG/KG	8.1	2%		0	1	41	13 U	14 U
Methyl chloride	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Methyl cyclohexane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Methyl ethyl ketone	UG/KG	63	90%	120	0	37	41	11 J	9.5 J

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	41	13 U	14 U
Methylene chloride	UG/KG	4.6	73%	50	0	30	41	6.7 U	6.9 U
Ortho Xylene	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Styrene	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Tetrachloroethene	UG/KG	2.4	10%	1300	0	4	41	6.7 U	0.55 J
Toluene	UG/KG	8.7	27%	700	0	11	41	6.7 U	0.63 J
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	41	6.7 U	6.9 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Trichloroethene	UG/KG	0	0%	470	0	0	41	6.7 U	6.9 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	41	6.7 U	6.9 U
Vinyl chloride	UG/KG	0	0%	20	0	0	41	6.7 U	6.9 U
Semivolatile Organic Compounds									
1,1'-Biphenyl	UG/KG	0	0%		0	0	41	440 U	450 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	41	440 U	450 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	41	2300 U	2300 U
2,4-Dinitrotoluene	UG/KG	430	2%		0	1	41	440 U	450 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	440 U	450 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	41	440 U	450 U
2-Chlorophenol	UG/KG	0	0%		0	0	41	440 U	450 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	41	440 U	450 U
2-Methylphenol	UG/KG	0	0%	330	0	0	41	440 U	450 U
2-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2300 U
2-Nitrophenol	UG/KG	0	0%		0	0	41	440 U	450 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	41	440 U	450 U
3-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2300 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	41	2300 U	2300 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	41	440 U	450 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	41	440 U	450 U
4-Chloroaniline	UG/KG	0	0%		0	0	41	440 U	450 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	41	440 U	450 U
4-Methylphenol	UG/KG	0	0%	330	0	0	41	440 U	450 U
4-Nitroaniline	UG/KG	0	0%		0	0	41	2300 U	2300 U
4-Nitrophenol	UG/KG	0	0%		0	0	41	2300 U	2300 U
Acenaphthene	UG/KG	0	0%	20000	0	0	41	440 U	450 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	41	440 U	450 U
Acetophenone	UG/KG	0	0%		0	0	41	440 U	450 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION
LOCATION ID
MATRIX
SAMPLE ID
TOP OF SAMPLE
BOTTOM OF SAMPLE
SAMPLE DATE
QC CODE
STUDY ID

GR
GR-G4-A
SOIL
007R011040
0
0.2
12/13/06
SA
RA
GR
GR-G4-B
SOIL
007R011042
0
0.2
12/13/06
SA
RA

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)
Anthracene	UG/KG	0	0%	100000	0	0	41	440 U	450 U
Atrazine	UG/KG	0	0%		0	0	41	440 U	450 U
Benzaldehyde	UG/KG	420	2%		0	1	41	440 U	450 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	41	440 U	450 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	41	440 U	450 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	41	440 U	450 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	41	440 U	450 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	41	440 U	450 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	41	440 U	450 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	41	440 U	450 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	41	440 U	450 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	41	440 U	450 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U
Caprolactam	UG/KG	0	0%		0	0	41	440 U	450 U
Carbazole	UG/KG	0	0%		0	0	41	440 U	450 U
Chrysene	UG/KG	0	0%	1000	0	0	41	440 U	450 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	41	440 U	450 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	41	440 U	450 U
Diethyl phthalate	UG/KG	0	0%		0	0	41	440 U	450 U
Dimethylphthalate	UG/KG	0	0%		0	0	41	440 U	450 U
Fluoranthene	UG/KG	0	0%	100000	0	0	41	440 U	450 U
Fluorene	UG/KG	0	0%	30000	0	0	41	440 U	450 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	41	440 U	450 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	41	440 U	450 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	41	440 U	450 U
Hexachloroethane	UG/KG	0	0%		0	0	41	440 U	450 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	41	440 U	450 U
Isophorone	UG/KG	0	0%		0	0	41	440 U	450 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	41	440 U	450 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	41	440 U	450 U
Naphthalene	UG/KG	0	0%	12000	0	0	41	440 U	450 U
Nitrobenzene	UG/KG	0	0%		0	0	41	440 U	450 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	41	2300 U	2300 U
Phenanthrene	UG/KG	0	0%	100000	0	0	41	440 U	450 U
Phenol	UG/KG	0	0%	330	0	0	41	440 U	450 U
Pyrene	UG/KG	0	0%	100000	0	0	41	440 U	450 U
Explosives									

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	41	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	41	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	41	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	41	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	41	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	41	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	41	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	41	2000 U	2000 U
PCBs									
Aroclor-1016	UG/KG	0	0%		0	0	41	44 U	45 U
Aroclor-1221	UG/KG	0	0%		0	0	41	90 U	92 U
Aroclor-1232	UG/KG	0	0%		0	0	41	44 U	45 U
Aroclor-1242	UG/KG	0	0%		0	0	41	44 U	45 U
Aroclor-1248	UG/KG	0	0%		0	0	41	44 U	45 U
Aroclor-1254	UG/KG	0	0%		0	0	41	44 U	45 U
Aroclor-1260	UG/KG	0	0%		0	0	41	44 U	45 U
Pesticides									
4,4'-DDD	UG/KG	0	0%	3.3	0	0	41	4.4 U	4.5 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	41	4.4 U	4.5 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	41	4.4 U	4.5 U
Aldrin	UG/KG	0	0%	5	0	0	41	2.3 U	2.3 U
Alpha-BHC	UG/KG	0	0%	20	0	0	41	2.3 U	2.3 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	41	2.3 U	2.3 U
Beta-BHC	UG/KG	0	0%	36	0	0	41	2.3 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	41	2.3 U	2.3 U
Dieldrin	UG/KG	0	0%	5	0	0	41	4.4 U	4.5 U
Endosulfan I	UG/KG	0	0%	2400	0	0	41	2.3 U	2.3 U
Endosulfan II	UG/KG	0	0%	2400	0	0	41	4.4 U	4.5 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	41	4.4 U	4.5 U
Endrin	UG/KG	0	0%	14	0	0	41	4.4 U	4.5 U
Endrin aldehyde	UG/KG	0	0%		0	0	41	4.4 U	4.5 U

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**Appendix E Table 1B
Grenade Range, SEAD-007-R-001 Confirmation Soil Sample Results**

**Munitions Response and CECLA Closure
Seneca Army Depot Activity**

SITE LOCATION
LOCATION ID
MATRIX
SAMPLE ID
TOP OF SAMPLE
BOTTOM OF SAMPLE
SAMPLE DATE
QC CODE
STUDY ID

GR
GR-G4-A
SOIL
007R011040
0
0.2
12/13/06
SA
RA
GR
GR-G4-B
SOIL
007R011042
0
0.2
12/13/06
SA
RA

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)
Endrin ketone	UG/KG	0	0%		0	0	41	4.4 U	4.5 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	41	2.3 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%		0	0	41	2.3 U	2.3 U
Heptachlor	UG/KG	0	0%	42	0	0	41	2.3 U	2.3 U
Heptachlor epoxide	UG/KG	0	0%		0	0	41	2.3 U	2.3 U
Methoxychlor	UG/KG	0	0%		0	0	41	23 U	23 U
Toxaphene	UG/KG	0	0%		0	0	41	44 U	45 U
Metals									
Aluminum	MG/KG	19600	100%		0	41	41	12200	14000
Antimony	MG/KG	0	0%		0	0	41	0.46 UJ	0.46 UJ
Arsenic	MG/KG	9.3	100%	13	0	41	41	2.8	3
Barium	MG/KG	180	100%	350	0	41	41	84.5	88.2
Beryllium	MG/KG	1.1	98%	7.2	0	40	41	0.55 J	0.69 J
Cadmium	MG/KG	0.25	59%	2.5	0	24	41	0.05 J	0.05 U
Calcium	MG/KG	11100	100%		0	41	41	2370	3020
Chromium	MG/KG	27.7	100%		0	41	41	15.9	20.2
Cobalt	MG/KG	23.5	100%		0	41	41	10.5	8.6
Copper	MG/KG	22.2	100%	50	0	41	41	11.8	15.9
Iron	MG/KG	32300	100%		0	41	41	16400	20900
Lead	MG/KG	38.5	100%	63	0	41	41	17.1	20
Magnesium	MG/KG	5230	100%		0	41	41	2790	3700
Manganese	MG/KG	1880	100%	1600	1	41	41	563	269
Mercury	MG/KG	0.08	100%	0.18	0	41	41	0.04	0.05
Nickel	MG/KG	31.1	100%	30	2	41	41	14.7	21.7
Potassium	MG/KG	2370	100%		0	41	41	1090	1500
Selenium	MG/KG	4.4	100%	3.9	2	41	41	1.3 J	1.8 J
Silver	MG/KG	0	0%	2	0	0	41	0.15 U	0.15 U
Sodium	MG/KG	54.7	63%		0	26	41	35.6 J	42.9 J
Thallium	MG/KG	0	0%		0	0	41	1.1 U	0.38 U
Vanadium	MG/KG	33.5	100%		0	41	41	23	24.8
Zinc	MG/KG	110	100%	109	1	41	41	52.4	64.5
Other Analyses									
Nitrate Nitrogen	MG/KG	9.52	59%		0	24	41	6.69 U	8.08
Percent Solids	%	79.3	100%		0	41	41	74.7	73

(1) - NYSDEC's Unrestricted Use Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 2A
EOD Area 2 Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION						EOD2	EOD2	EOD2	EOD2	EOD2		
LOCATION ID						EOD2-A1	EOD2-A2	EOD2-A3	EOD2-A4	EOD2-B1		
MATRIX						SOIL	SOIL	SOIL	SOIL	SOIL		
SAMPLE ID						002R011001	002R011002	002R011003	002R011004	002R011008		
TOP OF SAMPLE						0	0	0	0	0		
BOTTOM OF SAMPLE						0.2	0.2	0.2	0.2	0.2		
SAMPLE DATE						12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/11/2006		
QC CODE						SA	SA	SA	SA	SA		
STUDY ID						RA	RA	RA	RA	RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	100	83%	50	8	10	12	68	31.2 U	32 U	56	61
Carbon disulfide	UG/KG	2.4	8%		0	1	12	14 U	16 U	16 U	14 U	15 U
Cyclohexane	UG/KG	0.88	8%		0	1	12	7 UJ	7.8 UJ	8 UJ	7.1 UJ	7.7 UJ
Methyl Acetate	UG/KG	2.8	8%		0	1	12	14 UJ	16 UJ	16 UJ	14 UJ	15 UJ
Methyl cyclohexane	UG/KG	1.1	8%		0	1	12	7 UJ	7.8 UJ	8 UJ	7.1 UJ	7.7 UJ
Methyl ethyl ketone	UG/KG	15	92%	120	0	11	12	3 J	2.8 J	16 UJ	6.2 J	3.9 J
Methylene chloride	UG/KG	2.3	100%	50	0	12	12	1.4 J	2 J	2.3 J	1.8 J	1.7 J
Toluene	UG/KG	1.4	25%	700	0	3	12	1.4 J	7.8 U	8 U	7.1 U	7.7 U
Semivolatile Organic Compounds												
Acenaphthene	UG/KG	98	17%	20000	0	2	12	470 U	460 U	470 U	450 U	60 J
Anthracene	UG/KG	240	17%	100000	0	2	12	470 U	460 U	470 U	450 U	87 J
Benzo(a)anthracene	UG/KG	410	17%	1000	0	2	12	470 U	460 U	470 U	450 U	150 J
Benzo(a)pyrene	UG/KG	310	17%	1000	0	2	12	470 U	460 U	470 U	450 U	110 J
Benzo(b)fluoranthene	UG/KG	230	17%	1000	0	2	12	470 U	460 U	470 U	450 U	100 J
Benzo(ghi)perylene	UG/KG	150	17%	100000	0	2	12	470 U	460 U	470 U	450 U	57 J
Benzo(k)fluoranthene	UG/KG	300	17%	800	0	2	12	470 U	460 U	470 U	450 U	120 J
Carbazole	UG/KG	120	17%		0	2	12	470 U	460 U	470 U	450 U	48 J
Chrysene	UG/KG	350	17%	1000	0	2	12	470 U	460 U	470 U	450 U	140 J
Dibenz(a,h)anthracene	UG/KG	59	8%	330	0	1	12	470 U	460 U	470 U	450 U	480 U
Dibenzofuran	UG/KG	51	8%	7000	0	1	12	470 U	460 U	470 U	450 U	480 U
Fluoranthene	UG/KG	750	17%	100000	0	2	12	470 U	460 U	470 U	450 U	310 J
Fluorene	UG/KG	100	17%	30000	0	2	12	470 U	460 U	470 U	450 U	50 J
Indeno(1,2,3-cd)pyrene	UG/KG	150	17%	500	0	2	12	470 U	460 U	470 U	450 U	57 J
Naphthalene	UG/KG	45	17%	12000	0	2	12	470 U	460 U	470 U	450 U	45 J
Phenanthrene	UG/KG	720	17%	100000	0	2	12	470 U	460 U	470 U	450 U	340 J
Pyrene	UG/KG	520	17%	100000	0	2	12	470 U	460 U	470 U	450 U	220 J
B(a)P Equivalentents	UG/KG	454	17%	10000 (2)	0	2	12	NA	NA	NA	NA	383.3
Metals												
Aluminum	MG/KG	18100	100%		0	12	12	16700	17100	14500	13100	16700
Arsenic	MG/KG	4.5	100%	13	0	12	12	3.7	4.5	2.7	2.8	3.7
Barium	MG/KG	144	100%	350	0	12	12	100	144	89.7	84.1	111
Beryllium	MG/KG	0.91	92%	7.2	0	11	12	0.85	0.85	0.63 J	0.61 J	0.02 U
Cadmium	MG/KG	0.61	67%	2.5	0	8	12	0.05 U	0.61 J	0.05 U	0.13 J	0.1 J
Calcium	MG/KG	19200	100%		0	12	12	3260	2830	2930	2930	5250
Chromium	MG/KG	26.8	100%		0	12	12	25.7	23.7	19.2	18.2	24.3
Cobalt	MG/KG	19.4	100%		0	12	12	10.1	19.4	6.4 J	7.3	9.6
Copper	MG/KG	37.3	100%	50	0	12	12	20.7	17.9	12.3	12.1	20.8
Iron	MG/KG	28200	100%		0	12	12	26500	26100	19200	18500	24200
Lead	MG/KG	27.9	100%	63	0	12	12	21.6	24	17.2	15.4	22.3
Magnesium	MG/KG	6620	100%		0	12	12	4690	3590	3060	3060	4750
Manganese	MG/KG	2770	100%	1600	1	12	12	442	2770	278	605	497
Mercury	MG/KG	0.06	100%	0.18	0	12	12	0.05	0.05	0.05	0.05	0.06
Nickel	MG/KG	49.9	100%	30	3	12	12	32.2	26	16.5	16	29.4
Potassium	MG/KG	2040	100%		0	12	12	1620 J	1320 J	1430 J	1470 J	2040 J
Selenium	MG/KG	2.6	100%	3.9	0	12	12	1.8	2.6	1.6	1.7	1.9
Vanadium	MG/KG	33.8	100%		0	12	12	29.2	33.8	27.8	25.4	30
Zinc	MG/KG	79.2	100%	109	0	12	12	78.1	68.2	60.5	57.5	79.2
Other Analytes												
Nitrate Nitrogen	MG/KG	9.21	33%		0	4	12	7.07 U	7.99	7.17 U	7.16	7.29 U
Percent Solids	%	90.3	100%		0	12	12	70.7	71.3	69.7	72.6	68.6

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2A
EOD Area 2 Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION						EOD2	EOD2	EOD2	EOD2	EOD2		
LOCATION ID						EOD2-B2	EOD2-B3	EOD2-B4	EOD2-C1	EOD2-C2		
MATRIX						SOIL	SOIL	SOIL	SOIL	SOIL		
SAMPLE ID						002R011007	002R011006	002R011005	002R011011	002R011010		
TOP OF SAMPLE						0	0	0	0	0		
BOTTOM OF SAMPLE						0.2	0.2	0.2	0.2	0.2		
SAMPLE DATE						12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/11/2006		
QC CODE						SA	SA	SA	SA	SA		
STUDY ID						RA	RA	RA	RA	RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	100	83%	50	8	10	12	98	47	62	63	75
Carbon disulfide	UG/KG	2.4	8%		0	1	12	15 U	14 U	13 U	13 U	16 U
Cyclohexane	UG/KG	0.88	8%		0	1	12	7.5 UJ	6.9 UJ	0.88 J	6.3 UJ	8 UJ
Methyl Acetate	UG/KG	2.8	8%		0	1	12	15 UJ	2.8 J	13 UJ	13 UJ	16 UJ
Methyl cyclohexane	UG/KG	1.1	8%		0	1	12	7.5 UJ	6.9 UJ	1.1 J	6.3 UJ	8 UJ
Methyl ethyl ketone	UG/KG	15	92%	120	0	11	12	7.6 J	3.1 J	15	4.4 J	6.3 J
Methylene chloride	UG/KG	2.3	100%	50	0	12	12	2 J	2.3 J	1.4 J	1.6 J	1.4 J
Toluene	UG/KG	1.4	25%	700	0	3	12	0.68 J	6.9 U	0.44 J	6.3 U	8 U
Semivolatile Organic Compounds												
Acenaphthene	UG/KG	98	17%	20000	0	2	12	98 J	390 U	450 U	440 U	510 U
Anthracene	UG/KG	240	17%	100000	0	2	12	240 J	390 U	450 U	440 U	510 U
Benzo(a)anthracene	UG/KG	410	17%	1000	0	2	12	410 J	390 U	450 U	440 U	510 U
Benzo(a)pyrene	UG/KG	310	17%	1000	0	2	12	310 J	390 U	450 U	440 U	510 U
Benzo(b)fluoranthene	UG/KG	230	17%	1000	0	2	12	230 J	390 U	450 U	440 U	510 U
Benzo(ghi)perylene	UG/KG	150	17%	100000	0	2	12	150 J	390 U	450 U	440 U	510 U
Benzo(k)fluoranthene	UG/KG	300	17%	800	0	2	12	300 J	390 U	450 U	440 U	510 U
Carbazole	UG/KG	120	17%		0	2	12	120 J	390 U	450 U	440 U	510 U
Chrysene	UG/KG	350	17%	1000	0	2	12	350 J	390 U	450 U	440 U	510 U
Dibenz(a,h)anthracene	UG/KG	59	8%	330	0	1	12	59 J	390 U	450 U	440 U	510 U
Dibenzofuran	UG/KG	51	8%	7000	0	1	12	51 J	390 U	450 U	440 U	510 U
Fluoranthene	UG/KG	750	17%	100000	0	2	12	750	390 U	450 U	440 U	510 U
Fluorene	UG/KG	100	17%	30000	0	2	12	100 J	390 U	450 U	440 U	510 U
Indeno(1,2,3-cd)pyrene	UG/KG	150	17%	500	0	2	12	150 J	390 U	450 U	440 U	510 U
Naphthalene	UG/KG	45	17%	12000	0	2	12	37 J	390 U	450 U	440 U	510 U
Phenanthrene	UG/KG	720	17%	100000	0	2	12	720	390 U	450 U	440 U	510 U
Pyrene	UG/KG	520	17%	100000	0	2	12	520	390 U	450 U	440 U	510 U
B(a)P Equivalentents	UG/KG	454	17%	10000 (2)	0	2	12	454.5	NA	NA	NA	NA
Metals												
Aluminum	MG/KG	18100	100%		0	12	12	17400	11000	13800	18100	13800
Arsenic	MG/KG	4.5	100%	13	0	12	12	3.9	2.5	3.5	3.6	2.9
Barium	MG/KG	144	100%	350	0	12	12	95.2	70.8	103	111	91.3
Beryllium	MG/KG	0.91	92%	7.2	0	11	12	0.87	0.53 J	0.69	0.91	0.67 J
Cadmium	MG/KG	0.61	67%	2.5	0	8	12	0.06 J	0.08 J	0.07 J	0.07 J	0.05 U
Calcium	MG/KG	19200	100%		0	12	12	2440	1900	19200	2490	2880
Chromium	MG/KG	26.8	100%		0	12	12	25.8	15.2	20.6	26.8	19.2
Cobalt	MG/KG	19.4	100%		0	12	12	10.3	5.1 J	8.8	15.3	6 J
Copper	MG/KG	37.3	100%	50	0	12	12	20.2	9.4	19.5	15.3	14
Iron	MG/KG	28200	100%		0	12	12	26900	16200	22200	27800	18900
Lead	MG/KG	27.9	100%	63	0	12	12	22.4	14.2	17.6	21.1	17.1
Magnesium	MG/KG	6620	100%		0	12	12	4480	2430	6400	4370	3110
Manganese	MG/KG	2770	100%	1600	1	12	12	495	297	423	859	317
Mercury	MG/KG	0.06	100%	0.18	0	12	12	0.05	0.04	0.05	0.05	0.06
Nickel	MG/KG	49.9	100%	30	3	12	12	30.4	13.3	25.4	29.2	16.4
Potassium	MG/KG	2040	100%		0	12	12	1860 J	1050 J	1570 J	1510 J	1590 J
Selenium	MG/KG	2.6	100%	3.9	0	12	12	2.1	1.5	1.9	2.2	1.4 J
Vanadium	MG/KG	33.8	100%		0	12	12	31.5	21.6	27.2	31.5	27
Zinc	MG/KG	79.2	100%	109	0	12	12	75.2	51.3	71.8	75	59.2
Other Analytes												
Nitrate Nitrogen	MG/KG	9.21	33%		0	4	12	7.03	5.87 U	6.86 U	6.65 U	7.66 U
Percent Solids	%	90.3	100%		0	12	12	71.1	85.2	72.9	75.2	65.3

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2A
EOD Area 2 Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)																																																																																										
<table border="0" style="width:100%; border:none;"> <tr> <td style="width:15%;">SITE LOCATION</td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;"></td> <td style="width:15%;">EOD2</td> <td style="width:15%;">EOD2</td> </tr> <tr> <td>LOCATION ID</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>EOD2-C3</td> <td>EOD2-C4</td> </tr> <tr> <td>MATRIX</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SOIL</td> <td>SOIL</td> </tr> <tr> <td>SAMPLE ID</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>002R011009</td> <td>002R011012</td> </tr> <tr> <td>TOP OF SAMPLE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> </tr> <tr> <td>BOTTOM OF SAMPLE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.2</td> <td>0.2</td> </tr> <tr> <td>SAMPLE DATE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/11/2006</td> <td>12/11/2006</td> </tr> <tr> <td>QC CODE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SA</td> <td>SA</td> </tr> <tr> <td>STUDY ID</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RA</td> <td>RA</td> </tr> </table>										SITE LOCATION								EOD2	EOD2	LOCATION ID								EOD2-C3	EOD2-C4	MATRIX								SOIL	SOIL	SAMPLE ID								002R011009	002R011012	TOP OF SAMPLE								0	0	BOTTOM OF SAMPLE								0.2	0.2	SAMPLE DATE								12/11/2006	12/11/2006	QC CODE								SA	SA	STUDY ID								RA	RA
SITE LOCATION								EOD2	EOD2																																																																																										
LOCATION ID								EOD2-C3	EOD2-C4																																																																																										
MATRIX								SOIL	SOIL																																																																																										
SAMPLE ID								002R011009	002R011012																																																																																										
TOP OF SAMPLE								0	0																																																																																										
BOTTOM OF SAMPLE								0.2	0.2																																																																																										
SAMPLE DATE								12/11/2006	12/11/2006																																																																																										
QC CODE								SA	SA																																																																																										
STUDY ID								RA	RA																																																																																										
Volatile Organic Compounds																																																																																																			
Acetone	UG/KG	100	83%	50	8	10	12	50	100																																																																																										
Carbon disulfide	UG/KG	2.4	8%		0	1	12	16 U	2.4 J																																																																																										
Cyclohexane	UG/KG	0.88	8%		0	1	12	7.8 UJ	5.5 U																																																																																										
Methyl Acetate	UG/KG	2.8	8%		0	1	12	16 UJ	11 U																																																																																										
Methyl cyclohexane	UG/KG	1.1	8%		0	1	12	7.8 UJ	5.5 U																																																																																										
Methyl ethyl ketone	UG/KG	15	92%	120	0	11	12	4.6 J	3.8 J																																																																																										
Methylene chloride	UG/KG	2.3	100%	50	0	12	12	1.9 J	0.51 J																																																																																										
Toluene	UG/KG	1.4	25%	700	0	3	12	7.8 U	5.5 U																																																																																										
Semivolatile Organic Compounds																																																																																																			
Acenaphthene	UG/KG	98	17%	20000	0	2	12	470 U	370 U																																																																																										
Anthracene	UG/KG	240	17%	100000	0	2	12	470 U	370 U																																																																																										
Benzo(a)anthracene	UG/KG	410	17%	1000	0	2	12	470 U	370 U																																																																																										
Benzo(a)pyrene	UG/KG	310	17%	1000	0	2	12	470 U	370 U																																																																																										
Benzo(b)fluoranthene	UG/KG	230	17%	1000	0	2	12	470 U	370 U																																																																																										
Benzo(ghi)perylene	UG/KG	150	17%	100000	0	2	12	470 U	370 U																																																																																										
Benzo(k)fluoranthene	UG/KG	300	17%	800	0	2	12	470 U	370 U																																																																																										
Carbazole	UG/KG	120	17%		0	2	12	470 U	370 U																																																																																										
Chrysene	UG/KG	350	17%	1000	0	2	12	470 U	370 U																																																																																										
Dibenz(a,h)anthracene	UG/KG	59	8%	330	0	1	12	470 U	370 U																																																																																										
Dibenzofuran	UG/KG	51	8%	7000	0	1	12	470 U	370 U																																																																																										
Fluoranthene	UG/KG	750	17%	100000	0	2	12	470 U	370 U																																																																																										
Fluorene	UG/KG	100	17%	30000	0	2	12	470 U	370 U																																																																																										
Indeno(1,2,3-cd)pyrene	UG/KG	150	17%	500	0	2	12	470 U	370 U																																																																																										
Naphthalene	UG/KG	45	17%	12000	0	2	12	470 U	370 U																																																																																										
Phenanthrene	UG/KG	720	17%	100000	0	2	12	470 U	370 U																																																																																										
Pyrene	UG/KG	520	17%	100000	0	2	12	470 U	370 U																																																																																										
B(a)P Equivalents	UG/KG	454	17%	10000 (2)	0	2	12	NA	NA																																																																																										
Metals																																																																																																			
Aluminum	MG/KG	18100	100%		0	12	12	14500	12700																																																																																										
Arsenic	MG/KG	4.5	100%	13	0	12	12	2.8	2.8																																																																																										
Barium	MG/KG	144	100%	350	0	12	12	91.9	28.5																																																																																										
Beryllium	MG/KG	0.91	92%	7.2	0	11	12	0.72	0.61																																																																																										
Cadmium	MG/KG	0.61	67%	2.5	0	8	12	0.14 J	0.04 U																																																																																										
Calcium	MG/KG	19200	100%		0	12	12	3530	18300																																																																																										
Chromium	MG/KG	26.8	100%		0	12	12	20.9	24.9																																																																																										
Cobalt	MG/KG	19.4	100%		0	12	12	8	14.1																																																																																										
Copper	MG/KG	37.3	100%	50	0	12	12	17.6	37.3																																																																																										
Iron	MG/KG	28200	100%		0	12	12	19100	28200																																																																																										
Lead	MG/KG	27.9	100%	63	0	12	12	22	27.9																																																																																										
Magnesium	MG/KG	6620	100%		0	12	12	3640	6620																																																																																										
Manganese	MG/KG	2770	100%	1600	1	12	12	442	349																																																																																										
Mercury	MG/KG	0.06	100%	0.18	0	12	12	0.04	0.02 J																																																																																										
Nickel	MG/KG	49.9	100%	30	3	12	12	22.6	49.9																																																																																										
Potassium	MG/KG	2040	100%		0	12	12	1660 J	1350 J																																																																																										
Selenium	MG/KG	2.6	100%	3.9	0	12	12	2	2																																																																																										
Vanadium	MG/KG	33.8	100%		0	12	12	27.4	18																																																																																										
Zinc	MG/KG	79.2	100%	109	0	12	12	71.3	78.2																																																																																										
Other Analytes																																																																																																			
Nitrate Nitrogen	MG/KG	9.21	33%		0	4	12	9.21	5.54 U																																																																																										
Percent Solids	%	90.3	100%		0	12	12	69.5	90.3																																																																																										

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION	EOD2															
LOCATION ID	EOD2-A1		EOD2-A2		EOD2-A3		EOD2-A4		EOD2-B1		EOD2-B2		EOD2-B3		EOD2-B4	
MATRIX	SOIL															
SAMPLE ID	002R011001		002R011002		002R011003		002R011004		002R011008		002R011007		002R011006		002R011005	
TOP OF SAMPLE	0															
BOTTOM OF SAMPLE	0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2	
SAMPLE DATE	12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006	
QC CODE	SA															
STUDY ID	RA															
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds																
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	12	7 UJ	7.8 UJ	8 UJ	7.1 UJ	7.7 UJ	7.5 UJ	6.9 UJ	6.7 UJ	6.7 UJ
1,2-Dibromoethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,2-Dichloroethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,2-Dichloropropane	UG/KG	0	0%	240	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,3-Dichlorobenzene	UG/KG	0	0%	2000	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Acetone	UG/KG	100	83%	50	8	10	12	61	31.2 U	32 U	56	61	98	47	62	62
Benzene	UG/KG	0	0%	60	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Bromodichloromethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Bromoform	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Carbon disulfide	UG/KG	2.4	8%		0	1	12	14 U	16 U	16 U	14 U	15 U	15 U	14 U	13 U	13 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Chlorodibromomethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Chloroethane	UG/KG	0	0%		0	0	12	14 U	16 U	16 U	14 U	15 U	15 U	14 U	13 U	13 U
Chloroform	UG/KG	0	0%	370	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Cyclohexane	UG/KG	0.88	8%		0	1	12	7 UJ	7.8 UJ	8 UJ	7.1 UJ	7.7 UJ	7.5 UJ	6.9 UJ	6.7 UJ	0.88 J
Dichlorodifluoromethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Isopropylbenzene	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Meta/Para Xylene	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Methyl Acetate	UG/KG	2.8	8%		0	1	12	14 UJ	16 UJ	16 UJ	14 UJ	15 UJ	15 UJ	2.8 J	13 UJ	13 UJ
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Methyl bromide	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Methyl butyl ketone	UG/KG	0	0%		0	0	12	14 UJ	16 UJ	16 UJ	14 UJ	15 UJ	15 UJ	14 UJ	13 UJ	13 UJ
Methyl chloride	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Methyl cyclohexane	UG/KG	1.1	8%		0	1	12	7 UJ	7.8 UJ	8 UJ	7.1 UJ	7.7 UJ	7.5 UJ	6.9 UJ	6.7 UJ	1.1 J
Methyl ethyl ketone	UG/KG	15	92%	120	0	11	12	3 J	2.8 J	16 UJ	6.2 J	3.9 J	7.6 J	3.1 J	15	15
Methyl isobutyl ketone	UG/KG	0	0%		0	0	12	14 UJ	16 UJ	16 UJ	14 UJ	15 UJ	15 UJ	14 UJ	13 UJ	13 UJ
Methylene chloride	UG/KG	2.3	100%	50	0	12	12	1.4 J	2 J	2.3 J	1.8 J	1.7 J	2 J	2.3 J	1.4 J	1.4 J
Ortho Xylene	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Styrene	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Toluene	UG/KG	1.4	25%	700	0	3	12	1.4 J	7.8 U	8 U	7.1 U	7.7 U	0.68 J	6.9 U	0.44 J	0.44 J
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Trichloroethene	UG/KG	0	0%	470	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U
Vinyl chloride	UG/KG	0	0%	20	0	0	12	7 U	7.8 U	8 U	7.1 U	7.7 U	7.5 U	6.9 U	6.7 U	6.7 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION															
LOCATION ID															
MATRIX															
SAMPLE ID															
TOP OF SAMPLE															
BOTTOM OF SAMPLE															
SAMPLE DATE															
QC CODE															
STUDY ID															
		EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	EOD2	
		EOD2-A1	EOD2-A2	EOD2-A3	EOD2-A4	EOD2-B1	EOD2-B2	EOD2-B3	EOD2-B4						
		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
		002R011001	002R011002	002R011003	002R011004	002R011008	002R011007	002R011006	002R011005						
		0	0	0	0	0	0	0	0						
		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2						
		12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/11/2006						
		SA	SA	SA	SA	SA	SA	SA	SA						
		RA	RA	RA	RA	RA	RA	RA	RA						
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Semivolatile Organic Compounds															
1,1'-Biphenyl	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	12	2400 U	2400 U	2400 U	2300 U	2500 U	2400 U	2000 U	2300 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2-Chlorophenol	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2-Methylphenol	UG/KG	0	0%	330	0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
2-Nitroaniline	UG/KG	0	0%		0	0	12	2400 U	2400 U	2400 U	2300 U	2500 U	2400 U	2000 U	2300 U
2-Nitrophenol	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
3-Nitroaniline	UG/KG	0	0%		0	0	12	2400 U	2400 U	2400 U	2300 U	2500 U	2400 U	2000 U	2300 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	12	2400 U	2400 U	2400 U	2300 U	2500 U	2400 U	2000 U	2300 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
4-Chloroaniline	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
4-Methylphenol	UG/KG	0	0%	330	0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
4-Nitroaniline	UG/KG	0	0%		0	0	12	2400 U	2400 U	2400 U	2300 U	2500 U	2400 U	2000 U	2300 U
4-Nitrophenol	UG/KG	0	0%		0	0	12	2400 U	2400 U	2400 U	2300 U	2500 U	2400 U	2000 U	2300 U
Acenaphthene	UG/KG	98	17%	20000	0	2	12	470 U	460 U	470 U	450 U	60 J	98 J	390 U	450 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Acetophenone	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Anthracene	UG/KG	240	17%	100000	0	2	12	470 U	460 U	470 U	450 U	87 J	240 J	390 U	450 U
Atrazine	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Benzaldehyde	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Benzo(a)anthracene	UG/KG	410	17%	1000	0	2	12	470 U	460 U	470 U	450 U	150 J	410 J	390 U	450 U
Benzo(a)pyrene	UG/KG	310	17%	1000	0	2	12	470 U	460 U	470 U	450 U	110 J	310 J	390 U	450 U
Benzo(b)fluoranthene	UG/KG	230	17%	1000	0	2	12	470 U	460 U	470 U	450 U	100 J	230 J	390 U	450 U
Benzo(ghi)perylene	UG/KG	150	17%	100000	0	2	12	470 U	460 U	470 U	450 U	57 J	150 J	390 U	450 U
Benzo(k)fluoranthene	UG/KG	300	17%	800	0	2	12	470 U	460 U	470 U	450 U	120 J	300 J	390 U	450 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Caprolactam	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Carbazole	UG/KG	120	17%		0	2	12	470 U	460 U	470 U	450 U	48 J	120 J	390 U	450 U
Chrysene	UG/KG	350	17%	1000	0	2	12	470 U	460 U	470 U	450 U	140 J	350 J	390 U	450 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Dibenz(a,h)anthracene	UG/KG	59	8%	330	0	1	12	470 U	460 U	470 U	450 U	480 U	59 J	390 U	450 U
Dibenzofuran	UG/KG	51	8%	7000	0	1	12	470 U	460 U	470 U	450 U	480 U	51 J	390 U	450 U
Diethyl phthalate	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Dimethylphthalate	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Fluoranthene	UG/KG	750	17%	100000	0	2	12	470 U	460 U	470 U	450 U	310 J	750 J	390 U	450 U
Fluorene	UG/KG	100	17%	30000	0	2	12	470 U	460 U	470 U	450 U	50 J	100 J	390 U	450 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Hexachloroethane	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Indeno(1,2,3-cd)pyrene	UG/KG	150	17%	500	0	2	12	470 U	460 U	470 U	450 U	57 J	150 J	390 U	450 U
Isophorone	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U
Naphthalene	UG/KG	45	17%	12000	0	2	12	470 U	460 U	470 U	450 U	45 J	37 J	390 U	450 U
Nitrobenzene	UG/KG	0	0%		0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	450 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION	Munitions Response and CERCLA Closure Seneca Army Depot Activity														
LOCATION ID	EOD2		EOD2		EOD2		EOD2		EOD2		EOD2		EOD2		
MATRIX	EOD2-A1		EOD2-A2		EOD2-A3		EOD2-A4		EOD2-B1		EOD2-B2		EOD2-B3		
SAMPLE ID	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
TOP OF SAMPLE	002R011001		002R011002		002R011003		002R011004		002R011008		002R011007		002R011006		
BOTTOM OF SAMPLE	0		0		0		0		0		0		0		
SAMPLE DATE	12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		
QC CODE	SA		SA		SA		SA		SA		SA		SA		
STUDY ID	RA		RA		RA		RA		RA		RA		RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Pentachlorophenol	UG/KG	0	0%	800	0	0	12	2400 U	2400 U	2400 U	2300 U	2400 U	2000 U	2300 U	
Phenanthrene	UG/KG	720	17%	100000	0	2	12	470 U	460 U	470 U	450 U	340 J	720	390 U	
Phenol	UG/KG	0	0%	330	0	0	12	470 U	460 U	470 U	450 U	480 U	460 U	390 U	
Pyrene	UG/KG	520	17%	100000	0	2	12	470 U	460 U	470 U	450 U	220 J	520	390 U	
Explosives															
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	12	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	
2-Nitrotoluene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
3-Nitrotoluene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
4-Nitrotoluene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
HMX	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
Nitrobenzene	UG/KG	0	0%	0	0	0	12	500 U	500 U	500 U	500 U	500 U	500 U	500 U	
Nitroglycerine	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
Pentaerythritol Tetranitrate	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
RDX	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
Tetryl	UG/KG	0	0%	0	0	0	12	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	
PCBs															
Aroclor-1016	UG/KG	0	0%	0	0	0	12	47 UJ	46 U	47 U	45 U	48 U	46 U	39 U	
Aroclor-1221	UG/KG	0	0%	0	0	0	12	95 UJ	94 U	96 U	92 U	94 U	79 U	92 U	
Aroclor-1232	UG/KG	0	0%	0	0	0	12	47 UJ	46 U	47 U	45 U	48 U	46 U	45 U	
Aroclor-1242	UG/KG	0	0%	0	0	0	12	47 UJ	46 U	47 U	45 U	48 U	46 U	45 U	
Aroclor-1248	UG/KG	0	0%	0	0	0	12	47 UJ	46 U	47 U	45 U	48 U	46 U	45 U	
Aroclor-1254	UG/KG	0	0%	0	0	0	12	47 UJ	46 U	47 U	45 U	48 U	46 U	45 U	
Aroclor-1260	UG/KG	0	0%	0	0	0	12	47 UJ	46 U	47 U	45 U	48 U	46 U	45 U	
Pesticides															
4,4'-DDD	UG/KG	0	0%	3.3	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
4,4'-DDE	UG/KG	0	0%	3.3	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
4,4'-DDT	UG/KG	0	0%	3.3	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
Aldrin	UG/KG	0	0%	5	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.4 U	2.4 U	2.3 U	
Alpha-BHC	UG/KG	0	0%	20	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Alpha-Chlordane	UG/KG	0	0%	94	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Beta-BHC	UG/KG	0	0%	36	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Delta-BHC	UG/KG	0	0%	40	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Dieldrin	UG/KG	0	0%	5	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
Endosulfan I	UG/KG	0	0%	2400	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Endosulfan II	UG/KG	0	0%	2400	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
Endrin	UG/KG	0	0%	14	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
Endrin aldehyde	UG/KG	0	0%	0	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
Endrin ketone	UG/KG	0	0%	0	0	0	12	4.7 U	4.6 U	4.7 U	4.5 U	4.8 U	4.6 U	3.9 U	
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Gamma-Chlordane	UG/KG	0	0%	0	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Heptachlor	UG/KG	0	0%	42	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Heptachlor epoxide	UG/KG	0	0%	0	0	0	12	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U	2.4 U	2.3 U	
Methoxychlor	UG/KG	0	0%	0	0	0	12	24 U	24 U	24 U	23 U	25 U	24 U	23 U	
Toxaphene	UG/KG	0	0%	0	0	0	12	47 U	46 U	47 U	45 U	48 U	46 U	39 U	

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION	Munitions Response and CERCLA Closure Seneca Army Depot Activity															
LOCATION ID	EOD2		EOD2		EOD2		EOD2		EOD2		EOD2		EOD2		EOD2	
MATRIX	EOD2-A1		EOD2-A2		EOD2-A3		EOD2-A4		EOD2-B1		EOD2-B2		EOD2-B3		EOD2-B4	
SAMPLE ID	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
TOP OF SAMPLE	002R011001		002R011002		002R011003		002R011004		002R011008		002R011007		002R011006		002R011005	
BOTTOM OF SAMPLE	0		0		0		0		0		0		0		0	
SAMPLE DATE	0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2	
QC CODE	12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006		12/11/2006	
STUDY ID	SA		SA		SA		SA		SA		SA		SA		SA	
	RA		RA		RA		RA		RA		RA		RA		RA	
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Metals																
Aluminum	MG/KG	18100	100%		0	12	12	16700	17100	14500	13100	16700	17400	11000	13800	
Antimony	MG/KG	0	0%		0	0	12	0.49 UJ	0.49 UJ	0.49 UJ	0.48 UJ	0.49 UJ	0.49 UJ	0.41 UJ	0.46 UJ	
Arsenic	MG/KG	4.5	100%	13	0	12	12	3.7	4.5	2.7	2.8	3.7	3.9	2.5	3.5	
Barium	MG/KG	144	100%	350	0	12	12	100	144	89.7	84.1	111	95.2	70.8	103	
Beryllium	MG/KG	0.91	92%	7.2	0	11	12	0.85	0.85	0.63 J	0.61 J	0.02 U	0.87	0.53 J	0.69	
Cadmium	MG/KG	0.61	67%	2.5	0	8	12	0.05 U	0.61 J	0.05 U	0.13 J	0.1 J	0.06 J	0.08 J	0.07 J	
Calcium	MG/KG	19200	100%		0	12	12	3260	2830	2630	2930	5250	2440	1900	19200	
Chromium	MG/KG	26.8	100%		0	12	12	25.7	23.7	19.2	18.2	24.3	25.8	15.2	20.6	
Cobalt	MG/KG	19.4	100%		0	12	12	10.1	19.4	6.4 J	7.3	9.6	10.3	5.1 J	8.8	
Copper	MG/KG	37.3	100%	50	0	12	12	20.7	17.9	12.3	12.1	20.8	20.2	9.4	19.5	
Iron	MG/KG	28200	100%		0	12	12	26500	26100	19200	18500	24200	26900	16200	22200	
Lead	MG/KG	27.9	100%	63	0	12	12	21.6	24	17.2	15.4	22.3	22.4	14.2	17.6	
Magnesium	MG/KG	6620	100%		0	12	12	4690	3590	3060	3060	4750	4480	2430	6400	
Manganese	MG/KG	2770	100%	1600	1	12	12	442	2770	278	605	497	495	297	423	
Mercury	MG/KG	0.06	100%	0.18	0	12	12	0.05	0.05	0.05	0.05	0.06	0.05	0.04	0.05	
Nickel	MG/KG	49.9	100%	30	3	12	12	32.2	26	16.5	16	29.4	30.4	13.3	25.4	
Potassium	MG/KG	2040	100%		0	12	12	1620 J	1320 J	1430 J	1470 J	2040 J	1860 J	1050 J	1570 J	
Selenium	MG/KG	2.6	100%	3.9	0	12	12	1.8	2.6	1.6	1.7	1.9	2.1	1.5	1.9	
Silver	MG/KG	0	0%	2	0	0	12	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.13 U	0.15 U	
Sodium	MG/KG	0	0%		0	0	12	140 U	139 U	138 U	138 U	139 U	138 U	117 U	132 U	
Thallium	MG/KG	0	0%		0	0	12	0.41 U	4.1 U	0.4 U	1.2 U	1.2 U	0.4 U	0.34 U	0.39 U	
Vanadium	MG/KG	33.8	100%		0	12	12	29.2	33.8	27.8	25.4	30	31.5	21.6	27.2	
Zinc	MG/KG	79.2	100%	109	0	12	12	78.1	68.2	60.5	57.5	79.2	75.2	51.3	71.8	
Other Analyses																
Nitrate Nitrogen	MG/KG	9.21	33%		0	4	12	7.07 U	7.99	7.17 U	7.16	7.29 U	7.03	5.87 U	6.86 U	
Percent Solids	%	90.3	100%		0	12	12	70.7	71.3	69.7	72.6	68.6	71.1	85.2	72.9	

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION	EOD2	EOD2	EOD2	EOD2
LOCATION ID	EOD2-C1	EOD2-C2	EOD2-C3	EOD2-C4
MATRIX	SOIL	SOIL	SOIL	SOIL
SAMPLE ID	002R011011	002R011010	002R011009	002R011012
TOP OF SAMPLE	0	0	0	0
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2
SAMPLE DATE	12/11/2006	12/11/2006	12/11/2006	12/11/2006
QC CODE	SA	SA	SA	SA
STUDY ID	RA	RA	RA	RA

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds											
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%	0	0	0	12	6.3 UJ	8 UJ	7.8 UJ	5.5 U
1,2-Dibromoethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	12	6.3 U	8 U	7.8 U	5.5 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Acetone	UG/KG	100	83%	50	8	10	12	63	75	50	100
Benzene	UG/KG	0	0%	60	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Bromoform	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Carbon disulfide	UG/KG	2.4	8%	0	0	1	12	13 U	16 U	16 U	2.4 J
Carbon tetrachloride	UG/KG	0	0%	760	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Chloroethane	UG/KG	0	0%	0	0	0	12	13 U	16 U	16 U	11 U
Chloroform	UG/KG	0	0%	370	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Cyclohexane	UG/KG	0.88	8%	0	0	1	12	6.3 UJ	8 UJ	7.8 UJ	5.5 U
Dichlorodifluoromethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Isopropylbenzene	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Meta/Para Xylene	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Methyl Acetate	UG/KG	2.8	8%	0	0	1	12	13 UJ	16 UJ	16 UJ	11 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Methyl bromide	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	12	13 UJ	16 UJ	16 UJ	11 U
Methyl chloride	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Methyl cyclohexane	UG/KG	1.1	8%	0	0	1	12	6.3 UJ	8 UJ	7.8 UJ	5.5 U
Methyl ethyl ketone	UG/KG	15	92%	120	0	11	12	4.4 J	6.3 J	4.6 J	3.8 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	12	13 UJ	16 UJ	16 UJ	11 U
Methylene chloride	UG/KG	2.3	100%	50	0	12	12	1.6 J	1.4 J	1.9 J	0.51 J
Ortho Xylene	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Styrene	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Toluene	UG/KG	1.4	25%	700	0	3	12	6.3 U	8 U	7.8 U	5.5 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Trichloroethene	UG/KG	0	0%	470	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Trichlorofluoromethane	UG/KG	0	0%	0	0	0	12	6.3 U	8 U	7.8 U	5.5 U
Vinyl chloride	UG/KG	0	0%	20	0	0	12	6.3 U	8 U	7.8 U	5.5 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION	EOD2	EOD2	EOD2	EOD2
LOCATION ID	EOD2-C1	EOD2-C2	EOD2-C3	EOD2-C4
MATRIX	SOIL	SOIL	SOIL	SOIL
SAMPLE ID	002R011011	002R011010	002R011009	002R011012
TOP OF SAMPLE	0	0	0	0
BOTTOM OF SAMPLE	0.2	0.2	0.2	0.2
SAMPLE DATE	12/11/2006	12/11/2006	12/11/2006	12/11/2006
QC CODE	SA	SA	SA	SA
STUDY ID	RA	RA	RA	RA

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Semivolatile Organic Compounds											
1,1'-Biphenyl	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	12	2300 U	2600 U	2400 U	1900 UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2-Chlorophenol	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
2-Methylphenol	UG/KG	0	0%	330	0	0	12	440 U	510 U	470 U	370 U
2-Nitroaniline	UG/KG	0	0%		0	0	12	2300 U	2600 U	2400 U	1900 U
2-Nitrophenol	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
3-Nitroaniline	UG/KG	0	0%		0	0	12	2300 U	2600 U	2400 U	1900 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	12	2300 U	2600 U	2400 U	1900 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
4-Chloroaniline	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
4-Methylphenol	UG/KG	0	0%	330	0	0	12	440 U	510 U	470 U	370 U
4-Nitroaniline	UG/KG	0	0%		0	0	12	2300 U	2600 U	2400 U	1900 U
4-Nitrophenol	UG/KG	0	0%		0	0	12	2300 U	2600 U	2400 U	1900 U
Acenaphthene	UG/KG	98	17%	20000	0	2	12	440 U	510 U	470 U	370 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	12	440 U	510 U	470 U	370 U
Acetophenone	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Anthracene	UG/KG	240	17%	100000	0	2	12	440 U	510 U	470 U	370 U
Atrazine	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Benzaldehyde	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Benzo(a)anthracene	UG/KG	410	17%	1000	0	2	12	440 U	510 U	470 U	370 U
Benzo(a)pyrene	UG/KG	310	17%	1000	0	2	12	440 U	510 U	470 U	370 U
Benzo(b)fluoranthene	UG/KG	230	17%	1000	0	2	12	440 U	510 U	470 U	370 U
Benzo(ghi)perylene	UG/KG	150	17%	100000	0	2	12	440 U	510 U	470 U	370 U
Benzo(k)fluoranthene	UG/KG	300	17%	800	0	2	12	440 U	510 U	470 U	370 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Caprolactam	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Carbazole	UG/KG	120	17%		0	2	12	440 U	510 U	470 U	370 U
Chrysene	UG/KG	350	17%	1000	0	2	12	440 U	510 U	470 U	370 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Dibenz(a,h)anthracene	UG/KG	59	8%	330	0	1	12	440 U	510 U	470 U	370 U
Dibenzofuran	UG/KG	51	8%	7000	0	1	12	440 U	510 U	470 U	370 U
Diethyl phthalate	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Dimethylphthalate	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Fluoranthene	UG/KG	750	17%	100000	0	2	12	440 U	510 U	470 U	370 U
Fluorene	UG/KG	100	17%	30000	0	2	12	440 U	510 U	470 U	370 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	12	440 U	510 U	470 U	370 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Hexachloroethane	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	150	17%	500	0	2	12	440 U	510 U	470 U	370 U
Isophorone	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U
Naphthalene	UG/KG	45	17%	12000	0	2	12	440 U	510 U	470 U	370 U
Nitrobenzene	UG/KG	0	0%		0	0	12	440 U	510 U	470 U	370 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION LOCATION ID MATRIX SAMPLE ID TOP OF SAMPLE BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	EOD2	EOD2	EOD2	EOD2
								EOD2-C1	EOD2-C2	EOD2-C3	EOD2-C4
Parameter							Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Pentachlorophenol	UG/KG	0	0%	800	0	0	2300 U	2600 U	2400 U	1900 U	
Phenanthrene	UG/KG	720	17%	100000	0	2	440 U	510 U	470 U	370 U	
Phenol	UG/KG	0	0%	330	0	0	440 U	510 U	470 U	370 U	
Pyrene	UG/KG	520	17%	100000	0	2	440 U	510 U	470 U	370 U	
Explosives											
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	1000 U	1000 U	1000 U	1000 U	
2-Nitrotoluene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
3-Nitrotoluene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
4-Nitrotoluene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
HMX	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
Nitrobenzene	UG/KG	0	0%		0	0	500 U	500 U	500 U	500 U	
Nitroglycerine	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
RDX	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
Tetryl	UG/KG	0	0%		0	0	2000 U	2000 U	2000 U	2000 U	
PCBs											
Aroclor-1016	UG/KG	0	0%		0	0	44 U	51 U	47 U	37 U	
Aroclor-1221	UG/KG	0	0%		0	0	89 U	100 U	96 U	74 U	
Aroclor-1232	UG/KG	0	0%		0	0	44 U	51 U	47 U	37 U	
Aroclor-1242	UG/KG	0	0%		0	0	44 U	51 U	47 U	37 U	
Aroclor-1248	UG/KG	0	0%		0	0	44 U	51 U	47 U	37 U	
Aroclor-1254	UG/KG	0	0%		0	0	44 U	51 U	47 U	37 U	
Aroclor-1260	UG/KG	0	0%		0	0	44 U	51 U	47 U	37 U	
Pesticides											
4,4'-DDD	UG/KG	0	0%	3.3	0	0	4.4 U	5.1 U	4.7 U	3.7 U	
4,4'-DDE	UG/KG	0	0%	3.3	0	0	4.4 U	5.1 U	4.7 U	3.7 U	
4,4'-DDT	UG/KG	0	0%	3.3	0	0	4.4 U	5.1 U	4.7 U	3.7 U	
Aldrin	UG/KG	0	0%	5	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Alpha-BHC	UG/KG	0	0%	20	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Alpha-Chlordane	UG/KG	0	0%	94	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Beta-BHC	UG/KG	0	0%	36	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Delta-BHC	UG/KG	0	0%	40	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Dieldrin	UG/KG	0	0%	5	0	0	4.4 U	5.1 U	4.7 U	3.7 U	
Endosulfan I	UG/KG	0	0%	2400	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Endosulfan II	UG/KG	0	0%	2400	0	0	4.4 U	5.1 U	4.7 U	3.7 U	
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	4.4 U	5.1 U	4.7 U	3.7 U	
Endrin	UG/KG	0	0%	14	0	0	4.4 U	5.1 U	4.7 U	3.7 U	
Endrin aldehyde	UG/KG	0	0%		0	0	4.4 U	5.1 U	4.7 U	3.7 U	
Endrin ketone	UG/KG	0	0%		0	0	4.4 U	5.1 U	4.7 U	3.7 U	
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Gamma-Chlordane	UG/KG	0	0%		0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Heptachlor	UG/KG	0	0%	42	0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Heptachlor epoxide	UG/KG	0	0%		0	0	2.3 U	2.6 U	2.4 U	1.9 U	
Methoxychlor	UG/KG	0	0%		0	0	23 U	26 U	24 U	19 U	
Toxaphene	UG/KG	0	0%		0	0	44 U	51 U	47 U	37 U	

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 2B
SEAD-002-R-01, EOD2 Areas Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION LOCATION ID MATRIX SAMPLE ID TOP OF SAMPLE BOTTOM OF SAMPLE SAMPLE DATE QC CODE STUDY ID			EOD2		EOD2		EOD2		EOD2		
			EOD2-C1	EOD2-C2	EOD2-C3	EOD2-C4					
		SOIL		SOIL		SOIL		SOIL			
		002R011011		002R011010		002R011009		002R011012			
		0		0		0		0			
		0.2		0.2		0.2		0.2			
		12/11/2006		12/11/2006		12/11/2006		12/11/2006			
		SA		SA		SA		SA			
		RA		RA		RA		RA			
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Metals											
Aluminum	MG/KG	18100	100%		0	12	12	18100	13800	14500	12700
Antimony	MG/KG	0	0%		0	12	12	0.46 UJ	0.53 UJ	0.51 UJ	0.37 UJ
Arsenic	MG/KG	4.5	100%	13	0	12	12	3.6	2.9	2.8	2.8
Barium	MG/KG	144	100%	350	0	12	12	111	91.3	91.9	28.5
Beryllium	MG/KG	0.91	92%	7.2	0	11	12	0.91	0.67 J	0.72	0.61
Cadmium	MG/KG	0.61	67%	2.5	0	8	12	0.07 J	0.05 U	0.14 J	0.04 U
Calcium	MG/KG	19200	100%		0	12	12	2490	2880	3530	18300
Chromium	MG/KG	26.8	100%		0	12	12	26.8	19.2	20.9	24.9
Cobalt	MG/KG	19.4	100%		0	12	12	15.3	6 J	8	14.1
Copper	MG/KG	37.3	100%	50	0	12	12	15.3	14	17.6	37.3
Iron	MG/KG	28200	100%		0	12	12	27800	18900	19100	28200
Lead	MG/KG	27.9	100%	63	0	12	12	21.1	17.1	22	27.9
Magnesium	MG/KG	6620	100%		0	12	12	4370	3110	3640	6620
Manganese	MG/KG	2770	100%	1600	1	12	12	859	317	442	349
Mercury	MG/KG	0.06	100%	0.18	0	12	12	0.05	0.06	0.04	0.02 J
Nickel	MG/KG	49.9	100%	30	3	12	12	29.2	16.4	22.6	49.9
Potassium	MG/KG	2040	100%		0	12	12	1510 J	1590 J	1660 J	1350 J
Selenium	MG/KG	2.6	100%	3.9	0	12	12	2.2	1.4 J	2	2
Silver	MG/KG	0	0%	2	0	0	12	0.15 U	0.17 U	0.17 U	0.12 U
Sodium	MG/KG	0	0%		0	0	12	130 U	152 U	144 U	105 U
Thallium	MG/KG	0	0%		0	0	12	1.1 U	0.44 U	0.42 U	0.31 U
Vanadium	MG/KG	33.8	100%		0	12	12	31.5	27	27.4	18
Zinc	MG/KG	79.2	100%	109	0	12	12	75	59.2	71.3	78.2
Other Analyses											
Nitrate Nitrogen	MG/KG	9.21	33%		0	4	12	6.65 U	7.66 U	9.21	5.54 U
Percent Solids	%	90.3	100%		0	12	12	75.2	65.3	69.5	90.3

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3A
EOD Area 3 Area Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION						EOD3	EOD3	EOD3	EOD3	EOD3		
LOCATION ID						EOD3-F18	EOD3-F19	EOD3-G18	EOD3-G19	EOD3-H18		
MATRIX						SOIL	SOIL	SOIL	SOIL	SOIL		
SAMPLE ID						002R011013	002R011014	002R011016	002R011015	002R011017		
TOP OF SAMPLE						0	0	0	0	0		
BOTTOM OF SAMPLE						0.2	0.2	0.2	0.2	0.2		
SAMPLE DATE						12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/12/2006		
QC CODE						SA	SA	SA	SA	SA		
STUDY ID						RA	RA	RA	RA	RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	260	100%	50	6	9	9	120	49	92	62	24
Benzene	UG/KG	0.49	11%	60	0	1	9	7.7 U	8.8 U	7.2 U	11 U	0.49 J
Carbon disulfide	UG/KG	0.79	11%		0	1	9	15 U	18 U	14 U	21 U	0.79 J
Cyclohexane	UG/KG	1.2	11%		0	1	9	7.7 UJ	8.8 U	7.2 U	11 U	1.2 J
Methyl cyclohexane	UG/KG	1.3	11%		0	1	9	7.7 UJ	8.8 U	7.2 U	11 U	1.3 J
Methyl ethyl ketone	UG/KG	23	78%	120	0	7	9	6.5 J	5.4 J	9.7 J	5.1 J	10 U
Methylene chloride	UG/KG	2.5	100%	50	0	9	9	1.7 J	2.5 J	1.6 J	2.1 J	0.84 J
Toluene	UG/KG	0.55	22%	700	0	2	9	0.48 J	8.8 U	7.2 U	11 U	0.55 J
Metals												
Aluminum	MG/KG	16600	100%		0	9	9	14600	13600	14000	16600	8950
Arsenic	MG/KG	5.1	100%	13	0	9	9	3.7	3.5	5.1	3.8	3.9
Barium	MG/KG	163	100%	350	0	9	9	111	110	115	163	79.6
Beryllium	MG/KG	0.95	100%	7.2	0	9	9	0.81	0.69 J	0.83	0.95	0.49 J
Cadmium	MG/KG	0.2	67%	2.5	0	6	9	0.19 J	0.09 J	0.18 J	0.2 J	0.04 U
Calcium	MG/KG	105000	100%		0	9	9	2670	4870	3260	8570	105000
Chromium	MG/KG	24	100%		0	9	9	21.7	18	20.5	24	15
Cobalt	MG/KG	10.6	100%		0	9	9	9.4	5.3	10.6	8.5 J	8.5
Copper	MG/KG	28.7	100%	50	0	9	9	18	18	26.8	28.7	22.1
Iron	MG/KG	23300	100%		0	9	9	22100	17300	22300	23300	17100
Lead	MG/KG	25.3	100%	63	0	9	9	20.5	18.8	22.9	25.3	10.9
Magnesium	MG/KG	14000	100%		0	9	9	3690	3300	3760	4700	14000
Manganese	MG/KG	751	100%	1600	0	9	9	617	220	751	342	462
Mercury	MG/KG	0.09	100%	0.18	0	9	9	0.06	0.08	0.07	0.09	0.02 J
Nickel	MG/KG	27	100%	30	0	9	9	25.7	17	25.6	27	26.3
Potassium	MG/KG	2150	100%		0	9	9	1580 J	1600 J	1570 J	2150 J	1330
Selenium	MG/KG	2.9	100%	3.9	0	9	9	2.9	1.9	1.9	1.7 J	0.79 J
Vanadium	MG/KG	30.6	100%		0	9	9	26.4	23.7	26.8	30.6	17.3
Zinc	MG/KG	101	100%	109	0	9	9	84.3	68.8	96.4	101	57.2
Other Analytes												
Nitrate Nitrogen	MG/KG	8.1	33%		0	3	9	6.9 U	7.91 U	6.63 U	8.87 U	6.1 U
Percent Solids	%	82	100%		0	9	9	72.5	63.2	75.4	56.4	82

Note(s):
(1) Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
R = the data was rejected in the data validating process

**APPENDIX E TABLE 3A
EOD Area 3 Area Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds											
Acetone	UG/KG	260	100%	50	6	9	9	260	91 J	25 J	120
Benzene	UG/KG	0.49	11%	60	0	1	9	6.7 U	7.5 U	7.3 U	7.1 U
Carbon disulfide	UG/KG	0.79	11%		0	1	9	13 U	15 U	15 U	14 U
Cyclohexane	UG/KG	1.2	11%		0	1	9	6.7 U	7.5 U	7.3 U	7.1 U
Methyl cyclohexane	UG/KG	1.3	11%		0	1	9	6.7 U	7.5 U	7.3 U	7.1 U
Methyl ethyl ketone	UG/KG	23	78%	120	0	7	9	23	8.9 J	15 U	11 J
Methylene chloride	UG/KG	2.5	100%	50	0	9	9	1.8 J	1.5 J	0.81 J	1.4 J
Toluene	UG/KG	0.55	22%	700	0	2	9	6.7 U	7.5 U	7.3 U	7.1 U
Metals											
Aluminum	MG/KG	16600	100%		0	9	9	14700	13900	15800	15600
Arsenic	MG/KG	5.1	100%	13	0	9	9	4.1	3	3.6	4.4
Barium	MG/KG	163	100%	350	0	9	9	121	88.4	100	99.1
Beryllium	MG/KG	0.95	100%	7.2	0	9	9	0.77	0.66 J	0.75	0.74
Cadmium	MG/KG	0.2	67%	2.5	0	6	9	0.17 J	0.05 U	0.05 U	0.1 J
Calcium	MG/KG	105000	100%		0	9	9	5120	2630	2740	4310
Chromium	MG/KG	24	100%		0	9	9	21.5	18.6	21.1	21.3
Cobalt	MG/KG	10.6	100%		0	9	9	9.5	6.5 J	8.1	9.9
Copper	MG/KG	28.7	100%	50	0	9	9	22.1	14.5	15.9	19.1
Iron	MG/KG	23300	100%		0	9	9	20900	19300	22100	22100
Lead	MG/KG	25.3	100%	63	0	9	9	24.3	18	21.1	21.8
Magnesium	MG/KG	14000	100%		0	9	9	3900	3140	3500	4130
Manganese	MG/KG	751	100%	1600	0	9	9	579	400	561	572
Mercury	MG/KG	0.09	100%	0.18	0	9	9	0.08	0.06	0.06	0.07
Nickel	MG/KG	27	100%	30	0	9	9	25.2	16.7	18.9	22.9
Potassium	MG/KG	2150	100%		0	9	9	2090	1410	1390	1590
Selenium	MG/KG	2.9	100%	3.9	0	9	9	1.7	1.5	1.7	2
Vanadium	MG/KG	30.6	100%		0	9	9	28	26.5	30.4	28.6
Zinc	MG/KG	101	100%	109	0	9	9	85.5	63	68.4	81.5
Other Analytes											
Nitrate Nitrogen	MG/KG	8.1	33%		0	3	9	8.1	6.87 U	7	7.11
Percent Solids	%	82	100%		0	9	9	72.8	72.8	71.4	70.3

Note(s):
(1) Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
J = the reported value is an estimated concentration
UJ = the compound was not detected; the associated reporting limit is approximate
R = the data was rejected in the data validating process

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

				EOD3	EOD3	EOD3	EOD3	EOD3	EOD3	EOD3			
				EOD3-F18	EOD3-F19	EOD3-G18	EOD3-G19	EOD3-H18	EOD3-H18	EOD3-H19			
				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
				002R011013	002R011014	002R011016	002R011015	002R011017	002R011018	002R011018			
				0	0	0	0	0	0	0			
				0.2	0.2	0.2	0.2	0.2	0.2	0.2			
				12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/12/2006	12/12/2006	12/12/2006			
				SA	SA	SA	SA	SA	SA	SA			
				RA	RA	RA	RA	RA	RA	RA			
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	8	7.7 UJ	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Acetone	UG/KG	260	100%	50	6	8	8	120	49	92	62	24	260
Benzene	UG/KG	0.49	13%	60	0	1	8	7.7 U	8.8 U	7.2 U	11 U	0.49 J	6.7 U
Bromodichloromethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Bromoform	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Carbon disulfide	UG/KG	0.79	13%		0	1	8	15 U	18 U	14 U	21 U	0.79 J	13 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Chlorodibromomethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Chloroethane	UG/KG	0	0%		0	0	8	15 U	18 U	14 U	21 U	10 U	13 U
Chloroform	UG/KG	0	0%	370	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Cyclohexane	UG/KG	1.2	13%		0	1	8	7.7 UJ	8.8 U	7.2 U	11 U	1.2 J	6.7 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Isopropylbenzene	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Meta/Para Xylene	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Methyl Acetate	UG/KG	0	0%		0	0	8	15 UJ	18 U	14 U	21 U	10 UJ	13 UJ
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Methyl bromide	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Methyl butyl ketone	UG/KG	0	0%		0	0	8	15 UJ	18 U	14 U	21 U	10 U	13 U
Methyl chloride	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Methyl cyclohexane	UG/KG	1.3	13%		0	1	8	7.7 UJ	8.8 U	7.2 U	11 U	1.3 J	6.7 U
Methyl ethyl ketone	UG/KG	23	88%	120	0	7	8	6.5 J	5.4 J	9.7 J	5.1 J	10 U	23
Methyl isobutyl ketone	UG/KG	0	0%		0	0	8	15 UJ	18 U	14 U	21 U	10 U	13 U
Methylene chloride	UG/KG	2.5	100%	50	0	8	8	1.7 J	2.5 J	1.6 J	2.1 J	0.84 J	1.8 J
Ortho Xylene	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Styrene	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Toluene	UG/KG	0.55	25%	700	0	2	8	0.48 J	8.8 U	7.2 U	11 U	0.55 J	6.7 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Trichloroethene	UG/KG	0	0%	470	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION							EOD3	EOD3	EOD3	EOD3	EOD3	EOD3	
LOCATION ID							EOD3-F18	EOD3-F19	EOD3-G18	EOD3-G19	EOD3-H18	EOD3-H19	
MATRIX							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID							002R011013	002R011014	002R011016	002R011015	002R011017	002R011018	
TOP OF SAMPLE							0	0	0	0	0	0	
BOTTOM OF SAMPLE							0.2	0.2	0.2	0.2	0.2	0.2	
SAMPLE DATE							12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/12/2006	12/12/2006	
QC CODE							SA	SA	SA	SA	SA	SA	
STUDY ID							RA	RA	RA	RA	RA	RA	
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Trichlorofluoromethane	UG/KG	0	0%		0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Vinyl chloride	UG/KG	0	0%	20	0	0	8	7.7 U	8.8 U	7.2 U	11 U	5.2 U	6.7 U
Semivolatile Organic Compounds													
1,1'-Biphenyl	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	8	2300 U	2700 U	2300 U	3000 U	2100 U	2300 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2-Chlorophenol	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2-Methylphenol	UG/KG	0	0%	330	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
2-Nitroaniline	UG/KG	0	0%		0	0	8	2300 U	2700 U	2300 U	3000 U	2100 U	2300 U
2-Nitrophenol	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
3-Nitroaniline	UG/KG	0	0%		0	0	8	2300 U	2700 U	2300 U	3000 U	2100 U	2300 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	8	2300 U	2700 U	2300 U	3000 U	2100 U	2300 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
4-Chloroaniline	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
4-Methylphenol	UG/KG	0	0%	330	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
4-Nitroaniline	UG/KG	0	0%		0	0	8	2300 U	2700 U	2300 U	3000 U	2100 U	2300 U
4-Nitrophenol	UG/KG	0	0%		0	0	8	2300 U	2700 U	2300 U	3000 U	2100 U	2300 U
Acenaphthene	UG/KG	0	0%	20000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Acetophenone	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Anthracene	UG/KG	0	0%	100000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Atrazine	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Benzaldehyde	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Caprolactam	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Carbazole	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Chrysene	UG/KG	0	0%	1000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION							EOD3	EOD3	EOD3	EOD3	EOD3	EOD3	
LOCATION ID							EOD3-F18	EOD3-F19	EOD3-G18	EOD3-G19	EOD3-H18	EOD3-H19	
MATRIX							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
SAMPLE ID							002R011013	002R011014	002R011016	002R011015	002R011017	002R011018	
TOP OF SAMPLE							0	0	0	0	0	0	
BOTTOM OF SAMPLE							0.2	0.2	0.2	0.2	0.2	0.2	
SAMPLE DATE							12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/12/2006	12/12/2006	
QC CODE							SA	SA	SA	SA	SA	SA	
STUDY ID							RA	RA	RA	RA	RA	RA	
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Diethyl phthalate	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Dimethylphthalate	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Fluoranthene	UG/KG	0	0%	100000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Fluorene	UG/KG	0	0%	30000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Hexachloroethane	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Isophorone	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Naphthalene	UG/KG	0	0%	12000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Nitrobenzene	UG/KG	0	0%		0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	8	2300 U	2700 U	2300 U	3000 U	2100 U	2300 U
Phenanthrene	UG/KG	0	0%	100000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Phenol	UG/KG	0	0%	330	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Pyrene	UG/KG	0	0%	100000	0	0	8	460 U	520 U	440 U	590 U	400 U	450 U
Explosives													
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	8	500 U	500 U	500 U	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
PCBs													
Aroclor-1016	UG/KG	0	0%		0	0	8	46 U	52 U	44 U	59 U	40 U	45 U
Aroclor-1221	UG/KG	0	0%		0	0	8	92 U	110 U	89 U	120 U	82 U	92 U
Aroclor-1232	UG/KG	0	0%		0	0	8	46 U	52 U	44 U	59 U	40 U	45 U
Aroclor-1242	UG/KG	0	0%		0	0	8	46 U	52 U	44 U	59 U	40 U	45 U
Aroclor-1248	UG/KG	0	0%		0	0	8	46 U	52 U	44 U	59 U	40 U	45 U
Aroclor-1254	UG/KG	0	0%		0	0	8	46 U	52 U	44 U	59 U	40 U	45 U
Aroclor-1260	UG/KG	0	0%		0	0	8	46 U	52 U	44 U	59 U	40 U	45 U
Pesticides													
4,4'-DDD	UG/KG	0	0%	3.3	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION				EOD3	EOD3	EOD3	EOD3	EOD3	EOD3				
LOCATION ID				EOD3-F18	EOD3-F19	EOD3-G18	EOD3-G19	EOD3-H18	EOD3-H19				
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL				
SAMPLE ID				002R011013	002R011014	002R011016	002R011015	002R011017	002R011018				
TOP OF SAMPLE				0	0	0	0	0	0				
BOTTOM OF SAMPLE				0.2	0.2	0.2	0.2	0.2	0.2				
SAMPLE DATE				12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/12/2006	12/12/2006				
QC CODE				SA	SA	SA	SA	SA	SA				
STUDY ID				RA	RA	RA	RA	RA	RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4,4'-DDT	UG/KG	0	0%	3.3	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
Aldrin	UG/KG	0	0%	5	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Alpha-BHC	UG/KG	0	0%	20	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Beta-BHC	UG/KG	0	0%	36	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Dieldrin	UG/KG	0	0%	5	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
Endosulfan I	UG/KG	0	0%	2400	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Endosulfan II	UG/KG	0	0%	2400	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
Endrin	UG/KG	0	0%	14	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
Endrin aldehyde	UG/KG	0	0%	0	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
Endrin ketone	UG/KG	0	0%	0	0	0	8	4.6 U	5.2 U	4.4 U	5.9 U	4 U	4.5 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Heptachlor	UG/KG	0	0%	42	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Heptachlor epoxide	UG/KG	0	0%	0	0	0	8	2.3 U	2.7 U	2.3 U	3 U	2.1 U	2.3 U
Methoxychlor	UG/KG	0	0%	0	0	0	8	23 U	27 U	23 U	30 U	21 U	23 U
Toxaphene	UG/KG	0	0%	0	0	0	8	46 U	52 U	44 U	59 U	40 U	45 U
Metals													
Aluminum	MG/KG	16600	100%	0	0	8	8	14600	13600	14000	16600	8950	14700
Antimony	MG/KG	0	0%	0	0	0	8	0.46 UJ	0.54 UJ	0.46 UJ	0.62 UJ	0.43 UJ	0.48 UJ
Arsenic	MG/KG	5.1	100%	13	0	8	8	3.7	3.5	5.1	3.8	3.9	4.1
Barium	MG/KG	163	100%	350	0	8	8	111	110	115	163	79.6	121
Beryllium	MG/KG	0.95	100%	7.2	0	8	8	0.81	0.69 J	0.83	0.95	0.49 J	0.77
Cadmium	MG/KG	0.2	75%	2.5	0	6	8	0.19 J	0.09 J	0.18 J	0.2 J	0.04 U	0.17 J
Calcium	MG/KG	105000	100%	8	0	8	8	2670	4870	3260	8570	105000	5120
Chromium	MG/KG	24	100%	0	0	8	8	21.7	18	20.5	24	15	21.5
Cobalt	MG/KG	10.6	100%	0	0	8	8	9.4	5.3	10.6	8.5 J	8.5	9.5
Copper	MG/KG	28.7	100%	50	0	8	8	18	18	26.8	28.7	22.1	22.1
Iron	MG/KG	23300	100%	0	0	8	8	22100	17300	22300	23300	17100	20900
Lead	MG/KG	25.3	100%	63	0	8	8	20.5	18.8	22.9	25.3	10.9	24.3
Magnesium	MG/KG	14000	100%	0	0	8	8	3690	3300	3760	4700	14000	3900
Manganese	MG/KG	751	100%	1600	0	8	8	617	220	751	342	462	579
Mercury	MG/KG	0.09	100%	0.18	0	8	8	0.06	0.08	0.07	0.09	0.02 J	0.08
Nickel	MG/KG	27	100%	30	0	8	8	25.7	17	25.6	27	26.3	25.2
Potassium	MG/KG	2150	100%	0	0	8	8	1580 J	1600 J	1570 J	2150 J	1330	2090
Selenium	MG/KG	2.9	100%	3.9	0	8	8	2.9	1.9	1.9	1.7 J	0.79 J	1.7
Silver	MG/KG	0	0%	2	0	0	8	0.15 U	0.17 U	0.15 U	0.2 U	0.14 U	0.16 U
Sodium	MG/KG	0	0%	0	0	0	8	131 U	152 U	130 U	177 U	122 U	137 U
Thallium	MG/KG	0	0%	0	0	0	8	1.2 U	0.44 U	1.1 U	0.52 U	0.36 U	1.2 U
Vanadium	MG/KG	30.6	100%	0	0	8	8	26.4	23.7	26.8	30.6	17.3	28
Zinc	MG/KG	101	100%	109	0	8	8	84.3	68.8	96.4	101	57.2	85.5
Other Analyses													
Nitrate Nitrogen	MG/KG	8.1	38%	0	0	3	8	6.9 U	7.91 U	6.63 U	8.87 U	6.1 U	8.1
Percent Solids	%	82	100%	0	0	8	8	72.5	63.2	75.4	56.4	82	72.8

Note(s):

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
SITE LOCATION								EOD3	EOD3	EOD3	EOD3	EOD3	EOD3
LOCATION ID								EOD3-F18	EOD3-F19	EOD3-G18	EOD3-G19	EOD3-H18	EOD3-H19
MATRIX								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE ID								002R011013	002R011014	002R011016	002R011015	002R011017	002R011018
TOP OF SAMPLE								0	0	0	0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2	0.2	0.2	0.2
SAMPLE DATE								12/11/2006	12/11/2006	12/11/2006	12/11/2006	12/12/2006	12/12/2006
QC CODE								SA	SA	SA	SA	SA	SA
STUDY ID								RA	RA	RA	RA	RA	RA

(1) Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

- U = compound was not detected
- J = the reported value is an estimated concentration
- UJ = the compound was not detected; the associated reporting limit is approximate
- R = the data was rejected in the data validating process

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds										
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	8	7.5 U	7.3 U	7.1 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	8	7.5 U	7.3 U	7.1 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	8	7.5 U	7.3 U	7.1 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	8	7.5 U	7.3 U	7.1 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	8	7.5 U	7.3 U	7.1 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	8	7.5 U	7.3 U	7.1 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	8	7.5 U	7.3 U	7.1 U
Acetone	UG/KG	260	100%	50	6	8	8	91 J	25 J	120 J
Benzene	UG/KG	0.49	13%	60	0	1	8	7.5 U	7.3 U	7.1 U
Bromodichloromethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Bromoform	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Carbon disulfide	UG/KG	0.79	13%		0	1	8	15 U	15 U	14 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	8	7.5 U	7.3 U	7.1 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	8	7.5 U	7.3 U	7.1 U
Chlorodibromomethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Chloroethane	UG/KG	0	0%		0	0	8	15 U	15 U	14 U
Chloroform	UG/KG	0	0%	370	0	0	8	7.5 U	7.3 U	7.1 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	8	7.5 U	7.3 U	7.1 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Cyclohexane	UG/KG	1.2	13%		0	1	8	7.5 U	7.3 U	7.1 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	8	7.5 U	7.3 U	7.1 U
Isopropylbenzene	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Meta/Para Xylene	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Methyl Acetate	UG/KG	0	0%		0	0	8	15 UJ	15 U	14 UJ
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	8	7.5 U	7.3 U	7.1 U
Methyl bromide	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Methyl butyl ketone	UG/KG	0	0%		0	0	8	15 U	15 U	14 U
Methyl chloride	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Methyl cyclohexane	UG/KG	1.3	13%		0	1	8	7.5 U	7.3 U	7.1 U
Methyl ethyl ketone	UG/KG	23	88%	120	0	7	8	8.9 J	15 U	11 J
Methyl isobutyl ketone	UG/KG	0	0%		0	0	8	15 U	15 U	14 U
Methylene chloride	UG/KG	2.5	100%	50	0	8	8	1.5 J	0.81 J	1.4 J
Ortho Xylene	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Styrene	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	8	7.5 U	7.3 U	7.1 U
Toluene	UG/KG	0.55	25%	700	0	2	8	7.5 U	7.3 U	7.1 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	8	7.5 U	7.3 U	7.1 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Trichloroethene	UG/KG	0	0%	470	0	0	8	7.5 U	7.3 U	7.1 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Trichlorofluoromethane	UG/KG	0	0%		0	0	8	7.5 U	7.3 U	7.1 U
Vinyl chloride	UG/KG	0	0%	20	0	0	8	7.5 U	7.3 U	7.1 U
Semivolatile Organic Compounds										
1,1'-Biphenyl	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	8	2300 U	2400 U	2400 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2-Chlorophenol	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
2-Methylphenol	UG/KG	0	0%	330	0	0	8	450 U	460 U	470 U
2-Nitroaniline	UG/KG	0	0%		0	0	8	2300 U	2400 U	2400 U
2-Nitrophenol	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
3-Nitroaniline	UG/KG	0	0%		0	0	8	2300 U	2400 U	2400 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	8	2300 U	2400 U	2400 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
4-Chloroaniline	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
4-Methylphenol	UG/KG	0	0%	330	0	0	8	450 U	460 U	470 U
4-Nitroaniline	UG/KG	0	0%		0	0	8	2300 UJ	2400 U	2400 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	8	2300 U	2400 U	2400 U
Acenaphthene	UG/KG	0	0%	20000	0	0	8	450 U	460 U	470 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	8	450 U	460 U	470 U
Acetophenone	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Anthracene	UG/KG	0	0%	100000	0	0	8	450 U	460 U	470 U
Atrazine	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Benzaldehyde	UG/KG	0	0%		0	0	8	450 UJ	460 U	470 UJ
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	8	450 U	460 U	470 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	8	450 U	460 U	470 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	8	450 U	460 U	470 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	8	450 U	460 U	470 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	8	450 U	460 U	470 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Caprolactam	UG/KG	0	0%		0	0	8	450 UJ	460 U	470 UJ
Carbazole	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Chrysene	UG/KG	0	0%	1000	0	0	8	450 U	460 U	470 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	8	450 U	460 U	470 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
SITE LOCATION								EOD3	EOD3	EOD3
LOCATION ID								EOD3-118	EOD3-118	EOD3-119
MATRIX								SOIL	SOIL	SOIL
SAMPLE ID								002R011021	002R011020	002R011019
TOP OF SAMPLE								0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2
SAMPLE DATE								12/12/2006	12/12/2006	12/12/2006
QC CODE								DU	SA	SA
STUDY ID								RA	RA	RA
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	8	450 U	460 U	470 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	8	450 U	460 U	470 U
Diethyl phthalate	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Dimethylphthalate	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Fluoranthene	UG/KG	0	0%	100000	0	0	8	450 U	460 U	470 U
Fluorene	UG/KG	0	0%	30000	0	0	8	450 U	460 U	470 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	8	450 U	460 U	470 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Hexachloroethane	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	8	450 U	460 U	470 U
Isophorone	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Naphthalene	UG/KG	0	0%	12000	0	0	8	450 U	460 U	470 U
Nitrobenzene	UG/KG	0	0%		0	0	8	450 U	460 U	470 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	8	2300 U	2400 U	2400 U
Phenanthrene	UG/KG	0	0%	100000	0	0	8	450 U	460 U	470 U
Phenol	UG/KG	0	0%	330	0	0	8	450 U	460 U	470 U
Pyrene	UG/KG	0	0%	100000	0	0	8	450 U	460 U	470 U
Explosives										
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	8	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	8	2000 U	2000 U	2000 U
PCBs										
Aroclor-1016	UG/KG	0	0%		0	0	8	45 U	46 U	47 U
Aroclor-1221	UG/KG	0	0%		0	0	8	92 U	94 U	95 U
Aroclor-1232	UG/KG	0	0%		0	0	8	45 U	46 U	47 U
Aroclor-1242	UG/KG	0	0%		0	0	8	45 U	46 U	47 U
Aroclor-1248	UG/KG	0	0%		0	0	8	45 U	46 U	47 U
Aroclor-1254	UG/KG	0	0%		0	0	8	45 U	46 U	47 U
Aroclor-1260	UG/KG	0	0%		0	0	8	45 U	46 U	47 U
Pesticides										
4,4'-DDD	UG/KG	0	0%	3.3	0	0	8	4.5 U	4.6 U	4.7 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	8	4.5 U	4.6 U	4.7 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION			EOD3			EOD3			EOD3		
LOCATION ID			EOD3-118			EOD3-118			EOD3-119		
MATRIX			SOIL			SOIL			SOIL		
SAMPLE ID			002R011021			002R011020			002R011019		
TOP OF SAMPLE			0			0			0		
BOTTOM OF SAMPLE			0.2			0.2			0.2		
SAMPLE DATE			12/12/2006			12/12/2006			12/12/2006		
QC CODE			DU			SA			SA		
STUDY ID			RA			RA			RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	
4,4'-DDT	UG/KG	0	0%	3.3	0	0	8	4.5 U	4.6 U	4.7 U	
Aldrin	UG/KG	0	0%	5	0	0	8	2.3 U	2.4 U	2.4 U	
Alpha-BHC	UG/KG	0	0%	20	0	0	8	2.3 U	2.4 U	2.4 U	
Alpha-Chlordane	UG/KG	0	0%	94	0	0	8	2.3 U	2.4 U	2.4 U	
Beta-BHC	UG/KG	0	0%	36	0	0	8	2.3 U	2.4 U	2.4 U	
Delta-BHC	UG/KG	0	0%	40	0	0	8	2.3 U	2.4 U	2.4 U	
Dieldrin	UG/KG	0	0%	5	0	0	8	4.5 U	4.6 U	4.7 U	
Endosulfan I	UG/KG	0	0%	2400	0	0	8	2.3 U	2.4 U	2.4 U	
Endosulfan II	UG/KG	0	0%	2400	0	0	8	4.5 U	4.6 U	4.7 U	
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	8	4.5 U	4.6 U	4.7 U	
Endrin	UG/KG	0	0%	14	0	0	8	4.5 U	4.6 U	4.7 U	
Endrin aldehyde	UG/KG	0	0%		0	0	8	4.5 U	4.6 U	4.7 U	
Endrin ketone	UG/KG	0	0%		0	0	8	4.5 U	4.6 U	4.7 U	
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	8	2.3 U	2.4 U	2.4 U	
Gamma-Chlordane	UG/KG	0	0%		0	0	8	2.3 U	2.4 U	2.4 U	
Heptachlor	UG/KG	0	0%	42	0	0	8	2.3 U	2.4 U	2.4 U	
Heptachlor epoxide	UG/KG	0	0%		0	0	8	2.3 U	2.4 U	2.4 U	
Methoxychlor	UG/KG	0	0%		0	0	8	23 U	24 U	24 U	
Toxaphene	UG/KG	0	0%		0	0	8	45 U	46 U	47 U	
Metals											
Aluminum	MG/KG	16600	100%		0	8	8	13900	15800	15600	
Antimony	MG/KG	0	0%		0	0	8	0.47 UJ	0.47 UJ	0.49 UJ	
Arsenic	MG/KG	5.1	100%	13	0	8	8	3	3.6	4.4	
Barium	MG/KG	163	100%	350	0	8	8	88.4	100	99.1	
Beryllium	MG/KG	0.95	100%	7.2	0	8	8	0.66 J	0.75	0.74	
Cadmium	MG/KG	0.2	75%	2.5	0	6	8	0.05 U	0.05 U	0.1 J	
Calcium	MG/KG	105000	100%		0	8	8	2630	2740	4310	
Chromium	MG/KG	24	100%		0	8	8	18.6	21.1	21.3	
Cobalt	MG/KG	10.6	100%		0	8	8	6.5 J	8.1	9.9	
Copper	MG/KG	28.7	100%	50	0	8	8	14.5	15.9	19.1	
Iron	MG/KG	23300	100%		0	8	8	19300	22100	22100	
Lead	MG/KG	25.3	100%	63	0	8	8	18	21.1	21.8	
Magnesium	MG/KG	14000	100%		0	8	8	3140	3500	4130	
Manganese	MG/KG	751	100%	1600	0	8	8	400	561	572	
Mercury	MG/KG	0.09	100%	0.18	0	8	8	0.06	0.06	0.07	
Nickel	MG/KG	27	100%	30	0	8	8	16.7	18.9	22.9	
Potassium	MG/KG	2150	100%		0	8	8	1410	1390	1590	
Selenium	MG/KG	2.9	100%	3.9	0	8	8	1.5	1.7	2	
Silver	MG/KG	0	0%	2	0	0	8	0.15 U	0.15 U	0.16 U	
Sodium	MG/KG	0	0%		0	0	8	133 U	135 U	42.9 U	
Thallium	MG/KG	0	0%		0	0	8	0.39 U	1.2 U	1.2 U	
Vanadium	MG/KG	30.6	100%		0	8	8	26.5	30.4	28.6	
Zinc	MG/KG	101	100%	109	0	8	8	63	68.4	81.5	
Other Analyses											
Nitrate Nitrogen	MG/KG	8.1	38%		0	3	8	6.87 U	7	7.11	
Percent Solids	%	82	100%		0	8	8	72.8	71.4	70.3	

Note(s):

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 3B
SEAD-002-R-01, EOD3 Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
SITE LOCATION								EOD3	EOD3	EOD3
LOCATION ID								EOD3-118	EOD3-118	EOD3-119
MATRIX								SOIL	SOIL	SOIL
SAMPLE ID								002R011021	002R011020	002R011019
TOP OF SAMPLE								0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2
SAMPLE DATE								12/12/2006	12/12/2006	12/12/2006
QC CODE								DU	SA	SA
STUDY ID								RA	RA	RA

(1) Sample/Duplicate pair are presented as individual samples in this table. Statistical information used Sample Duplicate pairs as a single entity and averaged result values were used in risk assessment analysis.

U = compound was not detected
 J = the reported value is an estimated concentration
 UJ = the compound was not detected; the associated reporting limit is approximate
 R = the data was rejected in the data validating process

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 4A
SEAD-57 Burn Pit Excavation Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57	SEAD-57	SEAD-57						
LOCATION ID		S-57-Berm-EX-E	S-57-Berm-EX-FL	S-57-Berm-EX-N						
MATRIX		SOIL	SOIL	SOIL						
SAMPLE ID		L0010004	L0010008	L0010002						
TOP OF SAMPLE		3	6	3						
BOTTOM OF SAMPLE		3	6	3						
SAMPLE DATE		7/24/2006	7/24/2006	7/24/2006						
QC CODE		SA	SA	SA						
STUDY ID		RA	RA	RA						
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Volatle Organic Compounds										
Acetone	UG/KG	2	17%	50	0	1	6	20 U	20 U	20 U
Tetrachloroethene	UG/KG	1.7	67%	1300	0	4	6	0.37 J	0.44 J	1.7 J
Metals										
Aluminum	MG/KG	22500	100%		0	6	6	13400 J	18100 J	22500 J
Arsenic	MG/KG	4.7	100%	13	0	6	6	3.7	3.3	4.7
Barium	MG/KG	183	100%	350	0	6	6	83.3	124	183
Beryllium	MG/KG	1.1	100%	7.2	0	6	6	0.7	0.9	1.1
Cadmium	MG/KG	0.21	100%	2.5	0	6	6	0.21	0.19	0.11
Calcium	MG/KG	87100	100%		0	6	6	87100 J	13500 J	4230 J
Chromium	MG/KG	31.1	100%		0	6	6	22.6	31.1	29.4
Cobalt	MG/KG	14	100%		0	6	6	11.1	13.1	12.8
Copper	MG/KG	37.5	100%	50	0	6	6	30.5	37.5	22.9
Iron	MG/KG	30900	100%		0	6	6	23000 J	29600 J	28100 J
Lead	MG/KG	17.1	100%	63	0	6	6	14.1	17.1	10.9
Magnesium	MG/KG	10800	100%		0	6	6	10800 J	8530 J	6670 J
Manganese	MG/KG	462	100%	1600	0	6	6	462	450	349
Mercury	MG/KG	0.03	100%	0.18	0	6	6	0.02	0.03	0.03
Nickel	MG/KG	59.2	100%	30	6	6	6	38.8	59.2	31.1
Potassium	MG/KG	2880	100%		0	6	6	1730 J	1950 J	2880 J
Selenium	MG/KG	1	67%	3.9	0	4	6	0.89	1	0.269 U
Silver	MG/KG	0.38	100%	2	0	6	6	0.3	0.38	0.22
Sodium	MG/KG	130	100%		0	6	6	130	66.4	91.8
Vanadium	MG/KG	39.9	100%		0	6	6	20.5	28.7	39.9
Zinc	MG/KG	124	100%	109	5	6	6	110	118	71.4
Other Analytes										
Nitrate Nitrogen	MG/KG	6.32	33%		0	2	6	5 U	6.32	5 U
Percent Solids	%	91.9	100%		0	6	6	86.3	79.1	82

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 4A
SEAD-57 Burn Pit Excavation Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION				SEAD-57		SEAD-57		SEAD-57		
LOCATION ID				S-57-Berm-EX-S		S-57-Berm-EX-S		S-57-Berm-EX-W		
MATRIX				SOIL		SOIL		SOIL		
SAMPLE ID				L0010005		L0010003		L0010001		
TOP OF SAMPLE				2.5		2.5		2.5		
BOTTOM OF SAMPLE				2.5		2.5		2.5		
SAMPLE DATE				7/24/2006		7/24/2006		7/24/2006		
QC CODE				DU		SA		SA		
STUDY ID				RA		RA		RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds										
Acetone	UG/KG	2	17%	50	0	1	6	20 U	20 U	2 J
Tetrachloroethene	UG/KG	1.7	67%	1300	0	4	6	5 U	0.98 J	5 U
Metals										
Aluminum	MG/KG	22500	100%		0	6	6	17600 J	16000 J	16700 J
Arsenic	MG/KG	4.7	100%	13	0	6	6	2.7	3	3.3
Barium	MG/KG	183	100%	350	0	6	6	106	95.1	126
Beryllium	MG/KG	1.1	100%	7.2	0	6	6	0.88	0.84	0.87
Cadmium	MG/KG	0.21	100%	2.5	0	6	6	0.1	0.15	0.17
Calcium	MG/KG	87100	100%		0	6	6	10300 J	14700 J	48600 J
Chromium	MG/KG	31.1	100%		0	6	6	30	27.1	27.2
Cobalt	MG/KG	14	100%		0	6	6	13.5	14	11.8
Copper	MG/KG	37.5	100%	50	0	6	6	28.5	34.6	35.3
Iron	MG/KG	30900	100%		0	6	6	30900 J	28600 J	25800 J
Lead	MG/KG	17.1	100%	63	0	6	6	10.1	12.8	15.9
Magnesium	MG/KG	10800	100%		0	6	6	8030 J	7660 J	8150 J
Manganese	MG/KG	462	100%	1600	0	6	6	344	428	356
Mercury	MG/KG	0.03	100%	0.18	0	6	6	0.03	0.03	0.03
Nickel	MG/KG	59.2	100%	30	6	6	6	48	47	47.3
Potassium	MG/KG	2880	100%		0	6	6	1850 J	1860 J	1820 J
Selenium	MG/KG	1	67%	3.9	0	4	6	0.269 U	0.6	0.92
Silver	MG/KG	0.38	100%	2	0	6	6	0.34	0.33	0.34
Sodium	MG/KG	130	100%		0	6	6	69.2	66.3	85.2
Vanadium	MG/KG	39.9	100%		0	6	6	23.7	23.2	24.9
Zinc	MG/KG	124	100%	109	5	6	6	110	124	118
Other Analytes										
Nitrate Nitrogen	MG/KG	6.32	33%		0	2	6	6.05	5 U	5 U
Percent Solids	%	91.9	100%		0	6	6	82.6	91.9	85.3

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57	SEAD-57	SEAD-57							
LOCATION ID		S-57-Berm-EX-E	S-57-Berm-EX-FL	S-57-Berm-EX-N							
MATRIX		SOIL	SOIL	SOIL							
SAMPLE ID		L0010004	L0010008	L0010002							
TOP OF SAMPLE		3	6	3							
BOTTOM OF SAMPLE		3	6	3							
SAMPLE DATE		7/24/2006	7/24/2006	7/24/2006							
QC CODE		SA	SA	SA							
STUDY ID		RA	RA	RA							
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	
Volatile Organic Compounds											
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	5	5 U	5 U	5 U	
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	5	5 U	5 U	5 U	
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	5	5 U	5 U	5 U	
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
1,2-Dibromoethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	5	5 U	5 U	5 U	
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	5	5 U	5 U	5 U	
1,2-Dichloropropane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	5	5 U	5 U	5 U	
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	5	5 U	5 U	5 U	
Acetone	UG/KG	2	20%	50	0	1	5	20 U	20 U	20 U	
Benzene	UG/KG	0	0%	60	0	0	5	5 U	5 U	5 U	
Bromodichloromethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Bromoform	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Carbon disulfide	UG/KG	0	0%		0	0	5	10 U	10 U	10 U	
Carbon tetrachloride	UG/KG	0	0%	760	0	0	5	5 U	5 U	5 U	
Chlorobenzene	UG/KG	0	0%	1100	0	0	5	5 U	5 U	5 U	
Chlorodibromomethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Chloroethane	UG/KG	0	0%		0	0	5	10 U	10 U	10 U	
Chloroform	UG/KG	0	0%	370	0	0	5	5 U	5 U	5 U	
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	5	5 U	5 U	5 U	
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Cyclohexane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Dichlorodifluoromethane	UG/KG	0	0%		0	0	5	5 UJ	5 UJ	5 UJ	
Ethyl benzene	UG/KG	0	0%	1000	0	0	5	5 U	5 U	5 U	
Isopropylbenzene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Methyl Acetate	UG/KG	0	0%		0	0	5	10 U	10 U	10 U	
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	5	5 U	5 U	5 U	
Methyl bromide	UG/KG	0	0%		0	0	5	5 UJ	5 UJ	5 UJ	
Methyl butyl ketone	UG/KG	0	0%		0	0	5	10 U	10 U	10 U	
Methyl chloride	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Methyl cyclohexane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U	
Methyl ethyl ketone	UG/KG	0	0%	120	0	0	5	10 U	10 U	10 U	

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57		SEAD-57		SEAD-57				
LOCATION ID		S-57-Berm-EX-E		S-57-Berm-EX-FL		S-57-Berm-EX-N				
MATRIX		SOIL		SOIL		SOIL				
SAMPLE ID		L0010004		L0010008		L0010002				
TOP OF SAMPLE		3		6		3				
BOTTOM OF SAMPLE		3		6		3				
SAMPLE DATE		7/24/2006		7/24/2006		7/24/2006				
QC CODE		SA		SA		SA				
STUDY ID		RA		RA		RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	5	10 U	10 U	10 U
Methylene chloride	UG/KG	0	0%	50	0	0	5	5 U	5 U	5 U
Ortho Xylene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Styrene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Tetrachloroethene	UG/KG	1.74	80%	1300	0	4	5	0.37 J	0.44 J	1.7 J
Toluene	UG/KG	0	0%	700	0	0	5	5 U	5 U	5 U
Total Xylenes	UG/KG	0	0%	260	0	0	5	5 U	5 U	5 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	5	5 U	5 U	5 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Trichloroethene	UG/KG	0	0%	470	0	0	5	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Vinyl chloride	UG/KG	0	0%	20	0	0	5	5 U	5 U	5 U
Semivolatiles Organic Compounds										
1,1'-Biphenyl	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Chlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Methylphenol	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
2-Nitroaniline	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
2-Nitrophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
3-Nitroaniline	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Chloroaniline	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Methylphenol	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
4-Nitroaniline	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
4-Nitrophenol	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
Acenaphthene	UG/KG	0	0%	20000	0	0	5	330 U	330 U	330 U

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57		SEAD-57		SEAD-57				
LOCATION ID		S-57-Berm-EX-E		S-57-Berm-EX-FL		S-57-Berm-EX-N				
MATRIX		SOIL		SOIL		SOIL				
SAMPLE ID		L0010004		L0010008		L0010002				
TOP OF SAMPLE		3		6		3				
BOTTOM OF SAMPLE		3		6		3				
SAMPLE DATE		7/24/2006		7/24/2006		7/24/2006				
QC CODE		SA		SA		SA				
STUDY ID		RA		RA		RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Acenaphthylene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Acetophenone	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Anthracene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Atrazine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Benzaldehyde	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	5	330 U	330 U	330 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Caprolactam	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Carbazole	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Chrysene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	5	330 U	330 U	330 U
Diethyl phthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Dimethylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Fluoranthene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Fluorene	UG/KG	0	0%	30000	0	0	5	330 U	330 U	330 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Hexachloroethane	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	5	330 U	330 U	330 U
Isophorone	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Naphthalene	UG/KG	0	0%	12000	0	0	5	330 U	330 U	330 U
Nitrobenzene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	5	1700 U	1700 U	1700 U
Phenanthrene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57		SEAD-57		SEAD-57				
LOCATION ID		S-57-Berm-EX-E		S-57-Berm-EX-FL		S-57-Berm-EX-N				
MATRIX		SOIL		SOIL		SOIL				
SAMPLE ID		L0010004		L0010008		L0010002				
TOP OF SAMPLE		3		6		3				
BOTTOM OF SAMPLE		3		6		3				
SAMPLE DATE		7/24/2006		7/24/2006		7/24/2006				
QC CODE		SA		SA		SA				
STUDY ID		RA		RA		RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Phenol	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
Pyrene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Explosives										
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	1000 U	1000 U	1000 U
2-Nitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
3-Nitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
4-Nitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
HMX	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
Nitrobenzene	UG/KG	0	0%		0	0	5	500 U	500 U	500 U
Nitroglycerine	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
RDX	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
Tetryl	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U
PCBs										
Aroclor-1016	UG/KG	0	0%		0	0	5	33 U	33 U	33 U
Aroclor-1221	UG/KG	0	0%		0	0	5	67 U	67 U	67 U
Aroclor-1232	UG/KG	0	0%		0	0	5	33 U	33 U	33 U
Aroclor-1242	UG/KG	0	0%		0	0	5	33 U	33 U	33 U
Aroclor-1248	UG/KG	0	0%		0	0	5	33 U	33 U	33 U
Aroclor-1254	UG/KG	0	0%		0	0	5	33 U	33 U	33 U
Aroclor-1260	UG/KG	0	0%		0	0	5	33 U	33 U	33 U
Pesticides										
4,4'-DDD	UG/KG	0	0%	3.3	0	0	5	3.3 U	3.3 U	3.3 U
4,4'-DDE	UG/KG	0	0%	3.3	0	0	5	3.3 U	3.3 U	3.3 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	5	3.3 U	3.3 U	3.3 U
Aldrin	UG/KG	0	0%	5	0	0	5	1.7 U	1.7 U	1.7 U
Alpha-BHC	UG/KG	0	0%	20	0	0	5	1.7 U	1.7 U	1.7 U
Alpha-Chlordane	UG/KG	0	0%	94	0	0	5	1.7 U	1.7 U	1.7 U
Beta-BHC	UG/KG	0	0%	36	0	0	5	1.7 U	1.7 U	1.7 U
Delta-BHC	UG/KG	0	0%	40	0	0	5	1.7 U	1.7 U	1.7 U
Dieldrin	UG/KG	0	0%	5	0	0	5	3.3 U	3.3 U	3.3 U
Endosulfan I	UG/KG	0	0%	2400	0	0	5	1.7 U	1.7 U	1.7 U

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION				SEAD-57		SEAD-57		SEAD-57		
LOCATION ID				S-57-Berm-EX-E		S-57-Berm-EX-FL		S-57-Berm-EX-N		
MATRIX				SOIL		SOIL		SOIL		
SAMPLE ID				L0010004		L0010008		L0010002		
TOP OF SAMPLE				3		6		3		
BOTTOM OF SAMPLE				3		6		3		
SAMPLE DATE				7/24/2006		7/24/2006		7/24/2006		
QC CODE				SA		SA		SA		
STUDY ID				RA		RA		RA		
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Endosulfan II	UG/KG	0	0%	2400	0	0	5	3.3 U	3.3 U	3.3 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	5	3.3 U	3.3 U	3.3 U
Endrin	UG/KG	0	0%	14	0	0	5	3.3 U	3.3 U	3.3 U
Endrin aldehyde	UG/KG	0	0%		0	0	5	3.3 U	3.3 U	3.3 U
Endrin ketone	UG/KG	0	0%		0	0	5	3.3 U	3.3 U	3.3 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	5	1.7 U	1.7 U	1.7 U
Gamma-Chlordane	UG/KG	0	0%		0	0	5	1.7 U	1.7 U	1.7 U
Heptachlor	UG/KG	0	0%	42	0	0	5	1.7 U	1.7 U	1.7 U
Heptachlor epoxide	UG/KG	0	0%		0	0	5	1.7 U	1.7 U	1.7 U
Methoxychlor	UG/KG	0	0%		0	0	5	17 U	17 U	17 U
Toxaphene	UG/KG	0	0%		0	0	5	33 U	33 U	33 U
Metals										
Aluminum	MG/KG	22500	100%		0	5	5	13400 J	18100 J	22500 J
Antimony	MG/KG	0	0%		0	0	5	0.36 UJ	0.36 UJ	0.36 UJ
Arsenic	MG/KG	4.7	100%	13	0	5	5	3.7	3.3	4.7
Barium	MG/KG	183	100%	350	0	5	5	83.3	124	183
Beryllium	MG/KG	1.1	100%	7.2	0	5	5	0.7	0.9	1.1
Cadmium	MG/KG	0.21	100%	2.5	0	5	5	0.21	0.19	0.11
Calcium	MG/KG	87100	100%		0	5	5	87100 J	13500 J	4230 J
Chromium	MG/KG	31.1	100%		0	5	5	22.6	31.1	29.4
Cobalt	MG/KG	13.75	100%		0	5	5	11.1	13.1	12.8
Copper	MG/KG	37.5	100%	50	0	5	5	30.5	37.5	22.9
Iron	MG/KG	29750	100%		0	5	5	23000 J	29600 J	28100 J
Lead	MG/KG	17.1	100%	63	0	5	5	14.1	17.1	10.9
Magnesium	MG/KG	10800	100%		0	5	5	10800 J	8530 J	6670 J
Manganese	MG/KG	462	100%	1600	0	5	5	462	450	349
Mercury	MG/KG	0.03	100%	0.18	0	5	5	0.02	0.03	0.03
Nickel	MG/KG	59.2	100%	30	5	5	5	38.8	59.2	31.1
Potassium	MG/KG	2880	100%		0	5	5	1730 J	1950 J	2880 J
Selenium	MG/KG	1	80%	3.9	0	4	5	0.89	1	0.269 U
Silver	MG/KG	0.38	100%	2	0	5	5	0.3	0.38	0.22
Sodium	MG/KG	130	100%		0	5	5	130	66.4	91.8
Thallium	MG/KG	0	0%		0	0	5	0.28 U	0.28 U	0.28 U
Vanadium	MG/KG	39.9	100%		0	5	5	20.5	28.7	39.9
Zinc	MG/KG	118	100%	109	4	5	5	110	118	71.4
Other Analyses										
Nitrate Nitrogen	MG/KG	6.32	40%		0	2	5	5 U	6.32	5 U
Percent Solids	%	87.25	100%		0	5	5	86.3	79.1	82

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57		SEAD-57		SEAD-57				
LOCATION ID		S-57-Berm-EX-S		S-57-Berm-EX-S		S-57-Berm-EX-W				
MATRIX		SOIL		SOIL		SOIL				
SAMPLE ID		L0010005		L0010003		L0010001				
TOP OF SAMPLE		2.5		2.5		2.5				
BOTTOM OF SAMPLE		2.5		2.5		2.5				
SAMPLE DATE		7/24/2006		7/24/2006		7/24/2006				
QC CODE		DU		SA		SA				
STUDY ID		RA		RA		RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds										
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	5	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	5	5 U	5 U	5 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	5	5 U	5 U	5 U
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
1,2-Dibromoethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	5	5 U	5 U	5 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	5	5 U	5 U	5 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	5	5 U	5 U	5 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	5	5 U	5 U	5 U
Acetone	UG/KG	2	20%	50	0	1	5	20 U	20 U	2 J
Benzene	UG/KG	0	0%	60	0	0	5	5 U	5 U	5 U
Bromodichloromethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Bromoform	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Carbon disulfide	UG/KG	0	0%		0	0	5	10 U	10 U	10 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	5	5 U	5 U	5 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	5	5 U	5 U	5 U
Chlorodibromomethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Chloroethane	UG/KG	0	0%		0	0	5	10 U	10 U	10 U
Chloroform	UG/KG	0	0%	370	0	0	5	5 U	5 U	5 U
Cis-1,2-Dichloroethene	UG/KG	0	0%	250	0	0	5	5 U	5 U	5 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Cyclohexane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Dichlorodifluoromethane	UG/KG	0	0%		0	0	5	5 UJ	5 UJ	5 UJ
Ethyl benzene	UG/KG	0	0%	1000	0	0	5	5 U	5 U	5 U
Isopropylbenzene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Methyl Acetate	UG/KG	0	0%		0	0	5	10 U	10 U	10 U
Methyl Tertbutyl Ether	UG/KG	0	0%	930	0	0	5	5 U	5 U	5 U
Methyl bromide	UG/KG	0	0%		0	0	5	5 UJ	5 UJ	5 UJ
Methyl butyl ketone	UG/KG	0	0%		0	0	5	10 U	10 U	10 U
Methyl chloride	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Methyl cyclohexane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Methyl ethyl ketone	UG/KG	0	0%	120	0	0	5	10 U	10 U	10 U

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								SEAD-57	SEAD-57	SEAD-57
LOCATION ID								S-57-Berm-EX-S	S-57-Berm-EX-S	S-57-Berm-EX-W
MATRIX								SOIL	SOIL	SOIL
SAMPLE ID								L0010005	L0010003	L0010001
TOP OF SAMPLE								2.5	2.5	2.5
BOTTOM OF SAMPLE								2.5	2.5	2.5
SAMPLE DATE								7/24/2006	7/24/2006	7/24/2006
QC CODE								DU	SA	SA
STUDY ID								RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Methyl isobutyl ketone	UG/KG	0	0%		0	0	5	10 U	10 U	10 U
Methylene chloride	UG/KG	0	0%	50	0	0	5	5 U	5 U	5 U
Ortho Xylene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Styrene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Tetrachloroethene	UG/KG	1.74	80%	1300	0	4	5	5 U	0.98 J	5 U
Toluene	UG/KG	0	0%	700	0	0	5	5 U	5 U	5 U
Total Xylenes	UG/KG	0	0%	260	0	0	5	5 U	5 U	5 U
Trans-1,2-Dichloroethene	UG/KG	0	0%	190	0	0	5	5 U	5 U	5 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Trichloroethene	UG/KG	0	0%	470	0	0	5	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	0	0%		0	0	5	5 U	5 U	5 U
Vinyl chloride	UG/KG	0	0%	20	0	0	5	5 U	5 U	5 U
Semivolatile Organic Compounds										
1,1'-Biphenyl	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4-Dichlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4-Dimethylphenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,4-Dinitrophenol	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Chloronaphthalene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Chlorophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Methylnaphthalene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
2-Methylphenol	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
2-Nitroaniline	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
2-Nitrophenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
3-Nitroaniline	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Chloroaniline	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
4-Methylphenol	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
4-Nitroaniline	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
4-Nitrophenol	UG/KG	0	0%		0	0	5	1700 U	1700 U	1700 U
Acenaphthene	UG/KG	0	0%	20000	0	0	5	330 U	330 U	330 U

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57		SEAD-57		SEAD-57				
LOCATION ID		S-57-Berm-EX-S		S-57-Berm-EX-S		S-57-Berm-EX-W				
MATRIX		SOIL		SOIL		SOIL				
SAMPLE ID		L0010005		L0010003		L0010001				
TOP OF SAMPLE		2.5		2.5		2.5				
BOTTOM OF SAMPLE		2.5		2.5		2.5				
SAMPLE DATE		7/24/2006		7/24/2006		7/24/2006				
QC CODE		DU		SA		SA				
STUDY ID		RA		RA		RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Acenaphthylene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Acetophenone	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Anthracene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Atrazine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Benzaldehyde	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Benzo(a)anthracene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Benzo(a)pyrene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Benzo(b)fluoranthene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Benzo(ghi)perylene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Benzo(k)fluoranthene	UG/KG	0	0%	800	0	0	5	330 U	330 U	330 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Bis(2-Ethylhexyl)phthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Butylbenzylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Caprolactam	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Carbazole	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Chrysene	UG/KG	0	0%	1000	0	0	5	330 U	330 U	330 U
Di-n-butylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Di-n-octylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	5	330 U	330 U	330 U
Diethyl phthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Dimethylphthalate	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Fluoranthene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U
Fluorene	UG/KG	0	0%	30000	0	0	5	330 U	330 U	330 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U
Hexachlorobutadiene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Hexachloroethane	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	UG/KG	0	0%	500	0	0	5	330 U	330 U	330 U
Isophorone	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
N-Nitrosodiphenylamine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Naphthalene	UG/KG	0	0%	12000	0	0	5	330 U	330 U	330 U
Nitrobenzene	UG/KG	0	0%		0	0	5	330 U	330 U	330 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	5	1700 U	1700 U	1700 U
Phenanthrene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION									SEAD-57	SEAD-57	SEAD-57
LOCATION ID									S-57-Berm-EX-S	S-57-Berm-EX-S	S-57-Berm-EX-W
MATRIX									SOIL	SOIL	SOIL
SAMPLE ID									L0010005	L0010003	L0010001
TOP OF SAMPLE									2.5	2.5	2.5
BOTTOM OF SAMPLE									2.5	2.5	2.5
SAMPLE DATE									7/24/2006	7/24/2006	7/24/2006
QC CODE									DU	SA	SA
STUDY ID									RA	RA	RA
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	
Phenol	UG/KG	0	0%	330	0	0	5	330 U	330 U	330 U	
Pyrene	UG/KG	0	0%	100000	0	0	5	330 U	330 U	330 U	
Explosives											
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	1000 U	1000 U	1000 U	
2-Nitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
3-Nitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
4-Nitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
HMX	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
Nitrobenzene	UG/KG	0	0%		0	0	5	500 U	500 U	500 U	
Nitroglycerine	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
Pentaerythritol Tetranitrate	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
RDX	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
Tetryl	UG/KG	0	0%		0	0	5	2000 U	2000 U	2000 U	
PCBs											
Aroclor-1016	UG/KG	0	0%		0	0	5	33 U	33 U	33 U	
Aroclor-1221	UG/KG	0	0%		0	0	5	67 U	67 U	67 U	
Aroclor-1232	UG/KG	0	0%		0	0	5	33 U	33 U	33 U	
Aroclor-1242	UG/KG	0	0%		0	0	5	33 U	33 U	33 U	
Aroclor-1248	UG/KG	0	0%		0	0	5	33 U	33 U	33 U	
Aroclor-1254	UG/KG	0	0%		0	0	5	33 U	33 U	33 U	
Aroclor-1260	UG/KG	0	0%		0	0	5	33 U	33 U	33 U	
Pesticides											
4,4'-DDD	UG/KG	0	0%	3.3	0	0	5	3.3 U	3.3 UJ	3.3 U	
4,4'-DDE	UG/KG	0	0%	3.3	0	0	5	3.3 U	3.3 UJ	3.3 U	
4,4'-DDT	UG/KG	0	0%	3.3	0	0	5	3.3 U	3.3 UJ	3.3 U	
Aldrin	UG/KG	0	0%	5	0	0	5	1.7 U	1.7 UJ	1.7 U	
Alpha-BHC	UG/KG	0	0%	20	0	0	5	1.7 U	1.7 UJ	1.7 U	
Alpha-Chlordane	UG/KG	0	0%	94	0	0	5	1.7 U	1.7 UJ	1.7 U	
Beta-BHC	UG/KG	0	0%	36	0	0	5	1.7 U	1.7 UJ	1.7 U	
Delta-BHC	UG/KG	0	0%	40	0	0	5	1.7 U	1.7 UJ	1.7 U	
Dieldrin	UG/KG	0	0%	5	0	0	5	3.3 U	3.3 UJ	3.3 U	
Endosulfan I	UG/KG	0	0%	2400	0	0	5	1.7 U	1.7 UJ	1.7 U	

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 4B
SEAD-57 Burn Pit Excavation Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION		SEAD-57		SEAD-57		SEAD-57				
LOCATION ID		S-57-Berm-EX-S		S-57-Berm-EX-S		S-57-Berm-EX-W				
MATRIX		SOIL		SOIL		SOIL				
SAMPLE ID		L0010005		L0010003		L0010001				
TOP OF SAMPLE		2.5		2.5		2.5				
BOTTOM OF SAMPLE		2.5		2.5		2.5				
SAMPLE DATE		7/24/2006		7/24/2006		7/24/2006				
QC CODE		DU		SA		SA				
STUDY ID		RA		RA		RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Endosulfan II	UG/KG	0	0%	2400	0	0	5	3.3 U	3.3 UJ	3.3 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	5	3.3 U	3.3 UJ	3.3 U
Endrin	UG/KG	0	0%	14	0	0	5	3.3 U	3.3 UJ	3.3 U
Endrin aldehyde	UG/KG	0	0%		0	0	5	3.3 U	3.3 UJ	3.3 U
Endrin ketone	UG/KG	0	0%		0	0	5	3.3 U	3.3 UJ	3.3 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	5	1.7 U	1.7 UJ	1.7 U
Gamma-Chlordane	UG/KG	0	0%		0	0	5	1.7 U	1.7 UJ	1.7 U
Heptachlor	UG/KG	0	0%	42	0	0	5	1.7 U	1.7 UJ	1.7 U
Heptachlor epoxide	UG/KG	0	0%		0	0	5	1.7 U	1.7 UJ	1.7 U
Methoxychlor	UG/KG	0	0%		0	0	5	17 U	17 UJ	17 U
Toxaphene	UG/KG	0	0%		0	0	5	33 U	33 UJ	33 U
Metals										
Aluminum	MG/KG	22500	100%		0	5	5	17600 J	16000 J	16700 J
Antimony	MG/KG	0	0%		0	0	5	0.36 UJ	0.36 UJ	0.36 UJ
Arsenic	MG/KG	4.7	100%	13	0	5	5	2.7	3	3.3
Barium	MG/KG	183	100%	350	0	5	5	106	95.1	126
Beryllium	MG/KG	1.1	100%	7.2	0	5	5	0.88	0.84	0.87
Cadmium	MG/KG	0.21	100%	2.5	0	5	5	0.1	0.15	0.17
Calcium	MG/KG	87100	100%		0	5	5	10300 J	14700 J	48600 J
Chromium	MG/KG	31.1	100%		0	5	5	30	27.1	27.2
Cobalt	MG/KG	13.75	100%		0	5	5	13.5	14	11.8
Copper	MG/KG	37.5	100%	50	0	5	5	28.5	34.6	35.3
Iron	MG/KG	29750	100%		0	5	5	30900 J	28600 J	25800 J
Lead	MG/KG	17.1	100%	63	0	5	5	10.1	12.8	15.9
Magnesium	MG/KG	10800	100%		0	5	5	8030 J	7660 J	8150 J
Manganese	MG/KG	462	100%	1600	0	5	5	344	428	356
Mercury	MG/KG	0.03	100%	0.18	0	5	5	0.03	0.03	0.03
Nickel	MG/KG	59.2	100%	30	5	5	5	48	47	47.3
Potassium	MG/KG	2880	100%		0	5	5	1850 J	1860 J	1820 J
Selenium	MG/KG	1	80%	3.9	0	4	5	0.269 U	0.6	0.92
Silver	MG/KG	0.38	100%	2	0	5	5	0.34	0.33	0.34
Sodium	MG/KG	130	100%		0	5	5	69.2	66.3	85.2
Thallium	MG/KG	0	0%		0	0	5	0.28 U	0.28 U	0.28 U
Vanadium	MG/KG	39.9	100%		0	5	5	23.7	23.2	24.9
Zinc	MG/KG	118	100%	109	4	5	5	110	124	118
Other Analyses										
Nitrate Nitrogen	MG/KG	6.32	40%		0	2	5	6.05	5 U	5 U
Percent Solids	%	87.25	100%		0	5	5	82.6	91.9	85.3

(1) - NYSDEC's Unrestricted Use Soil cleanup Objectives, 6 NYCRR Part 375--6.

**APPENDIX E TABLE 5A
SEAD-46 and SEAD-57 Lay Down Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								SEAD-46	SEAD-57	SEAD-57
LOCATION ID								S-46 Berm Stockpile	S-57 Berm Stockpile	S-57 Stockpile
MATRIX								SOIL	SOIL	SOIL
SAMPLE ID								P0031001	P0021001	P0011004
TOP OF SAMPLE								0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2
SAMPLE DATE								8/29/2006	8/29/2006	8/29/2006
QC CODE								SA	SA	DU
STUDY ID								RA	RA	RA
Parameter	Units	Maximum Value	Frequency of Detection	NYSDEC Unrestricted Use Criteria	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Metals										
Aluminum	MG/KG	18600	100%		0	6	6	15400	15800	16900
Arsenic	MG/KG	8.9	100%	13	0	6	6	5.4 J	5.1 J	6.6 J
Barium	MG/KG	148	100%	350	0	6	6	124	96	143
Beryllium	MG/KG	0.86	100%	7.2	0	6	6	0.81	0.8	0.86
Cadmium	MG/KG	1.9	100%	2.5	0	6	6	0.24	1.9	0.81
Calcium	MG/KG	43900	100%		0	6	6	14500	43900	8240
Chromium	MG/KG	30.1	100%		0	6	6	22.4	30.1	24.6
Cobalt	MG/KG	13.8	100%		0	6	6	10.6	11.4	13.8 J
Copper	MG/KG	58.2	100%	50	1	6	6	21.9	58.2	32.3
Iron	MG/KG	28000	100%		0	6	6	21900	28000	26300
Lead	MG/KG	132	100%	63	1	6	6	132	60.6	29.6
Magnesium	MG/KG	8870	100%		0	6	6	6450	8870	4820
Manganese	MG/KG	733	100%	1600	0	6	6	733 J	415 J	670 J
Mercury	MG/KG	0.06	100%	0.18	0	6	6	0.05	0.03	0.05
Nickel	MG/KG	45.7	100%	30	4	6	6	29.4	45.7	32.5
Potassium	MG/KG	2190	100%		0	6	6	1450	2030	2050
Selenium	MG/KG	1.8	83%	3.9	0	5	6	1.8	0.54	0.99 J
Sodium	MG/KG	97.6	100%		0	6	6	52.6	97.6	57.7
Vanadium	MG/KG	34.8	100%		0	6	6	27.4	27.3	31.6
Zinc	MG/KG	182	100%	109	1	6	6	63.3	182	103
Other Analytes										
Percent Solids	%	82.8	100%		0	6	6	80.9	82.8	75.8

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E TABLE 5A
SEAD-46 and SEAD-57 Lay Down Soil Sample Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

SITE LOCATION								SEAD-57	SEAD-57	SEAD-57
LOCATION ID								S-57 Stockpile	S-57 Stockpile	S-57 Stockpile
MATRIX								SOIL	SOIL	SOIL
SAMPLE ID								P0011002	P0011001	P0011003
TOP OF SAMPLE								0	0	0
BOTTOM OF SAMPLE								0.2	0.2	0.2
SAMPLE DATE								8/29/2006	8/29/2006	8/29/2006
QC CODE								SA	SA	SA
STUDY ID								RA	RA	RA
Parameter	Units	Maximum Value	Frequency of Detection	NYSDEC Unrestricted Use Criteria	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Metals										
Aluminum	MG/KG	18600	100%		0	6	6	14400	18600	16700
Arsenic	MG/KG	8.9	100%	13	0	6	6	3.1 J	8.9 J	4.9 J
Barium	MG/KG	148	100%	350	0	6	6	125	134	148
Beryllium	MG/KG	0.86	100%	7.2	0	6	6	0.74	0.091	0.84
Cadmium	MG/KG	1.9	100%	2.5	0	6	6	0.89	0.67	0.76
Calcium	MG/KG	43900	100%		0	6	6	5840	8910	8660
Chromium	MG/KG	30.1	100%		0	6	6	20.3	26.8	25.4
Cobalt	MG/KG	13.8	100%		0	6	6	9.1 J	11.8	11.8
Copper	MG/KG	58.2	100%	50	1	6	6	29.2	30.1	36.9
Iron	MG/KG	28000	100%		0	6	6	20000	25400	25800
Lead	MG/KG	132	100%	63	1	6	6	28.7	36.3	30.3
Magnesium	MG/KG	8870	100%		0	6	6	3830	5170	5350
Manganese	MG/KG	733	100%	1600	0	6	6	527 J	584 J	454 J
Mercury	MG/KG	0.06	100%	0.18	0	6	6	0.06	0.06	0.05
Nickel	MG/KG	45.7	100%	30	4	6	6	24.5	31.5	37.1
Potassium	MG/KG	2190	100%		0	6	6	2050	2190	1990
Selenium	MG/KG	1.8	83%	3.9	0	5	6	0.269 UJ	1.4	0.78
Sodium	MG/KG	97.6	100%		0	6	6	51	67.9	63.8
Vanadium	MG/KG	34.8	100%		0	6	6	26.1	34.8	30.7
Zinc	MG/KG	182	100%	109	1	6	6	95	98	106
Other Analytes										
Percent Solids	%	82.8	100%		0	6	6	78.1	76.8	72.4

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objective, 6 NYCRR Part 375-6.

**APPENDIX E Table 5B
SEAD-46 and SEAD-57 Lay Down Soil Sample Results**

**Munitions Response Remedial Action
Seneca Army Depot Activity**

				SEAD-46	SEAD-57	SEAD-57				
				S-46 Berm Stockpile	S-57 Berm Stockpile	S-57 Stockpile				
				SOIL	SOIL	SOIL				
				P0031001	P0021001	P0011004				
				0	0	0				
				0.2	0.2	0.2				
				8/29/2006	8/29/2006	8/29/2006				
				SA	SA	DU				
				RA	RA	RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Metals										
Aluminum	MG/KG	18600	100%		0	6	6	15400	15800	16900
Antimony	MG/KG	0	0%		0	0	6	0.36 UJ	0.36 UJ	0.36 UJ
Arsenic	MG/KG	8.9	100%	13	0	6	6	5.4 J	5.1 J	6.6 J
Barium	MG/KG	148	100%	350	0	6	6	124	96	143
Beryllium	MG/KG	0.86	100%	7.2	0	6	6	0.81	0.8	0.86
Cadmium	MG/KG	1.9	100%	2.5	0	6	6	0.24	1.9	0.81
Calcium	MG/KG	43900	100%		0	6	6	14500	43900	8240
Chromium	MG/KG	30.1	100%		0	6	6	22.4	30.1	24.6
Cobalt	MG/KG	13.8	100%		0	6	6	10.6	11.4	13.8 J
Copper	MG/KG	58.2	100%	50	1	6	6	21.9	58.2	32.3
Iron	MG/KG	28000	100%		0	6	6	21900	28000	26300
Lead	MG/KG	132	100%	63	1	6	6	132	60.6	29.6
Magnesium	MG/KG	8870	100%		0	6	6	6450	8870	4820
Manganese	MG/KG	733	100%	1600	0	6	6	733 J	415 J	670 J
Mercury	MG/KG	0.06	100%	0.18	0	6	6	0.05	0.03	0.05
Nickel	MG/KG	45.7	100%	30	4	6	6	29.4	45.7	32.5
Potassium	MG/KG	2190	100%		0	6	6	1450	2030	2050
Selenium	MG/KG	1.8	83%	3.9	0	5	6	1.8	0.54	0.99 J
Silver	MG/KG	0	0%	2	0	0	6	0.099 U	0.099 U	0.099 U
Sodium	MG/KG	97.6	100%		0	6	6	52.6	97.6	57.7
Thallium	MG/KG	0	0%		0	0	6	0.28 U	0.28 U	0.28 U
Vanadium	MG/KG	34.8	100%		0	6	6	27.4	27.3	31.6
Zinc	MG/KG	182	100%	109	1	6	6	63.3	182	103
Other Analysis										
Percent Solids	%	82.8	100%		0	6	6	80.9	82.8	75.8

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E Table 5B
SEAD-46 and SEAD-57 Lay Down Soil Sample Results**

**Munitions Response Remedial Action
Seneca Army Depot Activity**

				SEAD-57	SEAD-57	SEAD-57				
				S-57 Stockpile	S-57 Stockpile	S-57 Stockpile				
				SOIL	SOIL	SOIL				
				P0011002	P0011001	P0011003				
				0	0	0				
				0.2	0.2	0.2				
				8/29/2006	8/29/2006	8/29/2006				
				SA	SA	SA				
				RA	RA	RA				
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)
Metals										
Aluminum	MG/KG	18600	100%		0	6	6	14400	18600	16700
Antimony	MG/KG	0	0%		0	0	6	0.36 UJ	0.36 UJ	0.36 UJ
Arsenic	MG/KG	8.9	100%	13	0	6	6	3.1 J	8.9 J	4.9 J
Barium	MG/KG	148	100%	350	0	6	6	125	134	148
Beryllium	MG/KG	0.86	100%	7.2	0	6	6	0.74	0.091	0.84
Cadmium	MG/KG	1.9	100%	2.5	0	6	6	0.89	0.67	0.76
Calcium	MG/KG	43900	100%		0	6	6	5840	8910	8660
Chromium	MG/KG	30.1	100%		0	6	6	20.3	26.8	25.4
Cobalt	MG/KG	13.8	100%		0	6	6	9.1 J	11.8	11.8
Copper	MG/KG	58.2	100%	50	1	6	6	29.2	30.1	36.9
Iron	MG/KG	28000	100%		0	6	6	20000	25400	25800
Lead	MG/KG	132	100%	63	1	6	6	28.7	36.3	30.3
Magnesium	MG/KG	8870	100%		0	6	6	3830	5170	5350
Manganese	MG/KG	733	100%	1600	0	6	6	527 J	584 J	454 J
Mercury	MG/KG	0.06	100%	0.18	0	6	6	0.06	0.06	0.05
Nickel	MG/KG	45.7	100%	30	4	6	6	24.5	31.5	37.1
Potassium	MG/KG	2190	100%		0	6	6	2050	2190	1990
Selenium	MG/KG	1.8	83%	3.9	0	5	6	0.269 UJ	1.4	0.78
Silver	MG/KG	0	0%	2	0	0	6	0.099 U	0.099 U	0.099 U
Sodium	MG/KG	97.6	100%		0	6	6	51	67.9	63.8
Thallium	MG/KG	0	0%		0	0	6	0.28 U	0.28 U	0.28 U
Vanadium	MG/KG	34.8	100%		0	6	6	26.1	34.8	30.7
Zinc	MG/KG	182	100%	109	1	6	6	95	98	106
Other Analysis										
Percent Solids	%	82.8	100%		0	6	6	78.1	76.8	72.4

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46		
								BE46-1	BE46-2	BE46-3	BE46-4	BE46-5	BE46-6		
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
								464001	464002	464003	464004	464005	464006		
								1.8	1.8	1.8	1.8	1.8	1.8		
								2.2	2.2	2.2	2.2	2.2	2.2		
								36507	36507	36507	36507	36507	36508		
								SA	SA	SA	SA	SA	SA		
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI		
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)		
Volatile Organic Compounds															
Acetone	UG/KG	410	100%	50	27	30	30	200 J	110 J	200 J	150 J	160 J	32 J		
Benzene	UG/KG	12	23%	60	0	7	30	1 J	10 U	1 J	9 U	9 U	12		
Carbon disulfide	UG/KG	20	39%		0	12	31	6 J	10 U	10	9 U	3 J	8 J		
Ethyl benzene	UG/KG	1	3%	1000	0	1	29	11 U	10 U	10 U	9 U	9 U	1 J		
Methyl ethyl ketone	UG/KG	48	77%	120	0	23	30	11 U	9 J	10 U	15	12	9 U		
Toluene	UG/KG	13	90%	700	0	28	31	2 J	10 U	2 J	9 U	9 U	12		
Total Xylenes	UG/KG	7	23%	260	0	7	30	1 J	10 U	1 J	9 U	9 U	7 J		
Semivolatile Organic Compounds															
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
4-Methylphenol	UG/KG	13	6%	330	0	2	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	77 UJ	12 J	81 UJ	78 UJ	77 UJ	19 J		
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	77 UJ	12 J	81 UJ	78 UJ	77 UJ	19 J		
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	77 UJ	52 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Chrysene	UG/KG	40	32%	1000	0	10	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Diethyl phthalate	UG/KG	11	3%		0	1	31	77 UJ	3.6 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Fluoranthene	UG/KG	36	52%	100000	0	16	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Hexachloroethane	UG/KG	9.9	3%		0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	5.8 J		
Phenol	UG/KG	33	32%	330	0	10	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
Pyrene	UG/KG	32	55%	100000	0	17	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ		
B(a)P Toxicity Equivalents	UG/KG	242	65%	10000 (2)	0	20	31	NA	88	NA	NA	NA	86		

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-1 SOIL 464001	BE46-2 SOIL 464002	BE46-3 SOIL 464003	BE46-4 SOIL 464004	BE46-5 SOIL 464005	BE46-6 SOIL 464006
								1.8	1.8	1.8	1.8	1.8	1.8
								2.2	2.2	2.2	2.2	2.2	2.2
								36507 SA	36507 SA	36507 SA	36507 SA	36507 SA	36507 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pesticides and PCBs													
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Dieldrin	UG/KG	46	32%	40	2	10	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endrin	UG/KG	5.1	10%	14	0	3	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endrin ketone	UG/KG	3.1	3%		0	1	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Metals and Cyanide													
Aluminum	MG/KG	16500	100%		0	31	31	12600	13800	12100	12100	12900	11100
Antimony	MG/KG	0.73	22%		0	4	18	0.42 UJ	0.46 UJ	0.47 UJ	0.47 UJ	0.44 UJ	0.48 UJ
Arsenic	MG/KG	7.9	100%	13	0	31	31	3.6	3.9	7.2	4.1	3.8	3.7
Barium	MG/KG	152	100%	350	0	31	31	92.6	113	95.8	92	94.4	80.5
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	0.85 J	0.95 J	0.85 J	0.8 J	0.88 J	0.88 J
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.06 U	0.07 U	0.06 U	0.06 U	0.06 U	0.06 U
Calcium	MG/KG	69300	100%		0	31	31	27400	14900	26800	39000	7410	26500
Chromium	MG/KG	26.3	100%	30	0	31	31	20.9	20	21.9	18.7	20.1	18.5
Cobalt	MG/KG	20	100%		0	31	31	11.7	9.3 J	10.5 J	10.2 J	9.8 J	10.2 J
Copper	MG/KG	41.15	100%	50	0	31	31	25.6	17.4	20.7	23.2	19.3	21.8
Iron	MG/KG	39100	100%		0	31	31	27000 J	26800 J	24900 J	24800 J	25200 J	22900
Lead	MG/KG	73	100%	63	1	31	31	15.3 J	14.9 J	13.5 J	15.3 J	13.7 J	22.5 J
Magnesium	MG/KG	12800	100%		0	31	31	9350	6670	6890	12800	7130	12800
Manganese	MG/KG	1170	97%	1600	0	30	31	568	698	593	526	531	618
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.12 J	0.1 J	0.09 J	0.08 J	0.08 J	0.13 J
Nickel	MG/KG	47.4	100%	30	12	31	31	35.4	25.7	30.2	29.9	27.6	26.6
Potassium	MG/KG	1770	100%		0	31	31	1190	817 J	1010	974	865 J	1470
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.49 UJ	0.53 UJ	0.45 UJ	0.46 UJ	0.51 UJ	0.52 UJ
Silver	MG/KG	0.3175	3%	2	0	1	31	0.25 UJ	0.27 UJ	0.28 UJ	0.28 UJ	0.26 UJ	0.29 UJ
Sodium	MG/KG	272	45%		0	14	31	98.8 J	98.6 U	205 J	107 J	94.2 U	272 J
Thallium	MG/KG	3.7	97%		0	30	31	1.5 J	1.2 J	3.4	2.7	1.2 J	1.5 J
Vanadium	MG/KG	29.3	100%		0	31	31	21.6	24.7	21.7	20.8	22.4	20.8

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-1	BE46-2	BE46-3	BE46-4	BE46-5	BE46-6
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464001	464002	464003	464004	464005	464006
								1.8	1.8	1.8	1.8	1.8	1.8
								2.2	2.2	2.2	2.2	2.2	2.2
								36507	36507	36507	36507	36507	36508
								SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Zinc	MG/KG	115	100%	109	1	31	31	67.8	51.1	85.3	64.6	72.4	66.2
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	0.67	1.5	0.94	1.9	1.9	
Percent Solids	% WW	89.5	100%		0	31	31	86.5	84.2	81.2	83.9	85.7	86.7

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-7	BE46-8	SS46-1	SS46-11	SS46-13	SS46-13
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464007	464000	464023	464014	464028	464027
								1.8	1.8	0	0	0	0
								2.2	2.2	0.5	0.5	0.5	0.5
								36508	36508	36509	36508	36510	36510
								SA	SA	SA	SA	DU	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds													
Acetone	UG/KG	410	100%	50	27	30	30	48 J		140 J	300 J	210 J	210 J
Benzene	UG/KG	12	23%	60	0	7	30	1 J	2 J	14 U	11 U	12 U	13 U
Carbon disulfide	UG/KG	20	39%		0	12	31	6 J	2 J	14 U	11 U	12 UJ	13 UJ
Ethyl benzene	UG/KG	1	3%	1000	0	1	29	9 U	10 U	14 U	11 U	12 U	13 U
Methyl ethyl ketone	UG/KG	48	77%	120	0	23	30	9 U	10 U	16	28	23 J	20 J
Toluene	UG/KG	13	90%	700	0	28	31	4 J	3 J	4 J	6 J	4 J	3 J
Total Xylenes	UG/KG	7	23%	260	0	7	30	2 J	2 J	14 U	11 U	12 U	13 U
Semivolatile Organic Compounds													
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	78 UJ	74 UJ	110 U	130 UJ	92 UJ	90 UJ
4-Methylphenol	UG/KG	13	6%	330	0	2	31	78 UJ	74 UJ	110 U	130 UJ	92 UJ	90 UJ
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	78 UJ	74 UJ	110 U	5.1 J	92 UJ	90 UJ
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	78 UJ	19 UJ	8.1 J	7.1 J	7 J	6.2 J
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	78 UJ	74 UJ	110 U	7 J	6.9 J	90 UJ
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	78 UJ	74 UJ	110 U	130 UJ	92 UJ	90 UJ
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	78 UJ	74 UJ	110 U	6.1 J	6.8 J	90 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	78 UJ	74 UJ	110 U	780 J	92 UJ	90 UJ
Chrysene	UG/KG	40	32%	1000	0	10	31	78 UJ	74 UJ	110 U	5.9 J	6.5 J	90 UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	78 UJ	74 UJ	110 U	130 UJ	5.2 J	90 UJ
Diethyl phthalate	UG/KG	11	3%		0	1	31	78 UJ	74 UJ	110 U	11 J	92 UJ	90 UJ
Fluoranthene	UG/KG	36	52%	100000	0	16	31	78 UJ	74 UJ	9.4 J	10 J	10 J	6 J
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	78 UJ	11 J	110 U	130 UJ	92 UJ	90 UJ
Hexachloroethane	UG/KG	9.9	3%		0	1	31	78 UJ	9.9 J	110 U	130 UJ	92 UJ	90 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	78 UJ	12 J	110 U	130 UJ	92 UJ	90 UJ
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	78 UJ	74 UJ	110 U	130 UJ	92 UJ	90 UJ
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	78 UJ	74 UJ	110 U	130 UJ	92 UJ	90 UJ
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	78 UJ	74 UJ	4.9 J	5.2 J	5.2 J	90 UJ
Phenol	UG/KG	33	32%	330	0	10	31	78 UJ	74 UJ	110 U	130 UJ	5.4 J	12 J
Pyrene	UG/KG	32	55%	100000	0	17	31	78 UJ	14 J	6.2 J	6.1 J	8 J	8 J
B(a)P Toxicity Equivalents	UG/KG	242	65%	10000 (2)	0	20	31	NA	56	81	80	62	65

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-7	BE46-8	SS46-1	SS46-11	SS46-13	SS46-13
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464007	464000	464023	464014	464028	464027
								1.8	1.8	0	0	0	0
								2.2	2.2	0.5	0.5	0.5	0.5
								36508	36508	36509	36508	36510	36510
								SA	SA	SA	SA	DU	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pesticides and PCBs													
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.6 U	4.5 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.6 U	4.5 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2 U	1.9 U	3.5	1.3 UJ	2.4 U	2.3 U
Dieldrin	UG/KG	46	32%	40	2	10	31	3.9 U	3.7 U	3 J	46 J	7.5 J	9.5 J
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2 U	1.9 U	2.9 U	2.2 UJ	2.4 U	2.3 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.6 U	4.5 U
Endrin	UG/KG	5.1	10%	14	0	3	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.6 U	4.5 U
Endrin ketone	UG/KG	3.1	3%		0	1	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.6 U	4.5 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2 U	1.9 U	2.9 U	2.2 UJ	2.4 U	2.3 U
Metals and Cyanide													
Aluminum	MG/KG	16500	100%		0	31	31	12700	8890	13000	13900	13900	14600
Antimony	MG/KG	0.73	22%		0	4	18	0.51 UJ	0.48 UJ	0.82 UR	0.53 UJ	0.56 J	0.59 UR
Arsenic	MG/KG	7.9	100%	13	0	31	31	4.3	3.8	4.4	6.1	4.9	5.5
Barium	MG/KG	152	100%	350	0	31	31	88.2	62.7	67.8	96.6	83.4	80
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	0.9 J	0.62 J	0.48 J	1.1 J	0.83 J	0.84 J
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.05 U	0.07 U	0.09 U	0.07 U	0.04 U	0.05 U
Calcium	MG/KG	69300	100%		0	31	31	38000	38300	3300 J	4060	2930 J	3010 J
Chromium	MG/KG	26.3	100%	30	0	31	31	19.1	15.6	16 J	22.7	15.8	16.2
Cobalt	MG/KG	20	100%		0	31	31	13.6	6.8 J	6.6 J	12.3	9.6	9.7 J
Copper	MG/KG	41.15	100%	50	0	31	31	26.1	17.9	14.2	30.3	36.8 J	45.5 J
Iron	MG/KG	39100	100%		0	31	31	26700	17900	19600 J	28600 J	23100 J	25800 J
Lead	MG/KG	73	100%	63	1	31	31	55.5 J	10.7 J	20.2	31.6 J	54.7	46.8
Magnesium	MG/KG	12800	100%		0	31	31	9080	11600	3250	4490	3380 J	3780 J
Manganese	MG/KG	1170	97%	1600	0	30	31	677	384	307 J	672	411 J	405 J
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.09 J	0.09 J	0.07 J	0.12 J	0.06 U	0.07 U
Nickel	MG/KG	47.4	100%	30	12	31	31	35.3	20.6	18 J	35.7	21.4 J	24.2 J
Potassium	MG/KG	1770	100%		0	31	31	980	950 J	1370 J	1310	1150	1120 J
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.43 UJ	0.54 UJ	0.73 U	0.55 UJ	0.47 U	0.67 U
Silver	MG/KG	0.3175	3%	2	0	1	31	0.3 UJ	0.28 UJ	0.58 UJ	0.31 UJ	0.46 J	0.35 UJ
Sodium	MG/KG	272	45%		0	14	31	162 J	136 J	135 U	127 J	90.7 J	77.8 U
Thallium	MG/KG	3.7	97%		0	30	31	1.3 J	1.4 J	0.82 U	2 J	2.3	1.7 J
Vanadium	MG/KG	29.3	100%		0	31	31	21.9	17.4	23.1	25.4	24.6	25

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-7 SOIL 464007	BE46-8 SOIL 464000	SS46-1 SOIL 464023	SS46-11 SOIL 464014	SS46-13 SOIL 464028	SS46-13 SOIL 464027
Zinc	MG/KG	115	100%	109	1	31	31	66.7	56.5	62.6 J	83.2	68 J	70.1 J
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	2.2	1.5	0.02		0.07 J	0.04 J
Percent Solids	% WW	89.5	100%		0	31	31	84.9	89.5	58.9	75.8	72	72.8

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46		
								SS46-15	SS46-16	SS46-17	SS46-18	SS46-19	SS46-2		
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
								464024	464015	464029	464030	464025	464013		
								0	0	0	0	0	0		
								0.5	0.5	0.5	0.5	0.5	0.5		
								36509	36508	36510	36510	36509	36508		
								SA	SA	SA	SA	SA	SA		
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI		
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)		
Volatile Organic Compounds															
Acetone	UG/KG	410	100%	50	27	30	30	72 J	210 J	240 J	340 J	220 J	380 J		
Benzene	UG/KG	12	23%	60	0	7	30	2 J	12 U	18 U	13 U	12 U	12 U		
Carbon disulfide	UG/KG	20	39%		0	12	31	11 J	12 U	18 UJ	13 UJ	20 J	12 U		
Ethyl benzene	UG/KG	1	3%	1000	0	1	29	12 UR	12 U	18 U	13 U	12 UJ	12 U		
Methyl ethyl ketone	UG/KG	48	77%	120	0	23	30	12 UJ	27	25 J	29 J	12 U	48		
Toluene	UG/KG	13	90%	700	0	28	31	9 J	8 J	4 J	4 J	4 J	4 J		
Total Xylenes	UG/KG	7	23%	260	0	7	30	12 UR	12 U	18 U	13 U	12 UJ	12 U		
Semivolatile Organic Compounds															
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	89 U	88 UJ	100 UJ	93 UJ	90 U	130 J		
4-Methylphenol	UG/KG	13	6%	330	0	2	31	89 U	88 UJ	100 UJ	93 UJ	90 U	13 J		
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	34 J	88 UJ	100 UJ	93 UJ	90 U	450 UJ		
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	30 J	7.9 J	6.7 J	6.5 J	5.9 J	450 UJ		
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	47 J	9 J	5.7 J	7.4 J	90 U	450 UJ		
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	17 J	88 UJ	100 UJ	93 UJ	90 U	450 UJ		
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	33 J	6.6 J	7.2 J	4.4 J	90 U	450 UJ		
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	160	28 J	100 UJ	93 UJ	90 U	450 UJ		
Chrysene	UG/KG	40	32%	1000	0	10	31	40 J	6.5 J	100 UJ	93 UJ	90 U	450 UJ		
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	100 UJ	93 UJ	90 U	450 UJ	110 U	100 U		
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	12 J	88 UJ	100 UJ	93 UJ	90 U	1100 J		
Diethyl phthalate	UG/KG	11	3%		0	1	31	89 U	88 UJ	100 UJ	93 UJ	90 U	450 UJ		
Fluoranthene	UG/KG	36	52%	100000	0	16	31	36 J	9.3 J	7.5 J	9.5 J	7.8 J	450 UJ		
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	89 U	88 UJ	100 UJ	93 UJ	90 U	450 UJ		
Hexachloroethane	UG/KG	9.9	3%		0	1	31	89 U	88 UJ	100 UJ	93 UJ	90 U	450 UJ		
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	19 J	88 UJ	100 UJ	93 UJ	90 U	450 UJ		
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	15 J	88 UJ	100 UJ	93 UJ	90 U	59 J		
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	3.5 J	88 UJ	100 UJ	93 UJ	90 U	450 UJ		
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	12 J	5.6 J	100 UJ	5.3 J	90 UJ	450 UJ		
Phenol	UG/KG	33	32%	330	0	10	31	89 U	88 UJ	17 J	6 J	90 U	450 UJ		
Pyrene	UG/KG	32	55%	100000	0	17	31	32 J	9.1 J	8.6 J	9 J	5 J	450 UJ		
B(a)P Toxicity Equivalents	UG/KG	242	65%	10000 (2)	0	20	31	91	64	63	242	75	NA		

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only

Munitions Response and CERCLA Closure
Seneca Army Depot Activity

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-15	SS46-16	SS46-17	SS46-18	SS46-19	SS46-2
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464024	464015	464029	464030	464025	464013
								0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5
								36509	36508	36510	36510	36509	36508
								SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pesticides and PCBs													
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	4.4 U	4.4 U	5.2 U	12	4.5 U	4.5 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	2 J	4.4 U	5.2 U	4.6 U	1.8 J	4.5 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2.3 U	1.5 J	2.6 U	2.4 U	2.3 U	2.3 U
Dieldrin	UG/KG	46	32%	40	2	10	31	4.4 U	4.4 U	5.2 U	28 J	4.3 J	4.5 U
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2.3 U	2.2 U	2.6 U	2.4 U	2.3 U	2.3 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	4.4 U	4.4 U	5.2 U	4.6 U	4.5 U	4.5 U
Endrin	UG/KG	5.1	10%	14	0	3	31	4.4 U	4.4 U	5.2 U	3.1 J	4.5 U	4.5 U
Endrin ketone	UG/KG	3.1	3%		0	1	31	4.4 U	4.4 U	5.2 U	4.6 U	4.5 U	4.5 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2.3 U	2.2 U	2.6 U	2.4 U	2.3 U	2.3 U
Metals and Cyanide													
Aluminum	MG/KG	16500	100%		0	31	31	9020	11100	14400	12600	13500	12000
Antimony	MG/KG	0.73	22%		0	4	18	0.73 UR	0.57 UJ	0.56 UR	0.51 J	0.72 UR	0.52 UJ
Arsenic	MG/KG	7.9	100%	13	0	31	31	2.9	4.1	4	5.7	5.1	4.8
Barium	MG/KG	152	100%	350	0	31	31	20.5 J	77.5	149	67.4	67.2	95
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	0.31 J	0.79 J	0.82 J	0.73 J	0.56 J	0.93 J
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.09 J	0.07 U	0.05 U	0.04 U	0.08 U	0.07 U
Calcium	MG/KG	69300	100%		0	31	31	18400 J	2610	7400 J	2520 J	6660 J	5740
Chromium	MG/KG	26.3	100%	30	0	31	31	16.9 J	16	13	14.1 J	26.3 J	19.9
Cobalt	MG/KG	20	100%		0	31	31	9.6 J	10.1 J	6.1 J	10.1 J	11.2 J	11 J
Copper	MG/KG	41.15	100%	50	0	31	31	37.8	16.5	21.4 J	20.1 J	29.1	24.2
Iron	MG/KG	39100	100%		0	31	31	20800 J	19500 J	19200 J	21200 J	25000 J	25000 J
Lead	MG/KG	73	100%	63	1	31	31	34.8	26.4 J	22.1	24.4	27.9	22.1 J
Magnesium	MG/KG	12800	100%		0	31	31	4910	2850	3880 J	3310 J	5210	4180
Manganese	MG/KG	1170	97%	1600	0	30	31	0.11 UJ	750	245 J	368 J	404 J	700
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.06 U	0.17 J	0.07 J	0.1 J	0.11 J	0.16 J
Nickel	MG/KG	47.4	100%	30	12	31	31	34.5 J	19.1	18.7 J	23 J	35.7 J	29.4
Potassium	MG/KG	1770	100%		0	31	31	1020 J	976 J	1260 J	1350	1510	1410
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.64 U	0.55 UJ	0.81 J	0.54 U	0.64 U	0.55 UJ
Silver	MG/KG	0.3175	3%	2	0	1	31	0.51 UJ	0.34 UJ	0.33 UJ	0.28 UJ	0.5 UJ	0.31 UJ
Sodium	MG/KG	272	45%		0	14	31	193 J	108 J	75.1 J	62.4 U	118 U	102 U
Thallium	MG/KG	3.7	97%		0	30	31	2 J	1.6 J	0.91 J	1.6 J	1.9 J	1.9 J
Vanadium	MG/KG	29.3	100%		0	31	31	12.5 J	19.6	23.3	21.7	22.2	22.4

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46		
								SS46-20	SS46-21	SS46-22	SS46-23	SS46-24	SS46-3		
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
								464022	464026	464031	464032	464033	464010		
								0	0	0	0	0	0		
								0.5	0.5	0.5	0.5	0.5	0.5		
								36509	36509	36510	36510	36510	36508		
								SA	SA	SA	SA	SA	SA		
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI		
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)		
Volatile Organic Compounds															
Acetone	UG/KG	410	100%	50	27	30	30	160 J	220 J	410 J	320 J	260 J	210 J		
Benzene	UG/KG	12	23%	60	0	7	30	14 U	14 U	13 U	13 U	12 U	12 U		
Carbon disulfide	UG/KG	20	39%		0	12	31	14 U	14 U	13 UJ	13 UJ	12 UJ	12 U		
Ethyl benzene	UG/KG	1	3%	1000	0	1	29	14 U	14 U	13 U	13 U	12 U	12 U		
Methyl ethyl ketone	UG/KG	48	77%	120	0	23	30	17	23	43 J	40 J	26 J	25		
Toluene	UG/KG	13	90%	700	0	28	31	5 J	2 J	10 J	5 J	6 J	7 J		
Total Xylenes	UG/KG	7	23%	260	0	7	30	14 U	14 U	13 U	13 U	12 U	12 U		
Semivolatile Organic Compounds															
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
4-Methylphenol	UG/KG	13	6%	330	0	2	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	110 U	100 U	4.3 J	98 UJ	6.3 J	93 UJ		
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	8.1 J	100 U	6.6 J	98 UJ	7.4 J	93 UJ		
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	6.1 J	100 U	5.5 J	98 UJ	8.8 J	93 UJ		
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	7.4 J	100 U	6.5 J	98 UJ	7.8 J	93 UJ		
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Chrysene	UG/KG	40	32%	1000	0	10	31	110 U	100 U	5.4 J	5.3 J	7 J	93 UJ		
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	94 UJ	98 UJ	90 UJ	93 UJ	87 UJ	90 UJ		
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	5.8 J	6.4 J	94 UJ	98 UJ	90 UJ	93 UJ		
Diethyl phthalate	UG/KG	11	3%		0	1	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Fluoranthene	UG/KG	36	52%	100000	0	16	31	10 J	100 U	9.8 J	7.9 J	6.2 J	93 UJ		
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Hexachloroethane	UG/KG	9.9	3%		0	1	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	110 U	100 U	94 UJ	98 UJ	90 UJ	93 UJ		
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	7.1 J	100 UJ	6.4 J	4.9 J	90 UJ	93 UJ		
Phenol	UG/KG	33	32%	330	0	10	31	110 U	100 U	4.9 J	16 J	9.9 J	93 UJ		
Pyrene	UG/KG	32	55%	100000	0	17	31	9.3 J	100 U	9.5 J	8.7 J	5.5 J	93 UJ		
B(a)P Toxicity Equivalents	UG/KG	242	65%	10000 (2)	0	20	31	67	NA	57	111	57	NA		

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-20	SS46-21	SS46-22	SS46-23	SS46-24	SS46-3
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464022	464026	464031	464032	464033	464010
								0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5
								36509	36509	36510	36510	36510	36508
								SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Zinc	MG/KG	115	100%	109	1	31	31	84.1 J	97.3 J	79.2 J	78 J	115 J	75.6
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	0.05	0.01 U	0.16	0.43	0.05	
Percent Solids	% WW	89.5	100%		0	31	31	61	63.6	70	67.1	73.3	70.7

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-4 SOIL	SS46-5 SOIL	SS46-6 SOIL	SS46-7 SOIL	SW/SD46-1 SEDIMENT	SW/SD46-2 SEDIMENT
Zinc	MG/KG	115	100%	109	1	31	31	71.8	70.9	89.2 J	71 J	64.6 J	71.2 J
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	2.1	0.63	0.23	0.7	0.09	0.09
Percent Solids	% WW	89.5	100%		0	31	31	75.5	73.3	65.4	75.7	81.8	67.9

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46
								SW/SD46-3	SW/SD46-4
								SEDIMENT	SEDIMENT
								463002	463003
								0	0
								0.2	0.2
								36511	36510
								SA	SA
								P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)
Volatile Organic Compounds									
Acetone	UG/KG	410	100%	50	27	30	30	27 J	160 J
Benzene	UG/KG	12	23%	60	0	7	30	14 UR	12 U
Carbon disulfide	UG/KG	20	39%		0	12	31	2 J	12 UJ
Ethyl benzene	UG/KG	1	3%	1000	0	1	29	14 UR	12 U
Methyl ethyl ketone	UG/KG	48	77%	120	0	23	30	14 UR	19 J
Toluene	UG/KG	13	90%	700	0	28	31	12 J	13
Total Xylenes	UG/KG	7	23%	260	0	7	30	3 J	12 U
Semivolatile Organic Compounds									
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	100 UJ	92 UJ
4-Methylphenol	UG/KG	13	6%	330	0	2	31	100 UJ	92 UJ
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	100 UJ	92 UJ
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	100 UJ	92 UJ
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	100 UJ	92 UJ
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	100 UJ	92 UJ
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	100 UJ	92 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	100 UJ	92 UJ
Chrysene	UG/KG	40	32%	1000	0	10	31	100 UJ	92 UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	91 UJ	
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	100 UJ	92 UJ
Diethyl phthalate	UG/KG	11	3%		0	1	31	100 UJ	92 UJ
Fluoranthene	UG/KG	36	52%	100000	0	16	31	100 UJ	92 UJ
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	100 UJ	92 UJ
Hexachloroethane	UG/KG	9.9	3%		0	1	31	100 UJ	92 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	100 UJ	92 UJ
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	100 UJ	92 UJ
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	100 UJ	92 UJ
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	100 UJ	92 UJ
Phenol	UG/KG	33	32%	330	0	10	31	8.9 J	33 J
Pyrene	UG/KG	32	55%	100000	0	17	31	100 UJ	92 UJ
B(a)P Toxicity Equivalents	UG/KG	242	65%	10000 (2)	0	20	31	NA	NA

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46
								SW/SD46-3	SW/SD46-4
								SEDIMENT	SEDIMENT
								463002	463003
								0	0
								0.2	0.2
								36511	36510
								SA	SA
							P1S1 RI	P1S1 RI	
Value (Q)	Value (Q)								
Pesticides and PCBs									
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	5.1 U	4.5 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	5.1 U	4.5 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2.6 U	2.3 U
Dieldrin	UG/KG	46	32%	40	2	10	31	5.1 U	4.5 U
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2.6 U	2.3 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	5.1 U	4.5 U
Endrin	UG/KG	5.1	10%	14	0	3	31	5.1 U	4.5 U
Endrin ketone	UG/KG	3.1	3%		0	1	31	5.1 U	4.5 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2.6 U	2.3 U
Metals and Cyanide									
Aluminum	MG/KG	16500	100%		0	31	31	16500	16000
Antimony	MG/KG	0.73	22%		0	4	18	0.66 J	0.57 UR
Arsenic	MG/KG	7.9	100%	13	0	31	31	7.2	6.2
Barium	MG/KG	152	100%	350	0	31	31	127	84.7
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	1.2	1.1 J
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.04 U	0.05 U
Calcium	MG/KG	69300	100%		0	31	31	69300 J	2640 J
Chromium	MG/KG	26.3	100%	30	0	31	31	23.1 J	22.6 J
Cobalt	MG/KG	20	100%		0	31	31	20	13.9
Copper	MG/KG	41.15	100%	50	0	31	31	32.5 J	29.9
Iron	MG/KG	39100	100%		0	31	31	39100 J	30100 J
Lead	MG/KG	73	100%	63	1	31	31	22	20.2
Magnesium	MG/KG	12800	100%		0	31	31	8910 J	4680
Manganese	MG/KG	1170	97%	1600	0	30	31	756 J	537 J
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.08 U	0.07 J
Nickel	MG/KG	47.4	100%	30	12	31	31	47.4 J	38.2 J
Potassium	MG/KG	1770	100%		0	31	31	1260	1120 J
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.55 U	0.65 U
Silver	MG/KG	0.3175	3%	2	0	1	31	0.29 UJ	0.34 UJ
Sodium	MG/KG	272	45%		0	14	31	66.8 J	75 U
Thallium	MG/KG	3.7	97%		0	30	31	3.7	1.6 J
Vanadium	MG/KG	29.3	100%		0	31	31	27.1	26.4

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.
(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6A
SEAD-46 Summary Soil Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Collected	SEAD-46	SEAD-46
								SW/SD46-3	SW/SD46-4
								SEDIMENT	SEDIMENT
								463002	463003
								0	0
								0.2	0.2
								36511	36510
								SA	SA
								P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)
Zinc	MG/KG	115	100%	109	1	31	31	82.5 J	76.3 J
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	0.06	0.03
Percent Solids	% WW	89.5	100%		0	31	31	64.9	72.7

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6 NYCRR Part 375-6.

(2) - NYSDEC's Division of Environmental Remediation's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-1	BE46-2	BE46-3	BE46-4	BE46-5	BE46-6
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464001	464002	464003	464004	464005	464006
							1.8	1.8	1.8	1.8	1.8	1.8	1.8
							2.2	2.2	2.2	2.2	2.2	2.2	2.2
							36507	36507	36507	36507	36507	36507	36508
							SA	SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
1,2-Dichloroethene (total)	UG/KG	0	0%	19	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Acetone	UG/KG	410	100%	50	27	30	30	200 J	110 J	200 J	150 J	160 J	32 J
Benzene	UG/KG	12	23%	60	0	7	31	1 J	10 U	1 J	9 U	9 U	12
Bromodichloromethane	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Bromoform	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Carbon disulfide	UG/KG	20	39%		0	12	31	6 J	10 U	10	9 U	3 J	8 J
Carbon tetrachloride	UG/KG	0	0%	760	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Chlorodibromomethane	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Chloroethane	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Chloroform	UG/KG	0	0%	370	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Ethyl benzene	UG/KG	1	3%	1000	0	1	31	11 U	10 U	10 U	9 U	9 U	1 J
Methyl bromide	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Methyl butyl ketone	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Methyl chloride	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Methyl ethyl ketone	UG/KG	48	74%	120	0	23	31	11 U	9 J	10 U	15	12	9 U
Methyl isobutyl ketone	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Methylene chloride	UG/KG	0	0%	50	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Styrene	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Toluene	UG/KG	13	90%	700	0	28	31	2 J	10 U	2 J	9 U	9 U	12
Total Xylenes	UG/KG	7	23%	260	0	7	31	1 J	10 U	1 J	9 U	9 U	7 J
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Trichloroethene	UG/KG	0	0%	470	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U
Vinyl chloride	UG/KG	0	0%	20	0	0	31	11 U	10 U	10 U	9 U	9 U	9 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-1	BE46-2	BE46-3	BE46-4	BE46-5	BE46-6
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464001	464002	464003	464004	464005	464006
								1.8	1.8	1.8	1.8	1.8	1.8
								2.2	2.2	2.2	2.2	2.2	2.2
								36507	36507	36507	36507	36507	36507
								SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Semivolatile Organic Compounds													
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	31	190 UJ	190 UJ	200 UJ	190 UJ	190 UJ	180 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2,4-Dichlorophenol	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2,4-Dimethylphenol	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2,4-Dinitrophenol	UG/KG	0	0%		0	0	31	190 UR	190 UJ	200 UJ	190 UJ	190 UR	180 UJ
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2-Chloronaphthalene	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2-Chlorophenol	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2-Methylnaphthalene	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2-Methylphenol	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
2-Nitroaniline	UG/KG	0	0%		0	0	31	190 UJ	190 UJ	200 UJ	190 UJ	190 UJ	180 UJ
2-Nitrophenol	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
3-Nitroaniline	UG/KG	0	0%		0	0	31	190 UJ	190 UJ	200 UJ	190 UJ	190 UJ	180 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	31	190 UJ	190 UJ	200 UJ	190 UJ	190 UJ	180 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
4-Chloroaniline	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
4-Methylphenol	UG/KG	13	6%	330	0	2	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
4-Nitroaniline	UG/KG	0	0%		0	0	31	190 UJ	190 UJ	200 UJ	190 UJ	190 UJ	180 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	31	190 UR	190 UJ	200 UJ	190 UJ	190 UR	180 UR
Acenaphthene	UG/KG	0	0%	20000	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Anthracene	UG/KG	0	0%	100000	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	77 UJ	12 J	81 UJ	78 UJ	77 UJ	19 J
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	77 UJ	12 J	81 UJ	78 UJ	77 UJ	19 J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	77 UJ	52 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Butylbenzylphthalate	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Carbazole	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-1 SOIL 464001	BE46-2 SOIL 464002	BE46-3 SOIL 464003	BE46-4 SOIL 464004	BE46-5 SOIL 464005	BE46-6 SOIL 464006
Chrysene	UG/KG	40	32%	1000	0	10	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Di-n-octylphthalate	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Diethyl phthalate	UG/KG	11	3%		0	1	31	77 UJ	3.6 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Dimethylphthalate	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Fluoranthene	UG/KG	36	52%	100000	0	16	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Fluorene	UG/KG	0	0%	30000	0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Hexachlorobutadiene	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Hexachloroethane	UG/KG	9.9	3%		0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Isophorone	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Nitrobenzene	UG/KG	0	0%		0	0	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	31	190 UJ	190 UJ	200 UJ	190 UJ	190 UJ	180 UJ
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	5.8 J
Phenol	UG/KG	33	32%	330	0	10	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Pyrene	UG/KG	32	55%	100000	0	17	31	77 UJ	78 UJ	81 UJ	78 UJ	77 UJ	76 UJ
Explosives													
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-1	BE46-2	BE46-3	BE46-4	BE46-5	BE46-6
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464001	464002	464003	464004	464005	464006
								1.8	1.8	1.8	1.8	1.8	1.8
								2.2	2.2	2.2	2.2	2.2	2.2
								36507	36507	36507	36507	36507	36507
								SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pesticides and PCBs													
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Aldrin	UG/KG	0	0%	5	0	0	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Alpha-BHC	UG/KG	0	0%	20	0	0	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Aroclor-1016	UG/KG	0	0%	100	0	0	31	38 U	39 U	41 U	39 U	38 U	38 U
Aroclor-1221	UG/KG	0	0%	100	0	0	31	78 U	80 U	83 U	80 U	78 U	76 U
Aroclor-1232	UG/KG	0	0%	100	0	0	31	38 U	39 U	41 U	39 U	38 U	38 U
Aroclor-1242	UG/KG	0	0%	100	0	0	31	38 U	39 U	41 U	39 U	38 U	38 U
Aroclor-1248	UG/KG	0	0%	100	0	0	31	38 U	39 U	41 U	39 U	38 U	38 U
Aroclor-1254	UG/KG	0	0%	100	0	0	31	38 U	39 U	41 U	39 U	38 U	38 U
Aroclor-1260	UG/KG	0	0%	100	0	0	31	38 U	39 U	41 U	39 U	38 U	38 U
Beta-BHC	UG/KG	0	0%	36	0	0	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Delta-BHC	UG/KG	0	0%		0	0	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Dieldrin	UG/KG	46	32%	40	2	10	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endrin	UG/KG	5.1	10%	14	0	3	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endrin aldehyde	UG/KG	0	0%		0	0	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Endrin ketone	UG/KG	3.1	3%		0	1	31	3.8 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Heptachlor	UG/KG	0	0%	42	0	0	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Heptachlor epoxide	UG/KG	0	0%		0	0	31	2 U	2 U	2.1 U	2 U	2 U	1.9 U
Methoxychlor	UG/KG	0	0%		0	0	31	20 U	20 U	21 U	20 U	20 U	19 U
Toxaphene	UG/KG	0	0%		0	0	31	200 U	200 U	210 U	200 U	200 U	190 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-7	BE46-8	SS46-1	SS46-11	SS46-15	SS46-16	SS46-17
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464007	464000	464023	464014	464024	464015	464029
								1.8	1.8	0	0	0	0	0
								2.2	2.2	0.5	0.5	0.5	0.5	0.5
								36508	36508	36509	36508	36509	36508	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UR	12 U	18 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
1,1-Dichloroethane	UG/KG	0	0%	330	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
1,2-Dichloroethane (total)	UG/KG	0	0%	19	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Acetone	UG/KG	410	100%	50	27	30	30	48 J		140 J	300 J	72 J	210 J	240 J
Benzene	UG/KG	12	23%	60	0	7	31	1 J	2 J	14 U	11 U	2 J	12 U	18 U
Bromodichloromethane	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Bromoform	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UR	12 U	18 U
Carbon disulfide	UG/KG	20	39%		0	12	31	6 J	2 J	14 U	11 U	11 J	12 U	18 UJ
Carbon tetrachloride	UG/KG	0	0%	760	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	31	9 U	10 U	14 U	11 U	12 UR	12 U	18 U
Chlorodibromomethane	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Chloroethane	UG/KG	0	0%		0	0	31	9 U	10 U	14 UJ	11 U	12 UJ	12 U	18 UJ
Chloroform	UG/KG	0	0%	370	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Ethyl benzene	UG/KG	1	3%	1000	0	1	31	9 U	10 U	14 U	11 U	12 UR	12 U	18 U
Methyl bromide	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Methyl butyl ketone	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Methyl chloride	UG/KG	0	0%		0	0	31	9 UJ	10 UJ	14 UJ	11 UJ	12 UJ	12 UJ	18 UJ
Methyl ethyl ketone	UG/KG	48	74%	120	0	23	31	9 U	10 U	16	28	12 UJ	27	25 J
Methyl isobutyl ketone	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Methylene chloride	UG/KG	0	0%	50	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 UJ
Styrene	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UR	12 U	18 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Toluene	UG/KG	13	90%	700	0	28	31	4 J	3 J	4 J	6 J	9 J	8 J	4 J
Total Xylenes	UG/KG	7	23%	260	0	7	31	2 J	2 J	14 U	11 U	12 UR	12 U	18 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Trichloroethene	UG/KG	0	0%	470	0	0	31	9 U	10 U	14 U	11 U	12 UJ	12 U	18 U
Vinyl chloride	UG/KG	0	0%	20	0	0	31	9 U	10 U	14 UJ	11 U	12 UJ	12 U	18 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-7	BE46-8	SS46-1	SS46-11	SS46-15	SS46-16	SS46-17
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464007	464000	464023	464014	464024	464015	464029
								1.8	1.8	0	0	0	0	0
								2.2	2.2	0.5	0.5	0.5	0.5	0.5
								36508	36508	36509	36508	36509	36508	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Semivolatile Organic Compounds														
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	31	78 UJ	74 UJ	110 UJ	130 UJ	89 UJ	88 UJ	100 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	31	78 UJ	74 UJ	110 UJ	130 UJ	89 UJ	88 UJ	100 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	31	78 UJ	74 UJ	110 UJ	130 UJ	89 UJ	88 UJ	100 UJ
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	31	190 UJ	180 UJ	270 U	320 UJ	220 U	210 UJ	250 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
2,4-Dichlorophenol	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
2,4-Dimethylphenol	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
2,4-Dinitrophenol	UG/KG	0	0%		0	0	31	190 UR	180 UR	270 UR	320 UR	220 UR	210 UJ	250 UR
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
2-Chloronaphthalene	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 UJ	130 UJ	89 UJ	88 UJ	100 UJ
2-Chlorophenol	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
2-Methylnaphthalene	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
2-Methylphenol	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 UJ	130 UJ	89 UJ	88 UJ	100 UJ
2-Nitroaniline	UG/KG	0	0%		0	0	31	190 UJ	180 UJ	270 U	320 UJ	220 U	210 UJ	250 UJ
2-Nitrophenol	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
3-Nitroaniline	UG/KG	0	0%		0	0	31	190 UJ	180 UJ	270 U	320 UJ	220 U	210 UJ	250 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	31	190 UJ	180 UJ	270 U	320 UJ	220 U	210 UJ	250 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 UJ	130 UJ	89 UJ	88 UJ	100 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
4-Chloroaniline	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
4-Methylphenol	UG/KG	13	6%	330	0	2	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
4-Nitroaniline	UG/KG	0	0%		0	0	31	190 UJ	180 U	270 U	320 UJ	220 U	210 UJ	250 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	31	190 UJ	180 UR	270 UR	320 UJ	220 UR	210 UJ	250 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Anthracene	UG/KG	0	0%	100000	0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	78 UJ	74 UJ	110 U	5.1 J	34 J	88 UJ	100 UJ
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	78 UJ	19 UJ	8.1 J	7.1 J	30 J	7.9 J	6.7 J
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	78 UJ	74 UJ	110 U	7 J	47 J	9 J	5.7 J
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	78 UJ	74 UJ	110 U	130 UJ	17 J	88 UJ	100 UJ
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	78 UJ	74 UJ	110 U	6.1 J	33 J	6.6 J	7.2 J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	78 UJ	74 UJ	110 U	780 J	160	28 J	100 UJ
Butylbenzylphthalate	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Carbazole	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-7	BE46-8	SS46-1	SS46-11	SS46-15	SS46-16	SS46-17
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464007	464000	464023	464014	464024	464015	464029
								1.8	1.8	0	0	0	0	0
								2.2	2.2	0.5	0.5	0.5	0.5	0.5
								36508	36508	36509	36508	36509	36508	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Chrysene	UG/KG	40	32%	1000	0	10	31	78 UJ	74 UJ	110 U	5.9 J	40 J	6.5 J	100 UJ
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	78 UJ	74 UJ	110 U	130 UJ	12 J	88 UJ	100 UJ
Di-n-octylphthalate	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Diethyl phthalate	UG/KG	11	3%		0	1	31	78 UJ	74 UJ	110 U	11 J	89 U	88 UJ	100 UJ
Dimethylphthalate	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Fluoranthene	UG/KG	36	52%	100000	0	16	31	78 UJ	74 UJ	9.4 J	10 J	36 J	9.3 J	7.5 J
Fluorene	UG/KG	0	0%	30000	0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	78 UJ	11 J	110 U	130 UJ	89 U	88 UJ	100 UJ
Hexachlorobutadiene	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 UJ	130 UJ	89 UJ	88 UJ	100 UJ
Hexachloroethane	UG/KG	9.9	3%		0	1	31	78 UJ	9.9 J	110 U	130 UJ	89 U	88 UJ	100 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	78 UJ	12 J	110 U	130 UJ	19 J	88 UJ	100 UJ
Isophorone	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	78 UJ	74 UJ	110 U	130 UJ	15 J	88 UJ	100 UJ
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	78 UJ	74 UJ	110 U	130 UJ	3.5 J	88 UJ	100 UJ
Nitrobenzene	UG/KG	0	0%		0	0	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	100 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	31	190 UJ	180 UJ	270 U	320 UJ	220 U	210 UJ	250 UJ
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	78 UJ	74 UJ	4.9 J	5.2 J	12 J	5.6 J	100 UJ
Phenol	UG/KG	33	32%	330	0	10	31	78 UJ	74 UJ	110 U	130 UJ	89 U	88 UJ	17 J
Pyrene	UG/KG	32	55%	100000	0	17	31	78 UJ	14 J	6.2 J	6.1 J	32 J	9.1 J	8.6 J
Explosives														
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 UJ
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								BE46-7	BE46-8	SS46-1	SS46-11	SS46-15	SS46-16	SS46-17
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464007	464000	464023	464014	464024	464015	464029
								1.8	1.8	0	0	0	0	0
								2.2	2.2	0.5	0.5	0.5	0.5	0.5
								36508	36508	36509	36508	36509	36508	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pesticides and PCBs														
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.4 U	4.4 U	5.2 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	3.9 U	3.7 U	5.6 U	4.3 UJ	2 J	4.4 U	5.2 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.4 U	4.4 U	5.2 U
Aldrin	UG/KG	0	0%	5	0	0	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Alpha-BHC	UG/KG	0	0%	20	0	0	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2 U	1.9 U	3.5	1.3 UJ	2.3 U	1.5 J	2.6 U
Aroclor-1016	UG/KG	0	0%	100	0	0	31	39 U	37 U	56 U	43 UJ	44 U	44 U	52 U
Aroclor-1221	UG/KG	0	0%	100	0	0	31	78 U	75 U	110 U	88 UJ	90 U	88 U	100 U
Aroclor-1232	UG/KG	0	0%	100	0	0	31	39 U	37 U	56 U	43 UJ	44 U	44 U	52 U
Aroclor-1242	UG/KG	0	0%	100	0	0	31	39 U	37 U	56 U	43 UJ	44 U	44 U	52 U
Aroclor-1248	UG/KG	0	0%	100	0	0	31	39 U	37 U	56 U	43 UJ	44 U	44 U	52 U
Aroclor-1254	UG/KG	0	0%	100	0	0	31	39 U	37 U	56 U	43 UJ	44 U	44 U	52 U
Aroclor-1260	UG/KG	0	0%	100	0	0	31	39 U	37 U	56 U	43 UJ	44 U	44 U	52 U
Beta-BHC	UG/KG	0	0%	36	0	0	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Delta-BHC	UG/KG	0	0%	0	0	0	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Dieldrin	UG/KG	46	32%	40	2	10	31	3.9 U	3.7 U	3 J	4.6 J	4.4 U	4.4 U	5.2 U
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.4 U	4.4 U	5.2 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.4 U	4.4 U	5.2 U
Endrin	UG/KG	5.1	10%	14	0	3	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.4 U	4.4 U	5.2 U
Endrin aldehyde	UG/KG	0	0%	0	0	0	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.4 U	4.4 U	5.2 U
Endrin ketone	UG/KG	3.1	3%	0	0	1	31	3.9 U	3.7 U	5.6 U	4.3 UJ	4.4 U	4.4 U	5.2 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Heptachlor	UG/KG	0	0%	42	0	0	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Heptachlor epoxide	UG/KG	0	0%	0	0	0	31	2 U	1.9 U	2.9 U	2.2 UJ	2.3 U	2.2 U	2.6 U
Methoxychlor	UG/KG	0	0%	0	0	0	31	20 U	19 U	29 U	22 UJ	23 U	22 U	26 U
Toxaphene	UG/KG	0	0%	0	0	0	31	200 U	190 U	290 U	220 UJ	230 U	220 U	260 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46					
								BE46-7	BE46-8	SS46-1	SS46-11	SS46-15	SS46-16	SS46-17					
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL					
								464007	464000	464023	464014	464024	464015	464029					
								1.8	1.8	0	0	0	0						
								2.2	2.2	0.5	0.5	0.5	0.5						
								36508	36508	36509	36508	36509	36508						
								SA	SA	SA	SA	SA	SA						
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI						
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)						
Metals																			
Aluminum	MG/KG	16500	100%		0	31	31	12700	8890	13000	13900	9020	11100	14400					
Antimony	MG/KG	0.73	13%		0	4	31	0.51 UJ	0.48 UJ	0.82 UR	0.53 UJ	0.73 UR	0.57 UJ	0.56 UR					
Arsenic	MG/KG	7.9	100%	13	0	31	31	4.3	3.8	4.4	6.1	2.9	4.1	4					
Barium	MG/KG	152	100%	350	0	31	31	88.2	62.7	67.8	96.6	20.5 J	77.5	149					
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	0.9 J	0.62 J	0.48 J	1.1 J	0.31 J	0.79 J	0.82 J					
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.05 U	0.07 U	0.09 U	0.07 U	0.09 J	0.07 U	0.05 U					
Calcium	MG/KG	69300	100%		0	31	31	38000	38300	3300 J	4060	18400 J	2610	7400 J					
Chromium	MG/KG	26.3	100%	30	0	31	31	19.1	15.6	16 J	22.7	16.9 J	16	13					
Cobalt	MG/KG	20	100%		0	31	31	13.6	6.8 J	6.6 J	12.3	9.6 J	10.1 J	6.1 J					
Copper	MG/KG	41.15	100%	50	0	31	31	26.1	17.9	14.2	30.3	37.8	16.5	21.4 J					
Cyanide	MG/KG	0	0%	27	0	0	31	0.59 U	0.55 U	0.8 U	0.65 U	0.59 U	0.65 U	0.75 U					
Iron	MG/KG	39100	100%		0	31	31	26700	17900	19600 J	28600 J	20800 J	19500 J	19200 J					
Lead	MG/KG	73	100%	63	1	31	31	55.5 J	10.7 J	20.2	31.6 J	34.8	26.4 J	22.1					
Magnesium	MG/KG	12800	100%		0	31	31	9080	11600	3250	4490	4910	2850	3880 J					
Manganese	MG/KG	1170	97%	1600	0	30	31	677	384	307 J	672	0.11 UJ	750	245 J					
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.09 J	0.09 J	0.07 J	0.12 J	0.06 U	0.17 J	0.07 J					
Nickel	MG/KG	47.4	100%	30	12	31	31	35.3	20.6	18 J	35.7	34.5 J	19.1	18.7 J					
Potassium	MG/KG	1770	100%		0	31	31	980	950 J	1370 J	1310	1020 J	976 J	1260 J					
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.43 UJ	0.54 UJ	0.73 U	0.55 UJ	0.64 U	0.55 UJ	0.81 J					
Silver	MG/KG	0.3175	3%	2	0	1	31	0.3 UJ	0.28 UJ	0.58 UJ	0.31 UJ	0.51 UJ	0.34 UJ	0.33 UJ					
Sodium	MG/KG	272	45%		0	14	31	162 J	136 J	135 U	127 J	193 J	108 J	75.1 J					
Thallium	MG/KG	3.7	97%		0	30	31	1.3 J	1.4 J	0.82 U	2 J	2 J	1.6 J	0.91 J					
Vanadium	MG/KG	29.3	100%		0	31	31	21.9	17.4	23.1	25.4	12.5 J	19.6	23.3					
Zinc	MG/KG	115	100%	109	1	31	31	66.7	56.5	62.6 J	83.2	65.7 J	58	69.1 J					
Other Analytes																			
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	2.2	1.5	0.02		0.04		0.94					
Percent Solids	% WW	89.5	100%		0	31	31	84.9	89.5	58.9	75.8	73.7	75.3	63.7					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-18	SS46-19	SS46-2	SS46-20	SS46-21	SS46-22	SS46-23
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464030	464025	464013	464022	464026	464031	464032
								0	0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5	0.5
								36510	36509	36508	36509	36509	36510	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	31	13 U	12 UJ	12 U	14 U	14 U	13 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%	19	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Acetone	UG/KG	410	100%	50	27	30	30	340 J	220 J	380 J	160 J	220 J	410 J	320 J
Benzene	UG/KG	12	23%	60	0	7	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Bromodichloromethane	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Bromoform	UG/KG	0	0%		0	0	31	13 U	12 UJ	12 U	14 U	14 U	13 U	13 U
Carbon disulfide	UG/KG	20	39%		0	12	31	13 UJ	20 J	12 U	14 U	14 U	13 UJ	13 UJ
Carbon tetrachloride	UG/KG	0	0%	760	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	31	13 U	12 UJ	12 U	14 U	14 U	13 U	13 U
Chlorodibromomethane	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Chloroethane	UG/KG	0	0%		0	0	31	13 UJ	12 UJ	12 U	14 U	14 UJ	13 UJ	13 UJ
Chloroform	UG/KG	0	0%	370	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Ethyl benzene	UG/KG	1	3%	1000	0	1	31	13 U	12 UJ	12 U	14 U	14 U	13 U	13 U
Methyl bromide	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Methyl butyl ketone	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Methyl chloride	UG/KG	0	0%		0	0	31	13 UJ	12 UJ	12 UJ	14 UJ	14 UJ	13 UJ	13 UJ
Methyl ethyl ketone	UG/KG	48	74%	120	0	23	31	29 J	12 U	48	17	23	43 J	40 J
Methyl isobutyl ketone	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Methylene chloride	UG/KG	0	0%	50	0	0	31	13 UJ	12 U	12 U	14 U	14 U	13 UJ	13 UJ
Styrene	UG/KG	0	0%		0	0	31	13 U	12 UJ	12 U	14 U	14 U	13 U	13 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Toluene	UG/KG	13	90%	700	0	28	31	4 J	4 J	4 J	5 J	2 J	10 J	5 J
Total Xylenes	UG/KG	7	23%	260	0	7	31	13 U	12 UJ	12 U	14 U	14 U	13 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Trichloroethene	UG/KG	0	0%	470	0	0	31	13 U	12 U	12 U	14 U	14 U	13 U	13 U
Vinyl chloride	UG/KG	0	0%	20	0	0	31	13 UJ	12 UJ	12 U	14 U	14 UJ	13 UJ	13 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-18	SS46-19	SS46-2	SS46-20	SS46-21	SS46-22	SS46-23
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464030	464025	464013	464022	464026	464031	464032
								0	0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5	0.5
								36510	36509	36508	36509	36509	36510	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Semivolatile Organic Compounds														
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	31	93 UJ	90 UJ	450 UJ	110 UJ	100 UJ	94 UJ	98 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	31	93 UJ	90 UJ	450 UJ	110 UJ	100 UJ	94 UJ	98 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	31	93 UJ	90 UJ	450 UJ	110 UJ	100 UJ	94 UJ	98 UJ
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	31	220 UJ	220 U	1100 UJ	260 U	250 U	230 UJ	240 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
2,4-Dichlorophenol	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
2,4-Dimethylphenol	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
2,4-Dinitrophenol	UG/KG	0	0%		0	0	31	220 UR	220 UR	1100 UR	260 UR	250 UR	230 UR	240 UR
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	93 UJ	90 U	2900 UJ	110 U	100 U	94 UJ	98 UJ
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	93 UJ	90 U	130 J	110 U	100 U	94 UJ	98 UJ
2-Chloronaphthalene	UG/KG	0	0%		0	0	31	93 UJ	90 UJ	450 UJ	110 UJ	100 UJ	94 UJ	98 UJ
2-Chlorophenol	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
2-Methylnaphthalene	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
2-Methylphenol	UG/KG	0	0%		0	0	31	93 UJ	90 UJ	450 UJ	110 UJ	100 UJ	94 UJ	98 UJ
2-Nitroaniline	UG/KG	0	0%		0	0	31	220 UJ	220 U	1100 UJ	260 U	250 U	230 UJ	240 UJ
2-Nitrophenol	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
3-Nitroaniline	UG/KG	0	0%		0	0	31	220 UJ	220 U	1100 UJ	260 U	250 U	230 UJ	240 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	31	220 UJ	220 U	1100 UJ	260 U	250 U	230 UJ	240 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	31	93 UJ	90 UJ	450 UJ	110 UJ	100 UJ	94 UJ	98 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
4-Chloroaniline	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
4-Methylphenol	UG/KG	13	6%	330	0	2	31	93 UJ	90 U	13 J	110 U	100 U	94 UJ	98 UJ
4-Nitroaniline	UG/KG	0	0%		0	0	31	220 UJ	220 U	1100 UJ	260 U	250 U	230 UJ	240 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	31	220 UJ	220 UR	1100 UJ	260 UR	250 UR	230 UJ	240 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Anthracene	UG/KG	0	0%	100000	0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	93 UJ	90 U	450 UJ	110 U	100 U	4.3 J	98 UJ
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	6.5 J	5.9 J	450 UJ	8.1 J	100 U	6.6 J	98 UJ
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	7.4 J	90 U	450 UJ	6.1 J	100 U	5.5 J	98 UJ
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	4.4 J	90 U	450 UJ	7.4 J	100 U	6.5 J	98 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Butylbenzylphthalate	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Carbazole	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-18	SS46-19	SS46-2	SS46-20	SS46-21	SS46-22	SS46-23
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464030	464025	464013	464022	464026	464031	464032
								0	0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5	0.5
								36510	36509	36508	36509	36509	36510	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Chrysene	UG/KG	40	32%	1000	0	10	31	93 UJ	90 U	450 UJ	110 U	100 U	5.4 J	5.3 J
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	93 UJ	90 U	1100 J	5.8 J	6.4 J	94 UJ	98 UJ
Di-n-octylphthalate	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Diethyl phthalate	UG/KG	11	3%		0	1	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Dimethylphthalate	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Fluoranthene	UG/KG	36	52%	100000	0	16	31	9.5 J	7.8 J	450 UJ	10 J	100 U	9.8 J	7.9 J
Fluorene	UG/KG	0	0%	30000	0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Hexachlorobutadiene	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	31	93 UJ	90 UJ	450 UJ	110 UJ	100 UJ	94 UJ	98 UJ
Hexachloroethane	UG/KG	9.9	3%		0	1	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Isophorone	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	93 UJ	90 U	59 J	110 U	100 U	94 UJ	98 UJ
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Nitrobenzene	UG/KG	0	0%		0	0	31	93 UJ	90 U	450 UJ	110 U	100 U	94 UJ	98 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	31	220 UJ	220 U	1100 UJ	260 U	250 U	230 UJ	240 UJ
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	5.3 J	90 UJ	450 UJ	7.1 J	100 UJ	6.4 J	4.9 J
Phenol	UG/KG	33	32%	330	0	10	31	6 J	90 U	450 UJ	110 U	100 U	4.9 J	16 J
Pyrene	UG/KG	32	55%	100000	0	17	31	9 J	5 J	450 UJ	9.3 J	100 U	9.5 J	8.7 J
Explosives														
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%		0	0	31	120 UJ	120 U	120 U	120 UJ	120 U	120 UJ	120 UJ
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
HMX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
RDX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
Tetryl	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 UJ	120 U	120 U	120 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-18	SS46-19	SS46-2	SS46-20	SS46-21	SS46-22	SS46-23
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464030	464025	464013	464022	464026	464031	464032
								0	0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5	0.5
								36510	36509	36508	36509	36509	36510	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pesticides and PCBs														
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	12	4.5 U	4.5 U	5.4 U	5.2 U	4.7 U	4.9 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31		4.6 U	4.5 U	5.4 U	5.2 U	4.7 U	4.9 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	31		4.6 U	4.5 U	5.4 U	5.2 U	4.7 U	4.9 U
Aldrin	UG/KG	0	0%	5	0	0	31		2.4 U	2.3 U	2.8 U	2.6 U	2.4 U	2.5 U
Alpha-BHC	UG/KG	0	0%	20	0	0	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Aroclor-1016	UG/KG	0	0%	100	0	0	31		46 U	45 U	45 U	54 U	52 U	47 U
Aroclor-1221	UG/KG	0	0%	100	0	0	31		94 U	92 U	91 U	110 U	100 U	96 U
Aroclor-1232	UG/KG	0	0%	100	0	0	31		46 U	45 U	45 U	54 U	52 U	47 U
Aroclor-1242	UG/KG	0	0%	100	0	0	31		46 U	45 U	45 U	54 U	52 U	47 U
Aroclor-1248	UG/KG	0	0%	100	0	0	31		46 U	45 U	45 U	54 U	52 U	47 U
Aroclor-1254	UG/KG	0	0%	100	0	0	31		46 U	45 U	45 U	54 U	52 U	47 U
Aroclor-1260	UG/KG	0	0%	100	0	0	31		46 U	45 U	45 U	54 U	52 U	47 U
Beta-BHC	UG/KG	0	0%	36	0	0	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Delta-BHC	UG/KG	0	0%		0	0	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Dieldrin	UG/KG	46	32%	40	2	10	31		28 J	4.3 J	4.5 U	5.4 U	5.2 U	16 J
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31		4.6 U	4.5 U	4.5 U	5.4 U	5.2 U	4.7 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	31		4.6 U	4.5 U	4.5 U	5.4 U	5.2 U	4.7 U
Endrin	UG/KG	5.1	10%	14	0	3	31		3.1 J	4.5 U	4.5 U	5.4 U	5.2 U	4.7 U
Endrin aldehyde	UG/KG	0	0%		0	0	31		4.6 U	4.5 U	4.5 U	5.4 U	5.2 U	4.7 U
Endrin ketone	UG/KG	3.1	3%		0	1	31		4.6 U	4.5 U	4.5 U	5.4 U	5.2 U	4.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31		2.4 U	2.3 U	2.3 U	2.8 U	1.9 J	2.4 U
Heptachlor	UG/KG	0	0%	42	0	0	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Heptachlor epoxide	UG/KG	0	0%		0	0	31		2.4 U	2.3 U	2.3 U	2.8 U	2.6 U	2.4 U
Methoxychlor	UG/KG	0	0%		0	0	31		24 U	23 U	23 U	28 U	26 U	24 U
Toxaphene	UG/KG	0	0%		0	0	31		240 U	230 U	230 U	280 U	260 U	240 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-18	SS46-19	SS46-2	SS46-20	SS46-21	SS46-22	SS46-23
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
								464030	464025	464013	464022	464026	464031	464032
								0	0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5	0.5
								36510	36509	36508	36509	36509	36510	36510
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Metals														
Aluminum	MG/KG	16500	100%		0	31	31	12600	13500	12000	14400	15300	14100	12900
Antimony	MG/KG	0.73	13%		0	4	31	0.51 J	0.72 UR	0.52 UJ	0.85 UR	0.8 UR	0.52 UR	0.48 UR
Arsenic	MG/KG	7.9	100%	13	0	31	31	5.7	5.1	4.8	5.2	7.9	5.6	5.5
Barium	MG/KG	152	100%	350	0	31	31	67.4	67.2	95	93.9	134	139	119
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	0.73 J	0.56 J	0.93 J	0.51 J	0.58 J	1 J	0.95 J
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.04 U	0.08 U	0.07 U	0.09 U	0.09 U	0.05 U	0.04 U
Calcium	MG/KG	69300	100%		0	31	31	2520 J	6660 J	5740	4390 J	6480 J	4110 J	4330 J
Chromium	MG/KG	26.3	100%	30	0	31	31	14.1 J	26.3 J	19.9	19 J	20.9 J	15.5 J	12.2 J
Cobalt	MG/KG	20	100%		0	31	31	10.1 J	11.2 J	11 J	11 J	13.5 J	9.3 J	9 J
Copper	MG/KG	41.15	100%	50	0	31	31	20.1 J	29.1	24.2	20.3	30.6	22 J	21.8 J
Cyanide	MG/KG	0	0%	27	0	0	31	0.68 U	0.65 U	0.62 U	0.69 U	0.76 U	0.71 U	0.75 U
Iron	MG/KG	39100	100%		0	31	31	21200 J	25000 J	25000 J	24300 J	30800 J	24200 J	23400 J
Lead	MG/KG	73	100%	63	1	31	31	24.4	27.9	22.1 J	26.8	28.1	21.7	23.9
Magnesium	MG/KG	12800	100%		0	31	31	3310 J	5210	4180	3890	6230	3720 J	3400 J
Manganese	MG/KG	1170	97%	1600	0	30	31	368 J	404 J	700	741 J	1170 J	577 J	498 J
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.1 J	0.11 J	0.16 J	0.07 U	0.11 J	0.09 J	0.12
Nickel	MG/KG	47.4	100%	30	12	31	31	23 J	35.7 J	29.4	25.6 J	44.7 J	25.3 J	24.5 J
Potassium	MG/KG	1770	100%		0	31	31	1350	1510	1410	1450 J	1690	1630	1630
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.54 U	0.64 U	0.55 UJ	0.76 U	0.71 U	0.6 U	0.57 J
Silver	MG/KG	0.3175	3%	2	0	1	31	0.28 UJ	0.5 UJ	0.31 UJ	0.6 UJ	0.56 UJ	0.31 UJ	0.28 UJ
Sodium	MG/KG	272	45%		0	14	31	62.4 U	118 U	102 U	140 U	132 U	68.8 U	63.3 U
Thallium	MG/KG	3.7	97%		0	30	31	1.6 J	1.9 J	1.9 J	2.2 J	3.3	1.2 J	2.3
Vanadium	MG/KG	29.3	100%		0	31	31	21.7	22.2	22.4	25.4	28.6	24.7	23.7
Zinc	MG/KG	115	100%	109	1	31	31	64.4 J	77 J	84.7	84.1 J	97.3 J	79.2 J	78 J
Other Analytes														
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	0.01	0.01		0.05	0.01 U	0.16	0.43
Percent Solids	% WW	89.5	100%		0	31	31	71.2	73.1	72.9	61	63.6	70	67.1

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-24	SS46-3	SS46-4	SS46-5	SS46-6	SS46-7	SEAD-46
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SEDIMENT
								464033	464010	464009	464008	464021	464020	463000
								0	0	0	0	0	0	0
								0.5	0.5	0.5	0.5	0.5	0.5	0.2
								36510	36508	36508	36508	36509	36509	36511
								SA	SA	SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	330	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
1,2-Dichloroethane (total)	UG/KG	0	0%	19	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Acetone	UG/KG	410	100%	50	27	30	30	260 J	210 J	160 J	280 J	380 J	320 J	280 J
Benzene	UG/KG	12	23%	60	0	7	31	12 U	12 U	11 U	12 U	17 U	2 J	12 U
Bromodichloromethane	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Bromoform	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Carbon disulfide	UG/KG	20	39%		0	12	31	12 UJ	12 U	11 U	12 U	4 J	11 J	2 J
Carbon tetrachloride	UG/KG	0	0%	760	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Chloroethane	UG/KG	0	0%		0	0	31	12 UJ	12 U	11 U	12 U	17 U	12 U	12 UJ
Chloroform	UG/KG	0	0%	370	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Ethyl benzene	UG/KG	1	3%	1000	0	1	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Methyl bromide	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Methyl chloride	UG/KG	0	0%		0	0	31	12 UJ	12 UJ	11 UJ	12 UJ	17 UJ	12 UJ	12 UJ
Methyl ethyl ketone	UG/KG	48	74%	120	0	23	31	26 J	25	18	27	35	35	22 J
Methyl isobutyl ketone	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Methylene chloride	UG/KG	0	0%	50	0	0	31	12 UJ	12 U	11 U	12 U	17 U	12 U	12 UJ
Styrene	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Toluene	UG/KG	13	90%	700	0	28	31	6 J	7 J	4 J	6 J	9 J	5 J	6 J
Total Xylenes	UG/KG	7	23%	260	0	7	31	12 U	12 U	11 U	12 U	17 U	3 J	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	31	12 U	12 U	11 U	12 U	17 U	12 U	12 U
Vinyl chloride	UG/KG	0	0%	20	0	0	31	12 UJ	12 U	11 U	12 U	17 U	12 U	12 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-24	SS46-3	SS46-4	SS46-5	SS46-6	SS46-7	SEAD-46 SW/SD46-1
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SEDIMENT
							464033	464010	464009	464008	464021	464020	463000	
							0	0	0	0	0	0	0	0
							0.5	0.5	0.5	0.5	0.5	0.5	0.2	
							36510	36508	36508	36508	36509	36509	36511	
							SA	SA	SA	SA	SA	SA	SA	
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Semivolatile Organic Compounds														
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 UJ	87 UJ	80 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 UJ	87 UJ	80 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 UJ	87 UJ	80 UJ
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	31	220 UJ	220 UJ	210 UJ	220 UJ	250 U	210 U	200 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
2,4-Dichlorophenol	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
2,4-Dimethylphenol	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
2,4-Dinitrophenol	UG/KG	0	0%		0	0	31	220 UR	220 UJ	210 UJ	220 UJ	250 UR	210 UR	200 UR
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
2-Chloronaphthalene	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 UJ	87 UJ	80 UJ
2-Chlorophenol	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
2-Methylnaphthalene	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
2-Methylphenol	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 UJ	87 UJ	80 UJ
2-Nitroaniline	UG/KG	0	0%		0	0	31	220 UJ	220 UJ	210 UJ	220 UJ	250 U	210 U	200 UJ
2-Nitrophenol	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
3-Nitroaniline	UG/KG	0	0%		0	0	31	220 UJ	220 UJ	210 UJ	220 UJ	250 U	210 U	200 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	31	220 UJ	220 UJ	210 UJ	220 UJ	250 U	210 U	200 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 UJ	87 UJ	80 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
4-Chloroaniline	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
4-Methylphenol	UG/KG	13	6%	330	0	2	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	6.2 J	80 UJ
4-Nitroaniline	UG/KG	0	0%		0	0	31	220 UJ	220 UJ	210 UJ	220 UJ	250 U	210 U	200 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	31	220 UJ	220 UJ	210 UJ	220 UJ	250 UR	210 UR	200 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Anthracene	UG/KG	0	0%	100000	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	6.3 J	93 UJ	87 UJ	90 UJ	8.9 J	4.7 J	80 UJ
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	7.4 J	93 UJ	87 UJ	9.5 J	16 J	7.8 J	80 UJ
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	8.8 J	93 UJ	87 UJ	11 J	14 J	7.5 J	80 UJ
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	7.8 J	93 UJ	87 UJ	6.8 J	15 J	6.4 J	80 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Butylbenzylphthalate	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Carbazole	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-24	SS46-3	SS46-4	SS46-5	SS46-6	SS46-7	SEAD-46
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SEDIMENT
								464033	464010	464009	464008	464021	464020	463000
							0	0	0	0	0	0	0	0
							0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
							36510	36508	36508	36508	36509	36509	36511	36511
							SA	SA	SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Chrysene	UG/KG	40	32%	1000	0	10	31	7 J	93 UJ	87 UJ	90 UJ	14 J	6.1 J	80 UJ
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	5.7 J	80 UJ
Di-n-octylphthalate	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Diethyl phthalate	UG/KG	11	3%		0	1	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Dimethylphthalate	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Fluoranthene	UG/KG	36	52%	100000	0	16	31	6.2 J	93 UJ	87 UJ	90 UJ	23 J	13 J	80 UJ
Fluorene	UG/KG	0	0%	30000	0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Hexachlorobutadiene	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 UJ	87 UJ	80 UJ
Hexachloroethane	UG/KG	9.9	3%		0	1	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Isophorone	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Nitrobenzene	UG/KG	0	0%		0	0	31	90 UJ	93 UJ	87 UJ	90 UJ	100 U	87 U	80 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	31	220 UJ	220 UJ	210 UJ	220 UJ	250 U	210 U	200 UJ
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	90 UJ	93 UJ	87 UJ	90 UJ	12 J	6.2 J	80 UJ
Phenol	UG/KG	33	32%	330	0	10	31	9.9 J	93 UJ	87 UJ	90 UJ	100 U	87 U	4.2 J
Pyrene	UG/KG	32	55%	100000	0	17	31	5.5 J	93 UJ	87 UJ	90 UJ	16 J	8.2 J	80 UJ
Explosives														
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%		0	0	31	120 UJ	120 U	120 U	120 U	120 U	120 U	120 UJ
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U	120 U	120 U	120 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-24 SOIL 464033	SS46-3 SOIL 464010	SS46-4 SOIL 464009	SS46-5 SOIL 464008	SS46-6 SOIL 464021	SS46-7 SOIL 464020	SEAD-46 SW/SD46-1 SEDIMENT 463000
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	4.5 U	4.6 U	4.3 U	4.5 U	5.1 U	4.3 U	4 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	4.5 U	4.6 U	4.3 U	4.5 U	5.1 U	3.7 J	4 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	31	4.5 U	4.6 U	4.3 U	4.5 U	5.1 U	4.3 U	4 U
Aldrin	UG/KG	0	0%	5	0	0	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Alpha-BHC	UG/KG	0	0%	20	0	0	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Aroclor-1016	UG/KG	0	0%	100	0	0	31	45 U	46 U	43 U	45 U	51 U	43 U	40 U
Aroclor-1221	UG/KG	0	0%	100	0	0	31	92 U	94 U	88 U	91 U	100 U	88 U	82 U
Aroclor-1232	UG/KG	0	0%	100	0	0	31	45 U	46 U	43 U	45 U	51 U	43 U	40 U
Aroclor-1242	UG/KG	0	0%	100	0	0	31	45 U	46 U	43 U	45 U	51 U	43 U	40 U
Aroclor-1248	UG/KG	0	0%	100	0	0	31	45 U	46 U	43 U	45 U	51 U	43 U	40 U
Aroclor-1254	UG/KG	0	0%	100	0	0	31	45 U	46 U	43 U	45 U	51 U	43 U	40 U
Aroclor-1260	UG/KG	0	0%	100	0	0	31	45 U	46 U	43 U	45 U	51 U	43 U	40 U
Beta-BHC	UG/KG	0	0%	36	0	0	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Delta-BHC	UG/KG	0	0%	0	0	0	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Dieldrin	UG/KG	46	32%	40	2	10	31	4.5 U	10 J	4.6	4.5 U	9 J	4.5 J	4 U
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	5.8 J	2.1 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	4.5 U	4.6 U	4.3 U	4.5 U	5.1 U	2.3 J	4 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	31	4.5 U	4.6 U	4.3 U	4.5 U	5.1 U	4.3 U	4 U
Endrin	UG/KG	5.1	10%	14	0	3	31	4.5 U	2.4 J	4.3 U	4.5 U	5.1 U	5.1 J	4 U
Endrin aldehyde	UG/KG	0	0%	0	0	0	31	4.5 U	4.6 U	4.3 U	4.5 U	5.1 U	4.3 U	4 U
Endrin ketone	UG/KG	3.1	3%	0	0	1	31	4.5 U	4.6 U	4.3 U	4.5 U	5.1 U	3.1 J	4 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Heptachlor	UG/KG	0	0%	42	0	0	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Heptachlor epoxide	UG/KG	0	0%	0	0	0	31	2.3 U	2.4 U	2.2 U	2.3 U	2.6 U	2.2 U	2.1 U
Methoxychlor	UG/KG	0	0%	0	0	0	31	23 U	24 U	22 U	23 U	26 U	22 U	21 U
Toxaphene	UG/KG	0	0%	0	0	0	31	230 U	240 U	220 U	230 U	260 U	220 U	210 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46	SEAD-46
								SS46-24	SS46-3	SS46-4	SS46-5	SS46-6	SS46-7	SEAD-46
								SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SW/SD46-1
								464033	464010	464009	464008	464021	464020	463000
							0	0	0	0	0	0	0	0
							0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
							36510	36508	36508	36508	36509	36509	36511	36511
							SA	SA	SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Metals														
Aluminum	MG/KG	16500	100%		0	31	31	15300	12100	12500	12500	13900	11600	14600
Antimony	MG/KG	0.73	13%		0	4	31	0.4 UR	0.55 UJ	0.56 UJ	0.57 UJ	0.81 UR	0.59 UR	0.73 J
Arsenic	MG/KG	7.9	100%	13	0	31	31	6.2	4.4	4.5	4.2	4.2	4.7	3.9
Barium	MG/KG	152	100%	350	0	31	31	109	95.1	99.6	97.2	115	79.1	56.1
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	1.2	0.84 J	0.84 J	0.94 J	0.64 J	0.46 J	0.88
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.04 U	0.06 U	0.07 U	0.06 U	0.09 U	0.07 U	0.03 U
Calcium	MG/KG	69300	100%		0	31	31	3390 J	7000	3340	5510	8090 J	23200 J	4940 J
Chromium	MG/KG	26.3	100%	30	0	31	31	16.9 J	18.3	19.2	19.7	18.3 J	17.3 J	19.3 J
Cobalt	MG/KG	20	100%		0	31	31	16.2	9.8 J	9.9 J	10.4 J	8.5 J	11.1	12.1
Copper	MG/KG	41.15	100%	50	0	31	31	27.6 J	22.9	21.3	22.1	26.5	24.4	21.5 J
Cyanide	MG/KG	0	0%	27	0	0	31	0.61 U	0.7 U	0.63 U	0.66 U	0.74 U	0.61 U	0.54 U
Iron	MG/KG	39100	100%		0	31	31	32300 J	23700 J	24800	24400	22900 J	22400 J	30300 J
Lead	MG/KG	73	100%	63	1	31	31	20.9	22.8 J	73 J	30.1 J	37	49.7	21.3
Magnesium	MG/KG	12800	100%		0	31	31	4860 J	4580	3490	4460	4550	11100	5450 J
Manganese	MG/KG	1170	97%	1600	0	30	31	1000 J	475	531	569	345 J	611 J	371 J
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.06 U	0.15 J	0.13 J	0.15 J	0.1 J	0.08 J	0.07 J
Nickel	MG/KG	47.4	100%	30	12	31	31	43.3 J	27.2	24.6	27.6	28.6 J	29.4 J	39.1 J
Potassium	MG/KG	1770	100%		0	31	31	1320	1310	1390	1230	1770	1500	887
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.45 U	0.48 UJ	0.52 UJ	0.49 UJ	0.72 U	0.53 U	0.41 U
Silver	MG/KG	0.3175	3%	2	0	1	31	0.24 UJ	0.32 UJ	0.33 UJ	0.33 UJ	0.57 UJ	0.42 UJ	0.21 UJ
Sodium	MG/KG	272	45%		0	14	31	52.6 U	89.1 U	96.4 U	91.1 U	133 U	97.8 U	86.8 J
Thallium	MG/KG	3.7	97%		0	30	31	2.5	1.4 J	1.1 J	1.6 J	1.3 J	1.7 J	1.9
Vanadium	MG/KG	29.3	100%		0	31	31	26.7	21.5	22.2	22.8	23.7	20.3	21.6
Zinc	MG/KG	115	100%	109	1	31	31	115 J	75.6	71.8	70.9	89.2 J	71 J	64.6 J
Other Analytes														
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	0.05		2.1	0.63	0.23	0.7	0.09
Percent Solids	% WW	89.5	100%		0	31	31	73.3	70.7	75.5	73.3	65.4	75.7	81.8

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46 SW/SD46-2 SEDIMENT 463001	SEAD-46 SW/SD46-3 SEDIMENT 463002	SEAD-46 SW/SD46-4 SEDIMENT 463003	SEAD-46 SS46-13 SOIL 464027/464028
								0 0.2 36511 SA P1S1 RI	0 0.2 36511 SA P1S1 RI	0 0.2 36510 SA P1S1 RI	0 0.5 36510 SADU P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	31	13 U	14 UR	12 U	12.5 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
1,1,2-Trichloroethane	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	31	13 U	14 UR	12 U	12.5 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	31	13 U	14 UR	12 U	12.5 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	31	13 U	14 UR	12 U	12.5 U
1,2-Dichloroethene (total)	UG/KG	0	0%	19	0	0	31	13 U	14 UR	12 U	12.5 U
1,2-Dichloropropane	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Acetone	UG/KG	410	100%	50	27	30	30	250 J	27 J	160 J	210 J
Benzene	UG/KG	12	23%	60	0	7	31	13 U	14 UR	12 U	12.5 U
Bromodichloromethane	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Bromoform	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Carbon disulfide	UG/KG	20	39%		0	12	31	13 UJ	2 J	12 UJ	12.5 UJ
Carbon tetrachloride	UG/KG	0	0%	760	0	0	31	13 U	14 UR	12 U	12.5 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	31	13 U	14 UR	12 U	12.5 U
Chlorodibromomethane	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Chloroethane	UG/KG	0	0%		0	0	31	13 UJ	14 UR	12 UJ	12.5 UJ
Chloroform	UG/KG	0	0%	370	0	0	31	13 U	14 UR	12 U	12.5 U
Cis-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Ethyl benzene	UG/KG	1	3%	1000	0	1	31	13 U	14 UR	12 U	12.5 U
Methyl bromide	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Methyl butyl ketone	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Methyl chloride	UG/KG	0	0%		0	0	31	13 UJ	14 UR	12 UJ	12.5 UJ
Methyl ethyl ketone	UG/KG	48	74%	120	0	23	31	25 J	14 UR	19 J	21.5 J
Methyl isobutyl ketone	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Methylene chloride	UG/KG	0	0%	50	0	0	31	13 UJ	14 UR	12 UJ	12.5 UJ
Styrene	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Tetrachloroethene	UG/KG	0	0%	1300	0	0	31	13 U	14 UR	12 U	12.5 U
Toluene	UG/KG	13	90%	700	0	28	31	13 J	12 J	13	3.5 J
Total Xylenes	UG/KG	7	23%	260	0	7	31	13 U	3 J	12 U	12.5 U
Trans-1,3-Dichloropropene	UG/KG	0	0%		0	0	31	13 U	14 UR	12 U	12.5 U
Trichloroethene	UG/KG	0	0%	470	0	0	31	13 U	14 UR	12 U	12.5 U
Vinyl chloride	UG/KG	0	0%	20	0	0	31	13 UJ	14 UR	12 UJ	12.5 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46 SW/SD46-2 SEDIMENT 463001	SEAD-46 SW/SD46-3 SEDIMENT 463002	SEAD-46 SW/SD46-4 SEDIMENT 463003	SEAD-46 SS46-13 SOIL 464027/464028
								0 0.2 36511 SA P1S1 RI	0 0.2 36511 SA P1S1 RI	0 0.2 36510 SA P1S1 RI	0 0.5 36510 SADU P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)
Semivolatile Organic Compounds											
1,2,4-Trichlorobenzene	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2,4,5-Trichlorophenol	UG/KG	0	0%		0	0	31	240 UJ	250 UJ	220 UJ	220 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2,4-Dichlorophenol	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2,4-Dimethylphenol	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2,4-Dinitrophenol	UG/KG	0	0%		0	0	31	240 UR	250 UR	220 UJ	220 UR
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2,6-Dinitrotoluene	UG/KG	130	3%		0	1	31	97 UJ	100 UJ	92 UJ	91 UJ
2-Chloronaphthalene	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2-Chlorophenol	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2-Methylnaphthalene	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2-Methylphenol	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
2-Nitroaniline	UG/KG	0	0%		0	0	31	240 UJ	250 UJ	220 UJ	220 UJ
2-Nitrophenol	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
3-Nitroaniline	UG/KG	0	0%		0	0	31	240 UJ	250 UJ	220 UJ	220 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%		0	0	31	240 UJ	250 UJ	220 UJ	220 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
4-Chloroaniline	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
4-Methylphenol	UG/KG	13	6%	330	0	2	31	97 UJ	100 UJ	92 UJ	91 UJ
4-Nitroaniline	UG/KG	0	0%		0	0	31	240 UJ	250 UJ	220 UJ	220 UJ
4-Nitrophenol	UG/KG	0	0%		0	0	31	240 UJ	250 UJ	220 UJ	220 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Anthracene	UG/KG	0	0%	100000	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Benzo(a)anthracene	UG/KG	34	23%	1000	0	7	31	3.3 J	100 UJ	92 UJ	91 UJ
Benzo(a)pyrene	UG/KG	30	45%	1000	0	14	31	97 UJ	100 UJ	92 UJ	6.6 J
Benzo(b)fluoranthene	UG/KG	47	48%	1000	0	15	31	6 J	100 UJ	92 UJ	25.95 J
Benzo(ghi)perylene	UG/KG	17	3%	100000	0	1	31	97 UJ	100 UJ	92 UJ	91 UJ
Benzo(k)fluoranthene	UG/KG	33	48%	800	0	15	31	7.4 J	100 UJ	92 UJ	25.9 J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	780	10%		0	3	31	97 UJ	100 UJ	92 UJ	91 UJ
Butylbenzylphthalate	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Carbazole	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46 SW/SD46-2 SEDIMENT 463001	SEAD-46 SW/SD46-3 SEDIMENT 463002	SEAD-46 SW/SD46-4 SEDIMENT 463003	SEAD-46 SS46-13 SOIL 464027/464028
								0 0.2 36511 SA P1S1 RI	0 0.2 36511 SA P1S1 RI	0 0.2 36510 SA P1S1 RI	0 0.5 36510 SADU P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)
Chrysene	UG/KG	40	32%	1000	0	10	31	7.2 J	100 UJ	92 UJ	25.75 J
Di-n-butylphthalate	UG/KG	1100	19%		0	6	31	97 UJ	100 UJ	92 UJ	25.1 J
Di-n-octylphthalate	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Dibenz(a,h)anthracene	UG/KG	0	0%	330	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Diethyl phthalate	UG/KG	11	3%		0	1	31	97 UJ	100 UJ	92 UJ	91 UJ
Dimethylphthalate	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Fluoranthene	UG/KG	36	52%	100000	0	16	31	8.9 J	100 UJ	92 UJ	8 J
Fluorene	UG/KG	0	0%	30000	0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Hexachlorobenzene	UG/KG	11	3%	330	0	1	31	97 UJ	100 UJ	92 UJ	91 UJ
Hexachlorobutadiene	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Hexachloroethane	UG/KG	9.9	3%		0	1	31	97 UJ	100 UJ	92 UJ	91 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	19	6%	500	0	2	31	97 UJ	100 UJ	92 UJ	91 UJ
Isophorone	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
N-Nitrosodiphenylamine	UG/KG	59	6%		0	2	31	97 UJ	100 UJ	92 UJ	91 UJ
N-Nitrosodipropylamine	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Naphthalene	UG/KG	3.5	3%	12000	0	1	31	97 UJ	100 UJ	92 UJ	91 UJ
Nitrobenzene	UG/KG	0	0%		0	0	31	97 UJ	100 UJ	92 UJ	91 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	31	240 UJ	250 UJ	220 UJ	220 UJ
Phenanthrene	UG/KG	25.1	45%	100000	0	14	31	5 J	100 UJ	92 UJ	25.1 J
Phenol	UG/KG	33	32%	330	0	10	31	7.6 J	8.9 J	33 J	8.7 J
Pyrene	UG/KG	32	55%	100000	0	17	31	8 J	100 UJ	92 UJ	8 J
Explosives											
1,3,5-Trinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%		0	0	31	120 UJ	120 UJ	120 UJ	120 UJ
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%		0	0	31	120 U	120 U	120 U	120 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46 SW/SD46-2 SEDIMENT 463001	SEAD-46 SW/SD46-3 SEDIMENT 463002	SEAD-46 SW/SD46-4 SEDIMENT 463003	SEAD-46 SS46-13 SOIL 464027/464028
								0 0.2 36511 SA P1S1 RI	0 0.2 36511 SA P1S1 RI	0 0.2 36510 SA P1S1 RI	0 0.5 36510 SADU P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pesticides and PCBs											
4,4'-DDD	UG/KG	12	3%	3.3	1	1	31	4.8 U	5.1 U	4.5 U	4.55 U
4,4'-DDE	UG/KG	3.7	10%	3.3	1	3	31	4.8 U	5.1 U	4.5 U	4.55 U
4,4'-DDT	UG/KG	0	0%	3.3	0	0	31	4.8 U	5.1 U	4.5 U	4.55 U
Aldrin	UG/KG	0	0%	5	0	0	31	2.5 U	2.6 U	2.3 U	2.35 U
Alpha-BHC	UG/KG	0	0%	20	0	0	31	2.5 U	2.6 U	2.3 U	2.35 U
Alpha-Chlordane	UG/KG	3.5	6%	94	0	2	31	2.5 U	2.6 U	2.3 U	2.35 U
Aroclor-1016	UG/KG	0	0%	100	0	0	31	48 U	51 U	45 U	45.5 U
Aroclor-1221	UG/KG	0	0%	100	0	0	31	98 U	100 U	92 U	92.5 U
Aroclor-1232	UG/KG	0	0%	100	0	0	31	48 U	51 U	45 U	45.5 U
Aroclor-1242	UG/KG	0	0%	100	0	0	31	48 U	51 U	45 U	45.5 U
Aroclor-1248	UG/KG	0	0%	100	0	0	31	48 U	51 U	45 U	45.5 U
Aroclor-1254	UG/KG	0	0%	100	0	0	31	48 U	51 U	45 U	45.5 U
Aroclor-1260	UG/KG	0	0%	100	0	0	31	48 U	51 U	45 U	45.5 U
Beta-BHC	UG/KG	0	0%	36	0	0	31	2.5 U	2.6 U	2.3 U	2.35 U
Delta-BHC	UG/KG	0	0%		0	0	31	2.5 U	2.6 U	2.3 U	2.35 U
Dieldrin	UG/KG	46	32%	40	2	10	31	4.8 U	5.1 U	4.5 U	8.5 J
Endosulfan I	UG/KG	5.8	3%	2400	0	1	31	2.5 U	2.6 U	2.3 U	2.35 U
Endosulfan II	UG/KG	2.3	3%	2400	0	1	31	4.8 U	5.1 U	4.5 U	4.55 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	31	4.8 U	5.1 U	4.5 U	4.55 U
Endrin	UG/KG	5.1	10%	14	0	3	31	4.8 U	5.1 U	4.5 U	4.55 U
Endrin aldehyde	UG/KG	0	0%		0	0	31	4.8 U	5.1 U	4.5 U	4.55 U
Endrin ketone	UG/KG	3.1	3%		0	1	31	4.8 U	5.1 U	4.5 U	4.55 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	31	2.5 U	2.6 U	2.3 U	2.35 U
Gamma-Chlordane	UG/KG	1.9	3%	94	0	1	31	2.5 U	2.6 U	2.3 U	2.35 U
Heptachlor	UG/KG	0	0%	42	0	0	31	2.5 U	2.6 U	2.3 U	2.35 U
Heptachlor epoxide	UG/KG	0	0%		0	0	31	2.5 U	2.6 U	2.3 U	2.35 U
Methoxychlor	UG/KG	0	0%		0	0	31	25 U	26 U	23 U	23.5 U
Toxaphene	UG/KG	0	0%		0	0	31	250 U	260 U	230 U	235 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 6B
SEAD-46, 3.5" Rocket Range Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Value	Frequency of Detection	Criteria Value	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-46 SW/SD46-2 SEDIMENT 463001	SEAD-46 SW/SD46-3 SEDIMENT 463002	SEAD-46 SW/SD46-4 SEDIMENT 463003	SEAD-46 SS46-13 SOIL 464027/464028
								0 0.2 36511 SA P1S1 RI	0 0.2 36511 SA P1S1 RI	0 0.2 36510 SA P1S1 RI	0 0.5 36510 SADU P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)
Metals											
Aluminum	MG/KG	16500	100%		0	31	31	15200	16500	16000	14250
Antimony	MG/KG	0.73	13%		0	4	31	0.64 UR	0.66 J	0.57 UR	0.56 J
Arsenic	MG/KG	7.9	100%	13	0	31	31	6.1	7.2	6.2	5.2
Barium	MG/KG	152	100%	350	0	31	31	152	127	84.7	81.7
Beryllium	MG/KG	1.2	100%	7.2	0	31	31	1.1 J	1.2	1.1 J	0.835 J
Cadmium	MG/KG	0.09	3%	2.5	0	1	31	0.06 U	0.04 U	0.05 U	0.045 U
Calcium	MG/KG	69300	100%		0	31	31	3470 J	69300 J	2640 J	2970 J
Chromium	MG/KG	26.3	100%	30	0	31	31	15.9 J	23.1 J	22.6 J	16
Cobalt	MG/KG	20	100%		0	31	31	12.8 J	20	13.9	9.65 J
Copper	MG/KG	41.15	100%	50	0	31	31	19.5 J	32.5 J	29.9	41.15 J
Cyanide	MG/KG	0	0%	27	0	0	31	0.73 U	0.77 U	0.67 U	0.675 U
Iron	MG/KG	39100	100%		0	31	31	29700 J	39100 J	30100 J	24450 J
Lead	MG/KG	73	100%	63	1	31	31	15.4	22	20.2	50.75
Magnesium	MG/KG	12800	100%		0	31	31	4770 J	8910 J	4680	3580 J
Manganese	MG/KG	1170	97%	1600	0	30	31	1070 J	756 J	537 J	408 J
Mercury	MG/KG	0.17	81%	0.18	0	25	31	0.05 U	0.08 U	0.07 J	0.065 U
Nickel	MG/KG	47.4	100%	30	12	31	31	31.8 J	47.4 J	38.2 J	22.8 J
Potassium	MG/KG	1770	100%		0	31	31	1410 J	1260	1120 J	1135 J
Selenium	MG/KG	0.81	6%	3.9	0	2	31	0.73 U	0.55 U	0.65 U	0.57 U
Silver	MG/KG	0.3175	3%	2	0	1	31	0.38 UJ	0.29 UJ	0.34 UJ	0.3175 J
Sodium	MG/KG	272	45%		0	14	31	116 J	66.8 J	75 U	64.8 J
Thallium	MG/KG	3.7	97%		0	30	31	2.4 J	3.7	1.6 J	2 J
Vanadium	MG/KG	29.3	100%		0	31	31	29.3	27.1	26.4	24.8
Zinc	MG/KG	115	100%	109	1	31	31	71.2 J	82.5 J	76.3 J	69.05 J
Other Analytes											
Nitrate/Nitrite Nitrogen	MG/KG	2.2	96%		0	25	26	0.09	0.06	0.03	0.055 J
Percent Solids	% WW	89.5	100%		0	31	31	67.9	64.9	72.7	72.4

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-11 Ditchsoil 573008	SEAD-57 SD57-10 Ditchsoil 573031	SEAD-57 SD57-16 Ditchsoil 573000	SEAD-57 SD57-13 Ditchsoil 573001	SEAD-57 SD57-24 Ditchsoil 573002
								0 0.2 01/05/00 DU P1S1 RI	0 0.2 01/10/00 DU P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	110 J	110	300 J	210 J	220 J
Benzene	UG/KG	1	2%	60	0	2	127	14 U	11 U	13 U	13 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	11 U	3 J	2 J	2 J
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	11 U	13 U	13 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	14	12	36 J	20 J	19 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	11 U	13 U	13 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	14 U	11 U	13 U	13 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	2 J	6 J	10 J	8 J	7 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	11 U	13 U	13 U	13 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	97 U	94 UJ	90 U	91 U	89 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	97 U	94 UJ	90 U	91 U	89 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	97 U	94 UJ	90 U	5.1 J	89 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	11 J	5.5 J	50 J	43 J	89 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	97 U	94 UJ	66 J	59 J	89 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	13 J	94 UJ	59 J	43 J	89 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	97 U	94 UJ	43 J	35 J	89 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	12 J	94 UJ	41 J	43 J	89 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	97 UJ	94 UJ	90 U	14 J	89 U
Chrysene	UG/KG	110	33%	1000	0	39	119	12 J	6.6 J	80 J	72 J	89 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	97 U	28 J	4.9 J	8.4 J	4.9 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	97 UJ	94 UJ	90 UJ	91 UJ	89 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	97 U	94 UJ	17 J	17 J	89 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	97 U	94 UJ	90 U	91 U	89 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	97 U	94 UJ	100	73 J	5 J
Fluorene	UG/KG	120	2%	30000	0	2	119	97 U	94 UJ	90 U	91 U	89 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	97 U	94 UJ	34 J	28 J	89 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	97 U	94 UJ	90 U	91 U	89 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	97 U	94 UJ	90 U	91 U	89 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	97 U	94 UJ	52 J	42 J	89 U
Phenol	UG/KG	51	13%	330	0	16	119	97 U	94 UJ	90 U	91 U	89 U
Pyrene	UG/KG	230	52%	100000	3	62	119	97 UJ	94 UJ	130	100	5.7 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	104	104	99	89	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SD57-11	SD57-10	SD57-16	SD57-13	SD57-24
								Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil
								573008	573031	573000	573001	573002
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/05/00	01/10/00	01/04/00	01/04/00	01/04/00
								DU	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	48 U	47 U	45 U	46 U	44 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	16500	12900 J	16200	17700	16000
Antimony	MG/KG	6.5	49%	0	0	58	119	0.63 UR	0.99 J	0.7 J	0.54 UR	0.36 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.7	4.6	7	5.9	5
Barium	MG/KG	237	100%	350	0	119	119	237	209	119	217	107
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.98 J	0.81 J	1.2 J	1.8	0.87 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	13.5 J	3.3 J	0.42 J	0.22 J	0.19 U
Calcium	MG/KG	213000	100%	0	0	119	119	3860	2590	4440	10800	5330
Chromium	MG/KG	32.1	100%	30	2	119	119	22.9	19.5 J	24.1	26	23.5
Cobalt	MG/KG	29.7	100%	0	0	119	119	10.1 J	11.5	13.2	19.7	10 J
Copper	MG/KG	2930	92%	50	2	109	119	21.8 U	19.5	26.5 U	29.7 U	25.4 U
Iron	MG/KG	39800	100%	0	0	119	119	27100 J	27100 J	31600	33700	28200
Lead	MG/KG	1860	100%	63	2	119	119	21.8 J	19.1 J	29.4 J	28.2 J	25.7 J
Magnesium	MG/KG	27600	100%	0	0	119	119	4370	3920	4900	5710	5000
Manganese	MG/KG	2580	100%	1600	5	119	119	338 J	513 J	701 J	2580 J	330 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 U	0.09 J	0.07 U	0.07 U	0.06 U
Nickel	MG/KG	54.1	100%	30	37	119	119	25.7 J	24.2	30.5 J	36.2 J	30.4 J
Potassium	MG/KG	3250	100%	0	0	119	119	1370 J	1160	1810	1620	1190
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.63 U	1.4	1.1 J	1.8 J	0.51 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.49 J	0.31 J	0.44 J	0.63 J	0.3 UJ
Sodium	MG/KG	270	34%	0	0	41	119	183 J	61.8 J	148 J	71.5 U	67.6 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.6 J	1.8	1.7 J	4.4	1.8 J
Vanadium	MG/KG	104	99%	0	0	118	119	30.1	26.7	31.4	37.4	30.3
Zinc	MG/KG	1250	93%	109	11	111	119	67.5 J	70.8	487 J	150 J	84.4 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32			24.1	22.4	6.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.09 J	0.09	3.1 J	0.29 J	0.03 J
Percent Solids	% WW	94	100%	0	0	101	101	68	70.2	73.3	71.5	74.4
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	6.95		7.48	7.65	7.83
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32			26200	31300	26500

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-14 Ditchsoil 573003	SEAD-57 SD57-17 Ditchsoil 573004	SEAD-57 SD57-18 Ditchsoil 573005	SEAD-57 SD57-26 Ditchsoil 573006	SEAD-57 SD57-11 Ditchsoil 573007
								0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	220 J	100 J	260 J	330 J	100 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	12 U	17 U	16 U	15 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	2 J	12 U	17 U	2 J	15 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	12 U	17 U	16 U	15 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	25 J	13	26 J	49 J	13 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	12 U	17 U	16 U	15 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	12 U	17 U	16 U	15 U
Toluene	UG/KG	33	65%	700	0	82	127	3 J	4 J	8 J	6 J	5 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	12 U	17 U	16 U	15 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	97 U	90 U	92 U	95 U	91 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	97 U	90 U	92 U	95 U	91 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	6.9 J	90 U	8.2 J	95 U	91 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	52 J	8.5 J	62 J	18 J	91 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	52 J	12 J	76 J	22 J	91 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	36 J	9.5 J	67 J	22 J	91 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	30 J	10 J	54 J	15 J	91 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	39 J	11 J	50 J	17 J	91 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	97 U	90 U	92 U	7.9 J	14 J
Chrysene	UG/KG	110	33%	1000	0	39	119	78 J	17 J	110	26 J	91 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	9.3 J	6.5 J	6.7 J	95 U	6.7 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	97 UJ	90 UJ	92 UJ	95 UJ	91 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	14 J	5 J	24 J	95 U	91 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	97 U	90 U	92 U	95 U	91 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	100	20 J	150	40 J	91 U
Fluorene	UG/KG	120	2%	30000	0	2	119	97 U	90 U	8.1 J	95 U	91 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	25 J	10 J	37 J	16 J	91 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	97 U	90 U	92 U	95 U	91 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	97 U	90 U	92 U	95 U	91 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	81 J	9.3 J	110	16 J	91 U
Phenol	UG/KG	51	13%	330	0	16	119	97 U	90 U	92 U	95 U	91 U
Pyrene	UG/KG	230	52%	100000	3	62	119	140	22 J	230	32 J	91 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	78	20	118	76	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.8 U	4.5 U	2.9 J	4.8 U	4.6 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.4 J	2.3 U	2.4 U	2.5 U	2.3 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SD57-14	SD57-17	SD57-18	SD57-26	SD57-11
								Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil
								573003	573004	573005	573006	573007
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/05/00	01/05/00	01/05/00	01/05/00	01/05/00
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	48 U	45 U	46 U	48 U	46 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	4.5 J	2.3 U	2.4 U	2.5 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.8 U	4.5 U	3.8 J	4.8 U	4.6 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.8 U	4.5 U	4 J	4.8 U	4.6 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.6 J	2.3 U	2.4 U	2.5 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	17000	14100	16800	12400	15100
Antimony	MG/KG	6.5	49%	0	0	58	119	0.86 J	0.96 J	0.61 UR	0.75 J	0.46 UR
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.7	4.8	4.1	17.8	4.8
Barium	MG/KG	237	100%	350	0	119	119	131	93.6	139	85.6	158
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1.1	0.87 J	1 J	0.73 J	0.94 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.17 U	0.17 U	2 J	0.19 U	28.6 J
Calcium	MG/KG	213000	100%	0	0	119	119	7090	5830	3890	7610	3580
Chromium	MG/KG	32.1	100%	30	2	119	119	24.4	22.4	25.5	17.7	21
Cobalt	MG/KG	29.7	100%	0	0	119	119	10.6	10.1 J	9.6 J	9.1 J	9.3 J
Copper	MG/KG	2930	92%	50	2	109	119	28.2 U	31.6 U	29.6 U	31.5 U	19.9 U
Iron	MG/KG	39800	100%	0	0	119	119	28900	26800	27300	20600	25600 J
Lead	MG/KG	1860	100%	63	2	119	119	27.9 J	27 J	31.8 J	35 J	18.4 J
Magnesium	MG/KG	27600	100%	0	0	119	119	5130	5470	5140	4210	4110
Manganese	MG/KG	2580	100%	1600	5	119	119	460 J	275 J	256 J	269 J	334 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 J	0.07 U	0.06 U	0.07 U	0.07 U
Nickel	MG/KG	54.1	100%	30	37	119	119	30.1 J	33.7 J	33.3 J	25 J	23.5 J
Potassium	MG/KG	3250	100%	0	0	119	119	1500	1310	1420	1250	1280
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.58 J	0.59 J	0.69 UJ	0.84 J	0.69 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 UJ	0.33 J	0.36 UJ	0.31 UJ	0.49 J
Sodium	MG/KG	270	34%	0	0	41	119	61.3 U	61.5 U	79.9 U	68.3 U	60 U
Thallium	MG/KG	6.7	82%	0	0	98	119	3.8	1.8 J	1.5 J	1.9 J	2.3
Vanadium	MG/KG	104	99%	0	0	118	119	32.4	26.3	29	26	28.1
Zinc	MG/KG	1250	93%	109	11	111	119	90.7 J	108 J	105 J	75.7 J	61.5 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	22.2	11.3	16	26.2	26.9
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.06 J	0.2 J	0.47 J	0.17 J	0.03 J
Percent Solids	% WW	94	100%	0	0	101	101	67.8	73.4	71.6	69.4	71.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.53	7.56	7.2	7.64	7.08
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	33300	38400	29900	40500	20800

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	98 J	110 J	120 J	160 J	140 J
Benzene	UG/KG	1	2%	60	0	2	127	11 U	11 U	13 U	12 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	11 U	13 U	12 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	11 U	13 U	12 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	12	8 J	14	20	14
Methylene chloride	UG/KG	1	2%	50	0	2	127	11 U	11 U	13 U	12 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	11 U	11 U	13 U	12 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	3 J	8 J	8 J	3 J	2 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	11 U	13 U	12 U	12 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	83 U	84 U	91 U	87 U	86 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	83 U	84 U	13 J	87 U	86 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	83 U	84 U	91 U	87 U	86 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	83 U	84 U	91 U	87 U	86 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	83 U	84 U	91 U	87 U	86 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	83 UJ	84 UJ	91 UJ	87 U	86 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	83 U	84 U	91 U	87 UJ	86 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	83 UJ	84 U	91 U	87 UJ	86 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	83 UJ	84 U	91 U	87 U	86 U
Chrysene	UG/KG	110	33%	1000	0	39	119	83 U	84 U	91 U	87 U	86 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	9.8 J	84 U	91 U	87 U	86 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	83 UJ	84 UJ	91 UJ	87 UJ	86 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	83 U	84 U	91 U	87 U	86 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	83 U	84 U	91 U	87 UJ	86 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	83 U	84 U	91 U	87 U	86 U
Fluorene	UG/KG	120	2%	30000	0	2	119	83 U	84 U	91 U	87 U	86 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	83 U	84 UJ	91 UJ	87 U	86 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	83 U	84 U	91 U	87 U	86 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	83 U	84 U	91 U	87 U	86 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	83 U	84 U	91 U	87 U	86 U
Phenol	UG/KG	51	13%	330	0	16	119	83 U	84 U	17 J	87 U	86 U
Pyrene	UG/KG	230	52%	100000	3	62	119	83 UJ	84 U	91 U	87 U	86 U
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/06/00 SA	01/06/00 SA	01/06/00 SA	01/07/00 SA	01/07/00 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	41 U	42 U	46 U	43 U	43 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14600	19800 J	15800 J	17100 J	14800 J
Antimony	MG/KG	6.5	49%	0	0	58	119	0.65 J	0.51 U	0.52 U	0.53 U	0.95 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.6	6.1	6	5.5	7.2
Barium	MG/KG	237	100%	350	0	119	119	135	143	165	154	129
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.87 J	0.89 J	0.77 J	0.84 J	0.84 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.39 J	0.05 U	2.8	0.21 J	0.41 J
Calcium	MG/KG	213000	100%	0	0	119	119	3070	3050	3410	3020	2880
Chromium	MG/KG	32.1	100%	30	2	119	119	19	25.2	22.3	21.4	21.7
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.6 J	9.9 J	11.2 J	11 J	15.9
Copper	MG/KG	2930	92%	50	2	109	119	21.3 U	22	24.7	19.5	29.8
Iron	MG/KG	39800	100%	0	0	119	119	22200 J	29100 J	25900 J	24100 J	28900 J
Lead	MG/KG	1860	100%	63	2	119	119	9.4 J	12.2	24.7	13.1	23.7
Magnesium	MG/KG	27600	100%	0	0	119	119	3990	5190	4380	4260	4360
Manganese	MG/KG	2580	100%	1600	5	119	119	611 J	329	441	709	1220
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 U	0.07 J	0.09 J	0.07 J	0.07 J
Nickel	MG/KG	54.1	100%	30	37	119	119	28 J	26.4	28.7	24.1	37.5 J
Potassium	MG/KG	3250	100%	0	0	119	119	1350	2180	1980	1840	1600
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.49 U	0.51 U	1.9 J	0.6 J	1.8
Silver	MG/KG	1.7	38%	2	0	45	119	0.25 UJ	0.3 UJ	0.31 UJ	0.31 UJ	0.33 UJ
Sodium	MG/KG	270	34%	0	0	41	119	56.4 U	66.5 U	68.9 U	89.1 J	73.2 U
Thallium	MG/KG	6.7	82%	0	0	98	119	2.5	4.4	2.3 J	2.7	4.1
Vanadium	MG/KG	104	99%	0	0	118	119	26.4	33.8	25.3	28	25.7
Zinc	MG/KG	1250	93%	109	11	111	119	52.1 J	62.9	92.5	65.8	78
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	9.6	9.7	9.8	12.7	16.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.2	0.01 U	0.22	0.34	0.14
Percent Solids	% WW	94	100%	0	0	101	101	78.8	78.3	72.3	76.4	77.4
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.6	7.6	7.15	7.56	7.5
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	5860	9290	11700	18100	27700

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-21 Ditchsoil 573014	SEAD-57 SD57-22 Ditchsoil 573015	SEAD-57 SD57-5 Ditchsoil 573016	SEAD-57 SD57-15 Ditchsoil 573017	SEAD-57 SD57-12 Ditchsoil 573018
								0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	150 J	180 J	180 J	130 J	120 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	12 U	13 U	11 U	11 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	12 U	13 U	11 U	11 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	12 U	13 U	11 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	18	22	20	12	12
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	12 U	13 U	11 U	11 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	12 U	13 U	11 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	3 J	3 J	2 J	5 J	8 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	12 U	13 U	11 U	11 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	89 U	87 U	94 U	84 UJ	82 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	89 U	87 U	94 U	84 UJ	82 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	89 U	87 U	94 U	84 UJ	82 UJ
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	7.5 J	8.4 J	94 U	17 J	82 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	14 J	12 J	94 U	18 J	82 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	10 J	12 J	94 U	13 J	82 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	89 UJ	87 UJ	94 UJ	28 J	82 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	10 J	7.8 J	94 UJ	14 J	82 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	89 U	87 U	94 U	84 UJ	10 J
Chrysene	UG/KG	110	33%	1000	0	39	119	14 J	14 J	94 U	22 J	82 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	89 U	87 U	94 U	84 UJ	5.2 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	89 UJ	87 UJ	94 UJ	84 UJ	82 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	89 U	87 U	94 U	84 UJ	82 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	89 UJ	87 UJ	94 UJ	84 UJ	82 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	18 J	16 J	94 U	28 J	82 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	89 U	87 U	94 U	84 UJ	82 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	89 U	87 U	94 U	12 J	82 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	89 U	87 U	94 U	84 UJ	82 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	89 U	87 U	94 U	84 UJ	82 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	11 J	10 J	94 U	12 J	82 UJ
Phenol	UG/KG	51	13%	330	0	16	119	18 J	24 J	94 U	84 UJ	82 UJ
Pyrene	UG/KG	230	52%	100000	3	62	119	21 J	20 J	94 U	36 J	82 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	65	62	NA	65	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SD57-21	SD57-22	SD57-5	SD57-15	SD57-12
								Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil
								573014	573015	573016	573017	573018
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							01/07/00	01/07/00	01/07/00	01/07/00	01/08/00	01/08/00
							SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	44 U	43 U	47 U	42 U	41 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	15900 J	15700 J	16400 J	14800 J	16700 J
Antimony	MG/KG	6.5	49%	0	0	58	119	0.55 U	0.56 U	0.57 U	0.5 UJ	0.54 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.1	5.7	5	6.3	3.3
Barium	MG/KG	237	100%	350	0	119	119	108	122	135	104	139
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.76 J	0.83 J	0.85 J	1 J	0.93 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.4 J	0.42 J	0.12 J	0.05 U	0.04 U
Calcium	MG/KG	213000	100%	0	0	119	119	3110	2830	3540	3770	3040
Chromium	MG/KG	32.1	100%	30	2	119	119	21.5	20.8	20.2	27 J	23.3 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.2 J	8.9 J	10.6 J	14.8	9.5 J
Copper	MG/KG	2930	92%	50	2	109	119	19.8	20.5	17.8	36.2	21.1
Iron	MG/KG	39800	100%	0	0	119	119	25400 J	22700 J	24500 J	33800	26100
Lead	MG/KG	1860	100%	63	2	119	119	21.1	24.7	15.7	20 J	14.1 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3930	3660	3870	5130	5920
Manganese	MG/KG	2580	100%	1600	5	119	119	307	461	707	292 J	420 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.09 J	0.08 J	0.08 J	0.08 J	0.08 J
Nickel	MG/KG	54.1	100%	30	37	119	119	24.5 J	23.5 J	21 J	39	35.2
Potassium	MG/KG	3250	100%	0	0	119	119	1910	1830	1910	1080 J	1680
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.8	0.72 J	1.9	0.8 J	0.77 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.33 UJ	0.34 UJ	0.29 UJ	0.44 J
Sodium	MG/KG	270	34%	0	0	41	119	75.3 J	73.5 U	75.3 U	89.8 J	57 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.7 J	3.8	3.3	1.2 J	1 J
Vanadium	MG/KG	104	99%	0	0	118	119	26.1	25.8	26	27	25.9
Zinc	MG/KG	1250	93%	109	11	111	119	87	83.8	68	98.6	73.9
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	11.3	13	19	12.5	10.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.34	0.09	0.18	0.01	0.09
Percent Solids	% WW	94	100%	0	0	101	101	73.6	76.4	70.4	79.3	79.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.43	7.65	6.93	7.83	7.31
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	31300	44600	27500	18200	36200

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-6 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	230 J	700 J	250 J	360 J	200 J
Benzene	UG/KG	1	2%	60	0	2	127	14 U	23 U	12 U	16 U	15 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	23 U	12 U	16 U	15 U
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	23 U	12 U	16 U	15 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	24	64	19	31	22
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	23 U	12 U	16 U	15 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	14 U	23 U	12 U	16 U	15 U
Toluene	UG/KG	33	65%	700	0	82	127	16	7 J	5 J	9 J	6 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	23 U	12 U	16 U	15 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	98 UJ	120 UJ	100 UJ	100 UJ	5.8 J
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	5.7 J	120 UJ	38 J	100 UJ	94 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	98 UJ	9.2 J	5.3 J	7 J	6.5 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	7.6 J	9.2 J	100 UJ	76 J	6.8 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	6 J	15 J	9.3 J	12 J	11 J
Fluorene	UG/KG	120	2%	30000	0	2	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	98 UJ	7.6 J	100 UJ	6.9 J	6.3 J
Phenol	UG/KG	51	13%	330	0	16	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Pyrene	UG/KG	230	52%	100000	3	62	119	5.2 J	15 J	8.9 J	11 J	10 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	139	116	111	67
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-6 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/08/00 SA	01/08/00 SA	01/08/00 SA	01/08/00 SA	01/09/00 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	49 U	62 U	51 U	51 U	47 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	13100 J	14500 J	16000 J	13400 J	13800 J
Antimony	MG/KG	6.5	49%	0	0	58	119	1.1 J	2.2 J	0.94 J	0.49 UJ	0.56 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.6	6.3	5.3	3.5	5.5
Barium	MG/KG	237	100%	350	0	119	119	87.8	132	105	92.3	96.2
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.82 J	0.99 J	1.1 J	0.75 J	0.96 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.16 J	0.05 U	0.04 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	4140	7380	3130	3440	2740
Chromium	MG/KG	32.1	100%	30	2	119	119	19.2 J	21.3 J	20 J	16.2 J	17.2 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.7 J	9.8 J	13.4 J	7.2 J	9.6 J
Copper	MG/KG	2930	92%	50	2	109	119	22.1	44.4	20.6	17.8	15.3
Iron	MG/KG	39800	100%	0	0	119	119	24500	37200	27300	18400	30100 J
Lead	MG/KG	1860	100%	63	2	119	119	25.7 J	33.2 J	28.7 J	25.3 J	24.1 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3880	4310	4130	3320	3140
Manganese	MG/KG	2580	100%	1600	5	119	119	271 J	292 J	737 J	320 J	619 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.12 J	0.15	0.12 J	0.12 J	0.07 U
Nickel	MG/KG	54.1	100%	30	37	119	119	26.9	28.8	24.3	18.3	16.2
Potassium	MG/KG	3250	100%	0	0	119	119	1310 J	1520 J	1280 J	986 J	1170 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.83 J	0.9 U	0.68 U	0.79 J	0.62 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.35 UJ	0.47 UJ	0.36 J	0.3 J	0.37 J
Sodium	MG/KG	270	34%	0	0	41	119	77.8 U	104 U	104 J	64.3 U	72 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.86 U	1.1 U	1.4 J	1.3 J	1.8 J
Vanadium	MG/KG	104	99%	0	0	118	119	23	27.1	29.8	25.1	29.3
Zinc	MG/KG	1250	93%	109	11	111	119	88.6	144	69.7	59.7	50.9
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	11	31.4	26.8	24.4	15.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.27	0.04	0.24	0.11	0.44
Percent Solids	% WW	94	100%	0	0	101	101	66.9	53.1	65.4	64.7	69.7
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.32	6.84	6.76	6.23	6.86
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	38300	70500	41900	35900	28000

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-28 Ditchsoil 573024	SEAD-57 SD57-29 Ditchsoil 573025	SEAD-57 SD57-30 Ditchsoil 573026	SEAD-57 SD57-10 Ditchsoil 573030	SEAD-57 SD57-9 Ditchsoil 573032
								0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	250 J	260 J	240 J	130 J	80
Benzene	UG/KG	1	2%	60	0	2	127	12 U	13 U	13 U	11 U	10 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	13 U	13 U	2 J	10 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	13 U	13 U	11 U	10 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	19	25	30	13	9 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	13 U	13 U	1 J	1 J
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	13 U	13 U	11 U	10 U
Toluene	UG/KG	33	65%	700	0	82	127	5 J	6 J	6 J	6 J	7 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	13 U	13 U	11 U	10 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	92 UJ	7.6 J	92 UJ	7 J	20 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	92 UJ	6.1 J	92 UJ	90 UJ	81 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Phenol	UG/KG	51	13%	330	0	16	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Pyrene	UG/KG	230	52%	100000	3	62	119	92 UJ	6 J	92 UJ	90 UJ	81 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SD57-28	SD57-29	SD57-30	SD57-10	SD57-9
								Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil
								573024	573025	573026	573030	573032
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							01/09/00	01/09/00	01/09/00	01/09/00	01/10/00	01/10/00
							SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	46 UJ	46 UJ	46 UJ	45 U	41 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14300 J	16100 J	14700 J	17100 J	9990 J
Antimony	MG/KG	6.5	49%	0	0	58	119	0.49 J	0.76 J	0.5 J	0.76 J	0.52 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.7	4.3	4.1	6.7	3.3
Barium	MG/KG	237	100%	350	0	119	119	74.5	118	85.7	162	88.5
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.74 J	1 J	0.82 J	1.3	0.59 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.05 U	0.04 U	0.46 J	0.9 J
Calcium	MG/KG	213000	100%	0	0	119	119	1580	3180	2050	2800	2540
Chromium	MG/KG	32.1	100%	30	2	119	119	18.8 J	19.7 J	18.8 J	24.2 J	14.2 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	7.6 J	12.1	8.8 J	29.7	6.2 J
Copper	MG/KG	2930	92%	50	2	109	119	14.8	20.1	17.5	21.7	16.6
Iron	MG/KG	39800	100%	0	0	119	119	25400 J	24600 J	23700 J	34800 J	17500 J
Lead	MG/KG	1860	100%	63	2	119	119	17.4 J	25.3 J	21.6 J	22.1 J	8.3 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3360	4210	3650	4780	3210
Manganese	MG/KG	2580	100%	1600	5	119	119	346 J	872 J	426 J	1620 J	253 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 U	0.07 U	0.06 U	0.07 J	0.06 U
Nickel	MG/KG	54.1	100%	30	37	119	119	17.2	21.6	21	31.7	19.5
Potassium	MG/KG	3250	100%	0	0	119	119	1030 J	1150 J	1150	1500	901 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.54 J	0.59 U	1.4	1.2	0.59 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 J	0.51 J	0.28 UJ	0.31 J	0.31 UJ
Sodium	MG/KG	270	34%	0	0	41	119	61.3 U	68 U	62.1 U	56.9 U	71.3 J
Thallium	MG/KG	6.7	82%	0	0	98	119	1 J	0.75 U	1.2 J	2.7	1.2 J
Vanadium	MG/KG	104	99%	0	0	118	119	28.1	30.1	27.5	33.1	20
Zinc	MG/KG	1250	93%	109	11	111	119	47.2	70.8	59	64.2	41.2
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	13.5	12	11.5	10.8	11.4
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.07	0.25	0.33	0.15	0.04
Percent Solids	% WW	94	100%	0	0	101	101	72	71.4	72.2	72.6	80.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	6.25	6.79	6.5	7	6.72
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	15000	22000	19200	23400	16400

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-19 Ditchsoil 573033	SEAD-57 SD57-20 Ditchsoil 573034	SEAD-57 SD57-1 Ditchsoil 573035	SEAD-57 SD57-25 Ditchsoil 573036	SEAD-57 SB57-1 SOIL 574013
								0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	83	84	170 J	100 J	300 J
Benzene	UG/KG	1	2%	60	0	2	127	11 U	11 U	17 U	12 U	11 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	11 U	17 U	2 J	22
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	11 U	17 U	12 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	10 J	7 J	15 J	13	32 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	11 U	11 U	17 U	12 U	11 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	11 U	11 U	17 U	12 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	6 J	2 J	13 J	9 J	2 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	11 U	17 U	12 U	11 UJ
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	100 UJ	6.3 J	110 UJ	88 UJ	84 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	14 J	10 J	7.2 J	4.7 J	84 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	25 J	13 J	8.9 J	5.9 J	84 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	18 J	14 J	9.3 J	5.4 J	84 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	14 J	7.8 J	110 UJ	88 UJ	84 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	20 J	13 J	9.2 J	6.7 J	84 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	100 UJ	13 J	110 UJ	88 UJ	84 U
Chrysene	UG/KG	110	33%	1000	0	39	119	28 J	19 J	9.5 J	7.2 J	84 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	18 J	13 J	6.5 J	4.7 J	84 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	35 J	25 J	15 J	9 J	84 U
Fluorene	UG/KG	120	2%	30000	0	2	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	11 J	6.3 J	110 UJ	88 UJ	84 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	23 J	17 J	8.7 J	4.8 J	84 U
Phenol	UG/KG	51	13%	330	0	16	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Pyrene	UG/KG	230	52%	100000	3	62	119	48 J	30 J	12 J	8.1 J	84 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	80	63	71	55	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SD57-19	SD57-20	SD57-1	SD57-25	SB57-1
								Ditchsoil	Ditchsoil	Ditchsoil	Ditchsoil	SOIL
								573033	573034	573035	573036	574013
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	2
							01/10/00	01/10/00	01/11/00	01/11/00	01/11/00	12/03/99
							SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	52 U	46 U	57 U	44 U	42 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	17800 J	16300 J	16200	14400	14200
Antimony	MG/KG	6.5	49%	0	0	58	119	1.1 J	0.75 J	0.68 U	0.56 U	1.1 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.6	4.7	4.4	8.5	4.9
Barium	MG/KG	237	100%	350	0	119	119	169	149	162	121	129
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1 J	0.96 J	0.95 J	0.96 J	0.7 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.16 J	0.17 J	0.63 J	0.05 U	0.07 J
Calcium	MG/KG	213000	100%	0	0	119	119	3670	3620	6110	14600	4090
Chromium	MG/KG	32.1	100%	30	2	119	119	25.2 J	24.4 J	22.8	18.7	21.3
Cobalt	MG/KG	29.7	100%	0	0	119	119	12	10.7 J	9.5 J	8.6 J	11.5
Copper	MG/KG	2930	92%	50	2	109	119	29.6	26.7	33.7	23.5	25.1
Iron	MG/KG	39800	100%	0	0	119	119	32200 J	29900 J	24600	23900	26100 J
Lead	MG/KG	1860	100%	63	2	119	119	28.6 J	22.2 J	30.4	22.9	20.4
Magnesium	MG/KG	27600	100%	0	0	119	119	5530	5180	4310	4310	4530
Manganese	MG/KG	2580	100%	1600	5	119	119	409 J	601 J	373	478	915
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 U	0.06 U	0.1 J	0.07 J	0.11 J
Nickel	MG/KG	54.1	100%	30	37	119	119	36.7	41.8	27	23.1	29.3
Potassium	MG/KG	3250	100%	0	0	119	119	1740	1520	2350	1650	1470 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.3	0.84 J	0.77 U	0.64 U	0.54 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 UJ	0.31 UJ	0.31 UJ	0.26 UJ	0.56 J
Sodium	MG/KG	270	34%	0	0	41	119	62.3 U	68.8 U	89.3 U	73.8 U	198 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.3 J	2.6	2.8 J	2.5 J	2.3
Vanadium	MG/KG	104	99%	0	0	118	119	32.7	27.4	28.3	26 UJ	23
Zinc	MG/KG	1250	93%	109	11	111	119	91.2	96.1	135	65.7	84.5
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	11.8	18	30	10.9	
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.14	0.22	0.22	0.08	0.15
Percent Solids	% WW	94	100%	0	0	101	101	64	71.2	57.8	75.3	78.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.35	6.99	6.63	7.65	
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	9580	31000	51900	16700	

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2	4	0	2	4
								12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	22 UJ	25 UJ	83 J	9 UJ	17 J
Benzene	UG/KG	1	2%	60	0	2	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Carbon disulfide	UG/KG	22	11%	0	0	14	127	2 J	9 U	10 U	9 UJ	1 J
Chloroform	UG/KG	7	1%	370	0	1	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	9 UJ	9 UJ	10 UJ	9 UR	9 UJ
Methylene chloride	UG/KG	1	2%	50	0	2	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	9 UJ	9 U	10 U	9 UR	9 UJ
Toluene	UG/KG	33	65%	700	0	82	127	9 UJ	9 U	10 U	1 J	9 UJ
Total Xylenes	UG/KG	2	2%	260	0	3	127	9 UJ	9 UJ	10 U	9 UJ	9 UJ
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	78 U	74 U	93 U	76 U	74 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	78 U	74 U	93 U	76 U	74 UJ
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	78 U	74 U	93 U	76 U	7.9 J
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	78 U	74 U	93 U	76 U	74 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	78 U	74 U	93 U	76 U	74 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	78 U	74 U	93 U	76 U	74 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	78 U	74 U	93 U	76 U	74 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	78 U	74 U	93 U	76 U	170 J
Chrysene	UG/KG	110	33%	1000	0	39	119	78 U	74 U	93 U	76 U	12 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	78 U	74 U	93 U	76 U	74 UJ
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	78 U	74 U	93 U	76 U	74 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	78 U	74 U	93 U	76 U	74 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	78 UJ	74 UJ	93 U	76 UJ	74 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	78 U	74 U	93 U	76 U	74 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	78 UJ	74 UJ	93 U	76 UJ	74 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	78 U	74 U	93 U	76 U	74 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	78 U	74 U	93 U	76 U	74 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	78 U	74 U	93 U	76 U	74 UJ
Phenol	UG/KG	51	13%	330	0	16	119	78 U	74 U	93 U	76 U	74 UJ
Pyrene	UG/KG	230	52%	100000	3	62	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA	NA	83
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2 U	1.9 U	2.4 U	2 U	1.9 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2	4	0	2	4
								4	6	2	4	6
								12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.2 J	1.9 U	2.4 U	2 U	1.9 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	39 U	37 U	46 U	38 U	37 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	13500	10700	13700	12500	11100
Antimony	MG/KG	6.5	49%	0	0	58	119	1.7 J	0.91 J	1.3 UR	1.1 UR	1.2 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	2.6	3.5	5.5	4.4	4.2
Barium	MG/KG	237	100%	350	0	119	119	121	42	105	84.8	68.9
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.63 J	0.48 J	0.62 J	0.62 J	0.48 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.06 U	0.05 U	0.08 U	0.07 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	75300	3240	3970	73900	68300
Chromium	MG/KG	32.1	100%	30	2	119	119	22.3	18.7	18.6	21.8	24.4
Cobalt	MG/KG	29.7	100%	0	0	119	119	6.9 J	11.1	9.5 J	11.4	8.7 J
Copper	MG/KG	2930	92%	50	2	109	119	26.6	27	23.1	33.9	20
Iron	MG/KG	39800	100%	0	0	119	119	24400 J	23100 J	23700 J	27200 J	19700 J
Lead	MG/KG	1860	100%	63	2	119	119	9.7	6.7	25	13.3	5.5
Magnesium	MG/KG	27600	100%	0	0	119	119	8530	4800	3480	11900	7490
Manganese	MG/KG	2580	100%	1600	5	119	119	178	550	508	314	330
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 J	0.09 J	0.11 J	0.06 J	0.05 J
Nickel	MG/KG	54.1	100%	30	37	119	119	35.1	33.1	19.5	41.5	29.1
Potassium	MG/KG	3250	100%	0	0	119	119	1350 J	1020 J	1750 J	1920 J	1680 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.45 U	0.48 UJ	0.75 J	0.53 U	0.51 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.41 J	0.37 J	0.58 J	0.5 J	0.36 J
Sodium	MG/KG	270	34%	0	0	41	119	163 U	149 U	230 U	194 U	270 J
Thallium	MG/KG	6.7	82%	0	0	98	119	1.2 J	2	2.4 J	2.1 J	1.3 J
Vanadium	MG/KG	104	99%	0	0	118	119	19.8	14.6	25.3	20.5	17.5
Zinc	MG/KG	1250	93%	109	11	111	119	90.7	75.2	82.9	135	70.2
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.14	0.38	0.39	0.1	0.12
Percent Solids	% WW	94	100%	0	0	101	101	84.4	89.1	71.1	86.8	89
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-3 SOIL 574007	SEAD-57 SB57-3 SOIL 574008	SEAD-57 SB57-3 SOIL 574009	SEAD-57 SB57-4 SOIL 574004	SEAD-57 SB57-4 SOIL 574005
								0 2 12/02/99 SA P1S1 RI	2 4 12/02/99 SA P1S1 RI	4 6 12/02/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	350 J	9 UJ	8 UJ	210 J	24 UJ
Benzene	UG/KG	1	2%	60	0	2	127	12 U	8 UJ	8 UJ	13 U	1 J
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	8 UJ	3 J	13 U	10 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	8 UJ	8 UJ	13 U	10 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	24	8 UJ	8 UJ	22 J	10 UJ
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	8 UJ	8 UJ	13 U	10 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Toluene	UG/KG	33	65%	700	0	82	127	2 J	8 UJ	8 UJ	13 U	2 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	8 UJ	8 UJ	13 U	1 J
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	98 U	73 U	70 U	82 U	76 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	98 U	73 U	70 U	82 U	76 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	98 U	73 U	70 U	82 U	76 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	98 U	73 U	70 U	82 U	76 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	98 U	73 U	70 U	82 U	76 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	98 U	73 U	70 U	82 U	76 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	98 U	73 U	70 U	82 U	76 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	98 U	73 U	70 U	82 U	76 U
Chrysene	UG/KG	110	33%	1000	0	39	119	98 U	73 U	70 U	82 U	76 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	98 U	73 U	70 U	82 U	76 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	98 U	73 U	70 U	82 U	76 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	98 U	73 U	70 U	82 U	76 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	98 U	73 U	70 UJ	82 U	76 U
Fluorene	UG/KG	120	2%	30000	0	2	119	98 U	73 U	70 U	82 U	76 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	98 U	73 U	70 UJ	82 U	76 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	75 J	9.2 J	70 U	82 U	76 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	98 U	73 U	70 U	82 U	76 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	98 U	73 U	70 U	82 U	76 U
Phenol	UG/KG	51	13%	330	0	16	119	98 U	73 U	70 U	82 U	76 U
Pyrene	UG/KG	230	52%	100000	3	62	119	98 U	73 UJ	70 UJ	82 UJ	76 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-3 SOIL 574007	SEAD-57 SB57-3 SOIL 574008	SEAD-57 SB57-3 SOIL 574009	SEAD-57 SB57-4 SOIL 574004	SEAD-57 SB57-4 SOIL 574005
								0	2	4	0	2
								2	4	6	2	4
								12/02/99 SA P1S1 RI	12/02/99 SA P1S1 RI	12/02/99 SA P1S1 RI	12/03/99 SA P1S1 RI	12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	49 U	37 U	35 U	41 U	38 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	16400	12500	18100	14800	10400
Antimony	MG/KG	6.5	49%	0	0	58	119	1.3 J	1.3 J	1 J	1 UR	1.1 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	6.3	3.7	6.3	4.7	3.7
Barium	MG/KG	237	100%	350	0	119	119	101	77.5	68.9	129	85.8
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.71 J	0.58 J	0.7 J	0.79 J	0.53 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.08 U	0.06 U	0.09 U	0.06 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	2590	27600	27000	22800	94000
Chromium	MG/KG	32.1	100%	30	2	119	119	22.5	19.6	32.1	22.4	17.2
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.5 J	11.1	18.8	11	9.4
Copper	MG/KG	2930	92%	50	2	109	119	26.5	32.3	36.1	29.8	24.5
Iron	MG/KG	39800	100%	0	0	119	119	32700 J	24900 J	39800 J	26100 J	21700 J
Lead	MG/KG	1860	100%	63	2	119	119	23.3	16.8	4.4	12.3	8.5
Magnesium	MG/KG	27600	100%	0	0	119	119	4090	6850	8610	13500	9870
Manganese	MG/KG	2580	100%	1600	5	119	119	640	520	451	493	492
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.13 J	0.09 J	0.07 J	0.1 J	0.07 J
Nickel	MG/KG	54.1	100%	30	37	119	119	20.3	36.7	53.8	41.1	31.1
Potassium	MG/KG	3250	100%	0	0	119	119	1430 J	1290 J	1530 J	1370 J	1410 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.72 J	0.48 U	0.34 U	0.5 J	0.43 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.62 J	0.52 J	0.42 J	0.57 J	0.4 J
Sodium	MG/KG	270	34%	0	0	41	119	219 U	174 U	124 U	179 U	157 U
Thallium	MG/KG	6.7	82%	0	0	98	119	2.6	2 J	3.1	0.59 U	2.3
Vanadium	MG/KG	104	99%	0	0	118	119	32.3	21.3	25	23.3	15.9
Zinc	MG/KG	1250	93%	109	11	111	119	73.3	93.4	113	77.9	76.8
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.22	0.13	0.07	1.4	0.19
Percent Solids	% WW	94	100%	0	0	101	101	67	89.7	94	80	85.6
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-4 SOIL 574006	SEAD-57 SB57-5 SOIL 574002	SEAD-57 SB57-5 SOIL 574022	SEAD-57 SB57-5 SOIL 574003	SEAD-57 SB57-6 SOIL 574019
								4 6 12/03/99 SA P1S1 RI	0 2 12/01/99 SA P1S1 RI	2 4 12/07/99 SA P1S1 RI	4 5.2 12/01/99 SA P1S1 RI	0 2 12/05/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	17 UJ	68 J	8 UJ	14 J	77 J
Benzene	UG/KG	1	2%	60	0	2	127	9 U	12 U	8 UJ	8 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	9 U	12 U	1 J	8 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	9 U	12 U	8 UJ	8 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	9 UJ	8 J	8 UR	8 U	8 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	9 U	12 U	8 UJ	8 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	9 U	12 U	8 UR	8 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	9 U	12 U	8 UR	8 U	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	9 UJ	12 U	8 UJ	8 U	12 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	72 U	86 U	75 U	74 U	4.5 J
4-Methylphenol	UG/KG	13	3%	330	0	3	119	72 UJ	86 UJ	75 UJ	74 UJ	4.9 J
Anthracene	UG/KG	8.2	3%	100000	0	3	119	72 U	86 U	75 U	74 U	90 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	72 U	86 U	75 U	74 U	10 J
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	72 U	86 U	75 U	74 U	90 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	72 U	86 U	75 U	74 U	90 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	72 U	86 U	75 U	74 U	90 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	72 U	86 U	75 U	74 U	90 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	72 U	86 U	75 U	74 U	82 J
Chrysene	UG/KG	110	33%	1000	0	39	119	72 U	86 U	75 U	74 U	10 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	72 U	86 U	75 U	74 U	90 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	72 U	86 U	75 U	74 U	90 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	72 U	86 U	75 U	74 U	90 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	72 UJ	86 UJ	75 UJ	74 UJ	90 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	72 U	86 U	75 U	74 U	10 J
Fluorene	UG/KG	120	2%	30000	0	2	119	72 U	86 U	75 U	74 U	90 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	72 U	86 U	75 U	74 U	90 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	72 U	86 U	75 U	74 U	90 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	72 U	86 U	75 U	74 U	90 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	72 U	86 U	75 U	74 U	10 J
Phenol	UG/KG	51	13%	330	0	16	119	72 U	86 U	75 U	74 U	90 U
Pyrene	UG/KG	230	52%	100000	3	62	119	72 UJ	86 UJ	75 UJ	74 UJ	9.9 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA	NA	101
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-4	SB57-5	SB57-5	SB57-5	SB57-6
								SOIL	SOIL	SOIL	SOIL	SOIL
								574006	574002	574022	574003	574019
								4	0	2	4	0
								6	2	4	5.2	2
								12/03/99	12/01/99	12/07/99	12/01/99	12/05/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	36 U	43 U	38 U	37 U	45 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	11300	15600	15400	12200	16400
Antimony	MG/KG	6.5	49%	0	0	58	119	0.83 J	1.1 UR	1.5 J	1.5 J	0.73 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.3	4.2	5.6	3.3	4.5
Barium	MG/KG	237	100%	350	0	119	119	64	93.6	62.7	38.4	126
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.53 J	0.69 J	0.66 J	0.56 J	1.1 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.06 U	0.06 U	0.05 U	0.06 U
Calcium	MG/KG	213000	100%	0	0	119	119	77400	8570	17800	12400	5590
Chromium	MG/KG	32.1	100%	30	2	119	119	19.3	23.9	25.2	21.9	22.2
Cobalt	MG/KG	29.7	100%	0	0	119	119	13.8	10.8 J	17	12.4	11.7 J
Copper	MG/KG	2930	92%	50	2	109	119	24.8	20.9	26.1	18.3	25.8
Iron	MG/KG	39800	100%	0	0	119	119	25700 J	28700 J	32300	25500 J	28700
Lead	MG/KG	1860	100%	63	2	119	119	10.1	18.5	7.9 J	3.6	21.5 J
Magnesium	MG/KG	27600	100%	0	0	119	119	10300	4470	7560	5910	4330
Manganese	MG/KG	2580	100%	1600	5	119	119	573	555	543	427	644
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 J	0.09 J	0.04 U	0.06 J	0.09 J
Nickel	MG/KG	54.1	100%	30	37	119	119	39.2	26.7	44.5	34.9	33.4
Potassium	MG/KG	3250	100%	0	0	119	119	1370 J	1580 J	1230	1080 J	1250
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.45 J	0.71 J	0.51 U	0.37 U	0.56 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.44 J	0.43 J	0.49 J	0.27 J	0.31 UJ
Sodium	MG/KG	270	34%	0	0	41	119	128 U	190 U	187 U	161 J	108 J
Thallium	MG/KG	6.7	82%	0	0	98	119	2 J	0.94 J	1 J	1.3 J	2.4
Vanadium	MG/KG	104	99%	0	0	118	119	16.7	26.6	20.7	16	29.8
Zinc	MG/KG	1250	93%	109	11	111	119	116	77.3	98.3	71.5	100
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.05	2.9	0.11	0.1	0.07
Percent Solids	% WW	94	100%	0	0	101	101	91.5	76.3	88.2	88.8	73.1
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-6 SOIL 574020	SEAD-57 SB57-6 SOIL 574021	SEAD-57 SB57-7 SOIL 574016	SEAD-57 SB57-7 SOIL 574017	SEAD-57 SB57-7 SOIL 574018
								2 4 12/05/99 SA P1S1 RI	4 6 12/05/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	8 U	15 J	160 J	11 UJ	28 UJ
Benzene	UG/KG	1	2%	60	0	2	127	1 J	9 U	10 U	9 UJ	8 UJ
Carbon disulfide	UG/KG	22	11%	0	0	14	127	8 U	9 U	10 U	0.9 J	4 J
Chloroform	UG/KG	7	1%	370	0	1	127	8 U	9 U	10 U	9 UJ	8 UJ
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	8 UJ	9 U	15 J	9 UR	8 UJ
Methylene chloride	UG/KG	1	2%	50	0	2	127	8 U	9 U	10 U	9 UJ	8 UJ
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	8 UJ	9 U	10 U	9 UR	8 UJ
Toluene	UG/KG	33	65%	700	0	82	127	1 J	9 U	10 U	9 UR	8 UJ
Total Xylenes	UG/KG	2	2%	260	0	3	127	2 J	9 UJ	10 UJ	9 UJ	8 UJ
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	74 U	74 U	780 U	3.7 J	74 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	74 U	74 U	780 UJ	85 UJ	74 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	74 U	74 U	780 U	85 U	74 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	74 U	74 U	780 U	85 U	74 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	74 U	74 U	780 U	85 U	74 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	74 U	74 U	780 U	85 U	74 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	74 U	74 U	780 U	85 U	74 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	74 U	74 U	780 U	85 U	74 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	32 J	74 UJ	3400	85 U	74 U
Chrysene	UG/KG	110	33%	1000	0	39	119	74 U	74 U	780 U	85 U	74 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	74 U	74 U	780 U	85 U	74 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	74 UJ	74 UJ	780 U	85 U	74 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	74 UJ	74 UJ	780 U	85 U	74 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	74 UJ	74 UJ	780 UJ	8.8 J	74 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	74 U	74 U	780 U	85 U	74 U
Fluorene	UG/KG	120	2%	30000	0	2	119	74 U	74 U	780 U	85 U	74 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	74 U	74 U	780 U	85 U	74 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	74 U	74 U	780 U	85 U	74 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	74 U	74 U	780 U	85 U	74 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	74 U	74 U	780 U	85 U	74 U
Phenol	UG/KG	51	13%	330	0	16	119	74 U	74 U	780 U	51 J	74 U
Pyrene	UG/KG	230	52%	100000	3	62	119	74 U	74 U	780 UJ	85 UJ	74 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.7 U	3.7 U	1.7 J	4.3 U	3.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	3.7 U	3.7 U	2.8 J	4.3 U	3.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.7 U	3.7 U	5	4.3 U	3.7 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.9 U	1.9 U	1.1 J	2.2 U	1.9 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-6	SB57-6	SB57-7	SB57-7	SB57-7
								SOIL	SOIL	SOIL	SOIL	SOIL
								574020	574021	574016	574017	574018
								2	4	0	2	4
								4	6	2	4	6
								12/05/99	12/05/99	12/03/99	12/03/99	12/03/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	37 U	37 U	39 U	43 U	37 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12300	14900	9910	12600	13600
Antimony	MG/KG	6.5	49%	0	0	58	119	0.61 J	0.82 J	1.4 J	1.3 J	2.5 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.5	4.6	3.7 J	4.9 J	5 J
Barium	MG/KG	237	100%	350	0	119	119	66.5	62	49.9	78.2	84.3
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.8 J	0.93 J	0.45 J	0.58 J	0.58 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.06 U	0.05 U	0.07 U	0.07 U
Calcium	MG/KG	213000	100%	0	0	119	119	60600	2580	8920	81800	63700
Chromium	MG/KG	32.1	100%	30	2	119	119	22.4	27.4	17.4	20.7	23.4
Cobalt	MG/KG	29.7	100%	0	0	119	119	13.1	14.9	10.6	12.5	12.2
Copper	MG/KG	2930	92%	50	2	109	119	27.1	19.4	52.7	32.8	26.4
Iron	MG/KG	39800	100%	0	0	119	119	27900	34400	21200	25700	28000
Lead	MG/KG	1860	100%	63	2	119	119	9.8 J	4.4 J	45.1	13.8	4.4
Magnesium	MG/KG	27600	100%	0	0	119	119	14300	6740	4410	11600	14500
Manganese	MG/KG	2580	100%	1600	5	119	119	483	555	332	362	415
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.08 J	0.1 J	0.07 J	0.13 J	0.04 J
Nickel	MG/KG	54.1	100%	30	37	119	119	42.9	45.7	36.7	39.1	37.9
Potassium	MG/KG	3250	100%	0	0	119	119	1180	1180	1350 J	1940 J	1820 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.44 UJ	0.5 UJ	0.41 U	0.59 U	0.54 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 UJ	0.29 UJ	0.55 J	0.42 J	0.36 U
Sodium	MG/KG	270	34%	0	0	41	119	214 J	155 J	150 U	213 U	196 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.6 J	1.7 J	2.3	0.71 U	2.7 J
Vanadium	MG/KG	104	99%	0	0	118	119	19.7	20.2	23.7	19.9	19.8
Zinc	MG/KG	1250	93%	109	11	111	119	120	107	133	99.6	85.5
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.59	1.4	0.06	0.22	1.1
Percent Solids	% WW	94	100%	0	0	101	101	88.7	88.8	85.4	77.4	89.5
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-1 SOIL	SS57-1 SOIL	SS57-10 SOIL	SS57-11 SOIL	SS57-12 SOIL
								574023	574024	574025	574026	574027
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								10/26/93	12/08/93	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	13 U	14 U	76 J	160 J	170 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	14 U	11 U	14 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	14 U	11 UJ	14 UJ	13 UJ
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	14 U	11 U	14 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	13 U	14 U	10 J	15 J	18 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	14 U	11 UJ	14 UJ	13 UJ
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	2 J	14 U	11 U	14 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	13 U	14 U	8 J	8 J	10 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	14 U	11 U	14 U	13 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	420 U		86 UJ	93 UJ	94 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	420 U		86 U	93 U	94 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	420 U		86 U	93 U	94 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	420 U		86 U	93 U	94 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	420 U		86 U	93 U	94 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	420 U		86 U	93 U	94 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	420 U		86 U	6.5 J	5.4 J
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	420 U		86 UJ	93 UJ	94 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	480 U		86 U	93 U	94 U
Chrysene	UG/KG	110	33%	1000	0	39	119	420 U		86 U	93 UJ	94 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	420 U		86 UJ	5 J	94 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	420 U		86 UJ	93 UJ	94 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	420 U		86 U	4.2 J	94 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	420 U		86 U	93 UJ	94 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	420 U		11 J	6.9 J	5.9 J
Fluorene	UG/KG	120	2%	30000	0	2	119	420 U		86 U	93 U	94 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	420 U		86 U	6.8 J	6 J
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	420 U		86 U	93 U	94 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	420 U		86 UJ	93 UJ	94 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	420 U		5.9 J	6.5 J	3.6 J
Phenol	UG/KG	51	13%	330	0	16	119	420 U		86 U	93 U	94 U
Pyrene	UG/KG	230	52%	100000	3	62	119	420 U		11 J	6.3 J	4.8 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA		NA	62	105
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.3 U		4.3 U	4.6 U	4.6 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.3 U		4.3 U	4.6 U	4.6 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.3 U		4.3 U	4.6 U	4.6 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.2 U		2.2 U	2.4 U	2.4 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-1 SOIL SS57-1-1	SEAD-57 SS57-1 SOIL SS57-1-2	SEAD-57 SS57-10 SOIL 574023	SEAD-57 SS57-11 SOIL 574024	SEAD-57 SS57-12 SOIL 574025
								0 0.2 10/26/93 SA P1S1 RI	0 0.2 12/08/93 SA P1S1 RI	0 0.2 12/19/99 SA P1S1 RI	0 0.2 12/19/99 SA P1S1 RI	0 0.2 12/19/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.2 U		2.2 U	2.4 U	2.4 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	24 J		43 U	46 U	46 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.2 U		2.2 U	2.4 U	2.4 U
Dieldrin	UG/KG	27	6%	5	5	7	119	26 J		4.3 U	10 J	4.6 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.2 U		2.2 U	2.4 U	2.4 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.3 U		4.3 U	4.6 U	4.6 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.3 U		4.3 U	4.6 U	4.6 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.3 U		4.3 U	4.6 U	4.6 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.2 U		2.2 U	2.4 U	2.4 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.2 U		2.2 U	2.4 U	2.4 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12000		12100	14400	15400
Antimony	MG/KG	6.5	49%	0	0	58	119	11.9 UJ		0.66 J	0.85 J	0.81 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.8 UR		4.1	4.2	5.4
Barium	MG/KG	237	100%	350	0	119	119	82.4		74.2	81.4	122
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.56 J		0.76 J	0.9 J	1.4
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.74 U		0.05 U	0.05 U	0.06 U
Calcium	MG/KG	213000	100%	0	0	119	119	2770		11900	2990	3800
Chromium	MG/KG	32.1	100%	30	2	119	119	15.7		17	20.7	18.6
Cobalt	MG/KG	29.7	100%	0	0	119	119	8.4 J		9.4 J	10.4 J	9.9 J
Copper	MG/KG	2930	92%	50	2	109	119	10.9		26.4	17.4	16.7
Iron	MG/KG	39800	100%	0	0	119	119	19300		19900	25100	24000
Lead	MG/KG	1860	100%	63	2	119	119	24		24.4 J	19.6 J	22.2 J
Magnesium	MG/KG	27600	100%	0	0	119	119	2680		3820 J	4270 J	3350 J
Manganese	MG/KG	2580	100%	1600	5	119	119	592		486	599	1260
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 J		0.06 U	0.06 U	0.08 J
Nickel	MG/KG	54.1	100%	30	37	119	119	14.3		24	23.9	18.4
Potassium	MG/KG	3250	100%	0	0	119	119	892 J		1130 J	1220 J	1300 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.26 UJ		1.6 J	0.81 J	1.9 J
Silver	MG/KG	1.7	38%	2	0	45	119	1.7 J		0.34 J	0.35 UJ	0.37 UJ
Sodium	MG/KG	270	34%	0	0	41	119	56.7 J		73.4 U	77 U	81.4 U
Thallium	MG/KG	6.7	82%	0	0	98	119	0.28 U		2 J	3.5	4.1
Vanadium	MG/KG	104	99%	0	0	118	119	24.6		23.2	24.5	29.4
Zinc	MG/KG	1250	93%	109	11	111	119	45.2 UR		67.1	66.3	56.4
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101			0.53	0.35	0.63
Percent Solids	% WW	94	100%	0	0	101	101			77.2	70.8	69.6
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-13	SS57-14	SS57-15	SS57-16	SS57-17
								SOIL	SOIL	SOIL	SOIL	SOIL
								574026	574027	574028	574029	574030
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	140 J	270 J	280 J	110 J	270 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	12 U	13 U	12 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 UJ	12 UJ	13 U	12 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	12 U	13 U	12 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	17 J	25 J	20	11 J	20
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 UJ	12 UJ	13 U	12 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	12 U	13 U	12 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	6 J	7 J	8 J	4 J	5 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	12 U	13 U	12 U	13 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	90 U	86 U	85 U	87 U	89 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	90 U	86 U	85 U	87 U	89 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	90 U	86 U	85 U	87 U	89 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	90 U	86 U	85 U	87 U	89 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	90 U	86 U	85 U	87 U	89 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	90 U	6.8 J	6.4 J	87 U	89 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	90 U	86 U	85 U	87 U	89 U
Chrysene	UG/KG	110	33%	1000	0	39	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	90 U	86 U	85 U	87 U	89 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	90 U	86 U	85 U	87 U	89 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	4.8 J	10 J	10 J	7.9 J	4.6 J
Fluorene	UG/KG	120	2%	30000	0	2	119	90 U	86 U	85 U	87 U	89 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	90 U	6.7 J	7.1 J	87 U	89 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	90 U	86 U	85 U	87 U	89 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	90 U	6.7 J	6.8 J	5.7 J	89 U
Phenol	UG/KG	51	13%	330	0	16	119	90 U	86 U	85 U	8.3 J	5.9 J
Pyrene	UG/KG	230	52%	100000	3	62	119	4.3 J	9.9 J	8.9 J	7.5 J	4 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	96	95	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18	SS57-19	SS57-2	SS57-2	SS57-20
								SOIL	SOIL	SOIL	SOIL	SOIL
								574031	574032	SS57-2-1	SS57-2-2	574033
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	10/26/93	12/08/93	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	120 J	170 J	12 U	13 U	220 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	11 U	12 U	13 U	11 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	11 U	12 U	13 U	11 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	11 U	12 U	13 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	12	16	12 U	13 U	18
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	11 U	12 U	13 U	11 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	11 U	2 J	13 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	4 J	4 J	12 U	13 U	27
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	11 U	12 U	13 U	11 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	87 UJ	84 UJ	410 U		85 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	87 U	84 U	410 U		85 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	87 U	84 U	410 U		85 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	87 U	84 U	410 U		85 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	87 U	84 U	410 U		85 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	87 U	84 U	410 U		85 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	87 U	84 U	410 U		85 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	87 UJ	6.9 UJ	410 U		85 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	87 U	84 U	410 U		85 U
Chrysene	UG/KG	110	33%	1000	0	39	119	87 UJ	84 UJ	410 U		85 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	87 U	84 U	410 U		4.1 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	87 UJ	84 UJ	410 U		85 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	87 U	84 U	410 U		85 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	87 UJ	84 U	410 U		85 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	4.1 J	4.7 J	410 U		85 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	87 U	84 U	410 U		85 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	87 U	84 U	410 U		85 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	87 U	84 U	410 U		85 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	87 UJ	84 UJ	410 U		85 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	87 U	84 U	410 U		85 U
Phenol	UG/KG	51	13%	330	0	16	119	87 U	84 U	410 U		5.4 J
Pyrene	UG/KG	230	52%	100000	3	62	119	7.6 J	6.4 J	410 U		4.6 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA		NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.3 U	4.2 U	4.1 U		4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.3 U	4.2 U	4.1 U		4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.3 U	4.2 U	4.1 U		4.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.2 U	2.2 U	2.1 U		2.2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18 SOIL 574031	SS57-19 SOIL 574032	SS57-2 SOIL 574031	SS57-2 SOIL 574032	SS57-20 SOIL 574033
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	10/26/93	12/08/93	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.2 U	2.2 U	2.1 U		2.8
Aroclor-1260	UG/KG	27	2%	100	0	2	119	43 U	42 U	41 U		42 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.2 U	2.2 U	2.1 U		2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.4 J	4.2 U	9.5		4.3 J
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.2 U	2.2 U	2.1 U		2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.3 U	4.2 U	4.1 U		4.2 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.3 U	4.2 U	4.1 U		4.2 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.3 U	4.2 U	4.1 U		4.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.2 U	2.2 U	2.1 U		2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.2 U	2.2 U	2.1 U		2.2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12600	12600	17300		13400
Antimony	MG/KG	6.5	49%	0	0	58	119	1.6 J	0.62 J	11.8 UJ		0.54 UR
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.1 J	2.7	4.6 UR		3.4
Barium	MG/KG	237	100%	350	0	119	119	98.4	74.1	65.8		76.2
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1.1 J	0.72 J	0.62 J		1 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.04 U	0.74 U		0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	1750	1010	1950		835 J
Chromium	MG/KG	32.1	100%	30	2	119	119	15.5	14.3	24.2		16.1
Cobalt	MG/KG	29.7	100%	0	0	119	119	15.3	9.4 J	9.6 J		12.8
Copper	MG/KG	2930	92%	50	2	109	119	13.3	12.6	18.3		12.5
Iron	MG/KG	39800	100%	0	0	119	119	23500	16600	28400		20000
Lead	MG/KG	1860	100%	63	2	119	119	23.5 J	19.9 J	17.7		18.8 J
Magnesium	MG/KG	27600	100%	0	0	119	119	2330 J	2530 J	4580		2510 J
Manganese	MG/KG	2580	100%	1600	5	119	119	1400	556	319		1160
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.08 J	0.08 J	0.04 J		0.06 J
Nickel	MG/KG	54.1	100%	30	37	119	119	13.3	14.3	27.3		16.9
Potassium	MG/KG	3250	100%	0	0	119	119	990 J	913 J	1240		961 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.5 J	1.4 J	0.21 UJ		1.4 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.36 J	1.5 UJ		0.32 UJ
Sodium	MG/KG	270	34%	0	0	41	119	70.3 U	62.5 U	44.5 J		71 U
Thallium	MG/KG	6.7	82%	0	0	98	119	3.8	3.6	0.23 U		3.8
Vanadium	MG/KG	104	99%	0	0	118	119	26	22.3	28.6		23.6
Zinc	MG/KG	1250	93%	109	11	111	119	50.4	57.6	70.6 UR		55
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.93	0.38			0.04
Percent Solids	% WW	94	100%	0	0	101	101	76.1	78.4			77.5
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-21 SOIL 574034	SEAD-57 SS57-22 SOIL 574035	SEAD-57 SS57-23 SOIL 574036	SEAD-57 SS57-24 SOIL 574037	SEAD-57 SS57-25 SOIL 574038
								0 0.2 12/19/99 SA P1S1 RI	0 0.2 12/19/99 SA P1S1 RI	0 0.2 12/19/99 SA P1S1 RI	0 0.2 12/19/99 SA P1S1 RI	0 0.2 12/19/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	210 J	200 J	63 J	280 J	190 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	11 U	13 U	16 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	11 U	13 U	16 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	11 U	13 U	16 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	22	20	6 J	35	17
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	11 U	13 U	16 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	11 U	13 U	16 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	4 J	4 J	5 J	16 U	14
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	11 U	13 U	16 U	13 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	86 UJ	85 UJ	88 UJ	98 U	90 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	86 U	85 U	88 U	98 U	90 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	86 U	85 U	88 U	98 U	90 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	86 U	85 U	88 U	9.8 J	7.1 J
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	86 U	85 U	88 U	98 U	90 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	86 U	85 U	88 U	14 J	10 J
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	9.2 J	85 U	88 U	10 J	90 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	86 UJ	85 UJ	88 UJ	12 J	9.9 J
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	86 U	85 U	88 U	98 U	41 J
Chrysene	UG/KG	110	33%	1000	0	39	119	86 UJ	85 UJ	88 UJ	12 J	7.7 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	86 U	85 U	4.7 J	7 J	13 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	86 UJ	85 UJ	88 UJ	98 UJ	90 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	86 U	85 U	88 U	6.4 J	90 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	86 U	85 U	88 U	98 UJ	90 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	20 J	4.5 J	4.9 J	15 J	9.8 J
Fluorene	UG/KG	120	2%	30000	0	2	119	86 U	85 U	88 U	98 U	90 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	9.8 J	85 U	88 U	9.6 J	90 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	86 U	85 U	88 U	98 U	90 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	86 UJ	85 UJ	88 UJ	98 U	90 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	11 J	85 U	88 U	8.1 J	4.8 J
Phenol	UG/KG	51	13%	330	0	16	119	86 U	6.9 J	8.1 J	98 UJ	90 U
Pyrene	UG/KG	230	52%	100000	3	62	119	19 J	7.4 J	10 J	14 J	11 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	96	NA	NA	59	96
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.3 U	4.2 U	4.3 U	5.4 J	4.5 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.3 U	4.2 U	4.3 U	5.4 J	4.5 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-21	SS57-22	SS57-23	SS57-24	SS57-25
								SOIL	SOIL	SOIL	SOIL	SOIL
								574034	574035	574036	574037	574038
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							12/19/99	12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
							SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.2 U	2.2 U	2.2 U	5.2	2.3 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	43 U	42 U	43 U	49 U	45 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.2 U	2.2 U	2.2 U	5.2 J	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.3 U	4.2 U	4.3 U	3.1 J	4.5 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12100	14400	10700	16900	15000
Antimony	MG/KG	6.5	49%	0	0	58	119	1.3 J	0.68 J	0.52 UR	0.58 UR	0.86 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.1 J	4.2	3.5 J	4.2	4.3
Barium	MG/KG	237	100%	350	0	119	119	93.5	79.6	53	164	139
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.76 J	0.91 J	0.53 J	1.4	1.2
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	6	0.05 U	0.05 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	1470	1490	2100	4110	2410
Chromium	MG/KG	32.1	100%	30	2	119	119	15.1	18.7	11.9	22.8 J	19.8 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	6.5 J	11.4 J	6.6 J	12.4 J	13.5
Copper	MG/KG	2930	92%	50	2	109	119	10	14	13.4	22	15
Iron	MG/KG	39800	100%	0	0	119	119	20300	23800	15000	27100 J	26700 J
Lead	MG/KG	1860	100%	63	2	119	119	20.9 J	66.8 J	16.1 J	24.5	24.3
Magnesium	MG/KG	27600	100%	0	0	119	119	2590 J	2970 J	2080 J	3750	3170
Manganese	MG/KG	2580	100%	1600	5	119	119	454	746	306	1040 J	1180 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.1 J	0.07 J	0.06 J	0.12	0.11 J
Nickel	MG/KG	54.1	100%	30	37	119	119	13.5	20.7	11.9	27.9 J	20.3 J
Potassium	MG/KG	3250	100%	0	0	119	119	1100 J	1060 J	768 J	1660	1280
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.69 J	0.74 J	0.59 U	1 J	1.3 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.29 UJ	0.32 UJ	0.31 UJ	0.34 UJ	0.3 UJ
Sodium	MG/KG	270	34%	0	0	41	119	65.2 U	70.4 U	68 U	76.7 U	65.7 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.7 J	2.9	0.75 U	3.7	4.9
Vanadium	MG/KG	104	99%	0	0	118	119	24.5	27.4	19	29.7	29.4
Zinc	MG/KG	1250	93%	109	11	111	119	55.3	65.5	51.8	82.3 J	65.4 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.01	0.04	0.32	0.57 J	0.3 J
Percent Solids	% WW	94	100%	0	0	101	101	77.1	78.2	74.6	66.7	73.3
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-27 SOIL 574041	SS57-27 SOIL 574040	SS57-28 SOIL 574042	SS57-29 SOIL 574043	SS57-3 SOIL 574043
								12/20/99 DU P1S1 RI	12/20/99 SA P1S1 RI	12/20/99 SA P1S1 RI	12/20/99 SA P1S1 RI	10/26/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	340 J	260 J	220 J	110 J	12 U
Benzene	UG/KG	1	2%	60	0	2	127	13 U	13 U	14 U	12 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	13 U	14 U	12 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	13 U	14 U	12 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	23	17	16	12 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	13 U	14 U	12 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	13 U	14 U	12 U	2 J
Toluene	UG/KG	33	65%	700	0	82	127	32 J	11 J	22	5 J	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	1 J	13 U	14 U	12 U	12 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	90 U	88 UJ	86 U	87 U	420 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	90 U	88 U	86 U	87 U	420 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	90 U	88 U	86 U	87 U	420 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	8.4 J	88 U	6.3 J	87 U	420 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	90 U	88 U	86 U	87 U	420 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	11 J	88 U	11 J	6.3 J	420 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	90 U	88 U	86 U	87 U	420 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	7.5 J	88 UJ	6.6 J	5.9 J	420 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	20 J	88 U	18 J	11 J	420 U
Chrysene	UG/KG	110	33%	1000	0	39	119	12 J	88 UJ	8.1 J	5.4 J	420 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	170 J	6.9 J	160	120	420 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	90 UJ	88 UJ	86 UJ	87 UJ	420 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	90 U	88 U	86 U	87 U	420 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	90 UJ	2.6 J	86 UJ	87 UJ	420 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	9.1 J	5.1 J	11 J	7.7 J	420 U
Fluorene	UG/KG	120	2%	30000	0	2	119	90 U	88 U	86 U	87 U	420 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	90 U	88 U	86 U	87 U	420 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	90 U	88 U	86 U	87 U	420 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	90 U	88 UJ	86 U	87 U	420 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	5.6 J	88 U	7.4 J	3.7 J	420 U
Phenol	UG/KG	51	13%	330	0	16	119	90 U	7.2 J	86 U	87 U	420 U
Pyrene	UG/KG	230	52%	100000	3	62	119	12 J	8.8 J	12 J	8.4 J	420 U
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	97	NA	92	96	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.5 UJ	9.1 J	4.3 U	4.4 U	4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-3 SOIL 574000	SEAD-57 SS57-30 SOIL 574001	SEAD-57 SS57-30 SOIL 574000	SEAD-57 SS57-31 SOIL 574044	SEAD-57 SS57-32 SOIL 574045
								0 0.2 12/08/93 SA P1S1 RI	0 0.2 11/30/99 DU P1S1 RI	0 0.2 11/30/99 SA P1S1 RI	0 0.2 12/20/99 SA P1S1 RI	0 0.2 12/20/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	13 U	280 J	240 J	100 J	160 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	15 U	17 U	13 U	10 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	15 U	17 U	13 U	10 U
Chloroform	UG/KG	7	1%	370	0	1	127	7 J	15 U	17 U	13 U	10 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	13 U	26 J	27 J	13 UJ	12
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	15 U	17 U	13 U	10 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	15 U	17 U	13 U	10 U
Toluene	UG/KG	33	65%	700	0	82	127	13 U	15 U	17 U	11 J	33
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	15 U	17 U	13 U	10 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119		90 U	87 U	90 U	84 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119		90 UJ	87 UJ	90 U	84 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119		90 U	87 U	90 U	84 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119		90 U	87 U	90 U	84 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119		90 U	87 U	90 U	84 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119		90 U	87 U	90 U	84 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119		90 U	87 U	90 U	84 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119		90 U	87 U	90 UJ	84 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119		90 U	87 U	90 U	84 U
Chrysene	UG/KG	110	33%	1000	0	39	119		90 U	87 U	5 J	84 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119		90 U	87 U	99	110
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119		90 U	87 U	90 UJ	84 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119		90 U	87 U	90 U	84 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119		90 UJ	87 UJ	90 UJ	84 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119		90 U	87 UJ	7.4 J	4.8 J
Fluorene	UG/KG	120	2%	30000	0	2	119		90 U	87 U	90 U	84 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119		90 U	87 UJ	90 U	84 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119		90 U	87 U	90 U	84 U
Naphthalene	UG/KG	180	1%	12000	0	1	119		90 U	87 U	90 U	84 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119		90 U	87 U	90 U	84 U
Phenol	UG/KG	51	13%	330	0	16	119		90 U	87 U	90 U	84 U
Pyrene	UG/KG	230	52%	100000	3	62	119		90 UJ	87 UJ	7.9 J	5.8 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119		NA	NA	104	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119		4.5 U	4.4 U	4.5 U	4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119		4.5 U	4.4 U	4.5 U	4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119		4.5 U	4.4 U	4.5 U	4.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119		2.3 U	2.3 U	2.3 U	2.2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-3 SOIL 574000	SS57-30 SOIL 574001	SS57-30 SOIL 574000	SS57-31 SOIL 574044	SS57-32 SOIL 574045
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93 SA	11/30/99 DU	11/30/99 SA	12/20/99 SA	12/20/99 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 J	2.2 J	2.3 U	2.2 U	2.2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	45 U	44 U	45 U	42 U	42 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	11900	12100	13700	10200	10200
Antimony	MG/KG	6.5	49%	0	0	58	119	0.92 UR	1.2 J	0.56 UR	0.5 UR	0.5 UR
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.2	5.3 J	3.9	1.6 J	1.6 J
Barium	MG/KG	237	100%	350	0	119	119	103	115	136	64.7	64.7
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.7 J	0.72 J	0.8 J	0.55 J	0.55 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.06 U	0.07 U	0.05 U	0.05 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	4070	4100	3130	2070	2070
Chromium	MG/KG	32.1	100%	30	2	119	119	16.4	16.8	16.8 J	12 J	12 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	8 J	11.4 J	6 J	5.4 J	5.4 J
Copper	MG/KG	2930	92%	50	2	109	119	21.9	21.6	14.9	10.1	10.1
Iron	MG/KG	39800	100%	0	0	119	119	20500 J	22400	20300 J	15100 J	15100 J
Lead	MG/KG	1860	100%	63	2	119	119	21.9	22.6	13.8	12.4	12.4
Magnesium	MG/KG	27600	100%	0	0	119	119	3130	3180	3040	2230	2230
Manganese	MG/KG	2580	100%	1600	5	119	119	376 J	725 J	246 J	180 J	180 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.1 J	0.11 J	0.1 J	0.11 J	0.11 J
Nickel	MG/KG	54.1	100%	30	37	119	119	18.3	19.1	17.3 J	12 J	12 J
Potassium	MG/KG	3250	100%	0	0	119	119	1360 J	1450 J	1140 J	774 J	774 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.45 U	0.57 U	1 J	0.57 UJ	0.57 UJ
Silver	MG/KG	1.7	38%	2	0	45	119	0.53 J	0.52 J	0.33 UJ	0.3 UJ	0.3 UJ
Sodium	MG/KG	270	34%	0	0	41	119	164 U	207 U	73 U	65.9 U	65.9 U
Thallium	MG/KG	6.7	82%	0	0	98	119	0.6 J	0.85 J	1.9 J	0.73 U	0.73 U
Vanadium	MG/KG	104	99%	0	0	118	119	22	23.5	22.3	18.7	18.7
Zinc	MG/KG	1250	93%	109	11	111	119	60.1	60.2	50.1 J	42.9 J	42.9 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	4.4 J	1.2 J	0.18 J	0.28 J	0.28 J
Percent Solids	% WW	94	100%	0	0	101	101	72.8	73.6	73.3	78.3	78.3
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33	SS57-34	SS57-35	SS57-36	SS57-37
								SOIL	SOIL	SOIL	SOIL	SOIL
								574046	574047	574048	574049	574050
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	150 J	260 J	310 J	160 J	280 J
Benzene	UG/KG	1	2%	60	0	2	127	15 U	14 U	13 U	14 U	14 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	15 U	14 U	13 U	14 U	14 U
Chloroform	UG/KG	7	1%	370	0	1	127	15 U	14 U	13 U	14 U	14 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	15 U	23 J	24	17 J	22 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	15 U	14 U	13 U	14 U	14 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	15 U	14 U	13 U	14 U	14 U
Toluene	UG/KG	33	65%	700	0	82	127	26	4 J	23	6 J	11 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	15 U	14 U	13 U	14 U	14 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	92 U	88 U	93 U	84 U	94 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	92 U	88 U	93 U	84 U	94 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	92 U	88 U	93 U	84 U	94 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	92 U	88 U	93 U	84 U	94 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	92 U	88 U	93 U	84 U	94 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	9 J	88 UJ	7.9 J	10 J	4.8 J
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	92 U	88 U	93 U	84 U	94 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	9 J	88 UJ	7.9 J	10 J	5.5 J
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	9.7 J	13 J	11 J	84 UJ	94 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	5.5 J	4.4 J	93 U	6.4 J	7 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	93	18 J	28 J	30 J	39 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	92 UJ	88 UJ	93 UJ	84 UJ	94 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	92 U	88 U	93 U	84 U	94 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	92 UJ	88 UJ	93 UJ	84 UJ	94 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	5.4 J	4.5 J	5.9 J	7.6 J	8.6 J
Fluorene	UG/KG	120	2%	30000	0	2	119	92 U	88 U	93 U	84 U	94 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	92 U	88 U	93 U	84 U	94 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	92 U	88 U	93 U	84 U	94 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	92 U	88 U	93 U	84 U	94 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	92 U	88 U	2.9 J	4.3 J	5 J
Phenol	UG/KG	51	13%	330	0	16	119	92 U	88 U	93 U	84 U	94 U
Pyrene	UG/KG	230	52%	100000	3	62	119	4.9 J	4.8 J	5.5 J	8 J	9.4 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	102	102	104	94	104
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33	SS57-34	SS57-35	SS57-36	SS57-37
								SOIL	SOIL	SOIL	SOIL	SOIL
								574046	574047	574048	574049	574050
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							12/20/99	12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
							SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 J
Aroclor-1260	UG/KG	27	2%	100	0	2	119	46 U	44 U	46 U	42 U	47 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14700	14900	13500	12100	16500
Antimony	MG/KG	6.5	49%	0	0	58	119	0.54 UR	0.59 UR	0.59 UR	0.52 UR	0.61 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	3.7	3.9	4.5	4.3	4.9
Barium	MG/KG	237	100%	350	0	119	119	129	136	187	108	168
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.99 J	1.2 J	1.2 J	0.93 J	1.5
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U
Calcium	MG/KG	213000	100%	0	0	119	119	3270	3760	5050	2890	4820
Chromium	MG/KG	32.1	100%	30	2	119	119	18.3 J	20.3 J	18.9 J	16.3 J	21 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	8.6 J	11.1 J	12 J	11.5 J	15
Copper	MG/KG	2930	92%	50	2	109	119	16.8	19.2	17	16.7	21.7
Iron	MG/KG	39800	100%	0	0	119	119	24700 J	25300 J	23800 J	23000 J	27300 J
Lead	MG/KG	1860	100%	63	2	119	119	16.8	18.3	20.1	18	21.7
Magnesium	MG/KG	27600	100%	0	0	119	119	3160	3970	3500	3360	3780
Manganese	MG/KG	2580	100%	1600	5	119	119	585 J	772 J	1220 J	931 J	1540 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.08 J	0.13	0.11 J	0.09	0.11
Nickel	MG/KG	54.1	100%	30	37	119	119	18.4 J	24.2 J	22.8 J	18.4 J	27.4 J
Potassium	MG/KG	3250	100%	0	0	119	119	1290	1420	1400	1290	1830
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.74 J	0.67 UJ	2.1 J	0.88 J	1.8 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.35 UJ	0.35 UJ	0.31 UJ	0.36 UJ
Sodium	MG/KG	270	34%	0	0	41	119	70.7 U	77.6 U	77.3 U	68.2 U	79.6 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.4 J	3 J	3.9	3.6	5.4
Vanadium	MG/KG	104	99%	0	0	118	119	26.3	26.6	24.3	25.2	30.6
Zinc	MG/KG	1250	93%	109	11	111	119	60.8 J	64.9 J	71.4 J	53.1 J	75.4 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.17 J	0.09 J	0.78 J	0.72 J	0.37 J
Percent Solids	% WW	94	100%	0	0	101	101	70.5	73.7	70.5	77.8	69.8
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-38	SS57-39	SS57-40	SS57-41	SS57-42
								SOIL	SOIL	SOIL	SOIL	SOIL
								574051	574052	574053	574054	574055
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/21/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	210 J	98 J	180 J	350 J	170 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	12 U	13 U	13 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	12 U	13 U	13 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	12 U	13 U	13 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	19 J	12 UJ	16 J	26 J	17 J
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	12 U	13 U	13 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	12 U	13 U	13 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	8 J	5 J	7 J	9 J	4 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	12 U	13 U	13 U	12 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	5.6 J	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	8.5 J	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	7.9 J	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	7.5 J	91 UJ	94 UJ	90 UJ	83 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	7.2 J	91 UJ	94 UJ	90 UJ	83 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	13 J	7.4 J	94 UJ	6.2 J	83 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	4.9 J	4.6 J	94 UJ	90 UJ	83 UJ
Phenol	UG/KG	51	13%	330	0	16	119	7 J	4.5 J	94 UJ	5.4 J	3.9 J
Pyrene	UG/KG	230	52%	100000	3	62	119	9 J	5.8 J	94 UJ	4.7 J	83 UJ
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	59	NA	NA	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.4 U	4.6 U	4.7 U	4.5 U	2.1 J
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-43 SOIL 574056	SEAD-57 SS57-44 SOIL 574057	SEAD-57 SS57-45 SOIL 574059	SEAD-57 SS57-45 SOIL 574058	SEAD-57 SS57-46 SOIL 574060
								0 0.2 12/21/99 SA P1S1 RI	0 0.2 12/21/99 SA P1S1 RI	0 0.2 12/21/99 DU P1S1 RI	0 0.2 12/21/99 SA P1S1 RI	0 0.2 12/21/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	93 J	100 J	88 J	97 J	98 J
Benzene	UG/KG	1	2%	60	0	2	127	9 U	10 U	12 U	12 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	9 U	10 U	12 U	12 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	9 U	10 U	12 U	12 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	10	10 J	12 U	12 UJ	13 UJ
Methylene chloride	UG/KG	1	2%	50	0	2	127	9 U	10 U	12 U	12 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	9 U	10 U	12 U	12 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	2 J	6 J	9 J	5 J	9 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	9 U	10 U	12 U	12 U	13 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	89 UJ	86 U	92 U	90 UJ	86 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	89 UJ	86 U	92 U	90 UJ	86 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	89 UJ	86 U	92 U	90 UJ	86 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	89 UJ	86 UJ	92 UJ	90 UJ	86 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	89 UJ	86 U	92 U	90 UJ	86 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	89 UJ	86 U	92 U	90 UJ	86 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	89 UJ	86 U	92 U	90 UJ	86 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	89 UJ	86 U	92 U	90 UJ	86 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	89 UJ	86 UJ	92 UJ	90 UJ	86 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	89 UJ	86 U	92 U	90 UJ	86 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	89 UJ	86 U	92 U	90 UJ	86 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	89 UJ	86 U	92 U	90 UJ	86 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	89 UJ	86 U	92 U	90 UJ	86 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	89 UJ	86 U	92 U	90 UJ	86 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	89 UJ	86 U	92 U	90 UJ	86 U
Phenol	UG/KG	51	13%	330	0	16	119	4.5 J	86 U	92 U	4.3 J	86 U
Pyrene	UG/KG	230	52%	100000	3	62	119	89 UJ	86 U	4.7 J	90 UJ	86 U
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	NA	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	2.2 J	4.3 U	4.6 U	4.5 U	4.3 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-43	SS57-44	SS57-45	SS57-45	SS57-46
								SOIL	SOIL	SOIL	SOIL	SOIL
								574056	574057	574059	574058	574060
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	12/21/99
								SA	SA	DU	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	44 U	43 U	46 U	45 U	43 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	11800	11300	13400	14900	13100
Antimony	MG/KG	6.5	49%	0	0	58	119	0.53 UR	0.49 U	0.51 U	0.57 UR	0.53 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.1	4.8	2.8	2.2 J	3.6
Barium	MG/KG	237	100%	350	0	119	119	200	115	132	131	107
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1.4	0.88 J	0.79 J	0.86 J	0.81 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.06 J	2.9	0.05 U	0.04 U
Calcium	MG/KG	213000	100%	0	0	119	119	3450	2950	3230	3660	3260
Chromium	MG/KG	32.1	100%	30	2	119	119	16.2 J	15.2 J	16.7 J	18.2 J	15.9 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	15.8	9 J	6.2 J	6.3 J	6.3 J
Copper	MG/KG	2930	92%	50	2	109	119	15.8	14.6	16.4	15.9	14
Iron	MG/KG	39800	100%	0	0	119	119	25000	19600	18800	24600	18800
Lead	MG/KG	1860	100%	63	2	119	119	17.6	13.3 J	25.5 J	13.1	12.2 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3420	2910	3040	3670	3040
Manganese	MG/KG	2580	100%	1600	5	119	119	2270 J	728	224 J	245 J	335
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.11 J	0.05 U	0.07 UJ	0.12	0.07 U
Nickel	MG/KG	54.1	100%	30	37	119	119	19.6 J	17.1	19.1	26.3 J	16.9
Potassium	MG/KG	3250	100%	0	0	119	119	1190 J	1030 J	1110 J	1220 J	1070
Selenium	MG/KG	2.7	63%	3.9	0	75	119	2.7 J	0.78 J	0.58 U	1.7 J	0.56 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.5 J	0.45 J	0.33 UJ	0.29 J
Sodium	MG/KG	270	34%	0	0	41	119	70.2 U	99.1 J	90.7 J	74.3 U	60.1 U
Thallium	MG/KG	6.7	82%	0	0	98	119	6.6	4	1.6 J	1.7 J	2.2
Vanadium	MG/KG	104	99%	0	0	118	119	25.8	22.2	21.9	24	20.8
Zinc	MG/KG	1250	93%	109	11	111	119	51.7 J	49.9	57.8	56.4 J	62.4
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.1 J	0.04	0.42	0.23 J	0.48
Percent Solids	% WW	94	100%	0	0	101	101	74.2	77.2	71.8	73.4	75.7
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-47 SOIL 574061 0 0.2 12/21/99 SA P1S1 RI	SEAD-57 SS57-48 SOIL 574062 0 0.2 12/21/99 SA P1S1 RI	SEAD-57 SS57-49 SOIL 574063 0 0.2 12/21/99 SA P1S1 RI	SEAD-57 SS57-5 SOIL SS57-5-1 0 0.2 10/26/93 SA P1S1 RI	SEAD-57 SS57-5 SOIL SS57-5-2 0 0.2 12/08/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	83 J	230 J	180 J	14 U	15 U
Benzene	UG/KG	1	2%	60	0	2	127	11 U	12 U	13 U	14 U	15 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	12 U	13 U	14 U	15 U
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	12 U	13 U	14 U	15 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	9 J	18 J	16 J	14 U	15 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	11 U	12 U	13 U	14 U	15 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	11 U	12 U	13 U	2 J	15 U
Toluene	UG/KG	33	65%	700	0	82	127	5 J	6 J	7 J	14 U	15 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	12 U	13 U	14 U	15 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	82 U	92 U	90 U	470 U	
4-Methylphenol	UG/KG	13	3%	330	0	3	119	82 U	92 U	90 U	470 U	
Anthracene	UG/KG	8.2	3%	100000	0	3	119	82 U	92 U	90 U	470 U	
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	82 U	92 U	90 U	470 U	
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	82 U	4.6 J	90 U	470 U	
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	82 U	92 U	5.4 J	470 U	
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	82 U	92 U	90 U	470 U	
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	82 UJ	92 UJ	5.4 J	470 U	
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	82 UJ	92 UJ	90 UJ	580 U	
Chrysene	UG/KG	110	33%	1000	0	39	119	82 U	4.8 J	4.8 J	470 U	
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	82 U	92 U	90 U	470 U	
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	82 U	92 U	90 U	470 U	
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	82 U	92 U	90 U	470 U	
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	82 UJ	92 UJ	90 UJ	470 U	
Fluoranthene	UG/KG	150	50%	100000	0	60	119	82 UJ	8.6 J	7.7 J	470 U	
Fluorene	UG/KG	120	2%	30000	0	2	119	82 U	92 U	90 U	470 U	
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	82 U	92 U	90 U	470 U	
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	82 U	92 U	90 U	470 U	
Naphthalene	UG/KG	180	1%	12000	0	1	119	82 U	92 U	90 U	470 U	
Phenanthrene	UG/KG	230	37%	100000	0	44	119	82 U	4.8 J	4.7 J	470 U	
Phenol	UG/KG	51	13%	330	0	16	119	82 U	92 U	90 U	470 U	
Pyrene	UG/KG	230	52%	100000	3	62	119	82 U	5.4 J	6.5 J	470 U	
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	65	100	NA	
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.1 U	4.6 U	4.5 U	4.7 U	
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.1 U	4.6 U	4.5 U	4.7 U	
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.1 U	4.6 U	4.5 U	4.7 U	
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.1 U	2.4 U	2.3 U	2.4 U	

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-47 SOIL 574061	SS57-48 SOIL 574062	SS57-49 SOIL 574063	SS57-5 SOIL SS57-5-1	SS57-5 SOIL SS57-5-2
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.1 U	2.4 U	2.3 U	2.4 U	
Aroclor-1260	UG/KG	27	2%	100	0	2	119	41 U	46 U	45 U	27 J	
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	
Dieldrin	UG/KG	27	6%	5	5	7	119	4.1 U	4.6 U	4.5 U	4.7 U	
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.1 U	4.6 U	4.5 U	4.7 U	
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.1 U	4.6 U	4.5 U	4.7 U	
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.1 U	4.6 U	4.5 U	4.7 U	
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	10600	13200	14200	14000	
Antimony	MG/KG	6.5	49%	0	0	58	119	0.4 U	0.58 J	0.53 U	11.1 UJ	
Arsenic	MG/KG	17.8	92%	13	1	110	119	3.5	4	5	3.9 UR	
Barium	MG/KG	237	100%	350	0	119	119	92.9	117	130	110	
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.67 J	0.81 J	1 J	0.68 J	
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.96 J	0.05 U	0.69 U	
Calcium	MG/KG	213000	100%	0	0	119	119	2790	3740	3170	4440	
Chromium	MG/KG	32.1	100%	30	2	119	119	13.6 J	17.2 J	18.2 J	17.8	
Cobalt	MG/KG	29.7	100%	0	0	119	119	6.5 J	7 J	9.4 J	5.9 J	
Copper	MG/KG	2930	92%	50	2	109	119	16.2	19.2	18.1	19.8	
Iron	MG/KG	39800	100%	0	0	119	119	16900	19800	24100	18900	
Lead	MG/KG	1860	100%	63	2	119	119	9.8 J	23.3 J	17.7 J	26.3	
Magnesium	MG/KG	27600	100%	0	0	119	119	2450	3200	2930	3220	
Manganese	MG/KG	2580	100%	1600	5	119	119	352	298	710	297	
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 U	0.07 J	0.07 U	0.08 J	
Nickel	MG/KG	54.1	100%	30	37	119	119	16.1	19.2	19.2	17.9	
Potassium	MG/KG	3250	100%	0	0	119	119	887 J	1300	1210	1660	
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.47 U	0.72 J	0.58 U	0.41 J	
Silver	MG/KG	1.7	38%	2	0	45	119	0.27 J	0.47 J	0.49 J	1.4 UJ	
Sodium	MG/KG	270	34%	0	0	41	119	116 J	99.9 J	86.8 J	68.6 J	
Thallium	MG/KG	6.7	82%	0	0	98	119	1.7 J	1.9 J	3.7	0.34 U	
Vanadium	MG/KG	104	99%	0	0	118	119	19.6	23.3	26.3	24.5	
Zinc	MG/KG	1250	93%	109	11	111	119	42.8	66.8	63.9	81.5 UR	
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.17	1.1	0.54		
Percent Solids	% WW	94	100%	0	0	101	101	80.4	72.2	72.7		
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50	SS57-51	SS57-52	SS57-53	SS57-6
								SOIL	SOIL	SOIL	SOIL	SOIL
								574064	574065	574066	574067	SS57-6-1
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	200 J	190 J	230 J	220 J	13 U
Benzene	UG/KG	1	2%	60	0	2	127	14 U	16 U	14 U	15 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	16 U	14 U	15 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	16 U	14 U	15 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	16	18	22	18	13 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	16 U	14 U	15 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	14 U	16 U	14 U	15 U	1 J
Toluene	UG/KG	33	65%	700	0	82	127	13 J	7 J	23	29	13 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	16 U	14 U	15 U	13 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	94 U	100 U	96 U	100 U	420 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	94 U	100 U	96 U	100 U	420 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	94 U	100 U	96 U	100 U	420 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	94 U	100 U	96 U	5 J	420 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	4.8 J	100 U	6.9 J	8 J	420 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	4.6 J	100 U	6.6 J	8.4 J	420 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	94 U	100 U	96 U	100 U	420 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	5.7 J	100 U	8.5 J	7.2 J	420 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	94 UJ	100 UJ	96 UJ	100 UJ	420 U
Chrysene	UG/KG	110	33%	1000	0	39	119	5.3 J	100 U	8.3 J	9.2 J	420 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	94 U	100 U	96 U	100 U	420 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	94 U	100 U	96 U	2.6 J	420 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	94 U	100 U	96 U	100 U	420 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	94 UJ	100 UJ	96 UJ	100 UJ	420 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	9.2 J	9.2 J	12 J	14 J	29 J
Fluorene	UG/KG	120	2%	30000	0	2	119	94 U	100 U	96 U	100 U	420 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	94 U	100 U	96 U	100 U	420 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	94 U	100 U	96 U	100 U	420 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	94 U	100 U	96 U	100 U	420 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	4.7 J	5.5 J	7.2 J	7.8 J	420 U
Phenol	UG/KG	51	13%	330	0	16	119	94 U	100 U	96 U	100 U	420 U
Pyrene	UG/KG	230	52%	100000	3	62	119	6.6 J	7.6 J	10 J	10 J	23 J
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	66	NA	65	65	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.7 U	5.1 U	4.8 U	5 U	2.5 J
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50 SOIL 574064	SS57-51 SOIL 574065	SS57-52 SOIL 574066	SS57-53 SOIL 574067	SS57-6 SOIL 574068
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	47 U	51 U	48 U	50 U	43 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14100	14200	12600	12600	13500
Antimony	MG/KG	6.5	49%	0	0	58	119	0.44 U	0.57 U	0.63 J	0.47 U	12.1 UJ
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.8	6.6 J	4.5 J	4.2 J	122 UR
Barium	MG/KG	237	100%	350	0	119	119	119	164	115	110	83.7
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.92 J	1.4	0.84 J	0.87 J	0.64 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.05 U	0.49 J	2.2	0.76 U
Calcium	MG/KG	213000	100%	0	0	119	119	3420	5030	3800	4370	2790
Chromium	MG/KG	32.1	100%	30	2	119	119	17.9 J	21.9 J	17.9 J	18.7 J	18.9
Cobalt	MG/KG	29.7	100%	0	0	119	119	7.7 J	19.2	8.3 J	8.8 J	9.3 J
Copper	MG/KG	2930	92%	50	2	109	119	18.6	27.8	22.5	24.9	17.4
Iron	MG/KG	39800	100%	0	0	119	119	22700	30800	20000	22000	21700
Lead	MG/KG	1860	100%	63	2	119	119	19.2 J	24.8 J	21.5 J	33 J	30.2
Magnesium	MG/KG	27600	100%	0	0	119	119	3290	3650	2960	3760	3230
Manganese	MG/KG	2580	100%	1600	5	119	119	404	1670	392	487	464
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 U	0.07 U	0.07 U	0.07 J	0.07 J
Nickel	MG/KG	54.1	100%	30	37	119	119	18.7	26.3	21.9	27.2	19.8
Potassium	MG/KG	3250	100%	0	0	119	119	1220	1530	1460	1430	1650
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.58 U	0.64 U	0.71 J	0.69 J	0.31 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.42 J	0.81 J	0.76 J	0.69 J	1.5 UJ
Sodium	MG/KG	270	34%	0	0	41	119	105 J	143 J	87.1 J	100 J	46.3 J
Thallium	MG/KG	6.7	82%	0	0	98	119	2.5	6.7	2.5 J	3.3	0.17 U
Vanadium	MG/KG	104	99%	0	0	118	119	25.4	28.8	23.2	23.1	26.2
Zinc	MG/KG	1250	93%	109	11	111	119	62	96	83.5	91.4	64 UR
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	1.9	1	0.62	0.42	
Percent Solids	% WW	94	100%	0	0	101	101	70	65.2	68.9	65.9	
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-6 SOIL SS57-6-2	SEAD-57 SS57-7 SOIL SS57-7-1	SEAD-57 SS57-7 SOIL SS57-7-2	SEAD-57 SS57-8 SOIL SS57-8-1	SEAD-57 SS57-8 SOIL SS57-8-2
								0 0.2 12/08/93 SA P1S1 RI	0 0.2 10/26/93 SA P1S1 RI	0 0.2 12/08/93 SA P1S1 RI	0 0.2 10/26/93 SA P1S1 RI	0 0.2 12/08/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	14 U	11 U	11 U	11 U	12 U
Benzene	UG/KG	1	2%	60	0	2	127	14 U	11 U	11 U	11 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	11 U	11 U	11 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	11 U	11 U	11 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	14 U	11 U	11 U	11 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	11 U	11 U	11 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	14 U	11 U	11 U	6 J	12 U
Toluene	UG/KG	33	65%	700	0	82	127	14 U	11 U	11 U	11 U	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	11 U	11 U	11 U	12 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119		360 U		360 UR	
4-Methylphenol	UG/KG	13	3%	330	0	3	119		360 U		360 UR	
Anthracene	UG/KG	8.2	3%	100000	0	3	119		360 U		360 UR	
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119		360 U		360 UR	
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119		360 U		360 UR	
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119		360 U		360 UR	
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119		360 U		360 UR	
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119		360 U		360 UR	
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119		360 U		360 UR	
Chrysene	UG/KG	110	33%	1000	0	39	119		360 U		360 UR	
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119		18 J		360 UR	
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119		360 U		360 UR	
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119		360 U		360 UR	
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119		360 U		360 UR	
Fluoranthene	UG/KG	150	50%	100000	0	60	119		26 J		360 UR	
Fluorene	UG/KG	120	2%	30000	0	2	119		360 U		360 UR	
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119		360 U		360 UR	
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119		360 U		360 UR	
Naphthalene	UG/KG	180	1%	12000	0	1	119		360 U		360 UR	
Phenanthrene	UG/KG	230	37%	100000	0	44	119		20 J		360 UR	
Phenol	UG/KG	51	13%	330	0	16	119		360 U		360 UR	
Pyrene	UG/KG	230	52%	100000	3	62	119		20 J		360 UR	
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119		NA		NA	
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119		3.6 U		3.6 U	
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119		4.7 J		3.2	
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119		3.6 U		4.9	
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119		1.9 U		1.8 U	

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-6 SOIL	SEAD-57 SS57-7 SOIL	SEAD-57 SS57-7 SOIL	SEAD-57 SS57-8 SOIL	SEAD-57 SS57-8 SOIL
								SS57-6-2	SS57-7-1	SS57-7-2	SS57-8-1	SS57-8-2
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	10/26/93	12/08/93	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119		16 J		1.8 U	
Aroclor-1260	UG/KG	27	2%	100	0	2	119		36 U		3.6 U	
Beta-BHC	UG/KG	4.5	1%	36	0	1	119		1.9 U		1.8 U	
Dieldrin	UG/KG	27	6%	5	5	7	119		27 J		3.6 U	
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119		1.9 U		1.8 U	
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119		3.6 U		3.6 U	
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119		3.6 U		3.6 U	
Endrin ketone	UG/KG	4	1%	0	0	1	119		3.6 U		3.6 U	
Heptachlor	UG/KG	1.6	1%	42	0	1	119		1.9 U		1.8 U	
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119		2 J		1.8 U	
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119		12600		3940	
Antimony	MG/KG	6.5	49%	0	0	58	119		10.1 UJ		10.1 UJ	
Arsenic	MG/KG	17.8	92%	13	1	110	119		4.2 UR		4 UR	
Barium	MG/KG	237	100%	350	0	119	119		64.2		25.5 J	
Beryllium	MG/KG	1.8	100%	7.2	0	119	119		0.61 J		0.33 J	
Cadmium	MG/KG	28.6	22%	2.5	6	26	119		0.63 U		0.63 U	
Calcium	MG/KG	213000	100%	0	0	119	119		24300		213000	
Chromium	MG/KG	32.1	100%	30	2	119	119		24.3		7.4	
Cobalt	MG/KG	29.7	100%	0	0	119	119		13.2		7.8 J	
Copper	MG/KG	2930	92%	50	2	109	119		33.4		12	
Iron	MG/KG	39800	100%	0	0	119	119		28400		7540	
Lead	MG/KG	1860	100%	63	2	119	119		18.4		9.5	
Magnesium	MG/KG	27600	100%	0	0	119	119		6660		11600	
Manganese	MG/KG	2580	100%	1600	5	119	119		347		401	
Mercury	MG/KG	0.15	75%	0.18	0	89	119		0.02 J		0.04 U	
Nickel	MG/KG	54.1	100%	30	37	119	119		46		17.2	
Potassium	MG/KG	3250	100%	0	0	119	119		1550		1210	
Selenium	MG/KG	2.7	63%	3.9	0	75	119		0.18 UJ		0.2 UJ	
Silver	MG/KG	1.7	38%	2	0	45	119		1.3 UJ		1.3 UJ	
Sodium	MG/KG	270	34%	0	0	41	119		119 J		214 J	
Thallium	MG/KG	6.7	82%	0	0	98	119		0.2 U		2.2 U	
Vanadium	MG/KG	104	99%	0	0	118	119		19		11.2	
Zinc	MG/KG	1250	93%	109	11	111	119		53.4 R		42.1 UR	
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101					
Percent Solids	% WW	94	100%	0	0	101	101					
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-9 SOIL	SEAD-57 SS57-9-2 SOIL	SEAD-57 TP57-1 SOIL	SEAD-57 TP57-10 SOIL	SEAD-57 TP57-11 SOIL
								10/26/93 SA P1S1 RI	12/08/93 SA P1S1 RI	11/08/93 SA P1S1 RI	34305 SA P1S1 RI	34281 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	11 U	11 U	13 U	4 J	11 U
Benzene	UG/KG	1	2%	60	0	2	127	11 U	11 U	13 U	12 U	11 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	11 U	13 U	12 U	11 U
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	11 U	13 U	12 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	11 U	11 U	13 U	12 U	11 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	11 U	13 U	12 U	11 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	1 J	11 U	13 U	12 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	11 U	11 U	13 U	12 U	11 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	11 U	13 U	12 U	11 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	350 U		360 U	390 U	410 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	350 U		360 U	390 U	410 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	350 U		360 U	390 U	410 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	24 J		360 U	390 U	410 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	20 J		360 U	390 U	410 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	25 J		360 U	390 U	410 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	350 U		360 U	390 U	410 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	20 J		360 U	390 U	410 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	350 U		360 U	390 U	410 U
Chrysene	UG/KG	110	33%	1000	0	39	119	42 J		360 U	390 U	410 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	35 J		360 U	390 U	410 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	350 U		360 U	390 U	410 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	350 U		360 U	390 U	410 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	350 U		360 U	390 U	410 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	56 J		360 U	390 U	410 U
Fluorene	UG/KG	120	2%	30000	0	2	119	350 U		360 U	390 U	410 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	350 U		360 U	390 U	410 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	350 U		360 U	390 U	410 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	350 U		360 U	390 U	410 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	36 J		360 U	390 U	410 U
Phenol	UG/KG	51	13%	330	0	16	119	350 U		360 U	390 U	410 U
Pyrene	UG/KG	230	52%	100000	3	62	119	49 J		360 U	390 U	410 U
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	218		NA	NA	NA
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.5 UJ		3.5 J	3.9 U	4.1 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.5 J		9.1	3.9 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.5 UJ		9.6	3.9 U	4.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.8 UJ		1.9 U	2 U	2.1 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-9 SOIL	SEAD-57 SS57-9-2 SOIL	SEAD-57 TP57-1 SOIL	SEAD-57 TP57-10 SOIL	SEAD-57 TP57-11 SOIL
								0 0.2 10/26/93 SA	0 0.2 12/08/93 SA	3 3 11/08/93 SA	3 3 34305 SA	3 3 34281 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.8 UJ		1.9 U	2 U	2.1 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	35 UJ		36 U	39 U	41 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	1.8 UJ		1.9 U	2 U	2.1 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.5 UJ		3.6 U	3.9 U	4.1 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	1.8 UJ		1.9 U	2 U	2.1 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.5 UJ		3.6 U	3.9 U	4.1 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.5 UJ		3.6 U	3.9 U	4.1 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.5 UJ		3.6 U	3.9 U	4.1 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.8 UJ		1.9 U	2 U	2.1 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	1.8 UJ		1.9 U	2 U	2.1 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	10300		10700	12600	14600
Antimony	MG/KG	6.5	49%	0	0	58	119	10.7 UJ		6.4 UJ	3.6 U	11.3 UJ
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.6 R		4.9	6.8	5.9
Barium	MG/KG	237	100%	350	0	119	119	56.5		58.7	97.5	120
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.59 J		0.56 J	0.55 J	0.81 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.67 U		0.4 U	0.35 UR	0.71 U
Calcium	MG/KG	213000	100%	0	0	119	119	104000		16600	33000	22300
Chromium	MG/KG	32.1	100%	30	2	119	119	20.7		20.5	17.1	20.1
Cobalt	MG/KG	29.7	100%	0	0	119	119	10.6		12.1	8.7	8.8 J
Copper	MG/KG	2930	92%	50	2	109	119	47		34.3	22.4 J	21.7
Iron	MG/KG	39800	100%	0	0	119	119	23000		24700	20500	24900
Lead	MG/KG	1860	100%	63	2	119	119	42.4		28.2	10.9	11.3
Magnesium	MG/KG	27600	100%	0	0	119	119	9650		5050	6400	5360
Manganese	MG/KG	2580	100%	1600	5	119	119	356		392	387 J	329
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.04 J		0.03 J	0.03 J	0.04 J
Nickel	MG/KG	54.1	100%	30	37	119	119	38.7		45	24.5	25.7
Potassium	MG/KG	3250	100%	0	0	119	119	1570		898	1680	1430
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.37 J		0.48 J	0.61 J	0.46 J
Silver	MG/KG	1.7	38%	2	0	45	119	1.4 UJ		0.81 UJ	0.69 U	1.4 UJ
Sodium	MG/KG	270	34%	0	0	41	119	188 J		56.9 J	93.6 J	93 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.23 U		0.3 J	0.21 UJ	0.17 U
Vanadium	MG/KG	104	99%	0	0	118	119	18.8		26.9	22.9	27.8
Zinc	MG/KG	1250	93%	109	11	111	119	266 UR		81.1	54.1 J	57.9
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101					
Percent Solids	% WW	94	100%	0	0	101	101					
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 TP57-2 SOIL TP57-2 3 3 12/02/93 SA P1S1 RI	SEAD-57 TP57-3 SOIL TP57-3 3 3 11/09/93 SA P1S1 RI	SEAD-57 TP57-4 SOIL TP57-4 3 3 11/09/93 SA P1S1 RI	SEAD-57 TP57-6 SOIL TP57-6 3 3 12/02/93 SA P1S1 RI	SEAD-57 TP57-7 SOIL TP57-7 3 3 12/02/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
Acetone	UG/KG	700	74%	50	87	94	127	20	12 U	11 U	23	6 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	12 U	11 U	12 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	12 U	11 U	12 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	12 U	11 U	12 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	12 U	12 U	11 U	12 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	12 U	11 U	12 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	12 U	11 U	12 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	12 U	12 U	11 U	12 U	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	12 U	11 U	12 U	12 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	750 J	370 U	370 U	430 U	390 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	2000 U	370 U	370 U	430 U	390 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	2000 U	370 U	370 U	430 U	390 U
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	2000 U	370 U	370 U	430 U	390 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	2000 U	370 U	370 U	430 U	390 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	2000 U	370 U	370 U	430 U	390 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	2000 U	370 U	370 U	430 U	390 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	2000 U	370 U	370 U	430 U	390 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	2000 U	370 U	370 U	430 U	390 U
Chrysene	UG/KG	110	33%	1000	0	39	119	2000 U	370 U	25 J	430 U	390 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	390 J	370 U	370 U	430 U	390 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	2000 U	370 U	370 U	430 U	390 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	2000 U	370 U	370 U	430 U	390 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	2000 U	370 U	370 U	430 U	390 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	2000 U	370 U	34 J	430 U	390 U
Fluorene	UG/KG	120	2%	30000	0	2	119	120 J	370 U	370 U	430 U	390 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	2000 U	370 U	370 U	430 U	390 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	2000 U	370 U	370 U	430 U	390 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	180 J	370 U	370 U	430 U	390 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	230 J	370 U	20 J	430 U	390 U
Phenol	UG/KG	51	13%	330	0	16	119	2000 U	370 U	370 U	430 U	390 U
Pyrene	UG/KG	230	52%	100000	3	62	119	2000 U	370 U	33 J	430 U	390 U
B(a)P Toxicity Equivalents	UG/KG	428	38%	10000 (2)	0	45	119	NA	NA	428	NA	NA
Pesticide and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.1 U	5.5	8.9	4.3 U	4 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.1 U	12	20	4.3 U	4 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.1 U	12	23	4.3 U	4 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 TP57-2 SOIL TP57-2	SEAD-57 TP57-3 SOIL TP57-3	SEAD-57 TP57-4 SOIL TP57-4	SEAD-57 TP57-6 SOIL TP57-6	SEAD-57 TP57-7 SOIL TP57-7
								3	3	3	3	3
								12/02/93 SA	11/09/93 SA	11/09/93 SA	12/02/93 SA	12/02/93 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	41 U	37 U	37 U	43 U	40 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	17300	10800	16900	22900	18300
Antimony	MG/KG	6.5	49%	0	0	58	119	4.5 U	8.9 UJ	8.7 UJ	5.8 J	4.9 U
Arsenic	MG/KG	17.8	92%	13	1	110	119	9.5	4.8	4.2	7.5	8.5
Barium	MG/KG	237	100%	350	0	119	119	82.7	62.8	90.1	174	144
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.81 J	0.61 J	0.91	1 J	0.87 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.44 UR	0.55 U	0.54 U	0.53 UR	0.48 UR
Calcium	MG/KG	213000	100%	0	0	119	119	19200	15300	22400	15200	18700
Chromium	MG/KG	32.1	100%	30	2	119	119	29.9	20.2	28.9	30.8	24.2
Cobalt	MG/KG	29.7	100%	0	0	119	119	13.7	10.4	13.3	9.4 J	12.8
Copper	MG/KG	2930	92%	50	2	109	119	2930 J	32.2	39.2	26.8 J	19.7 J
Iron	MG/KG	39800	100%	0	0	119	119	35700	24300	30500	30200	29300
Lead	MG/KG	1860	100%	63	2	119	119	1860	60.9	19.5	21.9	14.7
Magnesium	MG/KG	27600	100%	0	0	119	119	8930	4920	7890	6640	6060
Manganese	MG/KG	2580	100%	1600	5	119	119	463 J	350	472	247 J	818 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 J	0.05 J	0.05 J	0.04 J	0.05 J
Nickel	MG/KG	54.1	100%	30	37	119	119	51.6	38.1	54.1	37.3	31.8
Potassium	MG/KG	3250	100%	0	0	119	119	2080	935	2110	3250	2190
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.1 J	0.52 J	0.39 J	0.73 J	1.2 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.87 U	1.1 UJ	1.1 UJ	1.1 U	0.96 U
Sodium	MG/KG	270	34%	0	0	41	119	99 J	70.7 J	97.9 J	102 J	82.7 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.27 UJ	0.24 J	0.16 U	0.95 J	0.96 J
Vanadium	MG/KG	104	99%	0	0	118	119	31.4	28.3	104	39	32.9
Zinc	MG/KG	1250	93%	109	11	111	119	1250 J	93.8	120	85.6 J	63.8 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101					
Percent Solids	% WW	94	100%	0	0	101	101					
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7A
SEAD-57 Soil Sample Summary Results - Detected Compounds Only**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57
								TP57-8 SOIL	TP57-9 SOIL
								3	3
								3	3
								12/02/93	12/02/93
								SA	SA
								P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2 U	2 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	38 U	38 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2 U	2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.8 U	3.8 U
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2 U	2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.8 U	3.8 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.8 U	3.8 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.8 U	3.8 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2 U	2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2 U	2 U
Metals and Cyanide									
Aluminum	MG/KG	22900	100%	0	0	119	119	15700	10300
Antimony	MG/KG	6.5	49%	0	0	58	119	6.5 J	3.5 U
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.8	8.6
Barium	MG/KG	237	100%	350	0	119	119	113	70.8
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.77 J	0.49 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.36 UR	0.34 UR
Calcium	MG/KG	213000	100%	0	0	119	119	67000	84000
Chromium	MG/KG	32.1	100%	30	2	119	119	25	16.5
Cobalt	MG/KG	29.7	100%	0	0	119	119	12.2	8
Copper	MG/KG	2930	92%	50	2	109	119	25.4 J	22.6 J
Iron	MG/KG	39800	100%	0	0	119	119	27600	19900
Lead	MG/KG	1860	100%	63	2	119	119	14.9	16.2
Magnesium	MG/KG	27600	100%	0	0	119	119	10000	27600
Manganese	MG/KG	2580	100%	1600	5	119	119	500 J	323 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.03 U	0.02 U
Nickel	MG/KG	54.1	100%	30	37	119	119	40.1	29.8
Potassium	MG/KG	3250	100%	0	0	119	119	1910	1350
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.96 J	1.1 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.72 U	0.67 U
Sodium	MG/KG	270	34%	0	0	41	119	136 J	128 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.88 J	0.91 J
Vanadium	MG/KG	104	99%	0	0	118	119	25.4	17.9
Zinc	MG/KG	1250	93%	109	11	111	119	82.7 J	68.5 J
Other Analyses									
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32		
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101		
Percent Solids	% WW	94	100%	0	0	101	101		
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33		
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32		

(1) - NYSDEC's Unrestricted Use Soil Cleanup Objectives, 6NYCRR Part 375-6.

(2) - NYSDEC's DER's Benzo(a)pyrene Toxicity Equivalents guidance value.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-11 Ditchsoil 573008	SEAD-57 SD57-10 Ditchsoil 573031	SEAD-57 SD57-16 Ditchsoil 573000	SEAD-57 SD57-13 Ditchsoil 573001	SEAD-57 SD57-24 Ditchsoil 573002
								0.2 01/05/00 DU P1S1 RI	0.2 01/10/00 DU P1S1 RI	0.2 01/04/00 SA P1S1 RI	0.2 01/04/00 SA P1S1 RI	0.2 01/04/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	14 U	11 U	13 U	13 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	14 U	11 U	13 U	13 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	14 U	11 U	13 U	13 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	14 U	11 U	13 U	13 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	14 U	11 U	13 U	13 U	13 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Acetone	UG/KG	700	74%	50	87	94	127	110 J	110 J	300 J	210 J	220 J
Benzene	UG/KG	1	2%	60	0	2	127	14 U	11 U	13 U	13 U	13 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Bromoform	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	11 U	3 J	2 J	2 J
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	14 U	11 U	13 U	13 U	13 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	14 U	11 U	13 U	13 U	13 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Chloroethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	11 U	13 U	13 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	14 U	11 U	13 U	13 U	13 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	14	12	36 J	20 J	19 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	11 U	13 U	13 U	13 U
Styrene	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	14 U	11 U	13 U	13 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	2 J	6 J	10 J	8 J	7 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	11 U	13 U	13 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	11 U	13 U	13 U	13 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	14 U	11 U	13 U	13 U	13 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-11	SEAD-57 SD57-10	SEAD-57 SD57-16	SEAD-57 SD57-13	SEAD-57 SD57-24
								Ditchsoil 573008	Ditchsoil 573031	Ditchsoil 573000	Ditchsoil 573001	Ditchsoil 573002
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/05/00	01/10/00	01/04/00	01/04/00	01/04/00
								DU	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	14 U	11 U	13 U	13 U	13 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	97 U	94 UJ	90 U	91 U	89 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	97 U	94 UJ	90 U	91 U	89 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	240 U	240 UJ	220 U	230 U	220 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	240 UJ	240 UR	220 UR	230 UR	220 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	97 U	94 UJ	90 U	91 U	89 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	97 U	94 UJ	90 U	91 U	89 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 U	240 UJ	220 U	230 U	220 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	97 UJ	94 UJ	90 UJ	91 UJ	89 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 UJ	240 UJ	220 UJ	230 UJ	220 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	240 U	240 UJ	220 UJ	230 UJ	220 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	97 UJ	94 UJ	90 UJ	91 UJ	89 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	97 U	94 UJ	90 U	91 U	89 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 U	240 UJ	220 U	230 U	220 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	240 UJ	240 UJ	220 UJ	230 UJ	220 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	97 U	94 UJ	90 U	5.1 J	89 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-11 Ditchsoil 573008	SEAD-57 SD57-10 Ditchsoil 573031	SEAD-57 SD57-16 Ditchsoil 573000	SEAD-57 SD57-13 Ditchsoil 573001	SEAD-57 SD57-24 Ditchsoil 573002
								0 0.2 01/05/00 DU P1S1 RI	0 0.2 01/10/00 DU P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	11 J	5.5 J	50 J	43 J	89 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	97 U	94 UJ	66 J	59 J	89 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	13 J	94 UJ	59 J	43 J	89 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	97 U	94 UJ	43 J	35 J	89 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	12 J	94 UJ	41 J	43 J	89 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	97 U	94 UJ	90 U	91 U	89 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	97 UJ	94 UJ	90 U	14 J	89 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Carbazole	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Chrysene	UG/KG	110	33%	1000	0	39	119	12 J	6.6 J	80 J	72 J	89 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	97 U	28 J	4.9 J	8.4 J	4.9 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	97 UJ	94 UJ	90 UJ	91 UJ	89 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	97 U	94 UJ	17 J	17 J	89 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	97 U	94 UJ	90 U	91 U	89 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	97 U	94 UJ	100	73 J	5 J
Fluorene	UG/KG	120	2%	30000	0	2	119	97 U	94 UJ	90 U	91 U	89 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	97 U	94 UJ	34 J	28 J	89 U
Isophorone	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	97 U	94 UJ	90 U	91 U	89 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	97 U	94 UJ	90 U	91 U	89 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	97 U	94 UJ	90 U	91 U	89 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	240 UJ	240 UJ	220 UJ	230 UJ	220 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	97 U	94 UJ	52 J	42 J	89 U
Phenol	UG/KG	51	13%	330	0	16	119	97 U	94 UJ	90 U	91 U	89 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-11	SEAD-57 SD57-10	SEAD-57 SD57-16	SEAD-57 SD57-13	SEAD-57 SD57-24
								Ditchsoil 573008	Ditchsoil 573031	Ditchsoil 573000	Ditchsoil 573001	Ditchsoil 573002
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/05/00	01/10/00	01/04/00	01/04/00	01/04/00
								DU	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	97 UJ	94 UJ	130	100	5.7 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	48 U	47 U	45 U	46 U	44 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	98 U	96 U	92 U	93 U	90 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	48 U	47 U	45 U	46 U	44 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	48 U	47 U	45 U	46 U	44 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	48 U	47 U	45 U	46 U	44 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	48 U	47 U	45 U	46 U	44 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	48 U	47 U	45 U	46 U	44 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-11 Ditchsoil 573008	SEAD-57 SD57-10 Ditchsoil 573031	SEAD-57 SD57-16 Ditchsoil 573000	SEAD-57 SD57-13 Ditchsoil 573001	SEAD-57 SD57-24 Ditchsoil 573002
								0 0.2 01/05/00 DU P1S1 RI	0 0.2 01/10/00 DU P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Endrin	UG/KG	0	0%	14	0	0	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.8 U	4.7 U	4.5 U	4.6 U	4.4 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	2.4 U	2.3 U	2.4 U	2.3 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	25 U	24 U	23 U	24 U	23 U
Toxaphene	UG/KG	0	0%	0	0	0	119	250 U	240 U	230 U	240 U	230 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	16500	12900 J	16200	17700	16000
Antimony	MG/KG	6.5	49%	0	0	58	119	0.63 UR	0.99 J	0.7 J	0.54 UR	0.36 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.7	4.6	7	5.9	5
Barium	MG/KG	237	100%	350	0	119	119	237	209	119	217	107
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.98 J	0.81 J	1.2 J	1.8	0.87 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	13.5 J	3.3	0.42 J	0.22 J	0.19 U
Calcium	MG/KG	213000	100%	0	0	119	119	3860	2590	4440	10800	5330
Chromium	MG/KG	32.1	100%	30	2	119	119	22.9	19.5 J	24.1	26	23.5
Cobalt	MG/KG	29.7	100%	0	0	119	119	10.1 J	11.5	13.2	19.7	10 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-11 Ditchsoil 573008	SEAD-57 SD57-10 Ditchsoil 573031	SEAD-57 SD57-16 Ditchsoil 573000	SEAD-57 SD57-13 Ditchsoil 573001	SEAD-57 SD57-24 Ditchsoil 573002
								0 0.2 01/05/00 DU P1S1 RI	0 0.2 01/10/00 DU P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI	0 0.2 01/04/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	21.8 U	19.5	26.5 U	29.7 U	25.4 U
Cyanide	MG/KG	0	0%	27	0	0	119	0.66 U	0.63 U	0.65 U	0.68 U	0.62 U
Iron	MG/KG	39800	100%	0	0	119	119	27100 J	27100 J	31600	33700	28200
Lead	MG/KG	1860	100%	63	2	119	119	21.8 J	19.1 J	29.4 J	28.2 J	25.7 J
Magnesium	MG/KG	27600	100%	0	0	119	119	4370	3920	4900	5710	5000
Manganese	MG/KG	2580	100%	1600	5	119	119	338 J	513 J	701 J	2580 J	330 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 U	0.09 J	0.07 U	0.07 U	0.06 U
Nickel	MG/KG	54.1	100%	30	37	119	119	25.7 J	24.2	30.5 J	36.2 J	30.4 J
Potassium	MG/KG	3250	100%	0	0	119	119	1370 J	1160	1810	1620	1190
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.63 U	1.4	1.1 J	1.8 J	0.51 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.49 J	0.31 J	0.44 J	0.63 J	0.3 UJ
Sodium	MG/KG	270	34%	0	0	41	119	183 J	61.8 J	148 J	71.5 U	67.6 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.6 J	1.8	1.7 J	4.4	1.8 J
Vanadium	MG/KG	104	99%	0	0	118	119	30.1	26.7	31.4	37.4	30.3
Zinc	MG/KG	1250	93%	109	11	111	119	67.5 J	70.8	487 J	150 J	84.4 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32			24.1	22.4	6.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.09 J	0.09	3.1 J	0.29 J	0.03 J
Percent Solids	% WW	94	100%	0	0	101	101	68	70.2	73.3	71.5	74.4
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	6.95		7.48	7.65	7.83
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32			26200	31300	26500

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-14 Ditchsoil 573003	SEAD-57 SD57-17 Ditchsoil 573004	SEAD-57 SD57-18 Ditchsoil 573005	SEAD-57 SD57-26 Ditchsoil 573006	SEAD-57 SD57-11 Ditchsoil 573007
								0.2 01/05/00 SA P1S1 RI	0.2 01/05/00 SA P1S1 RI	0.2 01/05/00 SA P1S1 RI	0.2 01/05/00 SA P1S1 RI	0.2 01/05/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	13 U	12 U	17 U	16 U	15 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	13 U	12 U	17 U	16 U	15 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	13 U	12 U	17 U	16 U	15 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	13 U	12 U	17 U	16 U	15 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	13 U	12 U	17 U	16 U	15 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Acetone	UG/KG	700	74%	50	87	94	127	220 J	100 J	260 J	330 J	100 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	12 U	17 U	16 U	15 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Bromoform	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	2 J	12 U	17 U	2 J	15 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	13 U	12 U	17 U	16 U	15 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	13 U	12 U	17 U	16 U	15 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Chloroethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	12 U	17 U	16 U	15 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	13 U	12 U	17 U	16 U	15 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	25 J	13	26 J	49 J	13 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	12 U	17 U	16 U	15 U
Styrene	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	12 U	17 U	16 U	15 U
Toluene	UG/KG	33	65%	700	0	82	127	3 J	4 J	8 J	6 J	5 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	12 U	17 U	16 U	15 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	12 U	17 U	16 U	15 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	13 U	12 U	17 U	16 U	15 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-14	SEAD-57 SD57-17	SEAD-57 SD57-18	SEAD-57 SD57-26	SEAD-57 SD57-11
								Ditchsoil 573003	Ditchsoil 573004	Ditchsoil 573005	Ditchsoil 573006	Ditchsoil 573007
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/05/00	01/05/00	01/05/00	01/05/00	01/05/00
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	13 U	12 U	17 U	16 U	15 UJ
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	97 U	90 U	92 U	95 U	91 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	97 U	90 U	92 U	95 U	91 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	97 U	90 U	92 U	95 U	91 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	240 U	220 U	230 U	240 U	230 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	240 UR	220 UR	230 UR	240 UR	230 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	97 U	90 U	92 U	95 U	91 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	97 U	90 U	92 U	95 U	91 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 U	220 U	230 U	240 U	230 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	97 UJ	90 UJ	92 UJ	95 UJ	91 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 UJ	220 UJ	230 UJ	240 UJ	230 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	240 UJ	220 UJ	230 UJ	240 UJ	230 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	97 UJ	90 UJ	92 UJ	95 UJ	91 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	97 U	90 U	92 U	95 U	91 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 U	220 U	230 U	240 U	230 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	240 UJ	220 UJ	230 UJ	240 UJ	230 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	97 U	90 U	92 U	95 U	91 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	97 U	90 U	92 U	95 U	91 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	6.9 J	90 U	8.2 J	95 U	91 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-14 Ditchsoil 573003	SEAD-57 SD57-17 Ditchsoil 573004	SEAD-57 SD57-18 Ditchsoil 573005	SEAD-57 SD57-26 Ditchsoil 573006	SEAD-57 SD57-11 Ditchsoil 573007
								0.2	0.2	0.2	0.2	0.2
								01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	52 J	8.5 J	62 J	18 J	91 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	52 J	12 J	76 J	22 J	91 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	36 J	9.5 J	67 J	22 J	91 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	30 J	10 J	54 J	15 J	91 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	39 J	11 J	50 J	17 J	91 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	97 U	90 U	92 U	95 U	91 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	97 U	90 U	92 U	7.9 J	14 J
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Carbazole	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Chrysene	UG/KG	110	33%	1000	0	39	119	78 J	17 J	110	26 J	91 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	9.3 J	6.5 J	6.7 J	95 U	6.7 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	97 UJ	90 UJ	92 UJ	95 UJ	91 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	14 J	5 J	24 J	95 U	91 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	97 U	90 U	92 U	95 U	91 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	97 U	90 U	92 U	95 U	91 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	100	20 J	150	40 J	91 U
Fluorene	UG/KG	120	2%	30000	0	2	119	97 U	90 U	8.1 J	95 U	91 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	97 U	90 U	92 U	95 U	91 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	25 J	10 J	37 J	16 J	91 U
Isophorone	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	97 U	90 U	92 U	95 U	91 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	97 U	90 U	92 U	95 U	91 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	97 U	90 U	92 U	95 U	91 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	240 UJ	220 UJ	230 UJ	240 UJ	230 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	81 J	9.3 J	110	16 J	91 U
Phenol	UG/KG	51	13%	330	0	16	119	97 U	90 U	92 U	95 U	91 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-14 Ditchsoil 573003	SEAD-57 SD57-17 Ditchsoil 573004	SEAD-57 SD57-18 Ditchsoil 573005	SEAD-57 SD57-26 Ditchsoil 573006	SEAD-57 SD57-11 Ditchsoil 573007
								0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI	0 0.2 01/05/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	140	22 J	230	32 J	91 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.8 U	4.5 U	2.9 J	4.8 U	4.6 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.4 J	2.3 U	2.4 U	2.5 U	2.3 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	48 U	45 U	46 U	48 U	46 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	98 U	91 U	93 U	97 U	92 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	48 U	45 U	46 U	48 U	46 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	48 U	45 U	46 U	48 U	46 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	48 U	45 U	46 U	48 U	46 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	48 U	45 U	46 U	48 U	46 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	48 U	45 U	46 U	48 U	46 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	4.5 J	2.3 U	2.4 U	2.5 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-14 Ditchsoil 573003	SEAD-57 SD57-17 Ditchsoil 573004	SEAD-57 SD57-18 Ditchsoil 573005	SEAD-57 SD57-26 Ditchsoil 573006	SEAD-57 SD57-11 Ditchsoil 573007
								0.2 01/05/00 SA P1S1 RI	0 01/05/00 SA P1S1 RI	0 01/05/00 SA P1S1 RI	0 01/05/00 SA P1S1 RI	0 01/05/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
Endrin	UG/KG	0	0%	14	0	0	119	4.8 U	4.5 U	4.6 U	4.8 U	4.6 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.8 U	4.5 U	3.8 J	4.8 U	4.6 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.8 U	4.5 U	4 J	4.8 U	4.6 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.6 J	2.3 U	2.4 U	2.5 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	2.3 U	2.4 U	2.5 U	2.3 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	25 UJ	23 U	24 U	25 U	23 U
Toxaphene	UG/KG	0	0%	0	0	0	119	250 U	230 U	240 U	250 U	230 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	17000	14100	16800	12400	15100
Antimony	MG/KG	6.5	49%	0	0	58	119	0.86 J	0.96 J	0.61 UR	0.75 J	0.46 UR
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.7	4.8	4.1	17.8	4.8
Barium	MG/KG	237	100%	350	0	119	119	131	93.6	139	85.6	158
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1.1	0.87 J	1 J	0.73 J	0.94 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.17 U	0.17 U	2 J	0.19 U	28.6 J
Calcium	MG/KG	213000	100%	0	0	119	119	7090	5830	3890	7610	3580
Chromium	MG/KG	32.1	100%	30	2	119	119	24.4	22.4	25.5	17.7	21
Cobalt	MG/KG	29.7	100%	0	0	119	119	10.6	10.1 J	9.6 J	9.1 J	9.3 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-14 Ditchsoil 573003	SEAD-57 SD57-17 Ditchsoil 573004	SEAD-57 SD57-18 Ditchsoil 573005	SEAD-57 SD57-26 Ditchsoil 573006	SEAD-57 SD57-11 Ditchsoil 573007
								0.2	0.2	0.2	0.2	0.2
								01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI	01/05/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	28.2 U	31.6 U	29.6 U	31.5 U	19.9 U
Cyanide	MG/KG	0	0%	27	0	0	119	0.72 U	0.62 U	0.63 U	0.71 U	0.65 U
Iron	MG/KG	39800	100%	0	0	119	119	28900	26800	27300	20600	25600 J
Lead	MG/KG	1860	100%	63	2	119	119	27.9 J	27 J	31.8 J	35 J	18.4 J
Magnesium	MG/KG	27600	100%	0	0	119	119	5130	5470	5140	4210	4110
Manganese	MG/KG	2580	100%	1600	5	119	119	460 J	275 J	256 J	269 J	334 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 J	0.07 U	0.06 U	0.07 U	0.07 U
Nickel	MG/KG	54.1	100%	30	37	119	119	30.1 J	33.7 J	33.3 J	25 J	23.5 J
Potassium	MG/KG	3250	100%	0	0	119	119	1500	1310	1420	1250	1280
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.58 J	0.59 J	0.69 UJ	0.84 J	0.69 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 UJ	0.33 J	0.36 UJ	0.31 UJ	0.49 J
Sodium	MG/KG	270	34%	0	0	41	119	61.3 U	61.5 U	79.9 U	68.3 U	60 U
Thallium	MG/KG	6.7	82%	0	0	98	119	3.8	1.8 J	1.5 J	1.9 J	2.3
Vanadium	MG/KG	104	99%	0	0	118	119	32.4	26.3	29	26	28.1
Zinc	MG/KG	1250	93%	109	11	111	119	90.7 J	108 J	105 J	75.7 J	61.5 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	22.2	11.3	16	26.2	26.9
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.06 J	0.2 J	0.47 J	0.17 J	0.03 J
Percent Solids	% WW	94	100%	0	0	101	101	67.8	73.4	71.6	69.4	71.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.53	7.56	7.2	7.64	7.08
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	33300	38400	29900	40500	20800

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	11 U	11 U	13 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	11 U	11 U	13 U	12 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	11 U	11 U	13 U	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	11 U	11 U	13 U	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	11 U	11 U	13 U	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Acetone	UG/KG	700	74%	50	87	94	127	98 J	110 J	120 J	160 J	140 J
Benzene	UG/KG	1	2%	60	0	2	127	11 U	11 U	13 U	12 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	11 U	13 U	12 U	12 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	11 U	11 U	13 U	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	11 U	11 U	13 U	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Chloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	11 U	13 U	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	11 U	11 U	13 U	12 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	12	8 J	14	20	14
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	11 U	11 U	13 U	12 U	12 U
Styrene	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	11 U	11 U	13 U	12 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	3 J	8 J	8 J	3 J	2 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	11 U	13 U	12 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	11 U	11 U	13 U	12 U	12 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	11 UJ	11 UJ	13 UJ	12 U	12 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	83 U	84 U	91 U	87 U	86 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	83 U	84 U	91 U	87 U	86 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	83 U	84 U	91 U	87 U	86 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	210 U	210 U	230 U	220 U	210 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	210 UJ	210 UR	230 UR	220 UR	210 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	83 U	84 U	91 U	87 U	86 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	83 U	84 U	91 U	87 U	86 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 U	210 U	230 U	220 U	210 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	83 UJ	84 UJ	91 UJ	87 UJ	86 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 UJ	210 UJ	230 UJ	220 UJ	210 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	210 U	210 UJ	230 UJ	220 UJ	210 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	83 UJ	84 UJ	91 UJ	87 UJ	86 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	83 U	84 U	13 J	87 U	86 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 U	210 U	230 U	220 U	210 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	210 UJ	210 U	230 U	220 UJ	210 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	83 U	84 U	91 U	87 U	86 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	83 U	84 U	91 U	87 U	86 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	83 U	84 U	91 U	87 U	86 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	83 U	84 U	91 U	87 U	86 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	83 U	84 U	91 U	87 U	86 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	83 UJ	84 UJ	91 UJ	87 U	86 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	83 U	84 U	91 U	87 UJ	86 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	83 UJ	84 U	91 U	87 UJ	86 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	83 U	84 UJ	91 UJ	87 U	86 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	83 U	84 U	91 U	87 U	86 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	83 UJ	84 U	91 U	87 U	86 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Carbazole	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Chrysene	UG/KG	110	33%	1000	0	39	119	83 U	84 U	91 U	87 U	86 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	9.8 J	84 U	91 U	87 U	86 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	83 UJ	84 UJ	91 UJ	87 UJ	86 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	83 U	84 U	91 U	87 U	86 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	83 U	84 U	91 U	87 U	86 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	83 U	84 U	91 U	87 UJ	86 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	83 U	84 U	91 U	87 U	86 U
Fluorene	UG/KG	120	2%	30000	0	2	119	83 U	84 U	91 U	87 U	86 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	83 U	84 U	91 U	87 U	86 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	83 U	84 UJ	91 UJ	87 U	86 U
Isophorone	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	83 U	84 U	91 U	87 U	86 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	83 U	84 U	91 U	87 U	86 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	83 U	84 U	91 U	87 U	86 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	210 UJ	210 UJ	230 UJ	220 UJ	210 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	83 U	84 U	91 U	87 U	86 U
Phenol	UG/KG	51	13%	330	0	16	119	83 U	84 U	17 J	87 U	86 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/06/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	83 UJ	84 U	91 U	87 U	86 U
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	41 U	42 U	46 U	43 U	43 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	84 U	85 U	92 U	88 U	87 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	41 U	42 U	46 U	43 U	43 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	41 U	42 U	46 U	43 U	43 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	41 U	42 U	46 U	43 U	43 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	41 U	42 U	46 U	43 U	43 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	41 U	42 U	46 U	43 U	43 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0.2 01/06/00 SA P1S1 RI	0 01/06/00 SA P1S1 RI	0 01/06/00 SA P1S1 RI	0 01/07/00 SA P1S1 RI	0 01/07/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Endrin	UG/KG	0	0%	14	0	0	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.1 U	4.2 U	4.6 U	4.3 U	4.3 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	21 U	22 U	23 U	22 U	22 U
Toxaphene	UG/KG	0	0%	0	0	0	119	210 U	220 U	230 U	220 U	220 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14600	19800 J	15800 J	17100 J	14800 J
Antimony	MG/KG	6.5	49%	0	0	58	119	0.65 J	0.51 U	0.52 U	0.53 U	0.95 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.6	6.1	6	5.5	7.2
Barium	MG/KG	237	100%	350	0	119	119	135	143	165	154	129
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.87 J	0.89 J	0.77 J	0.84 J	0.84 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.39 J	0.05 U	2.8	0.21 J	0.41 J
Calcium	MG/KG	213000	100%	0	0	119	119	3070	3050	3410	3020	2880
Chromium	MG/KG	32.1	100%	30	2	119	119	19	25.2	22.3	21.4	21.7
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.6 J	9.9 J	11.2 J	11 J	15.9

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-8 Ditchsoil 573009	SEAD-57 SD57-7 Ditchsoil 573010	SEAD-57 SD57-4 Ditchsoil 573011	SEAD-57 SD57-3 Ditchsoil 573012	SEAD-57 SD57-2 Ditchsoil 573013
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								01/06/00 SA	01/06/00 SA	01/06/00 SA	01/07/00 SA	01/07/00 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	21.3 U	22	24.7	19.5	29.8
Cyanide	MG/KG	0	0%	27	0	0	119	0.59 U	0.58 U	0.69 U	0.65 U	0.64 U
Iron	MG/KG	39800	100%	0	0	119	119	22200 J	29100 J	25900 J	24100 J	28900 J
Lead	MG/KG	1860	100%	63	2	119	119	9.4 J	12.2	24.7	13.1	23.7
Magnesium	MG/KG	27600	100%	0	0	119	119	3990	5190	4380	4260	4360
Manganese	MG/KG	2580	100%	1600	5	119	119	611 J	329	441	709	1220
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 U	0.07 J	0.09 J	0.07 J	0.07 J
Nickel	MG/KG	54.1	100%	30	37	119	119	28 J	26.4	28.7	24.1	37.5 J
Potassium	MG/KG	3250	100%	0	0	119	119	1350	2180	1980	1840	1600
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.49 U	0.51 U	1.9 J	0.6 J	1.8
Silver	MG/KG	1.7	38%	2	0	45	119	0.25 UJ	0.3 UJ	0.31 UJ	0.31 UJ	0.33 UJ
Sodium	MG/KG	270	34%	0	0	41	119	56.4 U	66.5 U	68.9 U	89.1 J	73.2 U
Thallium	MG/KG	6.7	82%	0	0	98	119	2.5	4.4	2.3 J	2.7	4.1
Vanadium	MG/KG	104	99%	0	0	118	119	26.4	33.8	25.3	28	25.7
Zinc	MG/KG	1250	93%	109	11	111	119	52.1 J	62.9	92.5	65.8	78
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	9.6	9.7	9.8	12.7	16.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.2	0.01 U	0.22	0.34	0.14
Percent Solids	% WW	94	100%	0	0	101	101	78.8	78.3	72.3	76.4	77.4
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.6	7.6	7.15	7.56	7.5
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	5860	9290	11700	18100	27700

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-21 Ditchsoil 573014	SEAD-57 SD57-22 Ditchsoil 573015	SEAD-57 SD57-5 Ditchsoil 573016	SEAD-57 SD57-15 Ditchsoil 573017	SEAD-57 SD57-12 Ditchsoil 573018
								0.2 01/07/00 SA P1S1 RI	0.2 01/07/00 SA P1S1 RI	0.2 01/07/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	12 U	12 U	13 U	11 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	12 U	12 U	13 U	11 U	11 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	12 U	12 U	13 U	11 U	11 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	12 U	12 U	13 U	11 UJ	11 UJ
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	12 U	12 U	13 U	11 U	11 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Acetone	UG/KG	700	74%	50	87	94	127	150 J	180 J	180 J	130 J	120 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	12 U	13 U	11 U	11 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Bromoform	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	12 U	13 U	11 U	11 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	12 U	12 U	13 U	11 U	11 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	12 U	12 U	13 U	11 U	11 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Chloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	12 U	13 U	11 U	11 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	12 U	12 U	13 U	11 U	11 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	18	22	20	12	12
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	12 U	13 U	11 U	11 U
Styrene	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	12 U	13 U	11 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	3 J	3 J	2 J	5 J	8 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	12 U	13 U	11 U	11 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	11 U	11 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	12 U	12 U	13 U	11 U	11 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-21 Ditchsoil 573014	SEAD-57 SD57-22 Ditchsoil 573015	SEAD-57 SD57-5 Ditchsoil 573016	SEAD-57 SD57-15 Ditchsoil 573017	SEAD-57 SD57-12 Ditchsoil 573018
								0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/07/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	12 U	12 U	13 U	11 U	11 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	220 U	220 U	240 U	210 UJ	210 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	220 UR	220 UR	240 UR	210 UR	210 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	89 U	87 U	94 U	84 UJ	82 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	220 U	240 U	210 UJ	210 UJ
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	89 UJ	87 UJ	94 UJ	84 UJ	82 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	240 UJ	210 UJ	210 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	240 UJ	210 UJ	210 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	89 UJ	87 UJ	94 UJ	84 UJ	82 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	89 U	87 U	94 U	84 UJ	82 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	220 U	240 U	210 UJ	210 UJ
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	240 UJ	210 UJ	210 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	89 U	87 U	94 U	84 UJ	82 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-21 Ditchsoil 573014	SEAD-57 SD57-22 Ditchsoil 573015	SEAD-57 SD57-5 Ditchsoil 573016	SEAD-57 SD57-15 Ditchsoil 573017	SEAD-57 SD57-12 Ditchsoil 573018
								0.2 01/07/00 SA P1S1 RI	0.2 01/07/00 SA P1S1 RI	0.2 01/07/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	7.5 J	8.4 J	94 U	17 J	82 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	14 J	12 J	94 U	18 J	82 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	10 J	12 J	94 U	13 J	82 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	89 UJ	87 UJ	94 UJ	28 J	82 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	10 J	7.8 J	94 UJ	14 J	82 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	89 U	87 U	94 U	84 UJ	82 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	89 U	87 U	94 U	84 UJ	10 J
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Carbazole	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	14 J	14 J	94 U	22 J	82 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	89 U	87 U	94 U	84 UJ	5.2 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	89 UJ	87 UJ	94 UJ	84 UJ	82 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	89 U	87 U	94 U	84 UJ	82 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	89 UJ	87 UJ	94 UJ	84 UJ	82 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	18 J	16 J	94 U	28 J	82 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	89 U	87 U	94 U	84 UJ	82 UJ
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Hexachloroethane	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	89 U	87 U	94 U	12 J	82 UJ
Isophorone	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	89 U	87 U	94 U	84 UJ	82 UJ
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	89 U	87 U	94 U	84 UJ	82 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	89 U	87 U	94 U	84 UJ	82 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	220 UJ	220 UJ	240 UJ	210 UJ	210 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	11 J	10 J	94 U	12 J	82 UJ
Phenol	UG/KG	51	13%	330	0	16	119	18 J	24 J	94 U	84 UJ	82 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-21	SEAD-57 SD57-22	SEAD-57 SD57-5	SEAD-57 SD57-15	SEAD-57 SD57-12
								Ditchsoil 573014	Ditchsoil 573015	Ditchsoil 573016	Ditchsoil 573017	Ditchsoil 573018
								0.2	0.2	0.2	0.2	0.2
								01/07/00	01/07/00	01/07/00	01/08/00	01/08/00
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	21 J	20 J	94 U	36 J	82 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	44 U	43 U	47 U	42 U	41 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	90 U	88 U	96 U	85 U	84 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	44 U	43 U	47 U	42 U	41 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	44 U	43 U	47 U	42 U	41 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	44 U	43 U	47 U	42 U	41 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	44 U	43 U	47 U	42 U	41 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	44 U	43 U	47 U	42 U	41 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-21 Ditchsoil 573014	SEAD-57 SD57-22 Ditchsoil 573015	SEAD-57 SD57-5 Ditchsoil 573016	SEAD-57 SD57-15 Ditchsoil 573017	SEAD-57 SD57-12 Ditchsoil 573018
								0.2 01/07/00 SA P1S1 RI	0 01/07/00 SA P1S1 RI	0 01/07/00 SA P1S1 RI	0 01/08/00 SA P1S1 RI	0 01/08/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Endrin	UG/KG	0	0%	14	0	0	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.4 U	4.3 U	4.7 U	4.2 U	4.1 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.2 U	2.4 U	2.2 U	2.1 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	23 U	22 U	24 U	22 U	21 U
Toxaphene	UG/KG	0	0%	0	0	0	119	230 U	220 U	240 U	220 U	210 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	15900 J	15700 J	16400 J	14800 J	16700 J
Antimony	MG/KG	6.5	49%	0	0	58	119	0.55 U	0.56 U	0.57 U	0.5 UJ	0.54 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.1	5.7	5	6.3	3.3
Barium	MG/KG	237	100%	350	0	119	119	108	122	135	104	139
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.76 J	0.83 J	0.85 J	1 J	0.93 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.4 J	0.42 J	0.12 J	0.05 U	0.04 U
Calcium	MG/KG	213000	100%	0	0	119	119	3110	2830	3540	3770	3040
Chromium	MG/KG	32.1	100%	30	2	119	119	21.5	20.8	20.2	27 J	23.3 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.2 J	8.9 J	10.6 J	14.8	9.5 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-21 Ditchsoil 573014	SEAD-57 SD57-22 Ditchsoil 573015	SEAD-57 SD57-5 Ditchsoil 573016	SEAD-57 SD57-15 Ditchsoil 573017	SEAD-57 SD57-12 Ditchsoil 573018
								0.2 01/07/00 SA P1S1 RI	0.2 01/07/00 SA P1S1 RI	0.2 01/07/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	19.8	20.5	17.8	36.2	21.1
Cyanide	MG/KG	0	0%	27	0	0	119	0.63 U	0.65 U	0.68 U	0.58 U	0.56 U
Iron	MG/KG	39800	100%	0	0	119	119	25400 J	22700 J	24500 J	33800	26100
Lead	MG/KG	1860	100%	63	2	119	119	21.1	24.7	15.7	20 J	14.1 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3930	3660	3870	5130	5920
Manganese	MG/KG	2580	100%	1600	5	119	119	307	461	707	292 J	420 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.09 J	0.08 J	0.08 J	0.08 J	0.08 J
Nickel	MG/KG	54.1	100%	30	37	119	119	24.5 J	23.5 J	21 J	39	35.2
Potassium	MG/KG	3250	100%	0	0	119	119	1910	1830	1910	1080 J	1680
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.8	0.72 J	1.9	0.8 J	0.77 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.33 UJ	0.34 UJ	0.29 UJ	0.44 J
Sodium	MG/KG	270	34%	0	0	41	119	75.3 J	73.5 U	75.3 U	89.8 J	57 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.7 J	3.8	3.3	1.2 J	1 J
Vanadium	MG/KG	104	99%	0	0	118	119	26.1	25.8	26	27	25.9
Zinc	MG/KG	1250	93%	109	11	111	119	87	83.8	68	98.6	73.9
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	11.3	13	19	12.5	10.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.34	0.09	0.18	0.01	0.09
Percent Solids	% WW	94	100%	0	0	101	101	73.6	76.4	70.4	79.3	79.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.43	7.65	6.93	7.83	7.31
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	31300	44600	27500	18200	36200

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-6 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	14 U	23 U	12 U	16 U	15 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	14 U	23 U	12 U	16 U	15 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	14 U	23 U	12 U	16 U	15 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	14 UJ	23 U	12 U	16 UJ	15 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	14 U	23 U	12 U	16 U	15 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Acetone	UG/KG	700	74%	50	87	94	127	230 J	700 J	250 J	360 J	200 J
Benzene	UG/KG	1	2%	60	0	2	127	14 U	23 U	12 U	16 U	15 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Bromoform	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	23 U	12 U	16 U	15 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	14 U	23 U	12 U	16 U	15 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	14 U	23 U	12 U	16 U	15 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Chloroethane	UG/KG	0	0%	0	0	0	127	14 U	23 UJ	12 UJ	16 U	15 UJ
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	23 U	12 U	16 U	15 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	14 U	23 U	12 U	16 U	15 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	24	64	19	31	22
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	23 U	12 U	16 U	15 U
Styrene	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	14 U	23 U	12 U	16 U	15 U
Toluene	UG/KG	33	65%	700	0	82	127	16	7 J	5 J	9 J	6 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	23 U	12 U	16 U	15 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	23 U	12 U	16 U	15 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	14 U	23 U	12 U	16 U	15 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-6 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	14 U	23 U	12 U	16 U	15 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	250 UJ	310 UJ	250 UJ	250 UJ	240 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	250 UJ	310 UR	250 UR	250 UR	240 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	250 UJ	310 UJ	250 UJ	250 UJ	240 UJ
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	250 UJ	310 UJ	250 UJ	250 UJ	240 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	250 UJ	310 UJ	250 UJ	250 UJ	240 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	250 UJ	310 UJ	250 UJ	250 UJ	240 UJ
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	250 UJ	310 UJ	250 UJ	250 UJ	240 UR
Acenaphthene	UG/KG	0	0%	20000	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-6 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	98 UJ	120 UJ	100 UJ	100 UJ	5.8 J
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	5.7 J	120 UJ	38 J	100 UJ	94 UJ
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Carbazole	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	98 UJ	9.2 J	5.3 J	7 J	6.5 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	7.6 J	9.2 J	100 UJ	76 J	6.8 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	6 J	15 J	9.3 J	12 J	11 J
Fluorene	UG/KG	120	2%	30000	0	2	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Hexachloroethane	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Isophorone	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	250 UJ	310 UJ	250 UJ	250 UJ	240 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	98 UJ	7.6 J	100 UJ	6.9 J	6.3 J
Phenol	UG/KG	51	13%	330	0	16	119	98 UJ	120 UJ	100 UJ	100 UJ	94 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-6 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/08/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	5.2 J	15 J	8.9 J	11 J	10 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	49 U	62 U	51 U	51 U	47 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	100 U	130 U	100 U	100 U	96 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	49 U	62 U	51 U	51 U	47 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	49 U	62 U	51 U	51 U	47 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	49 U	62 U	51 U	51 U	47 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	49 U	62 U	51 U	51 U	47 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	49 U	62 U	51 U	51 U	47 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-31 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								0.2 01/08/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI	0.2 01/08/00 SA P1S1 RI	0.2 01/09/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Endrin	UG/KG	0	0%	14	0	0	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.9 U	6.2 U	5.1 U	5.1 U	4.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	3.2 U	2.6 U	2.6 U	2.4 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	25 U	32 U	26 U	26 U	24 U
Toxaphene	UG/KG	0	0%	0	0	0	119	250 U	320 U	260 U	260 U	240 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	13100 J	14500 J	16000 J	13400 J	13800 J
Antimony	MG/KG	6.5	49%	0	0	58	119	1.1 J	2.2 J	0.94 J	0.49 UJ	0.56 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.6	6.3	5.3	3.5	5.5
Barium	MG/KG	237	100%	350	0	119	119	87.8	132	105	92.3	96.2
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.82 J	0.99 J	1.1 J	0.75 J	0.96 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.16 J	0.05 U	0.04 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	4140	7380	3130	3440	2740
Chromium	MG/KG	32.1	100%	30	2	119	119	19.2 J	21.3 J	20 J	16.2 J	17.2 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.7 J	9.8 J	13.4 J	7.2 J	9.6 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-23 Ditchsoil 573019	SEAD-57 SD57-31 Ditchsoil 573020	SEAD-57 SD57-31 Ditchsoil 573021	SEAD-57 SD57-32 Ditchsoil 573022	SEAD-57 SD57-27 Ditchsoil 573023
								01/08/00 SA P1S1 RI	01/08/00 SA P1S1 RI	01/08/00 SA P1S1 RI	01/08/00 SA P1S1 RI	01/09/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	22.1	44.4	20.6	17.8	15.3
Cyanide	MG/KG	0	0%	27	0	0	119	0.75 U	0.94 U	0.73 U	0.68 U	0.72 U
Iron	MG/KG	39800	100%	0	0	119	119	24500	37200	27300	18400	30100 J
Lead	MG/KG	1860	100%	63	2	119	119	25.7 J	33.2 J	28.7 J	25.3 J	24.1 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3880	4310	4130	3320	3140
Manganese	MG/KG	2580	100%	1600	5	119	119	271 J	292 J	737 J	320 J	619 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.12 J	0.15	0.12 J	0.12 J	0.07 U
Nickel	MG/KG	54.1	100%	30	37	119	119	26.9	28.8	24.3	18.3	16.2
Potassium	MG/KG	3250	100%	0	0	119	119	1310 J	1520 J	1280 J	986 J	1170 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.83 J	0.9 U	0.68 U	0.79 J	0.62 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.35 UJ	0.47 UJ	0.36 J	0.3 J	0.37 J
Sodium	MG/KG	270	34%	0	0	41	119	77.8 U	104 U	104 J	64.3 U	72 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.86 U	1.1 U	1.4 J	1.3 J	1.8 J
Vanadium	MG/KG	104	99%	0	0	118	119	23	27.1	29.8	25.1	29.3
Zinc	MG/KG	1250	93%	109	11	111	119	88.6	144	69.7	59.7	50.9
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	11	31.4	26.8	24.4	15.5
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.27	0.04	0.24	0.11	0.44
Percent Solids	% WW	94	100%	0	0	101	101	66.9	53.1	65.4	64.7	69.7
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.32	6.84	6.76	6.23	6.86
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	38300	70500	41900	35900	28000

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-28 Ditchsoil 573024	SEAD-57 SD57-29 Ditchsoil 573025	SEAD-57 SD57-30 Ditchsoil 573026	SEAD-57 SD57-10 Ditchsoil 573030	SEAD-57 SD57-9 Ditchsoil 573032
								0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	12 U	13 U	13 U	11 U	10 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	12 U	13 U	13 U	11 U	10 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	12 U	13 U	13 U	11 U	10 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	12 U	13 U	13 U	11 U	10 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	12 U	13 U	13 U	11 U	10 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Acetone	UG/KG	700	74%	50	87	94	127	250 J	260 J	240 J	130 J	80
Benzene	UG/KG	1	2%	60	0	2	127	12 U	13 U	13 U	11 U	10 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Bromoform	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	13 U	13 U	2 J	10 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	12 U	13 U	13 U	11 U	10 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	12 U	13 U	13 U	11 U	10 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Chloroethane	UG/KG	0	0%	0	0	0	127	12 UJ	13 UJ	13 U	11 U	10 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	13 U	13 U	11 U	10 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	12 U	13 U	13 U	11 U	10 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	19	25	30	13	9 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	13 U	13 U	1 J	1 J
Styrene	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	13 U	13 U	11 U	10 U
Toluene	UG/KG	33	65%	700	0	82	127	5 J	6 J	6 J	6 J	7 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	13 U	13 U	11 U	10 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	13 U	13 U	11 U	10 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	12 U	13 U	13 U	11 U	10 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-28 Ditchsoil 573024	SEAD-57 SD57-29 Ditchsoil 573025	SEAD-57 SD57-30 Ditchsoil 573026	SEAD-57 SD57-10 Ditchsoil 573030	SEAD-57 SD57-9 Ditchsoil 573032
								0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	12 U	13 U	13 U	11 U	10 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	230 UJ	230 UJ	230 UJ	230 UJ	200 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	230 UR	230 UR	230 UR	230 UR	200 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	230 UJ	230 UJ	230 UJ	230 UJ	200 UJ
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	230 UJ	230 UJ	230 UJ	230 UJ	200 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	230 UJ	230 UJ	230 UJ	230 UJ	200 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	230 UJ	230 UJ	230 UJ	230 UJ	200 UJ
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	230 UR	230 UR	230 UR	230 UJ	200 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-28 Ditchsoil 573024	SEAD-57 SD57-29 Ditchsoil 573025	SEAD-57 SD57-30 Ditchsoil 573026	SEAD-57 SD57-10 Ditchsoil 573030	SEAD-57 SD57-9 Ditchsoil 573032
								0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Carbazole	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	92 UJ	7.6 J	92 UJ	7 J	20 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	92 UJ	6.1 J	92 UJ	90 UJ	81 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Hexachloroethane	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Isophorone	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	230 UJ	230 UJ	230 UJ	230 UJ	200 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ
Phenol	UG/KG	51	13%	330	0	16	119	92 UJ	93 UJ	92 UJ	90 UJ	81 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-28 Ditchsoil 573024	SEAD-57 SD57-29 Ditchsoil 573025	SEAD-57 SD57-30 Ditchsoil 573026	SEAD-57 SD57-10 Ditchsoil 573030	SEAD-57 SD57-9 Ditchsoil 573032
								0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	92 UJ	6 J	92 UJ	90 UJ	81 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	46 UJ	46 UJ	46 UJ	45 U	41 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	93 UJ	94 UJ	93 UJ	92 U	83 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	46 UJ	46 UJ	46 UJ	45 U	41 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	46 UJ	46 UJ	46 UJ	45 U	41 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	46 UJ	46 UJ	46 UJ	45 U	41 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	46 UJ	46 UJ	46 UJ	45 U	41 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	46 UJ	46 UJ	46 UJ	45 U	41 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-28 Ditchsoil 573024	SEAD-57 SD57-29 Ditchsoil 573025	SEAD-57 SD57-30 Ditchsoil 573026	SEAD-57 SD57-10 Ditchsoil 573030	SEAD-57 SD57-9 Ditchsoil 573032
								0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Endrin	UG/KG	0	0%	14	0	0	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.6 UJ	4.6 UJ	4.6 UJ	4.5 U	4.1 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.4 UJ	2.4 UJ	2.4 UJ	2.3 U	2.1 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	24 UJ	24 UJ	24 UJ	23 U	21 U
Toxaphene	UG/KG	0	0%	0	0	0	119	240 UJ	240 UJ	240 UJ	230 U	210 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14300 J	16100 J	14700 J	17100 J	9990 J
Antimony	MG/KG	6.5	49%	0	0	58	119	0.49 J	0.76 J	0.5 J	0.76 J	0.52 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.7	4.3	4.1	6.7	3.3
Barium	MG/KG	237	100%	350	0	119	119	74.5	118	85.7	162	88.5
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.74 J	1 J	0.82 J	1.3	0.59 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.05 U	0.04 U	0.46 J	0.9 J
Calcium	MG/KG	213000	100%	0	0	119	119	1580	3180	2050	2800	2540
Chromium	MG/KG	32.1	100%	30	2	119	119	18.8 J	19.7 J	18.8 J	24.2 J	14.2 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	7.6 J	12.1	8.8 J	29.7	6.2 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-28 Ditchsoil 573024	SEAD-57 SD57-29 Ditchsoil 573025	SEAD-57 SD57-30 Ditchsoil 573026	SEAD-57 SD57-10 Ditchsoil 573030	SEAD-57 SD57-9 Ditchsoil 573032
								0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/09/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	14.8	20.1	17.5	21.7	16.6
Cyanide	MG/KG	0	0%	27	0	0	119	0.68 U	0.64 U	0.65 U	0.69 U	0.59 U
Iron	MG/KG	39800	100%	0	0	119	119	25400 J	24600 J	23700 J	34800 J	17500 J
Lead	MG/KG	1860	100%	63	2	119	119	17.4 J	25.3 J	21.6 J	22.1 J	8.3 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3360	4210	3650	4780	3210
Manganese	MG/KG	2580	100%	1600	5	119	119	346 J	872 J	426 J	1620 J	253 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 U	0.07 U	0.06 U	0.07 J	0.06 U
Nickel	MG/KG	54.1	100%	30	37	119	119	17.2	21.6	21	31.7	19.5
Potassium	MG/KG	3250	100%	0	0	119	119	1030 J	1150 J	1150	1500	901 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.54 J	0.59 U	1.4	1.2	0.59 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 J	0.51 J	0.28 UJ	0.31 J	0.31 UJ
Sodium	MG/KG	270	34%	0	0	41	119	61.3 U	68 U	62.1 U	56.9 U	71.3 J
Thallium	MG/KG	6.7	82%	0	0	98	119	1 J	0.75 U	1.2 J	2.7	1.2 J
Vanadium	MG/KG	104	99%	0	0	118	119	28.1	30.1	27.5	33.1	20
Zinc	MG/KG	1250	93%	109	11	111	119	47.2	70.8	59	64.2	41.2
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	13.5	12	11.5	10.8	11.4
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.07	0.25	0.33	0.15	0.04
Percent Solids	% WW	94	100%	0	0	101	101	72	71.4	72.2	72.6	80.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	6.25	6.79	6.5	7	6.72
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	15000	22000	19200	23400	16400

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-19 Ditchsoil 573033	SEAD-57 SD57-20 Ditchsoil 573034	SEAD-57 SD57-1 Ditchsoil 573035	SEAD-57 SD57-25 Ditchsoil 573036	SEAD-57 SB57-1 SOIL 574013
								0.2 01/10/00 SA P1S1 RI	0.2 01/10/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	11 U	11 U	17 U	12 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 UJ
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	11 U	11 U	17 U	12 U	11 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	11 U	11 U	17 U	12 U	11 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	11 U	11 U	17 UJ	12 UJ	11 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	11 U	11 U	17 U	12 U	11 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Acetone	UG/KG	700	74%	50	87	94	127	83	84	170 J	100 J	300 J
Benzene	UG/KG	1	2%	60	0	2	127	11 U	11 U	17 U	12 U	11 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Bromoform	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 UJ
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	11 U	17 U	2 J	22
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	11 U	11 U	17 U	12 U	11 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	11 U	11 U	17 U	12 U	11 UJ
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Chloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	11 U	17 U	12 U	11 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	11 U	11 U	17 U	12 U	11 UJ
Methyl bromide	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 UJ
Methyl chloride	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	10 J	7 J	15 J	13	32 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	11 U	11 U	17 U	12 U	11 U
Styrene	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 UJ
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	11 U	11 U	17 U	12 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	6 J	2 J	13 J	9 J	2 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	11 U	17 U	12 U	11 UJ
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	11 U	17 U	12 U	11 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	11 U	11 U	17 U	12 U	11 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-19 Ditchsoil 573033	SEAD-57 SD57-20 Ditchsoil 573034	SEAD-57 SD57-1 Ditchsoil 573035	SEAD-57 SD57-25 Ditchsoil 573036	SEAD-57 SB57-1 SOIL 574013
								0.2	0.2	0.2	0.2	0
								01/10/00	01/10/00	01/11/00	01/11/00	12/03/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	11 U	11 U	17 U	12 U	11 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	260 UJ	230 UJ	280 UJ	220 UJ	200 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	260 UR	230 UJ	280 UJ	220 UJ	200 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	260 UJ	230 UJ	280 UJ	220 UJ	200 UJ
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	260 UJ	230 UJ	280 UJ	220 UJ	200 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	260 UJ	230 UJ	280 UJ	220 UJ	200 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	100 UJ	6.3 J	110 UJ	88 UJ	84 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	260 UJ	230 UJ	280 UJ	220 UJ	200 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	260 UJ	230 UJ	280 UJ	220 UJ	200 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-19 Ditchsoil 573033	SEAD-57 SD57-20 Ditchsoil 573034	SEAD-57 SD57-1 Ditchsoil 573035	SEAD-57 SD57-25 Ditchsoil 573036	SEAD-57 SB57-1 SOIL 574013
								0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	14 J	10 J	7.2 J	4.7 J	84 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	25 J	13 J	8.9 J	5.9 J	84 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	18 J	14 J	9.3 J	5.4 J	84 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	14 J	7.8 J	110 UJ	88 UJ	84 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	20 J	13 J	9.2 J	6.7 J	84 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	100 UJ	13 J	110 UJ	88 UJ	84 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Carbazole	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	28 J	19 J	9.5 J	7.2 J	84 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	18 J	13 J	6.5 J	4.7 J	84 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	100 UJ	93 UJ	110 UJ	88 UJ	84 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	35 J	25 J	15 J	9 J	84 U
Fluorene	UG/KG	120	2%	30000	0	2	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	11 J	6.3 J	110 UJ	88 UJ	84 U
Isophorone	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	260 UJ	230 UJ	280 UJ	220 UJ	200 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	23 J	17 J	8.7 J	4.8 J	84 U
Phenol	UG/KG	51	13%	330	0	16	119	100 UJ	93 UJ	110 UJ	88 UJ	84 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-19 Ditchsoil 573033	SEAD-57 SD57-20 Ditchsoil 573034	SEAD-57 SD57-1 Ditchsoil 573035	SEAD-57 SD57-25 Ditchsoil 573036	SEAD-57 SB57-1 SOIL 574013
								0.2 01/10/00 SA P1S1 RI	0.2 01/10/00 SA P1S1 RI	0.2 01/11/00 SA P1S1 RI	0.2 01/11/00 SA P1S1 RI	0 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	48 J	30 J	12 J	8.1 J	84 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	52 U	46 U	57 U	44 U	42 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	100 U	94 U	120 U	89 U	85 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	52 U	46 U	57 U	44 U	42 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	52 U	46 U	57 U	44 U	42 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	52 U	46 U	57 U	44 U	42 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	52 U	46 U	57 U	44 U	42 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	52 U	46 U	57 U	44 U	42 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-19 Ditchsoil 573033	SEAD-57 SD57-20 Ditchsoil 573034	SEAD-57 SD57-1 Ditchsoil 573035	SEAD-57 SD57-25 Ditchsoil 573036	SEAD-57 SB57-1 SOIL 574013
								0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Endrin	UG/KG	0	0%	14	0	0	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	5.2 U	4.6 U	5.7 U	4.4 U	4.2 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.6 U	2.4 U	2.9 U	2.3 U	2.2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	26 U	24 U	29 U	23 U	22 U
Toxaphene	UG/KG	0	0%	0	0	0	119	260 U	240 U	290 U	230 U	220 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	17800 J	16300 J	16200	14400	14200
Antimony	MG/KG	6.5	49%	0	0	58	119	1.1 J	0.75 J	0.68 U	0.56 U	1.1 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.6	4.7	4.4	8.5	4.9
Barium	MG/KG	237	100%	350	0	119	119	169	149	162	121	129
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1 J	0.96 J	0.95 J	0.96 J	0.7 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.16 J	0.17 J	0.63 J	0.05 U	0.07 J
Calcium	MG/KG	213000	100%	0	0	119	119	3670	3620	6110	14600	4090
Chromium	MG/KG	32.1	100%	30	2	119	119	25.2 J	24.4 J	22.8	18.7	21.3
Cobalt	MG/KG	29.7	100%	0	0	119	119	12	10.7 J	9.5 J	8.6 J	11.5

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SD57-19 Ditchsoil 573033	SEAD-57 SD57-20 Ditchsoil 573034	SEAD-57 SD57-1 Ditchsoil 573035	SEAD-57 SD57-25 Ditchsoil 573036	SEAD-57 SB57-1 SOIL 574013
								0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/10/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 0.2 01/11/00 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	29.6	26.7	33.7	23.5	25.1
Cyanide	MG/KG	0	0%	27	0	0	119	0.61 U	0.68 U	0.83 U	0.61 U	0.63 U
Iron	MG/KG	39800	100%	0	0	119	119	32200 J	29900 J	24600	23900	26100 J
Lead	MG/KG	1860	100%	63	2	119	119	28.6 J	22.2 J	30.4	22.9	20.4
Magnesium	MG/KG	27600	100%	0	0	119	119	5530	5180	4310	4310	4530
Manganese	MG/KG	2580	100%	1600	5	119	119	409 J	601 J	373	478	915
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 U	0.06 U	0.1 J	0.07 J	0.11 J
Nickel	MG/KG	54.1	100%	30	37	119	119	36.7	41.8	27	23.1	29.3
Potassium	MG/KG	3250	100%	0	0	119	119	1740	1520	2350	1650	1470 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.3	0.84 J	0.77 U	0.64 U	0.54 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 UJ	0.31 UJ	0.31 UJ	0.26 UJ	0.56 J
Sodium	MG/KG	270	34%	0	0	41	119	62.3 U	68.8 U	89.3 U	73.8 U	198 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.3 J	2.6	2.8 J	2.5 J	2.3
Vanadium	MG/KG	104	99%	0	0	118	119	32.7	27.4	28.3	26 UJ	23
Zinc	MG/KG	1250	93%	109	11	111	119	91.2	96.1	135	65.7	84.5
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32	11.8	18	30	10.9	
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.14	0.22	0.22	0.08	0.15
Percent Solids	% WW	94	100%	0	0	101	101	64	71.2	57.8	75.3	78.9
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33	7.35	6.99	6.63	7.65	
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32	9580	31000	51900	16700	

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	9 UJ	9 UJ	10 U	9 UJ	9 UJ
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ
Acetone	UG/KG	700	74%	50	87	94	127	22 UJ	25 UJ	83 J	9 UJ	17 J
Benzene	UG/KG	1	2%	60	0	2	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ
Bromoform	UG/KG	0	0%	0	0	0	127	9 UJ	9 UJ	10 U	9 UJ	9 UJ
Carbon disulfide	UG/KG	22	11%	0	0	14	127	2 J	9 U	10 U	9 UJ	1 J
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	9 UJ	9 UJ	10 U	9 UJ	9 UJ
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ
Chloroethane	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Chloroform	UG/KG	7	1%	370	0	1	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	9 UJ	9 UJ	10 U	9 UJ	9 UJ
Methyl bromide	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	9 UJ	9 UJ	10 UJ	9 UR	9 UJ
Methyl chloride	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	9 UJ	9 UJ	10 UJ	9 UR	9 UJ
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ
Methylene chloride	UG/KG	1	2%	50	0	2	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Styrene	UG/KG	0	0%	0	0	0	127	9 UJ	9 UJ	10 U	9 UJ	9 UJ
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	9 UJ	9 U	10 U	9 UR	9 UJ
Toluene	UG/KG	33	65%	700	0	82	127	9 UJ	9 U	10 U	1 J	9 UJ
Total Xylenes	UG/KG	2	2%	260	0	3	127	9 UJ	9 UJ	10 U	9 UJ	9 UJ
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ
Trichloroethene	UG/KG	0	0%	470	0	0	127	9 UJ	9 U	10 U	9 UR	9 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2	4	0	2	4
								12/03/99 SA	12/03/99 SA	12/03/99 SA	12/03/99 SA	12/03/99 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	9 UJ	9 U	10 U	9 UJ	9 UJ
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	78 U	74 U	93 U	76 U	74 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	78 U	74 U	93 U	76 U	74 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	78 U	74 U	93 U	76 U	74 UJ
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	190 U	180 U	220 U	180 U	180 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	190 UJ	180 UJ	220 UJ	180 UJ	180 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 UJ	76 U	74 UJ
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	78 U	74 U	93 U	76 U	74 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	190 UJ	180 UJ	220 UJ	180 UJ	180 UJ
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	190 UJ	180 UJ	220 UJ	180 UJ	180 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	190 UJ	180 UJ	220 UJ	180 UJ	180 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	190 U	180 U	220 U	180 U	180 UJ
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	190 UJ	180 UJ	220 UJ	180 UJ	180 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	78 U	74 U	93 U	76 U	74 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	78 U	74 U	93 U	76 U	7.9 J
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	78 U	74 U	93 U	76 U	74 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	78 U	74 U	93 U	76 U	74 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	78 U	74 U	93 U	76 U	74 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	78 U	74 U	93 U	76 U	74 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	78 U	74 U	93 U	76 U	74 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	78 U	74 U	93 U	76 U	170 J
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Carbazole	UG/KG	0	0%	0	0	0	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	78 U	74 U	93 U	76 U	12 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	78 U	74 U	93 U	76 U	74 UJ
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	78 U	74 U	93 U	76 U	74 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	78 U	74 U	93 U	76 U	74 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	78 UJ	74 UJ	93 U	76 UJ	74 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	78 U	74 U	93 U	76 U	74 UJ
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Hexachloroethane	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	78 UJ	74 UJ	93 U	76 UJ	74 UJ
Isophorone	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	78 U	74 U	93 U	76 U	74 UJ
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	78 U	74 U	93 U	76 U	74 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	78 U	74 U	93 U	76 U	74 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	190 UJ	180 UJ	220 UJ	180 UJ	180 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	78 U	74 U	93 U	76 U	74 UJ
Phenol	UG/KG	51	13%	330	0	16	119	78 U	74 U	93 U	76 U	74 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2	4	0	2	4
								12/03/99 SA	12/03/99 SA	12/03/99 SA	12/03/99 SA	12/03/99 SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	78 UJ	74 UJ	93 UJ	76 UJ	74 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Aldrin	UG/KG	0	0%	5	0	0	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.2 J	1.9 U	2.4 U	2 U	1.9 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	39 U	37 U	46 U	38 U	37 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	80 U	75 U	94 U	77 U	75 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	39 U	37 U	46 U	38 U	37 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	39 U	37 U	46 U	38 U	37 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	39 U	37 U	46 U	38 U	37 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	39 U	37 U	46 U	38 U	37 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	39 U	37 U	46 U	38 U	37 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Endrin	UG/KG	0	0%	14	0	0	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.9 U	3.7 U	4.6 U	3.8 U	3.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2 U	1.9 U	2.4 U	2 U	1.9 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	20 U	19 U	24 U	20 U	19 U
Toxaphene	UG/KG	0	0%	0	0	0	119	200 U	190 U	240 U	200 U	190 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	13500	10700	13700	12500	11100
Antimony	MG/KG	6.5	49%	0	0	58	119	1.7 J	0.91 J	1.3 UR	1.1 UR	1.2 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	2.6	3.5	5.5	4.4	4.2
Barium	MG/KG	237	100%	350	0	119	119	121	42	105	84.8	68.9
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.63 J	0.48 J	0.62 J	0.62 J	0.48 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.06 U	0.05 U	0.08 U	0.07 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	75300	3240	3970	73900	68300
Chromium	MG/KG	32.1	100%	30	2	119	119	22.3	18.7	18.6	21.8	24.4
Cobalt	MG/KG	29.7	100%	0	0	119	119	6.9 J	11.1	9.5 J	11.4	8.7 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-1 SOIL 574014	SEAD-57 SB57-1 SOIL 574015	SEAD-57 SB57-2 SOIL 574010	SEAD-57 SB57-2 SOIL 574011	SEAD-57 SB57-2 SOIL 574012
								2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	26.6	27	23.1	33.9	20
Cyanide	MG/KG	0	0%	27	0	0	119	0.57 U	0.53 U	0.69 U	0.53 U	0.53 U
Iron	MG/KG	39800	100%	0	0	119	119	24400 J	23100 J	23700 J	27200 J	19700 J
Lead	MG/KG	1860	100%	63	2	119	119	9.7	6.7	25	13.3	5.5
Magnesium	MG/KG	27600	100%	0	0	119	119	8530	4800	3480	11900	7490
Manganese	MG/KG	2580	100%	1600	5	119	119	178	550	508	314	330
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 J	0.09 J	0.11 J	0.06 J	0.05 J
Nickel	MG/KG	54.1	100%	30	37	119	119	35.1	33.1	19.5	41.5	29.1
Potassium	MG/KG	3250	100%	0	0	119	119	1350 J	1020 J	1750 J	1920 J	1680 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.45 U	0.48 UJ	0.75 J	0.53 U	0.51 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.41 J	0.37 J	0.58 J	0.5 J	0.36 J
Sodium	MG/KG	270	34%	0	0	41	119	163 U	149 U	230 U	194 U	270 J
Thallium	MG/KG	6.7	82%	0	0	98	119	1.2 J	2	2.4 J	2.1 J	1.3 J
Vanadium	MG/KG	104	99%	0	0	118	119	19.8	14.6	25.3	20.5	17.5
Zinc	MG/KG	1250	93%	109	11	111	119	90.7	75.2	82.9	135	70.2
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.14	0.38	0.39	0.1	0.12
Percent Solids	% WW	94	100%	0	0	101	101	84.4	89.1	71.1	86.8	89
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-3 SOIL 574007	SEAD-57 SB57-3 SOIL 574008	SEAD-57 SB57-3 SOIL 574009	SEAD-57 SB57-4 SOIL 574004	SEAD-57 SB57-4 SOIL 574005
								0 2 12/02/99 SA P1S1 RI	2 4 12/02/99 SA P1S1 RI	4 6 12/02/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Acetone	UG/KG	700	74%	50	87	94	127	350 J	9 UJ	8 UJ	210 J	24 UJ
Benzene	UG/KG	1	2%	60	0	2	127	12 U	8 UJ	8 UJ	13 U	1 J
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Bromoform	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	8 UJ	3 J	13 U	10 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Chloroethane	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	8 UJ	8 UJ	13 U	10 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Methyl bromide	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	12 UJ	8 UJ	8 UJ	13 UJ	10 UJ
Methyl chloride	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	24	8 UJ	8 UJ	22 J	10 UJ
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	8 UJ	8 UJ	13 U	10 U
Styrene	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Toluene	UG/KG	33	65%	700	0	82	127	2 J	8 UJ	8 UJ	13 U	2 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	8 UJ	8 UJ	13 U	1 J
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ
Trichloroethene	UG/KG	0	0%	470	0	0	127	12 U	8 UJ	8 UJ	13 U	10 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-3 SOIL 574007	SEAD-57 SB57-3 SOIL 574008	SEAD-57 SB57-3 SOIL 574009	SEAD-57 SB57-4 SOIL 574004	SEAD-57 SB57-4 SOIL 574005
								0	2	4	0	2
								12/02/99	12/02/99	12/02/99	12/03/99	12/03/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	12 U	8 UJ	8 UJ	13 U	10 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	98 U	73 U	70 U	82 U	76 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	98 U	73 U	70 U	82 U	76 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	98 U	73 U	70 U	82 U	76 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	240 U	180 U	170 U	200 U	180 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	240 UR	180 UR	170 UJ	200 UR	180 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	98 UJ	73 UJ	70 U	82 UJ	76 UJ
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	98 U	73 U	70 U	82 U	76 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 UJ	180 UJ	170 UJ	200 UJ	180 UJ
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 UJ	180 UJ	170 UJ	200 UJ	180 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	240 UJ	180 UJ	170 UJ	200 UJ	180 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	98 U	73 U	70 U	82 U	76 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	98 UJ	73 UJ	70 UJ	82 UJ	76 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	240 U	180 U	170 U	200 U	180 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	240 UJ	180 UJ	170 UJ	200 UJ	180 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	98 U	73 U	70 U	82 U	76 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	98 U	73 U	70 U	82 U	76 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	98 U	73 U	70 U	82 U	76 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-3 SOIL 574007	SB57-3 SOIL 574008	SB57-3 SOIL 574009	SB57-4 SOIL 574004	SB57-4 SOIL 574005
								0	2	4	0	2
								2	4	6	2	4
								12/02/99	12/02/99	12/02/99	12/03/99	12/03/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	98 U	73 UJ	70 UJ	82 UJ	76 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	49 U	37 U	35 U	41 U	38 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	100 U	74 U	71 U	84 U	78 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	49 U	37 U	35 U	41 U	38 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	49 U	37 U	35 U	41 U	38 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	49 U	37 U	35 U	41 U	38 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	49 U	37 U	35 U	41 U	38 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	49 U	37 U	35 U	41 U	38 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-3 SOIL 574007	SEAD-57 SB57-3 SOIL 574008	SEAD-57 SB57-3 SOIL 574009	SEAD-57 SB57-4 SOIL 574004	SEAD-57 SB57-4 SOIL 574005
								0 2 12/02/99 SA P1S1 RI	2 4 12/02/99 SA P1S1 RI	4 6 12/02/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Endrin	UG/KG	0	0%	14	0	0	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.9 U	3.7 U	3.5 U	4.1 U	3.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.5 U	1.9 U	1.8 U	2.1 U	2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	25 U	19 U	18 U	21 U	20 U
Toxaphene	UG/KG	0	0%	0	0	0	119	250 U	190 U	180 U	210 U	200 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	16400	12500	18100	14800	10400
Antimony	MG/KG	6.5	49%	0	0	58	119	1.3 J	1.3 J	1 J	1 UR	1.1 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	6.3	3.7	6.3	4.7	3.7
Barium	MG/KG	237	100%	350	0	119	119	101	77.5	68.9	129	85.8
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.71 J	0.58 J	0.7 J	0.79 J	0.53 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.08 U	0.06 U	0.09 U	0.06 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	2590	27600	27000	22800	94000
Chromium	MG/KG	32.1	100%	30	2	119	119	22.5	19.6	32.1	22.4	17.2
Cobalt	MG/KG	29.7	100%	0	0	119	119	9.5 J	11.1	18.8	11	9.4

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-3 SOIL 574007	SEAD-57 SB57-3 SOIL 574008	SEAD-57 SB57-3 SOIL 574009	SEAD-57 SB57-4 SOIL 574004	SEAD-57 SB57-4 SOIL 574005
								0 2 12/02/99 SA P1S1 RI	2 4 12/02/99 SA P1S1 RI	4 6 12/02/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	26.5	32.3	36.1	29.8	24.5
Cyanide	MG/KG	0	0%	27	0	0	119	0.72 U	0.55 U	0.52 U	0.56 U	0.54 U
Iron	MG/KG	39800	100%	0	0	119	119	32700 J	24900 J	39800 J	26100 J	21700 J
Lead	MG/KG	1860	100%	63	2	119	119	23.3	16.8	4.4	12.3	8.5
Magnesium	MG/KG	27600	100%	0	0	119	119	4090	6850	8610	13500	9870
Manganese	MG/KG	2580	100%	1600	5	119	119	640	520	451	493	492
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.13 J	0.09 J	0.07 J	0.1 J	0.07 J
Nickel	MG/KG	54.1	100%	30	37	119	119	20.3	36.7	53.8	41.1	31.1
Potassium	MG/KG	3250	100%	0	0	119	119	1430 J	1290 J	1530 J	1370 J	1410 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.72 J	0.48 U	0.34 U	0.5 J	0.43 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.62 J	0.52 J	0.42 J	0.57 J	0.4 J
Sodium	MG/KG	270	34%	0	0	41	119	219 U	174 U	124 U	179 U	157 U
Thallium	MG/KG	6.7	82%	0	0	98	119	2.6	2 J	3.1	0.59 U	2.3
Vanadium	MG/KG	104	99%	0	0	118	119	32.3	21.3	25	23.3	15.9
Zinc	MG/KG	1250	93%	109	11	111	119	73.3	93.4	113	77.9	76.8
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.22	0.13	0.07	1.4	0.19
Percent Solids	% WW	94	100%	0	0	101	101	67	89.7	94	80	85.6
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-4 SOIL 574006	SEAD-57 SB57-5 SOIL 574002	SEAD-57 SB57-5 SOIL 574022	SEAD-57 SB57-5 SOIL 574003	SEAD-57 SB57-6 SOIL 574019
								4 6 12/03/99 SA P1S1 RI	0 2 12/01/99 SA P1S1 RI	2 4 12/07/99 SA P1S1 RI	4 5.2 12/01/99 SA P1S1 RI	0 2 12/05/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	9 U	12 U	8 UJ	8 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	9 UJ	12 U	8 UJ	8 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UR	8 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	9 U	12 U	8 UJ	8 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	9 U	12 U	8 UJ	8 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	9 U	12 U	8 UJ	8 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	9 U	12 U	8 UJ	8 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UR	8 U	12 U
Acetone	UG/KG	700	74%	50	87	94	127	17 UJ	68 J	8 UJ	14 J	77 J
Benzene	UG/KG	1	2%	60	0	2	127	9 U	12 U	8 UJ	8 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UR	8 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	127	9 UJ	12 U	8 UJ	8 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	9 U	12 U	1 J	8 U	12 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	9 U	12 U	8 UJ	8 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	9 UJ	12 U	8 UJ	8 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UR	8 U	12 U
Chloroethane	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UJ	8 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	9 U	12 U	8 UJ	8 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UR	8 U	12 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	9 UJ	12 U	8 UJ	8 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UJ	8 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	9 UJ	12 UJ	8 UR	8 UJ	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UJ	8 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	9 UJ	8 J	8 UR	8 U	8 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UR	8 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	9 U	12 U	8 UJ	8 U	12 U
Styrene	UG/KG	0	0%	0	0	0	127	9 UJ	12 U	8 UJ	8 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	9 U	12 U	8 UR	8 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	9 U	12 U	8 UR	8 U	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	9 UJ	12 U	8 UJ	8 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	9 U	12 U	8 UR	8 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	9 U	12 U	8 UR	8 U	12 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-4 SOIL 574006	SEAD-57 SB57-5 SOIL 574002	SEAD-57 SB57-5 SOIL 574022	SEAD-57 SB57-5 SOIL 574003	SEAD-57 SB57-6 SOIL 574019
								4 6 12/03/99 SA P1S1 RI	0 2 12/01/99 SA P1S1 RI	2 4 12/07/99 SA P1S1 RI	4 5.2 12/01/99 SA P1S1 RI	0 2 12/05/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	9 U	12 U	8 UJ	8 U	12 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	72 U	86 U	75 U	74 U	90 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	72 U	86 U	75 U	74 U	90 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	72 U	86 U	75 U	74 U	90 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	180 U	210 U	180 U	180 U	220 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	72 UJ	86 UJ	75 UJ	74 UJ	90 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	72 UJ	86 UJ	75 UJ	74 UJ	90 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	180 UR	210 UR	180 UR	180 UR	220 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 UJ	90 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	72 UJ	86 UJ	75 UJ	74 U	90 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	72 U	86 U	75 U	74 U	4.5 J
2-Methylphenol	UG/KG	0	0%	330	0	0	119	72 UJ	86 UJ	75 UJ	74 UJ	90 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	180 UJ	210 UJ	180 UJ	180 UJ	220 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	72 UJ	86 UJ	75 UJ	74 UJ	90 UR
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	180 UJ	210 UJ	180 UJ	180 UJ	220 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	180 UJ	210 UJ	180 UJ	180 UJ	220 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	72 UJ	86 UJ	75 UJ	74 UJ	90 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	72 UJ	86 UJ	75 UJ	74 UJ	90 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	72 UJ	86 UJ	75 UJ	74 UJ	4.9 J
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	180 U	210 U	180 U	180 U	220 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	180 UJ	210 UJ	180 UJ	180 UJ	220 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	72 U	86 U	75 U	74 U	90 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	72 U	86 U	75 U	74 U	90 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	72 U	86 U	75 U	74 U	90 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-4 SOIL 574006	SB57-5 SOIL 574002	SB57-5 SOIL 574022	SB57-5 SOIL 574003	SB57-6 SOIL 574019
								4	0	2	4	0
								6	2	4	5.2	2
								12/03/99	12/01/99	12/07/99	12/01/99	12/05/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	72 U	86 U	75 U	74 U	10 J
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	72 U	86 U	75 U	74 U	90 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	72 U	86 U	75 U	74 U	90 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	72 U	86 U	75 U	74 U	90 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	72 U	86 U	75 U	74 U	90 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	72 U	86 U	75 U	74 U	90 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	72 U	86 U	75 U	74 U	82 J
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
Carbazole	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 UJ	90 U
Chrysene	UG/KG	110	33%	1000	0	39	119	72 U	86 U	75 U	74 U	10 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	72 U	86 U	75 U	74 U	90 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	72 U	86 U	75 U	74 U	90 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	72 U	86 U	75 U	74 U	90 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	72 U	86 U	75 U	74 U	90 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	72 UJ	86 UJ	75 UJ	74 UJ	90 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	72 U	86 U	75 U	74 U	10 J
Fluorene	UG/KG	120	2%	30000	0	2	119	72 U	86 U	75 U	74 U	90 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	72 U	86 U	75 U	74 U	90 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 UJ	90 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	72 U	86 U	75 U	74 U	90 U
Isophorone	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	72 U	86 U	75 U	74 U	90 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	72 U	86 U	75 U	74 U	90 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	72 U	86 U	75 U	74 U	90 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	180 UJ	210 UJ	180 UJ	180 UJ	220 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	72 U	86 U	75 U	74 U	10 J
Phenol	UG/KG	51	13%	330	0	16	119	72 U	86 U	75 U	74 U	90 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-4	SB57-5	SB57-5	SB57-5	SB57-6
								SOIL	SOIL	SOIL	SOIL	SOIL
								574006	574002	574022	574003	574019
								4	0	2	4	0
								6	2	4	5.2	2
								12/03/99	12/01/99	12/07/99	12/01/99	12/05/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	72 UJ	86 UJ	75 UJ	74 UJ	9.9 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 UJ	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 UJ	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 UJ	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 UJ	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 UJ	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Aldrin	UG/KG	0	0%	5	0	0	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	36 U	43 U	38 U	37 U	45 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	74 U	88 U	76 U	75 U	92 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	36 U	43 U	38 U	37 U	45 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	36 U	43 U	38 U	37 U	45 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	36 U	43 U	38 U	37 U	45 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	36 U	43 U	38 U	37 U	45 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	36 U	43 U	38 U	37 U	45 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-4 SOIL 574006	SEAD-57 SB57-5 SOIL 574002	SEAD-57 SB57-5 SOIL 574022	SEAD-57 SB57-5 SOIL 574003	SEAD-57 SB57-6 SOIL 574019
								4	0	2	4	0
								6	2	4	5.2	2
								12/03/99	12/01/99	12/07/99	12/01/99	12/05/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Endrin	UG/KG	0	0%	14	0	0	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.6 U	4.3 U	3.8 U	3.7 U	4.5 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	1.9 U	2.2 U	1.9 U	1.9 U	2.3 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	19 U	22 U	19 U	19 U	23 U
Toxaphene	UG/KG	0	0%	0	0	0	119	190 U	220 U	190 U	190 U	230 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	11300	15600	15400	12200	16400
Antimony	MG/KG	6.5	49%	0	0	58	119	0.83 J	1.1 UR	1.5 J	1.5 J	0.73 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.3	4.2	5.6	3.3	4.5
Barium	MG/KG	237	100%	350	0	119	119	64	93.6	62.7	38.4	126
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.53 J	0.69 J	0.66 J	0.56 J	1.1 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.06 U	0.06 U	0.05 U	0.06 U
Calcium	MG/KG	213000	100%	0	0	119	119	77400	8570	17800	12400	5590
Chromium	MG/KG	32.1	100%	30	2	119	119	19.3	23.9	25.2	21.9	22.2
Cobalt	MG/KG	29.7	100%	0	0	119	119	13.8	10.8 J	17	12.4	11.7 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-4	SB57-5	SB57-5	SB57-5	SB57-6
								SOIL	SOIL	SOIL	SOIL	SOIL
								574006	574002	574022	574003	574019
								4	0	2	4	0
								6	2	4	5.2	2
								12/03/99	12/01/99	12/07/99	12/01/99	12/05/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	24.8	20.9	26.1	18.3	25.8
Cyanide	MG/KG	0	0%	27	0	0	119	0.52 U	0.61 U	0.55 U	0.56 U	0.66 U
Iron	MG/KG	39800	100%	0	0	119	119	25700 J	28700 J	32300	25500 J	28700
Lead	MG/KG	1860	100%	63	2	119	119	10.1	18.5	7.9 J	3.6	21.5 J
Magnesium	MG/KG	27600	100%	0	0	119	119	10300	4470	7560	5910	4330
Manganese	MG/KG	2580	100%	1600	5	119	119	573	555	543	427	644
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 J	0.09 J	0.04 U	0.06 J	0.09 J
Nickel	MG/KG	54.1	100%	30	37	119	119	39.2	26.7	44.5	34.9	33.4
Potassium	MG/KG	3250	100%	0	0	119	119	1370 J	1580 J	1230	1080 J	1250
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.45 J	0.71 J	0.51 U	0.37 U	0.56 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.44 J	0.43 J	0.49 J	0.27 J	0.31 UJ
Sodium	MG/KG	270	34%	0	0	41	119	128 U	190 U	187 U	161 J	108 J
Thallium	MG/KG	6.7	82%	0	0	98	119	2 J	0.94 J	1 J	1.3 J	2.4
Vanadium	MG/KG	104	99%	0	0	118	119	16.7	26.6	20.7	16	29.8
Zinc	MG/KG	1250	93%	109	11	111	119	116	77.3	98.3	71.5	100
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.05	2.9	0.11	0.1	0.07
Percent Solids	% WW	94	100%	0	0	101	101	91.5	76.3	88.2	88.8	73.1
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-6 SOIL 574020	SEAD-57 SB57-6 SOIL 574021	SEAD-57 SB57-7 SOIL 574016	SEAD-57 SB57-7 SOIL 574017	SEAD-57 SB57-7 SOIL 574018
								2 4 12/05/99 SA P1S1 RI	4 6 12/05/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	8 UJ	9 UJ	10 UJ	9 UJ	8 UJ
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ
Acetone	UG/KG	700	74%	50	87	94	127	8 U	15 J	160 J	11 UJ	28 UJ
Benzene	UG/KG	1	2%	60	0	2	127	1 J	9 U	10 U	9 UJ	8 UJ
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ
Bromoform	UG/KG	0	0%	0	0	0	127	8 U	9 U	10 UJ	9 UJ	8 UJ
Carbon disulfide	UG/KG	22	11%	0	0	14	127	8 U	9 U	10 U	0.9 J	4 J
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	8 UJ	9 UJ	10 UJ	9 UJ	8 UJ
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ
Chloroethane	UG/KG	0	0%	0	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
Chloroform	UG/KG	7	1%	370	0	1	127	8 U	9 U	10 U	9 UJ	8 UJ
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	8 UJ	9 UJ	10 UJ	9 UJ	8 UJ
Methyl bromide	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UJ	8 UJ
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	8 U	9 U	10 UJ	9 UR	8 UJ
Methyl chloride	UG/KG	0	0%	0	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	8 UJ	9 U	15 J	9 UR	8 UJ
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ
Methylene chloride	UG/KG	1	2%	50	0	2	127	8 U	9 U	10 U	9 UJ	8 UJ
Styrene	UG/KG	0	0%	0	0	0	127	8 UJ	9 UJ	10 UJ	9 UJ	8 UJ
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	8 UJ	9 U	10 U	9 UR	8 UJ
Toluene	UG/KG	33	65%	700	0	82	127	1 J	9 U	10 U	9 UR	8 UJ
Total Xylenes	UG/KG	2	2%	260	0	3	127	2 J	9 UJ	10 UJ	9 UJ	8 UJ
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ
Trichloroethene	UG/KG	0	0%	470	0	0	127	8 UJ	9 U	10 U	9 UR	8 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-6 SOIL 574020	SEAD-57 SB57-6 SOIL 574021	SEAD-57 SB57-7 SOIL 574016	SEAD-57 SB57-7 SOIL 574017	SEAD-57 SB57-7 SOIL 574018
								2 4 12/05/99 SA P1S1 RI	4 6 12/05/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	8 U	9 U	10 U	9 UJ	8 UJ
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	74 U	74 U	780 U	85 U	74 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	74 U	74 U	780 U	85 U	74 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	74 U	74 U	780 U	85 U	74 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	180 U	180 U	1900 U	210 U	180 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 UJ	85 UJ	74 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 UJ	85 UJ	74 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	180 UR	180 UR	1900 UR	210 UR	180 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 UJ	85 UJ	74 UJ
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	74 U	74 U	780 U	3.7 J	74 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	74 U	74 U	780 UJ	85 UJ	74 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	180 U	180 U	1900 UJ	210 UJ	180 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	74 UR	74 UR	780 UJ	85 UJ	74 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	180 U	180 U	1900 UJ	210 UJ	180 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	180 UJ	180 UJ	1900 UJ	210 UJ	180 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	74 UJ	74 UJ	780 U	85 U	74 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 UJ	85 UJ	74 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 UJ	85 UJ	74 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	74 U	74 U	780 UJ	85 UJ	74 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	180 U	180 U	1900 U	210 U	180 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	180 UR	180 UR	1900 UJ	210 UJ	180 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	74 U	74 U	780 U	85 U	74 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	74 U	74 U	780 U	85 U	74 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	74 U	74 U	780 U	85 U	74 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-6 SOIL 574020	SB57-6 SOIL 574021	SB57-7 SOIL 574016	SB57-7 SOIL 574017	SB57-7 SOIL 574018
								2	4	0	2	4
								4	6	2	4	6
								12/05/99	12/05/99	12/03/99	12/03/99	12/03/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	74 U	74 U	780 U	85 U	74 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	74 U	74 U	780 U	85 U	74 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	74 U	74 U	780 U	85 U	74 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	74 U	74 U	780 U	85 U	74 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	74 U	74 U	780 U	85 U	74 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	74 U	74 U	780 U	85 U	74 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	32 J	74 UJ	3400	85 U	74 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	74 UJ	74 UJ	780 U	85 U	74 U
Carbazole	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Chrysene	UG/KG	110	33%	1000	0	39	119	74 U	74 U	780 U	85 U	74 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	74 U	74 U	780 U	85 U	74 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	74 UJ	74 UJ	780 U	85 U	74 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	74 UJ	74 UJ	780 U	85 U	74 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	74 U	74 U	780 U	85 U	74 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	74 UJ	74 UJ	780 UJ	8.8 J	74 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	74 UJ	74 UJ	780 U	85 U	74 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	74 U	74 U	780 U	85 U	74 U
Fluorene	UG/KG	120	2%	30000	0	2	119	74 U	74 U	780 U	85 U	74 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	74 UJ	74 UJ	780 U	85 U	74 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	74 U	74 U	780 U	85 U	74 U
Isophorone	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	74 U	74 U	780 U	85 U	74 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	74 U	74 U	780 U	85 U	74 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	74 U	74 U	780 U	85 U	74 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	180 U	180 U	1900 UJ	210 UJ	180 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	74 U	74 U	780 U	85 U	74 U
Phenol	UG/KG	51	13%	330	0	16	119	74 U	74 U	780 U	51 J	74 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SB57-6 SOIL 574020	SB57-6 SOIL 574021	SB57-7 SOIL 574016	SB57-7 SOIL 574017	SB57-7 SOIL 574018
Pyrene	UG/KG	230	52%	100000	3	62	119	74 U	74 U	780 UJ	85 UJ	74 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.7 U	3.7 U	1.7 J	4.3 U	3.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	3.7 U	3.7 U	2.8 J	4.3 U	3.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.7 U	3.7 U	5	4.3 U	3.7 U
Aldrin	UG/KG	0	0%	5	0	0	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.9 U	1.9 U	1.1 J	2.2 U	1.9 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	37 U	37 U	39 U	43 U	37 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	75 U	75 U	78 U	87 U	75 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	37 U	37 U	39 U	43 U	37 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	37 U	37 U	39 U	43 U	37 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	37 U	37 U	39 U	43 U	37 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	37 U	37 U	39 U	43 U	37 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	37 U	37 U	39 U	43 U	37 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-6 SOIL 574020	SEAD-57 SB57-6 SOIL 574021	SEAD-57 SB57-7 SOIL 574016	SEAD-57 SB57-7 SOIL 574017	SEAD-57 SB57-7 SOIL 574018
								2 4 12/05/99 SA P1S1 RI	4 6 12/05/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Endrin	UG/KG	0	0%	14	0	0	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.7 U	3.7 U	3.9 U	4.3 U	3.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	1.9 U	1.9 U	2 U	2.2 U	1.9 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	19 U	19 U	20 U	22 U	19 U
Toxaphene	UG/KG	0	0%	0	0	0	119	190 U	190 U	200 U	220 U	190 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12300	14900	9910	12600	13600
Antimony	MG/KG	6.5	49%	0	0	58	119	0.61 J	0.82 J	1.4 J	1.3 J	2.5 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.5	4.6	3.7 J	4.9 J	5 J
Barium	MG/KG	237	100%	350	0	119	119	66.5	62	49.9	78.2	84.3
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.8 J	0.93 J	0.45 J	0.58 J	0.58 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.06 U	0.05 U	0.07 U	0.07 U
Calcium	MG/KG	213000	100%	0	0	119	119	60600	2580	8920	81800	63700
Chromium	MG/KG	32.1	100%	30	2	119	119	22.4	27.4	17.4	20.7	23.4
Cobalt	MG/KG	29.7	100%	0	0	119	119	13.1	14.9	10.6	12.5	12.2

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SB57-6 SOIL 574020	SEAD-57 SB57-6 SOIL 574021	SEAD-57 SB57-7 SOIL 574016	SEAD-57 SB57-7 SOIL 574017	SEAD-57 SB57-7 SOIL 574018
								2 4 12/05/99 SA P1S1 RI	4 6 12/05/99 SA P1S1 RI	0 2 12/03/99 SA P1S1 RI	2 4 12/03/99 SA P1S1 RI	4 6 12/03/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	27.1	19.4	52.7	32.8	26.4
Cyanide	MG/KG	0	0%	27	0	0	119	0.56 U	0.56 U	0.58 U	0.6 U	0.55 U
Iron	MG/KG	39800	100%	0	0	119	119	27900	34400	21200	25700	28000
Lead	MG/KG	1860	100%	63	2	119	119	9.8 J	4.4 J	45.1	13.8	4.4
Magnesium	MG/KG	27600	100%	0	0	119	119	14300	6740	4410	11600	14500
Manganese	MG/KG	2580	100%	1600	5	119	119	483	555	332	362	415
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.08 J	0.1 J	0.07 J	0.13 J	0.04 J
Nickel	MG/KG	54.1	100%	30	37	119	119	42.9	45.7	36.7	39.1	37.9
Potassium	MG/KG	3250	100%	0	0	119	119	1180	1180	1350 J	1940 J	1820 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.44 UJ	0.5 UJ	0.41 U	0.59 U	0.54 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.28 UJ	0.29 UJ	0.55 J	0.42 J	0.36 U
Sodium	MG/KG	270	34%	0	0	41	119	214 J	155 J	150 U	213 U	196 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.6 J	1.7 J	2.3	0.71 U	2.7 J
Vanadium	MG/KG	104	99%	0	0	118	119	19.7	20.2	23.7	19.9	19.8
Zinc	MG/KG	1250	93%	109	11	111	119	120	107	133	99.6	85.5
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.59	1.4	0.06	0.22	1.1
Percent Solids	% WW	94	100%	0	0	101	101	88.7	88.8	85.4	77.4	89.5
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-1	SS57-1	SS57-10	SS57-11	SS57-12
								SOIL	SOIL	SOIL	SOIL	SOIL
								SS57-1-1	SS57-1-2	574023	574024	574025
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								10/26/93	12/08/93	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	13 U	14 U	11 U	14 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	13 U	14 U	11 U	14 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	13 U	14 U	11 U	14 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	13 U	14 U	11 U	14 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	13 U	14 U	11 U	14 U	13 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Acetone	UG/KG	700	74%	50	87	94	127	13 U	14 U	76 J	160 J	170 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	14 U	11 U	14 U	13 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Bromoform	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	14 U	11 UJ	14 UJ	13 UJ
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	13 U	14 U	11 U	14 U	13 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	13 U	14 U	11 U	14 U	13 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Chloroethane	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 UJ	14 UJ	13 UJ
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	14 U	11 U	14 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	13 U	14 U	11 U	14 U	13 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 UJ	14 UJ	13 UJ
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	13 U	14 U	10 J	15 J	18 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	14 U	11 UJ	14 UJ	13 UJ
Styrene	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	2 J	14 U	11 U	14 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	13 U	14 U	8 J	8 J	10 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	14 U	11 U	14 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	14 U	11 U	14 U	13 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	13 U	14 U	11 U	14 U	13 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-1 SOIL	SS57-1 SOIL	SS57-10 SOIL	SS57-11 SOIL	SS57-12 SOIL
								0.2	0.2	0.2	0.2	0.2
								10/26/93	12/08/93	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	13 U	14 U	11 UJ	14 UJ	13 UJ
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	420 U		86 UJ	93 UJ	94 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	420 U		86 U	93 U	94 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	420 U		86 U	93 U	94 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18	420 U				
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	1000 U		210 U	220 U	230 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	1000 U		210 UJ	220 UR	230 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	420 U		86 UJ	93 UJ	94 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	420 U		86 U	93 U	94 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	1000 U		210 U	220 U	230 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	1000 U		210 U	220 U	230 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	1000 U		210 U	220 UJ	230 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	420 U		86 U	93 U	94 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	420 U		86 U	93 U	94 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	1000 U		210 UJ	220 U	230 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	1000 U		210 U	220 U	230 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	420 U		86 U	93 U	94 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	420 U		86 U	93 U	94 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	420 U		86 U	93 U	94 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-1 SOIL	SS57-1 SOIL	SS57-10 SOIL	SS57-11 SOIL	SS57-12 SOIL
								0.2	0.2	0.2	0.2	0.2
								10/26/93	12/08/93	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	420 U	86 U	93 U	94 U	94 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	420 U	86 U	93 U	94 U	94 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	420 U	86 U	93 U	94 U	94 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	420 U	86 U	6.5 J	5.4 J	5.4 J
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	420 U	86 UJ	93 UJ	94 UJ	94 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101		86 U	93 U	94 U	94 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	480 U	86 U	93 U	94 U	94 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	420 U	86 UJ	93 U	94 U	94 U
Carbazole	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Chrysene	UG/KG	110	33%	1000	0	39	119	420 U	86 U	93 UJ	94 UJ	94 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	420 U	86 UJ	5 J	94 U	94 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	420 U	86 UJ	93 UJ	94 UJ	94 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	420 U	86 U	4.2 J	94 U	94 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	420 U	86 U	93 U	94 U	94 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	420 U	86 U	93 UJ	94 UJ	94 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	420 U	86 UJ	93 UJ	94 UJ	94 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	420 U	11 J	6.9 J	5.9 J	5.9 J
Fluorene	UG/KG	120	2%	30000	0	2	119	420 U	86 U	93 U	94 U	94 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	420 U	86 UJ	93 UJ	94 UJ	94 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	420 U	86 U	6.8 J	6 J	6 J
Isophorone	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	420 U	86 U	93 U	94 U	94 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	420 U	86 UJ	93 UJ	94 UJ	94 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	420 U	86 U	93 U	94 U	94 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	1000 U		210 UJ	220 UJ	230 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	420 U	5.9 J	6.5 J	3.6 J	3.6 J
Phenol	UG/KG	51	13%	330	0	16	119	420 U	86 U	93 U	94 U	94 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-1	SS57-1	SS57-10	SS57-11	SS57-12
								SOIL	SOIL	SOIL	SOIL	SOIL
								574023	574023	574023	574024	574025
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								10/26/93	12/08/93	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	420 U		11 J	6.3 J	4.8 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101			120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101			120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101			120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101			120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	130 U		120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.3 U		4.3 U	4.6 U	4.6 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.3 U		4.3 U	4.6 U	4.6 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.3 U		4.3 U	4.6 U	4.6 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.2 U		2.2 U	2.4 U	2.4 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.2 U		2.2 U	2.4 U	2.4 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.2 U		2.2 U	2.4 U	2.4 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	43 U		43 U	46 U	46 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	86 U		87 U	94 U	94 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	43 U		43 U	46 U	46 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	43 U		43 U	46 U	46 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	43 U		43 U	46 U	46 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	43 U		43 U	46 U	46 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	24 J		43 U	46 U	46 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.2 U		2.2 U	2.4 U	2.4 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.2 U		2.2 U	2.4 U	2.4 U
Dieldrin	UG/KG	27	6%	5	5	7	119	26 J		4.3 U	10 J	4.6 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-1 SOIL SS57-1-1 0 10/26/93 SA P1S1 RI	SS57-1 SOIL SS57-1-2 0 12/08/93 SA P1S1 RI	SS57-10 SOIL 574023 0 12/19/99 SA P1S1 RI	SS57-11 SOIL 574024 0 12/19/99 SA P1S1 RI	SS57-12 SOIL 574025 0 12/19/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.2 U	2.2 U	2.4 U	2.4 U	2.4 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.3 U	4.3 U	4.6 U	4.6 U	4.6 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.3 U	4.3 U	4.6 U	4.6 U	4.6 U
Endrin	UG/KG	0	0%	14	0	0	119	4.3 U	4.3 U	4.6 U	4.6 U	4.6 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.3 U	4.3 U	4.6 U	4.6 U	4.6 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.3 U	4.3 U	4.6 U	4.6 U	4.6 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.2 U	2.2 U	2.4 U	2.4 U	2.4 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.2 U	2.2 U	2.4 U	2.4 U	2.4 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.2 U	2.2 U	2.4 U	2.4 U	2.4 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.2 U	2.2 U	2.4 U	2.4 U	2.4 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	22 U	22 U	24 U	24 U	24 U
Toxaphene	UG/KG	0	0%	0	0	0	119	220 U	220 U	240 U	240 U	240 U
Herbicides								6.5 U				
2,4,5-T	UG/KG	0	0%	0	0	0	18	6.5 U				
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18	65 U				
2,4-D	UG/KG	0	0%	0	0	0	18	65 U				
2,4-DB	UG/KG	0	0%	0	0	0	18	160 U				
Dalapon	UG/KG	0	0%	0	0	0	18	6.5 U				
Dicamba	UG/KG	0	0%	0	0	0	18	65 U				
Dichloroprop	UG/KG	0	0%	0	0	0	18	33 U				
Dinoseb	UG/KG	0	0%	0	0	0	18	6500 U				
MCPA	UG/KG	0	0%	0	0	0	18	6500 U				
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12000		12100	14400	15400
Antimony	MG/KG	6.5	49%	0	0	58	119	11.9 UJ	0.66 J	0.85 J	0.81 J	0.81 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.8 UR	4.1	4.2	5.4	5.4
Barium	MG/KG	237	100%	350	0	119	119	82.4	74.2	81.4	122	122
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.56 J	0.76 J	0.9 J	1.4	1.4
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.74 U	0.05 U	0.05 U	0.06 U	0.06 U
Calcium	MG/KG	213000	100%	0	0	119	119	2770	11900	2990	3800	3800
Chromium	MG/KG	32.1	100%	30	2	119	119	15.7	17	20.7	18.6	18.6
Cobalt	MG/KG	29.7	100%	0	0	119	119	8.4 J	9.4 J	10.4 J	9.9 J	9.9 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-1	SS57-1	SS57-10	SS57-11	SS57-12
								SOIL	SOIL	SOIL	SOIL	SOIL
								SS57-1-1	SS57-1-2	574023	574024	574025
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								10/26/93	12/08/93	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	10.9		26.4	17.4	16.7
Cyanide	MG/KG	0	0%	27	0	0	119	0.77 U		0.61 U	0.65 U	0.68 U
Iron	MG/KG	39800	100%	0	0	119	119	19300		19900	25100	24000
Lead	MG/KG	1860	100%	63	2	119	119	24		24.4 J	19.6 J	22.2 J
Magnesium	MG/KG	27600	100%	0	0	119	119	2680		3820 J	4270 J	3350 J
Manganese	MG/KG	2580	100%	1600	5	119	119	592		486	599	1260
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 J		0.06 U	0.06 U	0.08 J
Nickel	MG/KG	54.1	100%	30	37	119	119	14.3		24	23.9	18.4
Potassium	MG/KG	3250	100%	0	0	119	119	892 J		1130 J	1220 J	1300 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.26 UJ		1.6 J	0.81 J	1.9 J
Silver	MG/KG	1.7	38%	2	0	45	119	1.7 J		0.34 J	0.35 UJ	0.37 UJ
Sodium	MG/KG	270	34%	0	0	41	119	56.7 J		73.4 U	77 U	81.4 U
Thallium	MG/KG	6.7	82%	0	0	98	119	0.28 U		2 J	3.5	4.1
Vanadium	MG/KG	104	99%	0	0	118	119	24.6		23.2	24.5	29.4
Zinc	MG/KG	1250	93%	109	11	111	119	45.2 UR		67.1	66.3	56.4
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101			0.53	0.35	0.63
Percent Solids	% WW	94	100%	0	0	101	101			77.2	70.8	69.6
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-13	SS57-14	SS57-15	SS57-16	SS57-17
								SOIL	SOIL	SOIL	SOIL	SOIL
							574026	574027	574028	574029	574030	
							0	0	0	0	0	
							0.2	0.2	0.2	0.2	0.2	
							12/19/99	12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
							SA	SA	SA	SA	SA	
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	13 U	12 U	13 U	12 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	13 U	12 U	13 U	12 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	13 U	12 U	13 U	12 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	13 U	12 U	13 U	12 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	13 U	12 U	13 U	12 U	13 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Acetone	UG/KG	700	74%	50	87	94	127	140 J	270 J	280 J	110 J	270 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	12 U	13 U	12 U	13 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Bromoform	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 UJ	12 UJ	13 U	12 U	13 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	13 U	12 U	13 U	12 U	13 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	13 U	12 U	13 U	12 U	13 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Chloroethane	UG/KG	0	0%	0	0	0	127	13 UJ	12 UJ	13 U	12 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	12 U	13 U	12 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	13 U	12 U	13 U	12 U	13 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	13 UJ	12 UJ	13 U	12 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	17 J	25 J	20	11 J	20
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 UJ	12 UJ	13 U	12 U	13 U
Styrene	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	12 U	13 U	12 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	6 J	7 J	8 J	4 J	5 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	12 U	13 U	12 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	12 U	13 U	12 U	13 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	13 U	12 U	13 U	12 U	13 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-13	SS57-14	SS57-15	SS57-16	SS57-17
								SOIL	SOIL	SOIL	SOIL	SOIL
								574026	574027	574028	574029	574030
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	13 UJ	12 UJ	13 U	12 U	13 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	90 U	86 U	85 U	87 U	89 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	90 U	86 U	85 U	87 U	89 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	220 U	210 U	200 U	210 U	220 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	220 UR	210 UR	200 UR	210 UR	220 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	90 U	86 U	85 U	87 U	89 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	200 U	210 U	220 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	200 U	210 U	220 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 UJ	200 UJ	210 UJ	220 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	90 U	86 U	85 U	87 U	89 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	200 U	210 U	220 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	220 U	210 U	200 U	210 U	220 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	90 U	86 U	85 U	87 U	89 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	90 U	86 U	85 U	87 U	89 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	90 U	86 U	85 U	87 U	89 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-13 SOIL 574026	SS57-14 SOIL 574027	SS57-15 SOIL 574028	SS57-16 SOIL 574029	SS57-17 SOIL 574030
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	90 U	86 U	85 U	87 U	89 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	90 U	86 U	85 U	87 U	89 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	90 U	86 U	85 U	87 U	89 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	90 U	6.8 J	6.4 J	87 U	89 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	90 U	86 U	85 U	87 U	89 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	90 U	86 U	85 U	87 U	89 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Carbazole	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Chrysene	UG/KG	110	33%	1000	0	39	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	90 U	86 U	85 U	87 U	89 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	90 U	86 U	85 U	87 U	89 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	90 U	86 U	85 U	87 U	89 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	4.8 J	10 J	10 J	7.9 J	4.6 J
Fluorene	UG/KG	120	2%	30000	0	2	119	90 U	86 U	85 U	87 U	89 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	90 U	6.7 J	7.1 J	87 U	89 U
Isophorone	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	90 U	86 U	85 U	87 U	89 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	90 UJ	86 UJ	85 UJ	87 UJ	89 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	90 U	86 U	85 U	87 U	89 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	220 UJ	210 UJ	200 UJ	210 UJ	220 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	90 U	6.7 J	6.8 J	5.7 J	89 U
Phenol	UG/KG	51	13%	330	0	16	119	90 U	86 U	85 U	8.3 J	5.9 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-13	SS57-14	SS57-15	SS57-16	SS57-17
								SOIL	SOIL	SOIL	SOIL	SOIL
								574026	574027	574028	574029	574030
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	4.3 J	9.9 J	8.9 J	7.5 J	4 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	45 U	43 U	42 U	43 U	44 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	91 U	88 U	86 U	87 U	90 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	45 U	43 U	42 U	43 U	44 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	45 U	43 U	42 U	43 U	44 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	45 U	43 U	42 U	43 U	44 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	45 U	43 U	42 U	43 U	44 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	45 U	43 U	42 U	43 U	44 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-13	SS57-14	SS57-15	SS57-16	SS57-17
								SOIL	SOIL	SOIL	SOIL	SOIL
							574026	574027	574028	574029	574030	
							0	0	0	0	0	
							0.2	0.2	0.2	0.2	0.2	
							12/19/99	12/19/99	12/19/99	12/19/99	12/19/99	
							SA	SA	SA	SA	SA	
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
Endrin	UG/KG	0	0%	14	0	0	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.5 U	4.3 U	4.2 U	4.3 U	4.4 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.2 U	2.2 U	2.2 U	2.3 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	23 U	22 U	22 U	22 U	23 U
Toxaphene	UG/KG	0	0%	0	0	0	119	230 U	220 U	220 U	220 U	230 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14100	9110	10100	11100	11400
Antimony	MG/KG	6.5	49%	0	0	58	119	0.86 J	0.51 UR	0.54 UR	0.75 J	1.1 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4	2.7	0.61 UJ	2.6	3.7
Barium	MG/KG	237	100%	350	0	119	119	93.9	38.5 J	39.9 J	64.6	65.4
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.97 J	0.32 J	0.32 J	0.56 J	0.71 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.05 U	0.05 U	0.05 U	0.04 U
Calcium	MG/KG	213000	100%	0	0	119	119	3110	925 J	974 J	1700	1580
Chromium	MG/KG	32.1	100%	30	2	119	119	18.1	7.5	7.8	12.8	14.1
Cobalt	MG/KG	29.7	100%	0	0	119	119	8.5 J	3.6 J	3.9 J	6.2 J	7.5 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-13 SOIL 574026	SS57-14 SOIL 574027	SS57-15 SOIL 574028	SS57-16 SOIL 574029	SS57-17 SOIL 574030
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	15.3	7.9	7.6	12.9	13.1
Cyanide	MG/KG	0	0%	27	0	0	119	0.62 U	0.64 U	0.6 U	0.63 U	0.63 U
Iron	MG/KG	39800	100%	0	0	119	119	21200	10600	10800	15600	18600
Lead	MG/KG	1860	100%	63	2	119	119	18.6 J	17.3 J	13.9 J	16.5 J	21.5 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3380 J	1420 J	1830 J	2300 J	1960 J
Manganese	MG/KG	2580	100%	1600	5	119	119	519	142	99.3	388	561
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.07 J	0.07 J	0.08 J	0.07 J	0.07 J
Nickel	MG/KG	54.1	100%	30	37	119	119	17.8	6.8 J	6.5 J	12.8	13.2
Potassium	MG/KG	3250	100%	0	0	119	119	1150 J	507 J	351 J	933 J	1030 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.87 J	0.58 U	0.73 J	0.65 J	0.65 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.3 UJ	0.3 UJ	0.32 UJ	0.3 UJ	0.27 UJ
Sodium	MG/KG	270	34%	0	0	41	119	66.6 U	67.5 U	70.6 U	66 U	61.1 U
Thallium	MG/KG	6.7	82%	0	0	98	119	2 J	0.75 U	0.78 U	2 J	2.7
Vanadium	MG/KG	104	99%	0	0	118	119	27	16.1	16.1	20.7	23.6
Zinc	MG/KG	1250	93%	109	11	111	119	53.3	55.2	51.3	56.9	48.6
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.66	0.03	0.04	0.41	0.2
Percent Solids	% WW	94	100%	0	0	101	101	72.9	76.5	78	76.2	74.5
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18	SS57-19	SS57-2	SS57-2	SS57-20
								SOIL	SOIL	SOIL	SOIL	SOIL
							574031	574032	SS57-2-1	SS57-2-2	574033	
							0	0	0	0	0	
							0.2	0.2	0.2	0.2	0.2	
							12/19/99	12/19/99	10/26/93	12/08/93	12/19/99	
							SA	SA	SA	SA	SA	
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	12 U	11 U	12 U	13 U	11 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	12 U	11 U	12 U	13 U	11 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	12 U	11 U	12 U	13 U	11 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	12 U	11 U	12 U	13 U	11 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	12 U	11 U	12 U	13 U	11 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Acetone	UG/KG	700	74%	50	87	94	127	120 J	170 J	12 U	13 U	220 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	11 U	12 U	13 U	11 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Bromoform	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	11 U	12 U	13 U	11 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	12 U	11 U	12 U	13 U	11 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	12 U	11 U	12 U	13 U	11 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Chloroethane	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	11 U	12 U	13 U	11 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	12 U	11 U	12 U	13 U	11 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	12	16	12 U	13 U	18
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	11 U	12 U	13 U	11 U
Styrene	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	11 U	2 J	13 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	4 J	4 J	12 U	13 U	27
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	11 U	12 U	13 U	11 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	11 U	12 U	13 U	11 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	12 U	11 U	12 U	13 U	11 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18	SS57-19	SS57-2	SS57-2	SS57-20
								SOIL	SOIL	SOIL	SOIL	SOIL
								574031	574032	SS57-2-1	SS57-2-2	574033
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	10/26/93	12/08/93	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	12 U	11 U	12 U	13 U	11 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	87 UJ	84 UJ	410 U		85 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	87 U	84 U	410 U		85 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	87 U	84 U	410 U		85 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18			410 U		
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	210 U	200 U	990 U		200 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	210 UR	200 UR	990 U		200 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	87 UJ	84 UJ	410 U		85 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	87 U	84 U	410 U		85 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 U	200 U	990 U		200 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 U	200 U	990 U		200 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	210 UJ	200 UJ	990 U		200 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	87 U	84 U	410 U		85 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 U	200 U	990 U		200 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	210 U	200 U	990 U		200 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	87 U	84 U	410 U		85 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	87 U	84 U	410 U		85 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	87 U	84 U	410 U		85 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18 SOIL 574031 0 0.2 12/19/99 SA P1S1 RI	SS57-19 SOIL 574032 0 0.2 12/19/99 SA P1S1 RI	SS57-2 SOIL SS57-2-1 0 0.2 10/26/93 SA P1S1 RI	SS57-2 SOIL SS57-2-2 0 0.2 12/08/93 SA P1S1 RI	SS57-20 SOIL 574033 0 0.2 12/19/99 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	87 U	84 U	410 U		85 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	87 U	84 U	410 U		85 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	87 U	84 U	410 U		85 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	87 U	84 U	410 U		85 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	87 UJ	6.9 UJ	410 U		85 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	87 U	84 U			85 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	87 U	84 U	410 U		85 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Carbazole	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Chrysene	UG/KG	110	33%	1000	0	39	119	87 UJ	84 UJ	410 U		85 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	87 U	84 U	410 U		4.1 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	87 UJ	84 UJ	410 U		85 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	87 U	84 U	410 U		85 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	87 U	84 U	410 U		85 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	87 UJ	84 U	410 U		85 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	87 UJ	84 UJ	410 U		85 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	4.1 J	4.7 J	410 U		85 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	87 U	84 U	410 U		85 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	87 UJ	84 UJ	410 U		85 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	87 U	84 U	410 U		85 U
Isophorone	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	87 U	84 U	410 U		85 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	87 UJ	84 UJ	410 U		85 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	87 U	84 U	410 U		85 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	210 UJ	200 UJ	990 U		200 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	87 U	84 U	410 U		85 U
Phenol	UG/KG	51	13%	330	0	16	119	87 U	84 U	410 U		5.4 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18	SS57-19	SS57-2	SS57-2	SS57-20
								SOIL	SOIL	SOIL	SOIL	SOIL
								574031	574032	SS57-2-1	SS57-2-2	574033
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	10/26/93	12/08/93	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	7.6 J	6.4 J	410 U		4.6 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U			120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U			120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U			120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U			120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	130 U		120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.3 U	4.2 U	4.1 U		4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.3 U	4.2 U	4.1 U		4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.3 U	4.2 U	4.1 U		4.2 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.2 U	2.2 U	2.1 U		2.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.2 U	2.2 U	2.1 U		2.2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.2 U	2.2 U	2.1 U		2.8
Aroclor-1016	UG/KG	0	0%	100	0	0	119	43 U	42 U	41 U		42 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	88 U	86 U	84 U		86 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	43 U	42 U	41 U		42 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	43 U	42 U	41 U		42 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	43 U	42 U	41 U		42 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	43 U	42 U	41 U		42 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	43 U	42 U	41 U		42 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.2 U	2.2 U	2.1 U		2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.2 U	2.2 U	2.1 U		2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.4 J	4.2 U	9.5		4.3 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18 SOIL 574031	SS57-19 SOIL 574032	SS57-2 SOIL 574033	SS57-2-1	SS57-2-2
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	10/26/93	12/08/93	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)								
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.3 U	4.2 U	4.1 U	4.2 U	4.2 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.3 U	4.2 U	4.1 U	4.2 U	4.2 U
Endrin	UG/KG	0	0%	14	0	0	119	4.3 U	4.2 U	4.1 U	4.2 U	4.2 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.3 U	4.2 U	4.1 U	4.2 U	4.2 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.3 U	4.2 U	4.1 U	4.2 U	4.2 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	22 U	22 U	21 U	22 U	22 U
Toxaphene	UG/KG	0	0%	0	0	0	119	220 U	220 U	210 U	220 U	220 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18			6.3 U		6.3 U
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18			63 U		63 U
2,4-D	UG/KG	0	0%	0	0	0	18			63 U		63 U
2,4-DB	UG/KG	0	0%	0	0	0	18			150 U		150 U
Dalapon	UG/KG	0	0%	0	0	0	18			6.3 U		6.3 U
Dicamba	UG/KG	0	0%	0	0	0	18			63 U		63 U
Dichloroprop	UG/KG	0	0%	0	0	0	18			32 U		32 U
Dinoseb	UG/KG	0	0%	0	0	0	18			6300 U		6300 U
MCPA	UG/KG	0	0%	0	0	0	18			6300 U		6300 U
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12600	12600	17300		13400
Antimony	MG/KG	6.5	49%	0	0	58	119	1.6 J	0.62 J	11.8 UJ		0.54 UR
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.1 J	2.7	4.6 UR		3.4
Barium	MG/KG	237	100%	350	0	119	119	98.4	74.1	65.8		76.2
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1.1 J	0.72 J	0.62 J		1 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.04 U	0.74 U		0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	1750	1010	1950		835 J
Chromium	MG/KG	32.1	100%	30	2	119	119	15.5	14.3	24.2		16.1
Cobalt	MG/KG	29.7	100%	0	0	119	119	15.3	9.4 J	9.6 J		12.8

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-18 SOIL 574031	SS57-19 SOIL 574032	SS57-2 SOIL 574033	SS57-2-1 SOIL 574033	SS57-2-2 SOIL 574033
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	10/26/93	12/08/93	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	13.3	12.6	18.3		12.5
Cyanide	MG/KG	0	0%	27	0	0	119	0.62 U	0.57 U	0.73 U		0.64 U
Iron	MG/KG	39800	100%	0	0	119	119	23500	16600	28400		20000
Lead	MG/KG	1860	100%	63	2	119	119	23.5 J	19.9 J	17.7		18.8 J
Magnesium	MG/KG	27600	100%	0	0	119	119	2330 J	2530 J	4580		2510 J
Manganese	MG/KG	2580	100%	1600	5	119	119	1400	556	319		1160
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.08 J	0.08 J	0.04 J		0.06 J
Nickel	MG/KG	54.1	100%	30	37	119	119	13.3	14.3	27.3		16.9
Potassium	MG/KG	3250	100%	0	0	119	119	990 J	913 J	1240		961 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.5 J	1.4 J	0.21 UJ		1.4 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.36 J	1.5 UJ		0.32 UJ
Sodium	MG/KG	270	34%	0	0	41	119	70.3 U	62.5 U	44.5 J		71 U
Thallium	MG/KG	6.7	82%	0	0	98	119	3.8	3.6	0.23 U		3.8
Vanadium	MG/KG	104	99%	0	0	118	119	26	22.3	28.6		23.6
Zinc	MG/KG	1250	93%	109	11	111	119	50.4	57.6	70.6 UR		55
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.93	0.38			0.04
Percent Solids	% WW	94	100%	0	0	101	101	76.1	78.4			77.5
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-21	SS57-22	SS57-23	SS57-24	SS57-25
								SOIL	SOIL	SOIL	SOIL	SOIL
							574034	574035	574036	574037	574038	
							0	0	0	0	0	
							0.2	0.2	0.2	0.2	0.2	
							12/19/99	12/19/99	12/19/99	12/19/99	12/19/99	
							SA	SA	SA	SA	SA	
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	13 U	11 U	13 U	16 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	13 U	11 U	13 U	16 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	13 U	11 U	13 U	16 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	13 U	11 U	13 U	16 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	13 U	11 U	13 U	16 U	13 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Acetone	UG/KG	700	74%	50	87	94	127	210 J	200 J	63 J	280 J	190 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	11 U	13 U	16 U	13 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Bromoform	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	11 U	13 U	16 U	13 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	13 U	11 U	13 U	16 U	13 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	13 U	11 U	13 U	16 U	13 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Chloroethane	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	11 U	13 U	16 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	13 U	11 U	13 U	16 U	13 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	22	20	6 J	35	17
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	11 U	13 U	16 U	13 U
Styrene	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	13 U	11 U	13 U	16 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	4 J	4 J	5 J	16 U	14
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	11 U	13 U	16 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	11 U	13 U	16 U	13 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	13 U	11 U	13 U	16 U	13 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-21	SS57-22	SS57-23	SS57-24	SS57-25
								SOIL	SOIL	SOIL	SOIL	SOIL
								574034	574035	574036	574037	574038
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	13 U	11 U	13 U	16 U	13 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	86 UJ	85 UJ	88 UJ	98 U	90 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	86 U	85 U	88 U	98 U	90 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	86 U	85 U	88 U	98 U	90 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	210 U	200 U	210 U	240 U	220 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	210 UJ	200 UR	210 UR	240 UJ	220 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	86 UJ	85 UJ	88 UJ	98 U	90 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	86 U	85 U	88 U	98 U	90 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 U	200 U	210 U	240 U	220 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 U	200 U	210 U	240 U	220 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	210 U	200 UJ	210 UJ	240 U	220 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	86 U	85 U	88 U	98 U	90 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	210 UJ	200 U	210 U	240 UJ	220 UJ
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	210 U	200 U	210 U	240 U	220 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	86 U	85 U	88 U	98 U	90 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	86 U	85 U	88 U	98 U	90 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	86 U	85 U	88 U	98 U	90 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-21	SS57-23	SS57-24	SS57-25	
								SOIL	SOIL	SOIL	SOIL	SOIL
								574034	574035	574036	574037	574038
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	86 U	85 U	88 U	9.8 J	7.1 J
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	86 U	85 U	88 U	98 U	90 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	86 U	85 U	88 U	14 J	10 J
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	9.2 J	85 U	88 U	10 J	90 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	86 UJ	85 UJ	88 UJ	12 J	9.9 J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	86 U	85 U	88 U	98 U	90 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	86 U	85 U	88 U	98 U	41 J
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	86 UJ	85 U	88 U	98 UJ	90 UJ
Carbazole	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Chrysene	UG/KG	110	33%	1000	0	39	119	86 UJ	85 UJ	88 UJ	12 J	7.7 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	86 U	85 U	4.7 J	7 J	13 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	86 UJ	85 UJ	88 UJ	98 UJ	90 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	86 U	85 U	88 U	6.4 J	90 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	86 U	85 U	88 U	98 U	90 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	86 U	85 U	88 U	98 UJ	90 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	86 UJ	85 UJ	88 UJ	98 U	90 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	20 J	4.5 J	4.9 J	15 J	9.8 J
Fluorene	UG/KG	120	2%	30000	0	2	119	86 U	85 U	88 U	98 U	90 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	86 UJ	85 UJ	88 UJ	98 UJ	90 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	9.8 J	85 U	88 U	9.6 J	90 U
Isophorone	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	86 U	85 U	88 U	98 U	90 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	86 UJ	85 UJ	88 UJ	98 U	90 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	86 U	85 U	88 U	98 U	90 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	210 UJ	200 U	210 UJ	240 U	220 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	11 J	85 U	88 U	8.1 J	4.8 J
Phenol	UG/KG	51	13%	330	0	16	119	86 U	6.9 J	8.1 J	98 UJ	90 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-21	SS57-22	SS57-23	SS57-24	SS57-25
								SOIL	SOIL	SOIL	SOIL	SOIL
								574034	574035	574036	574037	574038
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	19 J	7.4 J	10 J	14 J	11 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.3 U	4.2 U	4.3 U	5.4 J	4.5 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.3 U	4.2 U	4.3 U	5.4 J	4.5 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.2 U	2.2 U	2.2 U	5.2	2.3 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	43 U	42 U	43 U	49 U	45 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	87 U	85 U	88 U	100 U	91 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	43 U	42 U	43 U	49 U	45 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	43 U	42 U	43 U	49 U	45 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	43 U	42 U	43 U	49 U	45 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	43 U	42 U	43 U	49 U	45 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	43 U	42 U	43 U	49 U	45 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-21 SOIL 574034	SS57-22 SOIL 574035	SS57-23 SOIL 574036	SS57-24 SOIL 574037	SS57-25 SOIL 574038
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.2 U	2.2 U	2.2 U	5.2 J	2.3 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.3 U	4.2 U	4.3 U	3.1 J	4.5 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Endrin	UG/KG	0	0%	14	0	0	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.3 U	4.2 U	4.3 U	4.9 U	4.5 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.2 U	2.2 U	2.2 U	2.5 U	2.3 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	22 U	22 U	22 U	25 U	23 U
Toxaphene	UG/KG	0	0%	0	0	0	119	220 U	220 U	220 U	250 U	230 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	12100	14400	10700	16900	15000
Antimony	MG/KG	6.5	49%	0	0	58	119	1.3 J	0.68 J	0.52 UR	0.58 UR	0.86 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.1 J	4.2	3.5 J	4.2	4.3
Barium	MG/KG	237	100%	350	0	119	119	93.5	79.6	53	164	139
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.76 J	0.91 J	0.53 J	1.4	1.2
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	6	0.05 U	0.05 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	1470	1490	2100	4110	2410
Chromium	MG/KG	32.1	100%	30	2	119	119	15.1	18.7	11.9	22.8 J	19.8 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	6.5 J	11.4 J	6.6 J	12.4 J	13.5

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-21	SS57-22	SS57-23	SS57-24	SS57-25
								SOIL	SOIL	SOIL	SOIL	SOIL
								574034	574035	574036	574037	574038
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/19/99	12/19/99	12/19/99	12/19/99	12/19/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	10	14	13.4	22	15
Cyanide	MG/KG	0	0%	27	0	0	119	0.64 U	0.62 U	0.63 U	0.73 U	0.68 U
Iron	MG/KG	39800	100%	0	0	119	119	20300	23800	15000	27100 J	26700 J
Lead	MG/KG	1860	100%	63	2	119	119	20.9 J	66.8 J	16.1 J	24.5	24.3
Magnesium	MG/KG	27600	100%	0	0	119	119	2590 J	2970 J	2080 J	3750	3170
Manganese	MG/KG	2580	100%	1600	5	119	119	454	746	306	1040 J	1180 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.1 J	0.07 J	0.06 J	0.12	0.11 J
Nickel	MG/KG	54.1	100%	30	37	119	119	13.5	20.7	11.9	27.9 J	20.3 J
Potassium	MG/KG	3250	100%	0	0	119	119	1100 J	1060 J	768 J	1660	1280
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.69 J	0.74 J	0.59 U	1 J	1.3 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.29 UJ	0.32 UJ	0.31 UJ	0.34 UJ	0.3 UJ
Sodium	MG/KG	270	34%	0	0	41	119	65.2 U	70.4 U	68 U	76.7 U	65.7 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.7 J	2.9	0.75 U	3.7	4.9
Vanadium	MG/KG	104	99%	0	0	118	119	24.5	27.4	19	29.7	29.4
Zinc	MG/KG	1250	93%	109	11	111	119	55.3	65.5	51.8	82.3 J	65.4 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.01	0.04	0.32	0.57 J	0.3 J
Percent Solids	% WW	94	100%	0	0	101	101	77.1	78.2	74.6	66.7	73.3
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-27	SS57-27	SS57-28	SS57-29	SS57-3
								SOIL	SOIL	SOIL	SOIL	SOIL
							574041	574040	574042	574043	574043	SS57-3-1
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							12/20/99	12/20/99	12/20/99	12/20/99	12/20/99	10/26/93
							DU	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	13 U	13 U	14 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	13 U	13 U	14 U	12 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	13 U	13 U	14 U	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	13 U	13 U	14 U	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	13 U	13 U	14 U	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Acetone	UG/KG	700	74%	50	87	94	127	340 J	260 J	220 J	110 J	12 U
Benzene	UG/KG	1	2%	60	0	2	127	13 U	13 U	14 U	12 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	13 U	14 U	12 U	12 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	13 U	13 U	14 U	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	13 U	13 U	14 U	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Chloroethane	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	13 U	13 U	14 U	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	13 U	13 U	14 U	12 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	23	17	16	12 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	13 U	14 U	12 U	12 U
Styrene	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	13 U	13 U	14 U	12 U	2 J
Toluene	UG/KG	33	65%	700	0	82	127	32 J	11 J	22	5 J	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	1 J	13 U	14 U	12 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	13 U	14 U	12 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	13 U	13 U	14 U	12 U	12 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-27 SOIL 574041	SS57-27 SOIL 574040	SS57-28 SOIL 574042	SS57-29 SOIL 574043	SS57-3 SOIL 574043
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	10/26/93
								DU	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	13 U	13 U	14 U	12 U	12 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	90 U	88 UJ	86 U	87 U	420 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	90 U	88 U	86 U	87 U	420 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	90 U	88 U	86 U	87 U	420 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					420 U
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	220 U	210 U	210 U	210 U	1000 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 UR	210 UJ	210 UJ	1000 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	90 U	88 UJ	86 U	87 U	420 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	90 U	88 U	86 U	87 U	420 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	210 U	210 U	1000 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	210 U	210 U	1000 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	220 U	210 UJ	210 U	210 U	1000 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	90 U	88 U	86 U	87 U	420 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	210 UJ	210 UJ	1000 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 U	210 U	210 U	1000 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	90 U	88 U	86 U	87 U	420 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	90 U	88 U	86 U	87 U	420 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	90 U	88 U	86 U	87 U	420 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-27 SOIL 574041	SS57-27 SOIL 574040	SS57-28 SOIL 574042	SS57-29 SOIL 574043	SS57-3 SOIL 574043
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	10/26/93
								DU	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	8.4 J	88 U	6.3 J	87 U	420 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	90 U	88 U	86 U	87 U	420 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	11 J	88 U	11 J	6.3 J	420 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	90 U	88 U	86 U	87 U	420 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	7.5 J	88 UJ	6.6 J	5.9 J	420 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	90 U	88 U	86 U	87 U	420 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	20 J	88 U	18 J	11 J	420 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 UJ	87 UJ	420 U
Carbazole	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Chrysene	UG/KG	110	33%	1000	0	39	119	12 J	88 UJ	8.1 J	5.4 J	420 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	170 J	6.9 J	160	120	420 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	90 UJ	88 UJ	86 UJ	87 UJ	420 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	90 U	88 U	86 U	87 U	420 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	90 U	88 U	86 U	87 U	420 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	90 UJ	2.6 J	86 UJ	87 UJ	420 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	90 U	88 UJ	86 U	87 U	420 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	9.1 J	5.1 J	11 J	7.7 J	420 U
Fluorene	UG/KG	120	2%	30000	0	2	119	90 U	88 U	86 U	87 U	420 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	90 U	88 UJ	86 UJ	87 UJ	420 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	90 U	88 U	86 U	87 U	420 U
Isophorone	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	90 U	88 U	86 U	87 U	420 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	90 U	88 UJ	86 U	87 U	420 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	90 U	88 U	86 U	87 U	420 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	220 U	210 UJ	210 U	210 U	1000 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	5.6 J	88 U	7.4 J	3.7 J	420 U
Phenol	UG/KG	51	13%	330	0	16	119	90 U	7.2 J	86 U	87 U	420 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-27 SOIL 574041	SS57-27 SOIL 574040	SS57-28 SOIL 574042	SS57-29 SOIL 574043	SS57-3 SOIL 574043
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	10/26/93
								DU	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	12 J	8.8 J	12 J	8.4 J	420 U
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.5 UJ	9.1 J	4.3 U	4.4 U	4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	45 U	44 U	43 U	44 U	42 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	91 U	88 U	88 U	89 U	86 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	45 U	44 U	43 U	44 U	42 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	45 U	44 U	43 U	44 U	42 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	45 U	44 U	43 U	44 U	42 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	45 U	44 U	43 U	44 U	42 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	45 U	44 U	43 U	44 U	42 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.5 U	18 J	4.3 U	4.4 U	4.2 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-27 SOIL 574041	SS57-27 SOIL 574040	SS57-28 SOIL 574042	SS57-29 SOIL 574043	SS57-3 SOIL 574044
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	10/26/93
								DU	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
Endrin	UG/KG	0	0%	14	0	0	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.5 U	4.4 U	4.3 U	4.4 U	4.2 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	23 U	22 U	22 U	23 U	22 U
Toxaphene	UG/KG	0	0%	0	0	0	119	230 U	220 U	220 U	230 U	220 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					6.4 U
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					6.4 U
2,4-D	UG/KG	0	0%	0	0	0	18					6.4 U
2,4-DB	UG/KG	0	0%	0	0	0	18					160 U
Dalapon	UG/KG	0	0%	0	0	0	18					6.4 U
Dicamba	UG/KG	0	0%	0	0	0	18					6.4 U
Dichloroprop	UG/KG	0	0%	0	0	0	18					32 U
Dinoseb	UG/KG	0	0%	0	0	0	18					6400 U
MCPA	UG/KG	0	0%	0	0	0	18					6400 U
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	16400	15900	12600	14100	17400
Antimony	MG/KG	6.5	49%	0	0	58	119	0.55 UR	0.8 J	0.54 UR	0.8 J	7.7 UJ
Arsenic	MG/KG	17.8	92%	13	1	110	119	3	3.1	3.5	4	5 UR
Barium	MG/KG	237	100%	350	0	119	119	84.8	81.7	65.3	123	72.6
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.94 J	0.98 J	0.68 J	1.1	0.81
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.05 U	0.05 U	0.04 U	0.48 U
Calcium	MG/KG	213000	100%	0	0	119	119	1500	1350	3690	3300	1590
Chromium	MG/KG	32.1	100%	30	2	119	119	23.4 J	22.7	17.6 J	19 J	24.5
Cobalt	MG/KG	29.7	100%	0	0	119	119	11.4 J	12.4	9.2 J	10.6 J	9.9

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-27 SOIL 574041	SS57-27 SOIL 574040	SS57-28 SOIL 574042	SS57-29 SOIL 574043	SS57-3 SOIL 574043
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	10/26/93
								DU	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	14.5	13.9	17.1	17.7	24.8
Cyanide	MG/KG	0	0%	27	0	0	119	0.63 U	0.64 U	0.63 U	0.62 U	0.73 U
Iron	MG/KG	39800	100%	0	0	119	119	28300 J	27900	22600 J	26200 J	29100
Lead	MG/KG	1860	100%	63	2	119	119	21.3	18 J	21.5	18.6	30.9
Magnesium	MG/KG	27600	100%	0	0	119	119	3900	3950 J	3340	3260	4510
Manganese	MG/KG	2580	100%	1600	5	119	119	677 J	757	346 J	786 J	418
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.1 J	0.08 J	0.08 J	0.09 J	0.06 J
Nickel	MG/KG	54.1	100%	30	37	119	119	25.5 J	24.7	22.7 J	19.9 J	29.2
Potassium	MG/KG	3250	100%	0	0	119	119	1370	1450	1390	1340	1370
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.64 J	0.61 U	0.83 J	1.5 J	0.22 UJ
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.32 UJ	0.32 UJ	0.28 UJ	0.98 UJ
Sodium	MG/KG	270	34%	0	0	41	119	72 U	70.9 U	71.1 U	61.4 U	39.2 J
Thallium	MG/KG	6.7	82%	0	0	98	119	2.8	2.9	1.8 J	3.6	0.24 U
Vanadium	MG/KG	104	99%	0	0	118	119	27.8	27.4	21.8	27.6	29.4
Zinc	MG/KG	1250	93%	109	11	111	119	71.1 J	66.4	66.7 J	58.5 J	88 UR
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.08 J	0.05	0.37 J	0.09 J	
Percent Solids	% WW	94	100%	0	0	101	101	73	75.5	76	75.3	
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-3	SS57-30	SS57-30	SS57-31	SS57-32
								SOIL	SOIL	SOIL	SOIL	SOIL
								574001	574000	574000	574044	574045
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	11/30/99	11/30/99	12/20/99	12/20/99
								SA	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	13 U	15 U	17 U	13 U	10 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	13 U	15 U	17 U	13 U	10 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	13 U	15 U	17 U	13 U	10 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	13 U	15 U	17 U	13 U	10 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	13 U	15 U	17 U	13 U	10 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Acetone	UG/KG	700	74%	50	87	94	127	13 U	280 J	240 J	100 J	160 J
Benzene	UG/KG	1	2%	60	0	2	127	13 U	15 U	17 U	13 U	10 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Bromoform	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	13 U	15 U	17 U	13 U	10 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	13 U	15 U	17 U	13 U	10 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	13 U	15 U	17 U	13 U	10 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Chloroethane	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Chloroform	UG/KG	7	1%	370	0	1	127	7 J	15 U	17 U	13 U	10 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	13 U	15 U	17 U	13 U	10 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	13 U	15 UJ	17 UJ	13 U	10 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	13 U	26 J	27 J	13 UJ	12
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	13 U	15 U	17 U	13 U	10 U
Styrene	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	13 U	15 U	17 U	13 U	10 U
Toluene	UG/KG	33	65%	700	0	82	127	13 U	15 U	17 U	11 J	33
Total Xylenes	UG/KG	2	2%	260	0	3	127	13 U	15 U	17 U	13 U	10 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	13 U	15 U	17 U	13 U	10 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	13 U	15 U	17 U	13 U	10 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-3	SS57-30	SS57-30	SS57-31	SS57-32
								SOIL	SOIL	SOIL	SOIL	SOIL
								574001	574000	574000	574044	574045
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	11/30/99	11/30/99	12/20/99	12/20/99
								SA	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	13 U	15 U	17 U	13 U	10 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119		90 UJ	87 U	90 U	84 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119		90 UJ	87 U	90 U	84 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119		90 UJ	87 U	90 U	84 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119		90 UJ	87 U	90 U	84 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119		220 UJ	210 U	220 U	200 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119		90 UJ	87 U	90 U	84 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119		90 UJ	87 UJ	90 U	84 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119		90 UJ	87 UJ	90 U	84 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119		220 UJ	210 UJ	220 UJ	200 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		90 UJ	87 U	90 U	84 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		90 U	87 U	90 U	84 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119		90 U	87 U	90 U	84 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119		90 U	87 U	90 U	84 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119		90 U	87 U	90 U	84 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119		90 UJ	87 UJ	90 U	84 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119		220 UJ	210 UJ	220 U	200 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119		90 U	87 U	90 U	84 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119		90 UJ	87 UJ	90 U	84 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119		220 UJ	210 UJ	220 U	200 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119		220 UJ	210 UJ	220 U	200 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119		90 U	87 U	90 U	84 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119		90 UJ	87 UJ	90 U	84 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119		90 UJ	87 UJ	90 U	84 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119		90 U	87 U	90 U	84 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119		90 UJ	87 UJ	90 U	84 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119		220 U	210 U	220 UJ	200 UJ
4-Nitrophenol	UG/KG	0	0%	0	0	0	119		220 UJ	210 UJ	220 U	200 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119		90 U	87 U	90 U	84 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119		90 U	87 U	90 U	84 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119		90 U	87 U	90 U	84 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-3	SS57-30	SS57-30	SS57-31	SS57-32
								SOIL	SOIL	SOIL	SOIL	SOIL
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	11/30/99	11/30/99	12/20/99	12/20/99
								SA	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	90 U	87 U	90 U	90 U	84 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	90 U	87 U	90 U	90 U	84 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	90 U	87 U	90 U	90 U	84 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	90 U	87 U	90 U	90 U	84 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	90 U	87 U	90 U	90 U	84 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	90 U	87 U	90 U	90 U	84 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	90 U	87 U	90 U	90 U	84 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Carbazole	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Chrysene	UG/KG	110	33%	1000	0	39	119	90 U	87 U	90 U	5 J	84 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	90 U	87 U	90 U	99	110
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	90 U	87 U	90 U	90 U	84 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	90 U	87 U	90 U	90 U	84 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	90 U	87 U	90 U	90 U	84 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	90 U	87 U	90 U	90 U	84 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	90 U	87 U	90 U	7.4 J	4.8 J
Fluorene	UG/KG	120	2%	30000	0	2	119	90 U	87 U	90 U	90 U	84 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	90 U	87 U	90 U	90 U	84 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	90 U	87 U	90 U	90 U	84 U
Isophorone	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	90 U	87 U	90 U	90 U	84 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	90 U	87 U	90 U	90 U	84 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	90 U	87 U	90 U	90 U	84 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	220 U	210 U	220 U	220 U	200 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	90 U	87 U	90 U	90 U	84 U
Phenol	UG/KG	51	13%	330	0	16	119	90 U	87 U	90 U	90 U	84 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-3	SS57-30	SS57-30	SS57-31	SS57-32
								SOIL	SOIL	SOIL	SOIL	SOIL
								574001	574000	574000	574044	574045
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	11/30/99	11/30/99	12/20/99	12/20/99
								SA	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	90 UJ	87 UJ	7.9 J	5.8 J	
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 J	2.2 J	2.3 U	2.2 U	2.2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	45 U	44 U	45 U	42 U	42 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	92 U	90 U	92 U	86 U	86 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	45 U	44 U	45 U	42 U	42 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	45 U	44 U	45 U	42 U	42 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	45 U	44 U	45 U	42 U	42 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	45 U	44 U	45 U	42 U	42 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	45 U	44 U	45 U	42 U	42 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.5 U	4.4 U	4.5 U	4.2 U	4.2 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-3	SS57-30	SS57-30	SS57-31	SS57-32
								SOIL	SOIL	SOIL	SOIL	SOIL
								574001	574000	574000	574044	574045
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	11/30/99	11/30/99	12/20/99	12/20/99
								SA	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.3 U	2.3 U	2.3 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.5 U	4.4 U	4.5 U	4.5 U	4.2 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.5 U	4.4 U	4.5 U	4.5 U	4.2 U
Endrin	UG/KG	0	0%	14	0	0	119	4.5 U	4.4 U	4.5 U	4.5 U	4.2 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.5 U	4.4 U	4.5 U	4.5 U	4.2 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.5 U	4.4 U	4.5 U	4.5 U	4.2 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.3 U	2.3 U	2.3 U	2.3 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.3 U	2.3 U	2.3 U	2.3 U	2.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.3 U	2.3 U	2.3 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.3 U	2.3 U	2.3 U	2.2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	23 U	23 U	23 U	23 U	22 U
Toxaphene	UG/KG	0	0%	0	0	0	119	230 U	230 U	230 U	230 U	220 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	11900	12100	13700	10200	
Antimony	MG/KG	6.5	49%	0	0	58	119	0.92 UR	1.2 J	0.56 UR	0.5 UR	
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.2	5.3 J	3.9	1.6 J	
Barium	MG/KG	237	100%	350	0	119	119	103	115	136	64.7	
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.7 J	0.72 J	0.8 J	0.55 J	
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.06 U	0.07 U	0.05 U	0.05 U	
Calcium	MG/KG	213000	100%	0	0	119	119	4070	4100	3130	2070	
Chromium	MG/KG	32.1	100%	30	2	119	119	16.4	16.8	16.8 J	12 J	
Cobalt	MG/KG	29.7	100%	0	0	119	119	8 J	11.4 J	6 J	5.4 J	

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-3	SS57-30	SS57-30	SS57-31	SS57-32
								SOIL	SOIL	SOIL	SOIL	SOIL
								SS57-3-2	574001	574000	574044	574045
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	11/30/99	11/30/99	12/20/99	12/20/99
								SA	DU	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	21.9	21.6	14.9	10.1	10.1
Cyanide	MG/KG	0	0%	27	0	0	119	0.67 U	0.62 U	0.66 U	0.62 U	0.62 U
Iron	MG/KG	39800	100%	0	0	119	119	20500 J	22400	20300 J	15100 J	15100 J
Lead	MG/KG	1860	100%	63	2	119	119	21.9	22.6	13.8	12.4	12.4
Magnesium	MG/KG	27600	100%	0	0	119	119	3130	3180	3040	2230	2230
Manganese	MG/KG	2580	100%	1600	5	119	119	376 J	725 J	246 J	180 J	180 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.1 J	0.11 J	0.1 J	0.11 J	0.11 J
Nickel	MG/KG	54.1	100%	30	37	119	119	18.3	19.1	17.3 J	12 J	12 J
Potassium	MG/KG	3250	100%	0	0	119	119	1360 J	1450 J	1140 J	774 J	774 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.45 U	0.57 U	1 J	0.57 UJ	0.57 UJ
Silver	MG/KG	1.7	38%	2	0	45	119	0.53 J	0.52 J	0.33 UJ	0.3 UJ	0.3 UJ
Sodium	MG/KG	270	34%	0	0	41	119	164 U	207 U	73 U	65.9 U	65.9 U
Thallium	MG/KG	6.7	82%	0	0	98	119	0.6 J	0.85 J	1.9 J	0.73 U	0.73 U
Vanadium	MG/KG	104	99%	0	0	118	119	22	23.5	22.3	18.7	18.7
Zinc	MG/KG	1250	93%	109	11	111	119	60.1	60.2	50.1 J	42.9 J	42.9 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	4.4 J	1.2 J	0.18 J	0.28 J	0.28 J
Percent Solids	% WW	94	100%	0	0	101	101	72.8	73.6	73.3	78.3	78.3
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33	SS57-34	SS57-35	SS57-36	SS57-37
								SOIL	SOIL	SOIL	SOIL	SOIL
								574046	574047	574048	574049	574050
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	15 U	14 U	13 U	14 U	14 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	15 U	14 U	13 U	14 U	14 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	15 U	14 U	13 U	14 U	14 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	15 U	14 U	13 U	14 U	14 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	15 U	14 U	13 U	14 U	14 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Acetone	UG/KG	700	74%	50	87	94	127	150 J	260 J	310 J	160 J	280 J
Benzene	UG/KG	1	2%	60	0	2	127	15 U	14 U	13 U	14 U	14 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Bromoform	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	15 U	14 U	13 U	14 U	14 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	15 U	14 U	13 U	14 U	14 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	15 U	14 U	13 U	14 U	14 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Chloroethane	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Chloroform	UG/KG	7	1%	370	0	1	127	15 U	14 U	13 U	14 U	14 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	15 U	14 U	13 U	14 U	14 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	15 U	23 J	24	17 J	22 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	15 U	14 U	13 U	14 U	14 U
Styrene	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	15 U	14 U	13 U	14 U	14 U
Toluene	UG/KG	33	65%	700	0	82	127	26	4 J	23	6 J	11 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	15 U	14 U	13 U	14 U	14 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	15 U	14 U	13 U	14 U	14 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	15 U	14 U	13 U	14 U	14 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33 SOIL 574046	SS57-34 SOIL 574047	SS57-35 SOIL 574048	SS57-36 SOIL 574049	SS57-37 SOIL 574050
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	15 U	14 U	13 U	14 U	14 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	92 U	88 U	93 U	84 U	94 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	92 U	88 U	93 U	84 U	94 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	92 U	88 U	93 U	84 U	94 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	220 U	210 U	220 U	200 U	230 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 UJ	220 UJ	200 UJ	230 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	92 U	88 U	93 U	84 U	94 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	92 U	88 U	93 U	84 U	94 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	220 U	200 U	230 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	220 U	200 U	230 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	220 U	210 U	220 U	200 U	230 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	92 U	88 U	93 U	84 U	94 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 U	210 U	220 U	200 U	230 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 UJ	220 UJ	200 UJ	230 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	92 U	88 U	93 U	84 U	94 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	92 U	88 U	93 U	84 U	94 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	92 U	88 U	93 U	84 U	94 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33 SOIL 574046	SS57-34 SOIL 574047	SS57-35 SOIL 574048	SS57-36 SOIL 574049	SS57-37 SOIL 574050
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	92 U	88 U	93 U	84 U	94 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	92 U	88 U	93 U	84 U	94 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	9 J	88 UJ	7.9 J	10 J	4.8 J
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	92 U	88 U	93 U	84 U	94 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	9 J	88 UJ	7.9 J	10 J	5.5 J
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	92 U	88 U	93 U	84 U	94 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	9.7 J	13 J	11 J	84 UJ	94 UJ
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Carbazole	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Chrysene	UG/KG	110	33%	1000	0	39	119	5.5 J	4.4 J	93 U	6.4 J	7 J
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	93	18 J	28 J	30 J	39 J
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	92 UJ	88 UJ	93 UJ	84 UJ	94 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	92 U	88 U	93 U	84 U	94 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	92 U	88 U	93 U	84 U	94 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	92 UJ	88 UJ	93 UJ	84 UJ	94 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	5.4 J	4.5 J	5.9 J	7.6 J	8.6 J
Fluorene	UG/KG	120	2%	30000	0	2	119	92 U	88 U	93 U	84 U	94 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	92 U	88 U	93 U	84 U	94 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	92 U	88 U	93 U	84 U	94 U
Isophorone	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	92 U	88 U	93 U	84 U	94 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	92 U	88 U	93 U	84 U	94 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	92 U	88 U	93 U	84 U	94 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	220 U	210 U	220 U	200 U	230 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	92 U	88 U	2.9 J	4.3 J	5 J
Phenol	UG/KG	51	13%	330	0	16	119	92 U	88 U	93 U	84 U	94 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33 SOIL 574046	SS57-34 SOIL 574047	SS57-35 SOIL 574048	SS57-36 SOIL 574049	SS57-37 SOIL 574050
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	4.9 J	4.8 J	5.5 J	8 J	9.4 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 J
Aroclor-1016	UG/KG	0	0%	100	0	0	119	46 U	44 U	46 U	42 U	47 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	94 U	90 U	94 U	86 U	96 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	46 U	44 U	46 U	42 U	47 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	46 U	44 U	46 U	42 U	47 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	46 U	44 U	46 U	42 U	47 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	46 U	44 U	46 U	42 U	47 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	46 U	44 U	46 U	42 U	47 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33 SOIL 574046	SS57-34 SOIL 574047	SS57-35 SOIL 574048	SS57-36 SOIL 574049	SS57-37 SOIL 574050
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Endrin	UG/KG	0	0%	14	0	0	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.6 U	4.4 U	4.6 U	4.2 U	4.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	24 U	23 U	24 U	22 U	24 U
Toxaphene	UG/KG	0	0%	0	0	0	119	240 U	230 U	240 U	220 U	240 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14700	14900	13500	12100	16500
Antimony	MG/KG	6.5	49%	0	0	58	119	0.54 UR	0.59 UR	0.59 UR	0.52 UR	0.61 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	3.7	3.9	4.5	4.3	4.9
Barium	MG/KG	237	100%	350	0	119	119	129	136	187	108	168
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.99 J	1.2 J	1.2 J	0.93 J	1.5
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U
Calcium	MG/KG	213000	100%	0	0	119	119	3270	3760	5050	2890	4820
Chromium	MG/KG	32.1	100%	30	2	119	119	18.3 J	20.3 J	18.9 J	16.3 J	21 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	8.6 J	11.1 J	12 J	11.5 J	15

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-33 SOIL 574046	SS57-34 SOIL 574047	SS57-35 SOIL 574048	SS57-36 SOIL 574049	SS57-37 SOIL 574050
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/20/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	16.8	19.2	17	16.7	21.7
Cyanide	MG/KG	0	0%	27	0	0	119	0.67 U	0.66 U	0.7 U	0.61 U	0.72 U
Iron	MG/KG	39800	100%	0	0	119	119	24700 J	25300 J	23800 J	23000 J	27300 J
Lead	MG/KG	1860	100%	63	2	119	119	16.8	18.3	20.1	18	21.7
Magnesium	MG/KG	27600	100%	0	0	119	119	3160	3970	3500	3360	3780
Manganese	MG/KG	2580	100%	1600	5	119	119	585 J	772 J	1220 J	931 J	1540 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.08 J	0.13	0.11 J	0.09	0.11
Nickel	MG/KG	54.1	100%	30	37	119	119	18.4 J	24.2 J	22.8 J	18.4 J	27.4 J
Potassium	MG/KG	3250	100%	0	0	119	119	1290	1420	1400	1290	1830
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.74 J	0.67 UJ	2.1 J	0.88 J	1.8 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.35 UJ	0.35 UJ	0.31 UJ	0.36 UJ
Sodium	MG/KG	270	34%	0	0	41	119	70.7 U	77.6 U	77.3 U	68.2 U	79.6 U
Thallium	MG/KG	6.7	82%	0	0	98	119	1.4 J	3 J	3.9	3.6	5.4
Vanadium	MG/KG	104	99%	0	0	118	119	26.3	26.6	24.3	25.2	30.6
Zinc	MG/KG	1250	93%	109	11	111	119	60.8 J	64.9 J	71.4 J	53.1 J	75.4 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.17 J	0.09 J	0.78 J	0.72 J	0.37 J
Percent Solids	% WW	94	100%	0	0	101	101	70.5	73.7	70.5	77.8	69.8
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-38 SOIL 574051	SS57-39 SOIL 574052	SS57-40 SOIL 574053	SS57-41 SOIL 574054	SS57-42 SOIL 574055
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/21/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	12 U	12 U	13 U	13 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	12 U	12 U	13 U	13 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	12 U	12 U	13 U	13 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	12 U	12 U	13 U	13 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	12 U	12 U	13 U	13 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Acetone	UG/KG	700	74%	50	87	94	127	210 J	98 J	180 J	350 J	170 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	12 U	13 U	13 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	12 U	13 U	13 U	12 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	12 U	12 U	13 U	13 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	12 U	12 U	13 U	13 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Chloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	12 U	13 U	13 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	12 U	12 U	13 U	13 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	19 J	12 UJ	16 J	26 J	17 J
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	12 U	13 U	13 U	12 U
Styrene	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	12 U	12 U	13 U	13 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	8 J	5 J	7 J	9 J	4 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	12 U	13 U	13 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U	13 U	13 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	12 U	12 U	13 U	13 U	12 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-38 SOIL 574051	SS57-39 SOIL 574052	SS57-40 SOIL 574053	SS57-41 SOIL 574054	SS57-42 SOIL 574055
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/21/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	12 U	12 U	13 U	13 U	12 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	230 UJ	220 UJ	200 UJ
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	220 UR	220 UR	230 UR	220 UR	200 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2-Methylphenol	UG/KG	0	0%	330	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	230 UJ	220 UJ	200 UJ
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	230 UJ	220 UJ	200 UJ
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	230 UJ	220 UJ	200 UJ
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
4-Methylphenol	UG/KG	13	3%	330	0	3	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	230 UJ	220 UJ	200 UJ
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	220 UJ	220 UJ	230 UJ	220 UJ	200 UJ
Acenaphthene	UG/KG	0	0%	20000	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Anthracene	UG/KG	8.2	3%	100000	0	3	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-38 SOIL 574051	SS57-39 SOIL 574052	SS57-40 SOIL 574053	SS57-41 SOIL 574054	SS57-42 SOIL 574055
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/21/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	5.6 J	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	8.5 J	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	7.9 J	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	7.5 J	91 UJ	94 UJ	90 UJ	83 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Carbazole	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	7.2 J	91 UJ	94 UJ	90 UJ	83 UJ
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Fluoranthene	UG/KG	150	50%	100000	0	60	119	13 J	7.4 J	94 UJ	6.2 J	83 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Hexachloroethane	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Isophorone	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Naphthalene	UG/KG	180	1%	12000	0	1	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	119	89 UJ	91 UJ	94 UJ	90 UJ	83 UJ
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	220 UJ	220 UJ	230 UJ	220 UJ	200 UJ
Phenanthrene	UG/KG	230	37%	100000	0	44	119	4.9 J	4.6 J	94 UJ	90 UJ	83 UJ
Phenol	UG/KG	51	13%	330	0	16	119	7 J	4.5 J	94 UJ	5.4 J	3.9 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-38 SOIL 574051	SS57-39 SOIL 574052	SS57-40 SOIL 574053	SS57-41 SOIL 574054	SS57-42 SOIL 574055
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/21/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	9 J	5.8 J	94 UJ	4.7 J	83 UJ
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
HMX	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
RDX	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
Tetryl	UG/KG	0	0%	0	0	0	119	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.4 U	4.6 U	4.7 U	4.5 U	2.1 J
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	44 U	46 U	47 U	45 U	41 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	90 U	93 U	95 U	91 U	84 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	44 U	46 U	47 U	45 U	41 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	44 U	46 U	47 U	45 U	41 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	44 U	46 U	47 U	45 U	41 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	44 U	46 U	47 U	45 U	41 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	44 U	46 U	47 U	45 U	41 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-38 SOIL 574051	SS57-39 SOIL 574052	SS57-40 SOIL 574053	SS57-41 SOIL 574054	SS57-42 SOIL 574055
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/21/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
Endrin	UG/KG	0	0%	14	0	0	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.4 U	4.6 U	4.7 U	4.5 U	4.1 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.4 U	2.4 U	2.3 U	2.1 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	23 U	24 U	24 U	23 U	21 U
Toxaphene	UG/KG	0	0%	0	0	0	119	230 U	240 U	240 U	230 U	210 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	11800	15100	16100	13300	11800
Antimony	MG/KG	6.5	49%	0	0	58	119	0.59 UR	0.61 UR	0.51 J	0.57 UR	0.53 UR
Arsenic	MG/KG	17.8	92%	13	1	110	119	2 J	4.1	3.7	2.5 J	3.2
Barium	MG/KG	237	100%	350	0	119	119	83.5	202	141	91.9	106
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.7 J	1.5	1.1	0.79 J	0.84 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.06 U	0.04 U	0.05 U	0.05 U
Calcium	MG/KG	213000	100%	0	0	119	119	2910	2900	3660	3430	2950
Chromium	MG/KG	32.1	100%	30	2	119	119	16	20.1	20.4	18.2 J	15.4 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	6.9 J	17.1	8.2 J	8.5 J	7.2 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-38 SOIL 574051	SS57-39 SOIL 574052	SS57-40 SOIL 574053	SS57-41 SOIL 574054	SS57-42 SOIL 574055
								0.2	0.2	0.2	0.2	0.2
								12/20/99	12/20/99	12/20/99	12/20/99	12/21/99
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	14.1	18.7	20.8	17.7	15.1
Cyanide	MG/KG	0	0%	27	0	0	119	0.68 U	0.66 U	0.71 U	0.66 U	0.61 U
Iron	MG/KG	39800	100%	0	0	119	119	20200	27200	24600	22800	19000
Lead	MG/KG	1860	100%	63	2	119	119	18.4	18	12.5	22.1	12.8
Magnesium	MG/KG	27600	100%	0	0	119	119	2760	3340	3310	3150	2970
Manganese	MG/KG	2580	100%	1600	5	119	119	335 J	1990 J	406 J	359 J	568 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.09 J	0.14 J	0.1 J	0.13	0.09 J
Nickel	MG/KG	54.1	100%	30	37	119	119	16.4 J	25.3 J	25.2 J	21 J	17.2 J
Potassium	MG/KG	3250	100%	0	0	119	119	1280 J	1480	1440	1370	1170 J
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.74 J	1.8 J	1.1 J	0.7 J	1.3 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.35 UJ	0.36 UJ	0.26 UJ	0.34 UJ	0.31 UJ
Sodium	MG/KG	270	34%	0	0	41	119	78.1 U	80.2 U	58.6 U	75.3 U	69.4 U
Thallium	MG/KG	6.7	82%	0	0	98	119	2.1 J	5.7	2.5	1.8 J	2.2 J
Vanadium	MG/KG	104	99%	0	0	118	119	21.6	27.2	26.2	23.4	22.1
Zinc	MG/KG	1250	93%	109	11	111	119	57.7 J	79.1 J	68.5 J	69.1 J	50.1 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.46 J	0.26 J	0.41 J	0.45 J	0.01 U
Percent Solids	% WW	94	100%	0	0	101	101	74	72.1	70	73.1	78.6
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-43	SS57-44	SS57-45	SS57-45	SS57-46
								SOIL	SOIL	SOIL	SOIL	SOIL
							574056	574057	574059	574058	574060	574060
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							12/21/99	12/21/99	12/21/99	12/21/99	12/21/99	12/21/99
							SA	SA	DU	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	9 U	10 U	12 U	12 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	9 U	10 U	12 U	12 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	9 U	10 U	12 U	12 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	9 U	10 U	12 U	12 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	9 U	10 U	12 U	12 U	13 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Acetone	UG/KG	700	74%	50	87	94	127	93 J	100 J	88 J	97 J	98 J
Benzene	UG/KG	1	2%	60	0	2	127	9 U	10 U	12 U	12 U	13 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Bromoform	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	9 U	10 U	12 U	12 U	13 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	9 U	10 U	12 U	12 U	13 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	9 U	10 U	12 U	12 U	13 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Chloroethane	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	9 U	10 U	12 U	12 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	9 U	10 U	12 U	12 U	13 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	10	10 J	12 U	12 UJ	13 UJ
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	9 U	10 U	12 U	12 U	13 U
Styrene	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	9 U	10 U	12 U	12 U	13 U
Toluene	UG/KG	33	65%	700	0	82	127	2 J	6 J	9 J	5 J	9 J
Total Xylenes	UG/KG	2	2%	260	0	3	127	9 U	10 U	12 U	12 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	9 U	10 U	12 U	12 U	13 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	9 U	10 U	12 U	12 U	13 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-43 SOIL 574056	SS57-44 SOIL 574057	SS57-45 SOIL 574059	SS57-45 SOIL 574058	SS57-46 SOIL 574060
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	12/21/99
								SA	SA	DU	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	9 U	10 U	12 U	12 U	13 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 U	220 U	220 UJ	210 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	220 UR	210 UR	220 UR	220 UR	210 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	89 UJ	86 U	92 U	90 UJ	86 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 UJ	210 U	220 U	220 UJ	210 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 UJ	210 U	220 U	220 UJ	210 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 UJ	220 UJ	220 UJ	210 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	89 UJ	86 U	92 U	90 UJ	86 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	220 UJ	210 U	220 U	220 UJ	210 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	220 UJ	210 U	220 U	220 UJ	210 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	89 UJ	86 U	92 U	90 UJ	86 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-43 SOIL 574056	SS57-44 SOIL 574057	SS57-45 SOIL 574059	SS57-45 SOIL 574058	SS57-46 SOIL 574060
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	12/21/99
								SA	SA	DU	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	89 UJ	86 U	92 U	90 UJ	86 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	89 UJ	86 U	92 U	90 UJ	86 UJ
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	89 UJ	86 U	92 U	90 UJ	86 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	89 UJ	86 UJ	92 UJ	90 UJ	86 UJ
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 UJ
Carbazole	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 UJ
Chrysene	UG/KG	110	33%	1000	0	39	119	89 UJ	86 U	92 U	90 UJ	86 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	89 UJ	86 U	92 U	90 UJ	86 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	89 UJ	86 U	92 U	90 UJ	86 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	89 UJ	86 U	92 U	90 UJ	86 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	89 UJ	86 UJ	92 UJ	90 UJ	86 UJ
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	89 UJ	86 U	92 U	90 UJ	86 UJ
Fluorene	UG/KG	120	2%	30000	0	2	119	89 UJ	86 U	92 U	90 UJ	86 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	89 UJ	86 UJ	92 UJ	90 UJ	86 UJ
Hexachloroethane	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	89 UJ	86 U	92 U	90 UJ	86 U
Isophorone	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	89 UJ	86 U	92 U	90 UJ	86 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	89 UJ	86 U	92 U	90 UJ	86 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	89 UJ	86 U	92 U	90 UJ	86 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	220 UJ	210 U	220 U	220 UJ	210 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	89 UJ	86 U	92 U	90 UJ	86 U
Phenol	UG/KG	51	13%	330	0	16	119	4.5 J	86 U	92 U	4.3 J	86 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-43	SS57-44	SS57-45	SS57-45	SS57-46
								SOIL	SOIL	SOIL	SOIL	SOIL
								574056	574057	574059	574058	574060
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	12/21/99
								SA	SA	DU	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	89 UJ	86 U	4.7 J	90 UJ	86 U
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 UJ	120 U
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 UJ	120 U
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 UJ	120 U
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
HMX	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 UJ	120 U	120 U	120 UJ	120 U
RDX	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 UJ	120 U	120 U	120 UJ	120 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	2.2 J	4.3 U	4.6 U	4.5 U	4.3 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	44 U	43 U	46 U	45 U	43 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	90 U	87 U	93 U	91 U	88 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	44 U	43 U	46 U	45 U	43 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	44 U	43 U	46 U	45 U	43 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	44 U	43 U	46 U	45 U	43 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	44 U	43 U	46 U	45 U	43 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	44 U	43 U	46 U	45 U	43 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-43 SOIL 574056	SS57-44 SOIL 574057	SS57-45 SOIL 574059	SS57-45 SOIL 574058	SS57-46 SOIL 574060
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	12/21/99
								SA	SA	DU	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Endrin	UG/KG	0	0%	14	0	0	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.4 U	4.3 U	4.6 U	4.5 U	4.3 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.3 U	2.2 U	2.4 U	2.3 U	2.2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	23 U	22 U	24 U	23 U	22 U
Toxaphene	UG/KG	0	0%	0	0	0	119	230 U	220 U	240 U	230 U	220 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					
2,4-D	UG/KG	0	0%	0	0	0	18					
2,4-DB	UG/KG	0	0%	0	0	0	18					
Dalapon	UG/KG	0	0%	0	0	0	18					
Dicamba	UG/KG	0	0%	0	0	0	18					
Dichloroprop	UG/KG	0	0%	0	0	0	18					
Dinoseb	UG/KG	0	0%	0	0	0	18					
MCPA	UG/KG	0	0%	0	0	0	18					
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	11800	11300	13400	14900	13100
Antimony	MG/KG	6.5	49%	0	0	58	119	0.53 UR	0.49 U	0.51 U	0.57 UR	0.53 J
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.1	4.8	2.8	2.2 J	3.6
Barium	MG/KG	237	100%	350	0	119	119	200	115	132	131	107
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	1.4	0.88 J	0.79 J	0.86 J	0.81 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.05 U	0.06 J	2.9	0.05 U	0.04 U
Calcium	MG/KG	213000	100%	0	0	119	119	3450	2950	3230	3660	3260
Chromium	MG/KG	32.1	100%	30	2	119	119	16.2 J	15.2 J	16.7 J	18.2 J	15.9 J
Cobalt	MG/KG	29.7	100%	0	0	119	119	15.8	9 J	6.2 J	6.3 J	6.3 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-43 SOIL 574056	SS57-44 SOIL 574057	SS57-45 SOIL 574059	SS57-45 SOIL 574058	SS57-46 SOIL 574060
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	12/21/99
								SA	SA	DU	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	15.8	14.6	16.4	15.9	14
Cyanide	MG/KG	0	0%	27	0	0	119	0.65 U	0.63 U	0.62 U	0.62 U	0.66 U
Iron	MG/KG	39800	100%	0	0	119	119	25000	19600	18800	24600	18800
Lead	MG/KG	1860	100%	63	2	119	119	17.6	13.3 J	25.5 J	13.1	12.2 J
Magnesium	MG/KG	27600	100%	0	0	119	119	3420	2910	3040	3670	3040
Manganese	MG/KG	2580	100%	1600	5	119	119	2270 J	728	224 J	245 J	335
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.11 J	0.05 U	0.07 UJ	0.12	0.07 U
Nickel	MG/KG	54.1	100%	30	37	119	119	19.6 J	17.1	19.1	26.3 J	16.9
Potassium	MG/KG	3250	100%	0	0	119	119	1190 J	1030 J	1110 J	1220 J	1070
Selenium	MG/KG	2.7	63%	3.9	0	75	119	2.7 J	0.78 J	0.58 U	1.7 J	0.56 U
Silver	MG/KG	1.7	38%	2	0	45	119	0.32 UJ	0.5 J	0.45 J	0.33 UJ	0.29 J
Sodium	MG/KG	270	34%	0	0	41	119	70.2 U	99.1 J	90.7 J	74.3 U	60.1 U
Thallium	MG/KG	6.7	82%	0	0	98	119	6.6	4	1.6 J	1.7 J	2.2
Vanadium	MG/KG	104	99%	0	0	118	119	25.8	22.2	21.9	24	20.8
Zinc	MG/KG	1250	93%	109	11	111	119	51.7 J	49.9	57.8	56.4 J	62.4
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.1 J	0.04	0.42	0.23 J	0.48
Percent Solids	% WW	94	100%	0	0	101	101	74.2	77.2	71.8	73.4	75.7
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-47	SS57-48	SS57-49	SS57-5	SS57-5
								SOIL	SOIL	SOIL	SOIL	SOIL
							574061	574062	574063	SS57-5-1	SS57-5-2	SS57-5-2
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							12/21/99	12/21/99	12/21/99	10/26/93	12/08/93	12/08/93
							SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	11 U	12 U	13 U	14 U	15 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	11 U	12 U	13 U	14 U	15 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	11 U	12 U	13 U	14 U	15 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	11 U	12 U	13 U	14 U	15 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	11 U	12 U	13 U	14 U	15 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Acetone	UG/KG	700	74%	50	87	94	127	83 J	230 J	180 J	14 U	15 U
Benzene	UG/KG	1	2%	60	0	2	127	11 U	12 U	13 U	14 U	15 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Bromoform	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	12 U	13 U	14 U	15 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	11 U	12 U	13 U	14 U	15 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	11 U	12 U	13 U	14 U	15 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Chloroethane	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	12 U	13 U	14 U	15 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	11 U	12 U	13 U	14 U	15 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	9 J	18 J	16 J	14 U	15 U
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	11 U	12 U	13 U	14 U	15 U
Styrene	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	11 U	12 U	13 U	2 J	15 U
Toluene	UG/KG	33	65%	700	0	82	127	5 J	6 J	7 J	14 U	15 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	12 U	13 U	14 U	15 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	12 U	13 U	14 U	15 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	11 U	12 U	13 U	14 U	15 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-47	SS57-48	SS57-49	SS57-5	SS57-5
								SOIL	SOIL	SOIL	SOIL	SOIL
								574061	574062	574063	SS57-5-1	SS57-5-2
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	11 U	12 U	13 U	14 U	15 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	82 U	92 U	90 U	470 U	470 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	82 U	92 U	90 U	470 U	470 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	82 U	92 U	90 U	470 U	470 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18				470 U	470 U
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	200 U	220 U	220 U	1100 U	1100 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	200 U	220 U	220 U	1100 U	1100 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	82 U	92 U	90 U	470 U	470 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	82 U	92 U	90 U	470 U	470 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	200 U	220 U	220 U	1100 U	1100 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	200 U	220 U	220 U	1100 U	1100 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	200 U	220 U	220 U	1100 U	1100 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	82 U	92 U	90 U	470 U	470 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	200 U	220 U	220 U	1100 U	1100 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	200 U	220 U	220 U	1100 U	1100 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	82 U	92 U	90 U	470 U	470 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	82 U	92 U	90 U	470 U	470 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	82 U	92 U	90 U	470 U	470 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-47 SOIL 574061	SS57-48 SOIL 574062	SS57-49 SOIL 574063	SS57-5 SOIL 574063	SS57-5-1 574063
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	82 U	92 U	90 U	470 U	470 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	82 U	4.6 J	90 U	470 U	470 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	82 U	92 U	5.4 J	470 U	470 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	82 U	92 U	90 U	470 U	470 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	82 UJ	92 UJ	5.4 J	470 U	470 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	82 U	92 U	90 U	470 U	470 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	82 UJ	92 UJ	90 UJ	580 U	580 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	82 UJ	92 UJ	90 UJ	470 U	470 U
Carbazole	UG/KG	0	0%	0	0	0	119	82 UJ	92 UJ	90 UJ	470 U	470 U
Chrysene	UG/KG	110	33%	1000	0	39	119	82 U	4.8 J	4.8 J	470 U	470 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	82 U	92 U	90 U	470 U	470 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	82 U	92 U	90 U	470 U	470 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	82 U	92 U	90 U	470 U	470 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	82 U	92 U	90 U	470 U	470 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	82 UJ	92 UJ	90 UJ	470 U	470 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	82 UJ	8.6 J	7.7 J	470 U	470 U
Fluorene	UG/KG	120	2%	30000	0	2	119	82 U	92 U	90 U	470 U	470 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	82 U	92 U	90 U	470 U	470 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	82 UJ	92 UJ	90 UJ	470 U	470 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	82 U	92 U	90 U	470 U	470 U
Isophorone	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	82 U	92 U	90 U	470 U	470 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	82 U	92 U	90 U	470 U	470 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	82 U	92 U	90 U	470 U	470 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	200 U	220 U	220 U	1100 U	1100 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	82 U	4.8 J	4.7 J	470 U	470 U
Phenol	UG/KG	51	13%	330	0	16	119	82 U	92 U	90 U	470 U	470 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-47 SOIL 574061	SS57-48 SOIL 574062	SS57-49 SOIL 574063	SS57-5 SOIL 574063	SS57-5-1 574063
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	82 U	5.4 J	6.5 J	470 U	
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U		
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U		
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U		
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U		
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	130 U	
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.1 U	4.6 U	4.5 U	4.7 U	
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.1 U	4.6 U	4.5 U	4.7 U	
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.1 U	4.6 U	4.5 U	4.7 U	
Aldrin	UG/KG	0	0%	5	0	0	119	2.1 U	2.4 U	2.3 U	2.4 U	
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.1 U	2.4 U	2.3 U	2.4 U	
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.1 U	2.4 U	2.3 U	2.4 U	
Aroclor-1016	UG/KG	0	0%	100	0	0	119	41 U	46 U	45 U	47 U	
Aroclor-1221	UG/KG	0	0%	100	0	0	119	83 U	93 U	92 U	95 U	
Aroclor-1232	UG/KG	0	0%	100	0	0	119	41 U	46 U	45 U	47 U	
Aroclor-1242	UG/KG	0	0%	100	0	0	119	41 U	46 U	45 U	47 U	
Aroclor-1248	UG/KG	0	0%	100	0	0	119	41 U	46 U	45 U	47 U	
Aroclor-1254	UG/KG	0	0%	100	0	0	119	41 U	46 U	45 U	47 U	
Aroclor-1260	UG/KG	27	2%	100	0	2	119	41 U	46 U	45 U	27 J	
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.1 U	2.4 U	2.3 U	2.4 U	
Dieldrin	UG/KG	27	6%	5	5	7	119	4.1 U	4.6 U	4.5 U	4.7 U	

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-47 SOIL 574061	SS57-48 SOIL 574062	SS57-49 SOIL 574063	SS57-5 SOIL 574063	SS57-5-1
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	2.4 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.1 U	4.6 U	4.5 U	4.7 U	4.7 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.1 U	4.6 U	4.5 U	4.7 U	4.7 U
Endrin	UG/KG	0	0%	14	0	0	119	4.1 U	4.6 U	4.5 U	4.7 U	4.7 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.1 U	4.6 U	4.5 U	4.7 U	4.7 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.1 U	4.6 U	4.5 U	4.7 U	4.7 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.1 U	2.4 U	2.3 U	2.4 U	2.4 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.1 U	2.4 U	2.3 U	2.4 U	2.4 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	2.4 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.1 U	2.4 U	2.3 U	2.4 U	2.4 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	21 U	24 U	23 U	24 U	24 U
Toxaphene	UG/KG	0	0%	0	0	0	119	210 U	240 U	230 U	240 U	240 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					7.2 U
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					7.2 U
2,4-D	UG/KG	0	0%	0	0	0	18					7.2 U
2,4-DB	UG/KG	0	0%	0	0	0	18					180 U
Dalapon	UG/KG	0	0%	0	0	0	18					7.2 U
Dicamba	UG/KG	0	0%	0	0	0	18					7.2 U
Dichloroprop	UG/KG	0	0%	0	0	0	18					36 U
Dinoseb	UG/KG	0	0%	0	0	0	18					7200 U
MCPA	UG/KG	0	0%	0	0	0	18					7200 U
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	10600	13200	14200	14000	
Antimony	MG/KG	6.5	49%	0	0	58	119	0.4 U	0.58 J	0.53 U	11.1 UJ	
Arsenic	MG/KG	17.8	92%	13	1	110	119	3.5	4	5	3.9 UR	
Barium	MG/KG	237	100%	350	0	119	119	92.9	117	130	110	
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.67 J	0.81 J	1 J	0.68 J	
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.96 J	0.05 U	0.69 U	
Calcium	MG/KG	213000	100%	0	0	119	119	2790	3740	3170	4440	
Chromium	MG/KG	32.1	100%	30	2	119	119	13.6 J	17.2 J	18.2 J	17.8	
Cobalt	MG/KG	29.7	100%	0	0	119	119	6.5 J	7 J	9.4 J	5.9 J	

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-47 SOIL 574061	SS57-48 SOIL 574062	SS57-49 SOIL 574063	SS57-5 SOIL 574063	SS57-5-1 574063
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	16.2	19.2	18.1	19.8	19.8
Cyanide	MG/KG	0	0%	27	0	0	119	0.59 U	0.69 U	0.69 U	0.78 U	0.78 U
Iron	MG/KG	39800	100%	0	0	119	119	16900	19800	24100	18900	18900
Lead	MG/KG	1860	100%	63	2	119	119	9.8 J	23.3 J	17.7 J	26.3	26.3
Magnesium	MG/KG	27600	100%	0	0	119	119	2450	3200	2930	3220	3220
Manganese	MG/KG	2580	100%	1600	5	119	119	352	298	710	297	297
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 U	0.07 J	0.07 U	0.08 J	0.08 J
Nickel	MG/KG	54.1	100%	30	37	119	119	16.1	19.2	19.2	17.9	17.9
Potassium	MG/KG	3250	100%	0	0	119	119	887 J	1300	1210	1660	1660
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.47 U	0.72 J	0.58 U	0.41 J	0.41 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.27 J	0.47 J	0.49 J	1.4 UJ	1.4 UJ
Sodium	MG/KG	270	34%	0	0	41	119	116 J	99.9 J	86.8 J	68.6 J	68.6 J
Thallium	MG/KG	6.7	82%	0	0	98	119	1.7 J	1.9 J	3.7	0.34 U	0.34 U
Vanadium	MG/KG	104	99%	0	0	118	119	19.6	23.3	26.3	24.5	24.5
Zinc	MG/KG	1250	93%	109	11	111	119	42.8	66.8	63.9	81.5 UR	81.5 UR
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	0.17	1.1	0.54		
Percent Solids	% WW	94	100%	0	0	101	101	80.4	72.2	72.7		
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50	SS57-51	SS57-52	SS57-53	SS57-6
								SOIL	SOIL	SOIL	SOIL	SOIL
							574064	574065	574066	574067	574068	574069
							0	0	0	0	0	0
							0.2	0.2	0.2	0.2	0.2	0.2
							12/21/99	12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
							SA	SA	SA	SA	SA	SA
							P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
							Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	14 U	16 U	14 U	15 U	13 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	14 U	16 U	14 U	15 U	13 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	14 U	16 U	14 U	15 U	13 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	14 U	16 U	14 U	15 U	13 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	14 U	16 U	14 U	15 U	13 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Acetone	UG/KG	700	74%	50	87	94	127	200 J	190 J	230 J	220 J	13 U
Benzene	UG/KG	1	2%	60	0	2	127	14 U	16 U	14 U	15 U	13 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Bromoform	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	16 U	14 U	15 U	13 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	14 U	16 U	14 U	15 U	13 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	14 U	16 U	14 U	15 U	13 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Chloroethane	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	16 U	14 U	15 U	13 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	14 U	16 U	14 U	15 U	13 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	16	18	22	18	13 U
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	16 U	14 U	15 U	13 U
Styrene	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	14 U	16 U	14 U	15 U	1 J
Toluene	UG/KG	33	65%	700	0	82	127	13 J	7 J	23	29	13 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	16 U	14 U	15 U	13 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	16 U	14 U	15 U	13 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	14 U	16 U	14 U	15 U	13 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50	SS57-51	SS57-52	SS57-53	SS57-6
								SOIL	SOIL	SOIL	SOIL	SOIL
								574064	574065	574066	574067	574068
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	14 U	16 U	14 U	15 U	13 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	94 U	100 U	96 U	100 U	420 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	94 U	100 U	96 U	100 U	420 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	94 U	100 U	96 U	100 U	420 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18					420 U
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	230 U	250 U	230 U	240 U	1000 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	230 U	250 UR	230 UR	240 UR	1000 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	94 U	100 U	96 U	100 U	420 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	94 U	100 U	96 U	100 U	420 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	230 U	250 U	230 U	240 U	1000 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	230 U	250 U	230 U	240 U	1000 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	230 U	250 UJ	230 UJ	240 UJ	1000 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	94 U	100 U	96 U	100 U	420 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	230 U	250 UJ	230 UJ	240 UJ	1000 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	230 U	250 UR	230 UR	240 UR	1000 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	94 U	100 U	96 U	100 U	420 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	94 U	100 U	96 U	100 U	420 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	94 U	100 U	96 U	100 U	420 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50 SOIL 574064	SS57-51 SOIL 574065	SS57-52 SOIL 574066	SS57-53 SOIL 574067	SS57-6 SOIL 574067
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	94 U	100 U	96 U	5 J	420 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	4.8 J	100 U	6.9 J	8 J	420 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	4.6 J	100 U	6.6 J	8.4 J	420 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	94 U	100 U	96 U	100 U	420 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	5.7 J	100 U	8.5 J	7.2 J	420 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101	94 U	100 U	96 U	100 U	420 U
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	94 UJ	100 UJ	96 UJ	100 UJ	420 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	94 UJ	100 UJ	96 UJ	100 UJ	420 U
Carbazole	UG/KG	0	0%	0	0	0	119	94 UJ	100 U	96 U	100 U	420 U
Chrysene	UG/KG	110	33%	1000	0	39	119	5.3 J	100 U	8.3 J	9.2 J	420 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	94 U	100 U	96 U	100 U	420 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	94 U	100 U	96 U	2.6 J	420 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	94 U	100 U	96 U	100 U	420 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	94 U	100 U	96 U	100 U	420 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	94 UJ	100 UJ	96 UJ	100 UJ	420 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	9.2 J	9.2 J	12 J	14 J	29 J
Fluorene	UG/KG	120	2%	30000	0	2	119	94 U	100 U	96 U	100 U	420 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	94 U	100 U	96 U	100 U	420 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	94 UJ	100 UJ	96 UJ	100 UJ	420 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	94 U	100 U	96 U	100 U	420 U
Isophorone	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	94 U	100 U	96 U	100 U	420 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	94 U	100 UJ	96 UJ	100 UJ	420 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	94 U	100 U	96 U	100 U	420 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	94 U	100 U	96 U	100 U	420 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	230 U	250 UJ	230 UJ	240 UJ	1000 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	4.7 J	5.5 J	7.2 J	7.8 J	420 U
Phenol	UG/KG	51	13%	330	0	16	119	94 U	100 U	96 U	100 U	420 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50 SOIL 574064	SS57-51 SOIL 574065	SS57-52 SOIL 574066	SS57-53 SOIL 574067	SS57-6 SOIL 574067
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	6.6 J	7.6 J	10 J	10 J	23 J
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
HMX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101	120 U	120 U	120 U	120 U	
RDX	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
Tetryl	UG/KG	0	0%	0	0	0	119	120 U	120 U	120 U	120 U	130 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.7 U	5.1 U	4.8 U	5 U	2.5 J
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	47 U	51 U	48 U	50 U	43 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	96 U	100 U	97 U	100 U	87 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	47 U	51 U	48 U	50 U	43 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	47 U	51 U	48 U	50 U	43 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	47 U	51 U	48 U	50 U	43 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	47 U	51 U	48 U	50 U	43 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	47 U	51 U	48 U	50 U	43 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50	SS57-51	SS57-52	SS57-53	SS57-6-1
								SOIL	SOIL	SOIL	SOIL	SOIL
								574064	574065	574066	574067	574068
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Endrin	UG/KG	0	0%	14	0	0	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.7 U	5.1 U	4.8 U	5 U	4.3 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.4 U	2.6 U	2.5 U	2.6 U	2.2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	24 U	26 U	25 U	26 U	22 U
Toxaphene	UG/KG	0	0%	0	0	0	119	240 U	260 U	250 U	260 U	220 U
Herbicides												
2,4,5-T	UG/KG	0	0%	0	0	0	18					6.5 U
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18					6.5 U
2,4-D	UG/KG	0	0%	0	0	0	18					6.5 U
2,4-DB	UG/KG	0	0%	0	0	0	18					160 U
Dalapon	UG/KG	0	0%	0	0	0	18					6.5 U
Dicamba	UG/KG	0	0%	0	0	0	18					6.5 U
Dichloroprop	UG/KG	0	0%	0	0	0	18					33 U
Dinoseb	UG/KG	0	0%	0	0	0	18					6500 U
MCPA	UG/KG	0	0%	0	0	0	18					6500 U
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	14100	14200	12600	12600	13500
Antimony	MG/KG	6.5	49%	0	0	58	119	0.44 U	0.57 U	0.63 J	0.47 U	12.1 UJ
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.8	6.6 J	4.5 J	4.2 J	122 UR
Barium	MG/KG	237	100%	350	0	119	119	119	164	115	110	83.7
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.92 J	1.4	0.84 J	0.87 J	0.64 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.04 U	0.05 U	0.49 J	2.2	0.76 U
Calcium	MG/KG	213000	100%	0	0	119	119	3420	5030	3800	4370	2790
Chromium	MG/KG	32.1	100%	30	2	119	119	17.9 J	21.9 J	17.9 J	18.7 J	18.9
Cobalt	MG/KG	29.7	100%	0	0	119	119	7.7 J	19.2	8.3 J	8.8 J	9.3 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-50 SOIL 574064	SS57-51 SOIL 574065	SS57-52 SOIL 574066	SS57-53 SOIL 574067	SS57-6 SOIL 574068
								0.2	0.2	0.2	0.2	0.2
								12/21/99	12/21/99	12/21/99	12/21/99	10/26/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	18.6	27.8	22.5	24.9	17.4
Cyanide	MG/KG	0	0%	27	0	0	119	0.64 U	0.77 U	0.7 U	0.74 U	0.78 U
Iron	MG/KG	39800	100%	0	0	119	119	22700	30800	20000	22000	21700
Lead	MG/KG	1860	100%	63	2	119	119	19.2 J	24.8 J	21.5 J	33 J	30.2
Magnesium	MG/KG	27600	100%	0	0	119	119	3290	3650	2960	3760	3230
Manganese	MG/KG	2580	100%	1600	5	119	119	404	1670	392	487	464
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 U	0.07 U	0.07 U	0.07 J	0.07 J
Nickel	MG/KG	54.1	100%	30	37	119	119	18.7	26.3	21.9	27.2	19.8
Potassium	MG/KG	3250	100%	0	0	119	119	1220	1530	1460	1430	1650
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.58 U	0.64 U	0.71 J	0.69 J	0.31 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.42 J	0.81 J	0.76 J	0.69 J	1.5 UJ
Sodium	MG/KG	270	34%	0	0	41	119	105 J	143 J	87.1 J	100 J	46.3 J
Thallium	MG/KG	6.7	82%	0	0	98	119	2.5	6.7	2.5 J	3.3	0.17 U
Vanadium	MG/KG	104	99%	0	0	118	119	25.4	28.8	23.2	23.1	26.2
Zinc	MG/KG	1250	93%	109	11	111	119	62	96	83.5	91.4	64 UR
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101	1.9	1	0.62	0.42	
Percent Solids	% WW	94	100%	0	0	101	101	70	65.2	68.9	65.9	
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57 SS57-6 SOIL SS57-6-2	SEAD-57 SS57-7 SOIL SS57-7-1	SEAD-57 SS57-7 SOIL SS57-7-2	SEAD-57 SS57-8 SOIL SS57-8-1	SEAD-57 SS57-8 SOIL SS57-8-2
								0 0.2 12/08/93 SA P1S1 RI	0 0.2 10/26/93 SA P1S1 RI	0 0.2 12/08/93 SA P1S1 RI	0 0.2 10/26/93 SA P1S1 RI	0 0.2 12/08/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	14 U	11 U	11 U	11 U	12 U
1,1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	14 U	11 U	11 U	11 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	14 U	11 U	11 U	11 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	14 U	11 U	11 U	11 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	14 U	11 U	11 U	11 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Acetone	UG/KG	700	74%	50	87	94	127	14 U	11 U	11 U	11 U	12 U
Benzene	UG/KG	1	2%	60	0	2	127	14 U	11 U	11 U	11 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	14 U	11 U	11 U	11 U	12 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	14 U	11 U	11 U	11 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	14 U	11 U	11 U	11 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Chloroethane	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	14 U	11 U	11 U	11 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	14 U	11 U	11 U	11 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	14 U	11 U	11 U	11 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	14 U	11 U	11 U	11 U	12 U
Styrene	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	6	7	127	14 U	11 U	11 U	6 J	12 U
Toluene	UG/KG	33	65%	700	0	82	127	14 U	11 U	11 U	11 U	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	14 U	11 U	11 U	11 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	14 U	11 U	11 U	11 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	14 U	11 U	11 U	11 U	12 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-6	SS57-7	SS57-7	SS57-8	SS57-8
								SOIL	SOIL	SOIL	SOIL	SOIL
								SS57-6-2	SS57-7-1	SS57-7-2	SS57-8-1	SS57-8-2
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	10/26/93	12/08/93	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	14 U	11 U	11 U	11 U	12 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119		360 U			360 UR
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119		360 U			360 UR
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119		360 U			360 UR
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119		360 U			360 UR
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18		360 U			360 UR
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119		880 U			860 UR
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119		360 U			360 UR
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119		360 U			360 UR
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119		360 U			360 UR
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119		880 U			860 UR
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		360 U			360 UR
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		360 U			360 UR
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119		360 U			360 UR
2-Chlorophenol	UG/KG	0	0%	0	0	0	119		360 U			360 UR
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119		360 U			360 UR
2-Methylphenol	UG/KG	0	0%	330	0	0	119		360 U			360 UR
2-Nitroaniline	UG/KG	0	0%	0	0	0	119		880 U			860 UR
2-Nitrophenol	UG/KG	0	0%	0	0	0	119		360 U			360 UR
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119		360 U			360 UR
3-Nitroaniline	UG/KG	0	0%	0	0	0	119		880 U			860 UR
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119		880 U			860 UR
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119		360 U			360 UR
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119		360 U			360 UR
4-Chloroaniline	UG/KG	0	0%	0	0	0	119		360 U			360 UR
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119		360 U			360 UR
4-Methylphenol	UG/KG	13	3%	330	0	3	119		360 U			360 UR
4-Nitroaniline	UG/KG	0	0%	0	0	0	119		880 U			860 UR
4-Nitrophenol	UG/KG	0	0%	0	0	0	119		880 U			860 UR
Acenaphthene	UG/KG	0	0%	20000	0	0	119		360 U			360 UR
Acenaphthylene	UG/KG	0	0%	100000	0	0	119		360 U			360 UR
Anthracene	UG/KG	8.2	3%	100000	0	3	119		360 U			360 UR

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-6 SOIL	SS57-7 SOIL	SS57-7-2 SOIL	SS57-8-1 SOIL	SS57-8-2 SOIL
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	10/26/93	12/08/93	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	360 U				360 UR
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	360 U				360 UR
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	360 U				360 UR
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	360 U				360 UR
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	360 U				360 UR
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101					
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	360 U				360 UR
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Carbazole	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Chrysene	UG/KG	110	33%	1000	0	39	119	360 U				360 UR
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	18 J				360 UR
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	360 U				360 UR
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	360 U				360 UR
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	360 U				360 UR
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	360 U				360 UR
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Fluoranthene	UG/KG	150	50%	100000	0	60	119	26 J				360 UR
Fluorene	UG/KG	120	2%	30000	0	2	119	360 U				360 UR
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	360 U				360 UR
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Hexachloroethane	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	360 U				360 UR
Isophorone	UG/KG	0	0%	0	0	0	119	360 U				360 UR
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	360 U				360 UR
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Naphthalene	UG/KG	180	1%	12000	0	1	119	360 U				360 UR
Nitrobenzene	UG/KG	0	0%	0	0	0	119	360 U				360 UR
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	880 U				860 UR
Phenanthrene	UG/KG	230	37%	100000	0	44	119	20 J				360 UR
Phenol	UG/KG	51	13%	330	0	16	119	360 U				360 UR

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-6 SOIL SS57-6-2 0 0.2 12/08/93 SA P1S1 RI	SS57-7 SOIL SS57-7-1 0 0.2 10/26/93 SA P1S1 RI	SS57-7 SOIL SS57-7-2 0 0.2 12/08/93 SA P1S1 RI	SS57-8 SOIL SS57-8-1 0 0.2 10/26/93 SA P1S1 RI	SS57-8 SOIL SS57-8-2 0 0.2 12/08/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119		20 J			360 UR
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119		130 U			130 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119		130 U			130 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119		130 U			130 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		130 U			130 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		130 U			130 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		130 U			130 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119		130 U			130 U
HMX	UG/KG	0	0%	0	0	0	119		130 U			130 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101					
RDX	UG/KG	0	0%	0	0	0	119		130 U			130 U
Tetryl	UG/KG	0	0%	0	0	0	119		130 U			130 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119		3.6 U			3.6 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119		4.7 J			3.2
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119		3.6 U			4.9
Aldrin	UG/KG	0	0%	5	0	0	119		1.9 U			1.8 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119		1.9 U			1.8 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119		16 J			1.8 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119		36 U			36 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119		73 U			73 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119		36 U			36 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119		36 U			36 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119		36 U			36 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119		36 U			36 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119		36 U			36 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119		1.9 U			1.8 U
Delta-BHC	UG/KG	0	0%	40	0	0	119		1.9 U			1.8 U
Dieldrin	UG/KG	27	6%	5	5	7	119		27 J			3.6 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-6	SS57-7	SS57-7	SS57-8	SS57-8
								SOIL	SOIL	SOIL	SOIL	SOIL
								SS57-6-2	SS57-7-1	SS57-7-2	SS57-8-1	SS57-8-2
								0	0	0	0	0
								0.2	0.2	0.2	0.2	0.2
								12/08/93	10/26/93	12/08/93	10/26/93	12/08/93
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119		1.9 U		1.8 U	
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119		3.6 U		3.6 U	
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119		3.6 U		3.6 U	
Endrin	UG/KG	0	0%	14	0	0	119		3.6 U		3.6 U	
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119		3.6 U		3.6 U	
Endrin ketone	UG/KG	4	1%	0	0	1	119		3.6 U		3.6 U	
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119		1.9 U		1.8 U	
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119		1.9 U		1.8 U	
Heptachlor	UG/KG	1.6	1%	42	0	1	119		1.9 U		1.8 U	
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119		2 J		1.8 U	
Methoxychlor	UG/KG	0	0%	0	0	0	119		19 U		18 U	
Toxaphene	UG/KG	0	0%	0	0	0	119		190 U		180 U	
Herbicides									5.5 U		5.4 U	
2,4,5-T	UG/KG	0	0%	0	0	0	18		5.5 U		5.4 U	
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18		55 U		54 U	
2,4-D	UG/KG	0	0%	0	0	0	18		55 U		54 U	
2,4-DB	UG/KG	0	0%	0	0	0	18		140 U		130 U	
Dalapon	UG/KG	0	0%	0	0	0	18		5.5 U		5.4 U	
Dicamba	UG/KG	0	0%	0	0	0	18		55 U		54 U	
Dichloroprop	UG/KG	0	0%	0	0	0	18		28 U		27 U	
Dinoseb	UG/KG	0	0%	0	0	0	18		5500 U		5400 U	
MCPA	UG/KG	0	0%	0	0	0	18		5500 U		5400 U	
MCPP	UG/KG	0	0%	0	0	0	18					
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119		12600		3940	
Antimony	MG/KG	6.5	49%	0	0	58	119		10.1 UJ		10.1 UJ	
Arsenic	MG/KG	17.8	92%	13	1	110	119		4.2 UR		4 UR	
Barium	MG/KG	237	100%	350	0	119	119		64.2		25.5 J	
Beryllium	MG/KG	1.8	100%	7.2	0	119	119		0.61 J		0.33 J	
Cadmium	MG/KG	28.6	22%	2.5	6	26	119		0.63 U		0.63 U	
Calcium	MG/KG	213000	100%	0	0	119	119		24300		213000	
Chromium	MG/KG	32.1	100%	30	2	119	119		24.3		7.4	
Cobalt	MG/KG	29.7	100%	0	0	119	119		13.2		7.8 J	

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-9 SOIL SS57-9-1 0 0.2 10/26/93 SA P1S1 RI	SS57-9 SOIL SS57-9-2 0 0.2 12/08/93 SA P1S1 RI	TP57-1 SOIL TP57-1 3 3 11/08/93 SA P1S1 RI	TP57-10 SOIL TP57-10 3 3 34305 SA P1S1 RI	TP57-11 SOIL TP57-11 3 3 34281 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	11 U	11 U	13 U	12 U	11 U
1,1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	11 U	11 U	13 U	12 U	11 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	11 U	11 U	13 U	12 U	11 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	11 U	11 U	13 U	12 U	11 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	11 U	11 U	13 U	12 U	11 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Acetone	UG/KG	700	74%	50	87	94	127	11 U	11 U	13 U	4 J	11 U
Benzene	UG/KG	1	2%	60	0	2	127	11 U	11 U	13 U	12 U	11 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Bromoform	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	11 U	11 U	13 U	12 U	11 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	11 U	11 U	13 U	12 U	11 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	11 U	11 U	13 U	12 U	11 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Chloroethane	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Chloroform	UG/KG	7	1%	370	0	1	127	11 U	11 U	13 U	12 U	11 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	11 U	11 U	13 U	12 U	11 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	11 U	11 U	13 U	12 U	11 U
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	11 U	13 U	12 U	11 U
Styrene	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	1 J	11 U	13 U	12 U	11 U
Toluene	UG/KG	33	65%	700	0	82	127	11 U	11 U	13 U	12 U	11 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	11 U	11 U	13 U	12 U	11 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	11 U	11 U	13 U	12 U	11 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	11 U	11 U	13 U	12 U	11 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-9 SOIL SS57-9-1	SS57-9 SOIL SS57-9-2	TP57-1 SOIL TP57-1	TP57-10 SOIL TP57-10	TP57-11 SOIL TP57-11
								0	0	3	3	3
								0.2	0.2	3	3	3
								10/26/93	12/08/93	11/08/93	34305	34281
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	11 U	11 U	13 U	12 U	11 U
Semivolatile Organic Compounds												
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	350 U		360 U	390 U	410 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	350 U		360 U	390 U	410 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	350 U		360 U	390 U	410 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18	350 U		360 U	390 U	410 U
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	860 U		880 U	940 U	990 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	860 U		880 U	940 U	990 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	350 U		360 U	390 U	410 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	350 U		360 U	390 U	410 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	860 U		880 U	940 U	990 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	860 U		880 U	940 U	990 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	860 U		880 U	940 U	990 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	350 U		360 U	390 U	410 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	350 U		360 U	390 U	410 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	860 U		880 U	940 U	990 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	860 U		880 U	940 U	990 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	350 U		360 U	390 U	410 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	350 U		360 U	390 U	410 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	350 U		360 U	390 U	410 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-9 SOIL SS57-9-1	SS57-9 SOIL SS57-9-2	TP57-1 SOIL TP57-1	TP57-10 SOIL TP57-10	TP57-11 SOIL TP57-11
								0	0	3	3	3
								0.2	0.2	3	3	3
								10/26/93	12/08/93	11/08/93	34305	34281
								SA	SA	SA	SA	SA
								P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI	P1S1 RI
Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	24 J	360 U	390 U	410 U	410 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	20 J	360 U	390 U	410 U	410 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	25 J	360 U	390 U	410 U	410 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	350 U	360 U	390 U	410 U	410 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	20 J	360 U	390 U	410 U	410 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101					
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	350 U	360 U	390 U	410 U	410 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Carbazole	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Chrysene	UG/KG	110	33%	1000	0	39	119	42 J	360 U	390 U	410 U	410 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	35 J	360 U	390 U	410 U	410 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	350 U	360 U	390 U	410 U	410 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	350 U	360 U	390 U	410 U	410 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	350 U	360 U	390 U	410 U	410 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	350 U	360 U	390 U	410 U	410 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	56 J	360 U	390 U	410 U	410 U
Fluorene	UG/KG	120	2%	30000	0	2	119	350 U	360 U	390 U	410 U	410 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	350 U	360 U	390 U	410 U	410 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	350 U	360 U	390 U	410 U	410 U
Isophorone	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	350 U	360 U	390 U	410 U	410 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	350 U	360 U	390 U	410 U	410 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	350 U	360 U	390 U	410 U	410 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	860 U	880 U	940 U	990 U	990 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	36 J	360 U	390 U	410 U	410 U
Phenol	UG/KG	51	13%	330	0	16	119	350 U	360 U	390 U	410 U	410 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-9 SOIL SS57-9-1 0 0.2 10/26/93 SA P1S1 RI	SS57-9 SOIL SS57-9-2 0 0.2 12/08/93 SA P1S1 RI	TP57-1 SOIL TP57-1 3 3 11/08/93 SA P1S1 RI	TP57-10 SOIL TP57-10 3 3 34305 SA P1S1 RI	TP57-11 SOIL TP57-11 3 3 34281 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	49 J		360 U	390 U	410 U
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
HMX	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101					
RDX	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
Tetryl	UG/KG	0	0%	0	0	0	119	130 U		130 U	130 U	130 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.5 UJ		3.5 J	3.9 U	4.1 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.5 J		9.1	3.9 U	4.1 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.5 UJ		9.6	3.9 U	4.1 U
Aldrin	UG/KG	0	0%	5	0	0	119	1.8 UJ		1.9 U	2 U	2.1 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	1.8 UJ		1.9 U	2 U	2.1 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	1.8 UJ		1.9 U	2 U	2.1 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	35 UJ		36 U	39 U	41 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	72 UJ		74 U	80 U	83 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	35 UJ		36 U	39 U	41 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	35 UJ		36 U	39 U	41 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	35 UJ		36 U	39 U	41 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	35 UJ		36 U	39 U	41 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	35 UJ		36 U	39 U	41 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	1.8 UJ		1.9 U	2 U	2.1 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	1.8 UJ		1.9 U	2 U	2.1 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.5 UJ		3.6 U	3.9 U	4.1 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-9 SOIL SS57-9-1 0 0.2 10/26/93 SA P1S1 RI	SS57-9 SOIL SS57-9-2 0 0.2 12/08/93 SA P1S1 RI	TP57-1 SOIL TP57-1 3 3 11/08/93 SA P1S1 RI	TP57-10 SOIL TP57-10 3 3 34305 SA P1S1 RI	TP57-11 SOIL TP57-11 3 3 34281 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	1.8 UJ	1.9 U	2 U	2.1 U	2.1 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.5 UJ	3.6 U	3.9 U	4.1 U	4.1 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	3.5 UJ	3.6 U	3.9 U	4.1 U	4.1 U
Endrin	UG/KG	0	0%	14	0	0	119	3.5 UJ	3.6 U	3.9 U	4.1 U	4.1 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.5 UJ	3.6 U	3.9 U	4.1 U	4.1 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.5 UJ	3.6 U	3.9 U	4.1 U	4.1 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	1.8 UJ	1.9 U	2 U	2.1 U	2.1 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	1.8 UJ	1.9 U	2 U	2.1 U	2.1 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	1.8 UJ	1.9 U	2 U	2.1 U	2.1 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	1.8 UJ	1.9 U	2 U	2.1 U	2.1 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	18 UJ	19 U	20 U	21 U	21 U
Toxaphene	UG/KG	0	0%	0	0	0	119	180 UJ	190 U	200 U	210 U	210 U
Herbicides								5.4 U	5.5 U	6 UJ	6.2 U	6.2 U
2,4,5-T	UG/KG	0	0%	0	0	0	18	5.4 U	5.5 U	6 UJ	6.2 U	6.2 U
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18	54 U	55 U	60 UJ	62 U	62 U
2,4-D	UG/KG	0	0%	0	0	0	18	54 U	55 U	60 UJ	62 U	62 U
2,4-DB	UG/KG	0	0%	0	0	0	18	130 U	140 U	60 UJ	62 U	62 U
Dalapon	UG/KG	0	0%	0	0	0	18	5.4 U	5.5 U	150 UJ	150 U	150 U
Dicamba	UG/KG	0	0%	0	0	0	18	54 U	55 U	6 UJ	6.2 U	6.2 U
Dichloroprop	UG/KG	0	0%	0	0	0	18	27 UJ	28 U	60 UJ	62 U	62 U
Dinoseb	UG/KG	0	0%	0	0	0	18	5400 U	5500 U	30 UJ	31 U	31 U
MCPA	UG/KG	0	0%	0	0	0	18	5400 U	5500 U	6000 UJ	6200 U	6200 U
MCPP	UG/KG	0	0%	0	0	0	18			6000 UJ	6200 U	6200 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	10300	10700	12600	14600	14600
Antimony	MG/KG	6.5	49%	0	0	58	119	10.7 UJ	6.4 UJ	3.6 U	11.3 UJ	11.3 UJ
Arsenic	MG/KG	17.8	92%	13	1	110	119	5.6 R	4.9	6.8	5.9	5.9
Barium	MG/KG	237	100%	350	0	119	119	56.5	58.7	97.5	120	120
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.59 J	0.56 J	0.55 J	0.81 J	0.81 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.67 U	0.4 U	0.35 UR	0.71 U	0.71 U
Calcium	MG/KG	213000	100%	0	0	119	119	104000	16600	33000	22300	22300
Chromium	MG/KG	32.1	100%	30	2	119	119	20.7	20.5	17.1	20.1	20.1
Cobalt	MG/KG	29.7	100%	0	0	119	119	10.6	12.1	8.7	8.8 J	8.8 J

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								SS57-9 SOIL SS57-9-1 0 0.2 10/26/93 SA P1S1 RI	SS57-9 SOIL SS57-9-2 0 0.2 12/08/93 SA P1S1 RI	TP57-1 SOIL TP57-1 3 3 11/08/93 SA P1S1 RI	TP57-10 SOIL TP57-10 3 3 34305 SA P1S1 RI	TP57-11 SOIL TP57-11 3 3 34281 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	47	34.3	22.4 J	21.7	21.7
Cyanide	MG/KG	0	0%	27	0	0	119	0.61 U	0.52 U	0.71 U	0.54 U	0.54 U
Iron	MG/KG	39800	100%	0	0	119	119	23000	24700	20500	24900	24900
Lead	MG/KG	1860	100%	63	2	119	119	42.4	28.2	10.9	11.3	11.3
Magnesium	MG/KG	27600	100%	0	0	119	119	9650	5050	6400	5360	5360
Manganese	MG/KG	2580	100%	1600	5	119	119	356	392	387 J	329	329
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.04 J	0.03 J	0.03 J	0.04 J	0.04 J
Nickel	MG/KG	54.1	100%	30	37	119	119	38.7	45	24.5	25.7	25.7
Potassium	MG/KG	3250	100%	0	0	119	119	1570	898	1680	1430	1430
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.37 J	0.48 J	0.61 J	0.46 J	0.46 J
Silver	MG/KG	1.7	38%	2	0	45	119	1.4 UJ	0.81 UJ	0.69 U	1.4 UJ	1.4 UJ
Sodium	MG/KG	270	34%	0	0	41	119	188 J	56.9 J	93.6 J	93 J	93 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.23 U	0.3 J	0.21 UJ	0.17 U	0.17 U
Vanadium	MG/KG	104	99%	0	0	118	119	18.8	26.9	22.9	27.8	27.8
Zinc	MG/KG	1250	93%	109	11	111	119	266 UR	81.1	54.1 J	57.9	57.9
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101					
Percent Solids	% WW	94	100%	0	0	101	101					
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								TP57-2 SOIL TP57-2 3 3 12/02/93 SA P1S1 RI	TP57-3 SOIL TP57-3 3 3 11/09/93 SA P1S1 RI	TP57-4 SOIL TP57-4 3 3 11/09/93 SA P1S1 RI	TP57-6 SOIL TP57-6 3 3 12/02/93 SA P1S1 RI	TP57-7 SOIL TP57-7 3 3 12/02/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Volatile Organic Compounds												
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	12 U	12 U	11 U	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	12 U	12 U	11 U	12 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	12 U	12 U	11 U	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	12 U	12 U	11 U	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	12 U	12 U	11 U	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Acetone	UG/KG	700	74%	50	87	94	127	20	12 U	11 U	23	6 J
Benzene	UG/KG	1	2%	60	0	2	127	12 U	12 U	11 U	12 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	12 U	11 U	12 U	12 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	12 U	12 U	11 U	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	12 U	12 U	11 U	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Chloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	12 U	11 U	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	12 U	12 U	11 U	12 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	12 U	12 U	11 U	12 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	12 U	11 U	12 U	12 U
Styrene	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	12 U	11 U	12 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	12 U	12 U	11 U	12 U	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	12 U	11 U	12 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U	11 U	12 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	12 U	12 U	11 U	12 U	12 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								TP57-2 SOIL TP57-2 3 3 12/02/93 SA P1S1 RI	TP57-3 SOIL TP57-3 3 3 11/09/93 SA P1S1 RI	TP57-4 SOIL TP57-4 3 3 11/09/93 SA P1S1 RI	TP57-6 SOIL TP57-6 3 3 12/02/93 SA P1S1 RI	TP57-7 SOIL TP57-7 3 3 12/02/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	12 U	12 U	11 U	12 U	12 U
Semivolatile Organic Compounds		0	#DIV/0!	0	0	0	0					
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	2000 U	370 U	370 U	430 U	390 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	2000 U	370 U	370 U	430 U	390 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	2000 U	370 U	370 U	430 U	390 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18	2000 U	370 U	370 U	430 U	390 U
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	4900 U	900 U	900 U	1000 U	950 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	4900 U	900 U	900 U	1000 U	950 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	750 J	370 U	370 U	430 U	390 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	2000 U	370 U	370 U	430 U	390 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	4900 U	900 U	900 U	1000 U	950 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	4900 U	900 U	900 U	1000 U	950 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	4900 U	900 U	900 U	1000 U	950 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	2000 U	370 U	370 U	430 U	390 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	4900 U	900 U	900 U	1000 U	950 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	4900 U	900 U	900 U	1000 U	950 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	2000 U	370 U	370 U	430 U	390 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	2000 U	370 U	370 U	430 U	390 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	2000 U	370 U	370 U	430 U	390 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								TP57-2 SOIL TP57-2 3 3 12/02/93 SA P1S1 RI	TP57-3 SOIL TP57-3 3 3 11/09/93 SA P1S1 RI	TP57-4 SOIL TP57-4 3 3 11/09/93 SA P1S1 RI	TP57-6 SOIL TP57-6 3 3 12/02/93 SA P1S1 RI	TP57-7 SOIL TP57-7 3 3 12/02/93 SA P1S1 RI
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	2000 U	370 U	370 U	430 U	390 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	2000 U	370 U	370 U	430 U	390 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	2000 U	370 U	370 U	430 U	390 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	2000 U	370 U	370 U	430 U	390 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	2000 U	370 U	370 U	430 U	390 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101					
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	2000 U	370 U	370 U	430 U	390 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Carbazole	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Chrysene	UG/KG	110	33%	1000	0	39	119	2000 U	370 U	25 J	430 U	390 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	390 J	370 U	370 U	430 U	390 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	2000 U	370 U	370 U	430 U	390 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	2000 U	370 U	370 U	430 U	390 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	2000 U	370 U	370 U	430 U	390 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	2000 U	370 U	370 U	430 U	390 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	2000 U	370 U	34 J	430 U	390 U
Fluorene	UG/KG	120	2%	30000	0	2	119	120 J	370 U	370 U	430 U	390 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	2000 U	370 U	370 U	430 U	390 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	2000 U	370 U	370 U	430 U	390 U
Isophorone	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	2000 U	370 U	370 U	430 U	390 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	180 J	370 U	370 U	430 U	390 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	2000 U	370 U	370 U	430 U	390 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	4900 U	900 U	900 U	1000 U	950 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	230 J	370 U	20 J	430 U	390 U
Phenol	UG/KG	51	13%	330	0	16	119	2000 U	370 U	370 U	430 U	390 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								TP57-2 SOIL TP57-2 3 12/02/93 SA P1S1 RI	TP57-3 SOIL TP57-3 3 11/09/93 SA P1S1 RI	TP57-4 SOIL TP57-4 3 11/09/93 SA P1S1 RI	TP57-6 SOIL TP57-6 3 12/02/93 SA P1S1 RI	TP57-7 SOIL TP57-7 3 12/02/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Pyrene	UG/KG	230	52%	100000	3	62	119	2000 U	370 U	33 J	430 U	390 U
Nitroaromatic and Nitroamine Compounds, Explosives												
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101					
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
HMX	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101					
RDX	UG/KG	0	0%	0	0	0	119	130 U	130 U	130 U	130 U	130 U
Tetryl	UG/KG	0	0%	0	0	0	119	140 U	130 U	130 U	130 U	130 U
Pesticides and PCBs												
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	4.1 U	5.5	8.9	4.3 U	4 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	4.1 U	12	20	4.3 U	4 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	4.1 U	12	23	4.3 U	4 U
Aldrin	UG/KG	0	0%	5	0	0	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	41 U	37 U	37 U	43 U	40 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	82 U	76 U	76 U	88 U	80 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	41 U	37 U	37 U	43 U	40 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	41 U	37 U	37 U	43 U	40 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	41 U	37 U	37 U	43 U	40 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	41 U	37 U	37 U	43 U	40 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	41 U	37 U	37 U	43 U	40 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								TP57-2 SOIL TP57-2 3 3 12/02/93 SA P1S1 RI	TP57-3 SOIL TP57-3 3 3 11/09/93 SA P1S1 RI	TP57-4 SOIL TP57-4 3 3 11/09/93 SA P1S1 RI	TP57-6 SOIL TP57-6 3 3 12/02/93 SA P1S1 RI	TP57-7 SOIL TP57-7 3 3 12/02/93 SA P1S1 RI
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Endrin	UG/KG	0	0%	14	0	0	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	4.1 U	3.7 U	3.7 U	4.3 U	4 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2.1 U	1.9 U	1.9 U	2.2 U	2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	21 U	19 U	19 U	22 U	20 U
Toxaphene	UG/KG	0	0%	0	0	0	119	210 U	190 U	190 U	220 U	200 U
Herbicides			#DIV/0!									
2,4,5-T	UG/KG	0	0%	0	0	0	18	6.2 U	5.6 UR	5.7 UR	6.6 U	6 U
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18	6.2 U	5.6 UR	5.7 UR	6.6 U	6 U
2,4-D	UG/KG	0	0%	0	0	0	18	62 U	56 UR	57 UR	66 U	60 U
2,4-DB	UG/KG	0	0%	0	0	0	18	62 U	56 UR	57 UR	66 U	60 U
Dalapon	UG/KG	0	0%	0	0	0	18	150 U	140 UR	140 UR	160 U	150 U
Dicamba	UG/KG	0	0%	0	0	0	18	6.2 U	5.6 UR	5.7 UR	6.6 U	6 U
Dichloroprop	UG/KG	0	0%	0	0	0	18	62 U	56 UR	57 UR	66 U	60 U
Dinoseb	UG/KG	0	0%	0	0	0	18	31 U	28 UR	29 UR	33 U	30 U
MCPA	UG/KG	0	0%	0	0	0	18	6200 U	5600 UR	5700 UR	6600 U	6000 U
MCPP	UG/KG	0	0%	0	0	0	18	6200 U	5600 UR	5700 UR	6600 U	6000 U
Metals and Cyanide												
Aluminum	MG/KG	22900	100%	0	0	119	119	17300	10800	16900	22900	18300
Antimony	MG/KG	6.5	49%	0	0	58	119	4.5 U	8.9 UJ	8.7 UJ	5.8 J	4.9 U
Arsenic	MG/KG	17.8	92%	13	1	110	119	9.5	4.8	4.2	7.5	8.5
Barium	MG/KG	237	100%	350	0	119	119	82.7	62.8	90.1	174	144
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.81 J	0.61 J	0.91	1 J	0.87 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.44 UR	0.55 U	0.54 U	0.53 UR	0.48 UR
Calcium	MG/KG	213000	100%	0	0	119	119	19200	15300	22400	15200	18700
Chromium	MG/KG	32.1	100%	30	2	119	119	29.9	20.2	28.9	30.8	24.2
Cobalt	MG/KG	29.7	100%	0	0	119	119	13.7	10.4	13.3	9.4 J	12.8

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57	SEAD-57	SEAD-57	SEAD-57
								TP57-2 SOIL TP57-2 3 3 12/02/93 SA P1S1 RI	TP57-3 SOIL TP57-3 3 3 11/09/93 SA P1S1 RI	TP57-4 SOIL TP57-4 3 3 11/09/93 SA P1S1 RI	TP57-6 SOIL TP57-6 3 3 12/02/93 SA P1S1 RI	TP57-7 SOIL TP57-7 3 3 12/02/93 SA P1S1 RI
								Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	2930 J	32.2	39.2	26.8 J	19.7 J
Cyanide	MG/KG	0	0%	27	0	0	119	0.68 U	0.48 U	0.49 U	0.74 U	0.67 U
Iron	MG/KG	39800	100%	0	0	119	119	35700	24300	30500	30200	29300
Lead	MG/KG	1860	100%	63	2	119	119	1860	60.9	19.5	21.9	14.7
Magnesium	MG/KG	27600	100%	0	0	119	119	8930	4920	7890	6640	6060
Manganese	MG/KG	2580	100%	1600	5	119	119	463 J	350	472	247 J	818 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.06 J	0.05 J	0.05 J	0.04 J	0.05 J
Nickel	MG/KG	54.1	100%	30	37	119	119	51.6	38.1	54.1	37.3	31.8
Potassium	MG/KG	3250	100%	0	0	119	119	2080	935	2110	3250	2190
Selenium	MG/KG	2.7	63%	3.9	0	75	119	1.1 J	0.52 J	0.39 J	0.73 J	1.2 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.87 U	1.1 UJ	1.1 UJ	1.1 U	0.96 U
Sodium	MG/KG	270	34%	0	0	41	119	99 J	70.7 J	97.9 J	102 J	82.7 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.27 UJ	0.24 J	0.16 U	0.95 J	0.96 J
Vanadium	MG/KG	104	99%	0	0	118	119	31.4	28.3	104	39	32.9
Zinc	MG/KG	1250	93%	109	11	111	119	1250 J	93.8	120	85.6 J	63.8 J
Other Analyses												
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32					
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101					
Percent Solids	% WW	94	100%	0	0	101	101					
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33					
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32					

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57
								TP57-8	TP57-9
								SOIL	SOIL
								TP57-8	TP57-9
								3	3
								3	3
								12/02/93	12/02/93
								SA	SA
								P1S1 RI	P1S1 RI
Value (Q)	Value (Q)								
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/KG	0	0%	680	0	0	127	12 U	12 U
1,1,2,2-Tetrachloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U
1,1,2-Trichloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U
1,1-Dichloroethane	UG/KG	0	0%	270	0	0	127	12 U	12 U
1,1-Dichloroethene	UG/KG	0	0%	330	0	0	127	12 U	12 U
1,2-Dichloroethane	UG/KG	0	0%	20	0	0	127	12 U	12 U
1,2-Dichloroethene (total)	UG/KG	0	0%	190	0	0	127	12 U	12 U
1,2-Dichloropropane	UG/KG	0	0%	0	0	0	127	12 U	12 U
Acetone	UG/KG	700	74%	50	87	94	127	12 U	12 U
Benzene	UG/KG	1	2%	60	0	2	127	12 U	12 U
Bromodichloromethane	UG/KG	0	0%	0	0	0	127	12 U	12 U
Bromoform	UG/KG	0	0%	0	0	0	127	12 U	12 U
Carbon disulfide	UG/KG	22	11%	0	0	14	127	12 U	12 U
Carbon tetrachloride	UG/KG	0	0%	760	0	0	127	12 U	12 U
Chlorobenzene	UG/KG	0	0%	1100	0	0	127	12 U	12 U
Chlorodibromomethane	UG/KG	0	0%	0	0	0	127	12 U	12 U
Chloroethane	UG/KG	0	0%	0	0	0	127	12 U	12 U
Chloroform	UG/KG	7	1%	370	0	1	127	12 U	12 U
Cis-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U
Ethyl benzene	UG/KG	0	0%	1000	0	0	127	12 U	12 U
Methyl bromide	UG/KG	0	0%	0	0	0	127	12 U	12 U
Methyl butyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U
Methyl chloride	UG/KG	0	0%	0	0	0	127	12 U	12 U
Methyl ethyl ketone	UG/KG	64	62%	120	0	79	127	12 U	12 U
Methyl isobutyl ketone	UG/KG	0	0%	0	0	0	127	12 U	12 U
Methylene chloride	UG/KG	1	2%	50	0	2	127	12 U	12 U
Styrene	UG/KG	0	0%	0	0	0	127	12 U	12 U
Tetrachloroethene	UG/KG	6	6%	1300	0	7	127	12 U	12 U
Toluene	UG/KG	33	65%	700	0	82	127	12 U	12 U
Total Xylenes	UG/KG	2	2%	260	0	3	127	12 U	12 U
Trans-1,3-Dichloropropene	UG/KG	0	0%	0	0	0	127	12 U	12 U
Trichloroethene	UG/KG	0	0%	470	0	0	127	12 U	12 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57
								TP57-8	TP57-9
								SOIL	SOIL
								TP57-8	TP57-9
								3	3
								3	3
								12/02/93	12/02/93
								SA	SA
								P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)
Vinyl chloride	UG/KG	0	0%	20	0	0	127	12 U	12 U
Semivolatile Organic Compounds		0	#DIV/0!	0	0	0	0		
1,2,4-Trichlorobenzene	UG/KG	0	0%	0	0	0	119	380 U	380 U
1,2-Dichlorobenzene	UG/KG	0	0%	1100	0	0	119	380 U	380 U
1,3-Dichlorobenzene	UG/KG	0	0%	2400	0	0	119	380 U	380 U
1,4-Dichlorobenzene	UG/KG	0	0%	1800	0	0	119	380 U	380 U
2,2'-oxybis(1-Chloropropane)	UG/KG	0	0%	0	0	0	18	380 U	380 U
2,4,5-Trichlorophenol	UG/KG	0	0%	0	0	0	119	930 U	920 U
2,4,6-Trichlorophenol	UG/KG	0	0%	0	0	0	119	380 U	380 U
2,4-Dichlorophenol	UG/KG	0	0%	0	0	0	119	380 U	380 U
2,4-Dimethylphenol	UG/KG	0	0%	0	0	0	119	380 U	380 U
2,4-Dinitrophenol	UG/KG	0	0%	0	0	0	119	930 U	920 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	380 U	380 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	380 U	380 U
2-Chloronaphthalene	UG/KG	0	0%	0	0	0	119	380 U	380 U
2-Chlorophenol	UG/KG	0	0%	0	0	0	119	380 U	380 U
2-Methylnaphthalene	UG/KG	750	3%	0	0	3	119	380 U	380 U
2-Methylphenol	UG/KG	0	0%	330	0	0	119	380 U	380 U
2-Nitroaniline	UG/KG	0	0%	0	0	0	119	930 U	920 U
2-Nitrophenol	UG/KG	0	0%	0	0	0	119	380 U	380 U
3,3'-Dichlorobenzidine	UG/KG	0	0%	0	0	0	119	380 U	380 U
3-Nitroaniline	UG/KG	0	0%	0	0	0	119	930 U	920 U
4,6-Dinitro-2-methylphenol	UG/KG	0	0%	0	0	0	119	930 U	920 U
4-Bromophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	380 U	380 U
4-Chloro-3-methylphenol	UG/KG	0	0%	0	0	0	119	380 U	380 U
4-Chloroaniline	UG/KG	0	0%	0	0	0	119	380 U	380 U
4-Chlorophenyl phenyl ether	UG/KG	0	0%	0	0	0	119	380 U	380 U
4-Methylphenol	UG/KG	13	3%	330	0	3	119	380 U	380 U
4-Nitroaniline	UG/KG	0	0%	0	0	0	119	930 U	920 U
4-Nitrophenol	UG/KG	0	0%	0	0	0	119	930 U	920 U
Acenaphthene	UG/KG	0	0%	20000	0	0	119	380 U	380 U
Acenaphthylene	UG/KG	0	0%	100000	0	0	119	380 U	380 U
Anthracene	UG/KG	8.2	3%	100000	0	3	119	380 U	380 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57
								TP57-8	TP57-9
							SOIL	SOIL	
							TP57-8	TP57-9	
							3	3	
							3	3	
							12/02/93	12/02/93	
							SA	SA	
							P1S1 RI	P1S1 RI	
Value (Q)	Value (Q)								
Benzo(a)anthracene	UG/KG	62	21%	1000	0	25	119	380 U	380 U
Benzo(a)pyrene	UG/KG	76	17%	1000	0	20	119	380 U	380 U
Benzo(b)fluoranthene	UG/KG	67	24%	1000	0	29	119	380 U	380 U
Benzo(ghi)perylene	UG/KG	54	13%	100000	0	15	119	380 U	380 U
Benzo(k)fluoranthene	UG/KG	50	24%	800	0	29	119	380 U	380 U
Bis(2-Chloroethoxy)methane	UG/KG	0	0%	0	0	0	119	380 U	380 U
Bis(2-Chloroethyl)ether	UG/KG	0	0%	0	0	0	119	380 U	380 U
Bis(2-Chloroisopropyl)ether	UG/KG	0	0%	0	0	0	101		
Bis(2-Ethylhexyl)phthalate	UG/KG	3400	15%	0	0	18	119	380 U	380 U
Butylbenzylphthalate	UG/KG	0	0%	0	0	0	119	380 U	380 U
Carbazole	UG/KG	0	0%	0	0	0	119	380 U	380 U
Chrysene	UG/KG	110	33%	1000	0	39	119	380 U	380 U
Di-n-butylphthalate	UG/KG	390	34%	0	0	40	119	380 U	380 U
Di-n-octylphthalate	UG/KG	2.6	1%	0	0	1	119	380 U	380 U
Dibenz(a,h)anthracene	UG/KG	24	6%	330	0	7	119	380 U	380 U
Dibenzofuran	UG/KG	0	0%	7000	0	0	119	380 U	380 U
Diethyl phthalate	UG/KG	8.8	2%	0	0	2	119	380 U	380 U
Dimethylphthalate	UG/KG	0	0%	0	0	0	119	380 U	380 U
Fluoranthene	UG/KG	150	50%	100000	0	60	119	380 U	380 U
Fluorene	UG/KG	120	2%	30000	0	2	119	380 U	380 U
Hexachlorobenzene	UG/KG	0	0%	330	0	0	119	380 U	380 U
Hexachlorobutadiene	UG/KG	0	0%	0	0	0	119	380 U	380 U
Hexachlorocyclopentadiene	UG/KG	0	0%	0	0	0	119	380 U	380 U
Hexachloroethane	UG/KG	0	0%	0	0	0	119	380 U	380 U
Indeno(1,2,3-cd)pyrene	UG/KG	37	13%	500	0	15	119	380 U	380 U
Isophorone	UG/KG	0	0%	0	0	0	119	380 U	380 U
N-Nitrosodiphenylamine	UG/KG	75	2%	0	0	2	119	380 U	380 U
N-Nitrosodipropylamine	UG/KG	0	0%	0	0	0	119	380 U	380 U
Naphthalene	UG/KG	180	1%	12000	0	1	119	380 U	380 U
Nitrobenzene	UG/KG	0	0%	0	0	0	119	380 U	380 U
Pentachlorophenol	UG/KG	0	0%	800	0	0	119	930 U	920 U
Phenanthrene	UG/KG	230	37%	100000	0	44	119	380 U	380 U
Phenol	UG/KG	51	13%	330	0	16	119	380 U	380 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57
								TP57-8	TP57-9
								SOIL	SOIL
								TP57-8	TP57-9
								3	3
								3	3
								12/02/93	12/02/93
								SA	SA
								P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)
Pyrene	UG/KG	230		100000	3	62	119	380 U	380 U
Nitroaromatic and Nitroamine Compounds, Explosives									
1,3,5-Trinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U	130 U
1,3-Dinitrobenzene	UG/KG	0	0%	0	0	0	119	130 U	130 U
2,4,6-Trinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U
2,4-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U
2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U
2-Nitrotoluene	UG/KG	0	0%	0	0	0	101		
2-amino-4,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U
3-Nitrotoluene	UG/KG	0	0%	0	0	0	101		
4-Nitrotoluene	UG/KG	0	0%	0	0	0	101		
4-amino-2,6-Dinitrotoluene	UG/KG	0	0%	0	0	0	119	130 U	130 U
HMX	UG/KG	0	0%	0	0	0	119	130 U	130 U
Nitrobenzene	UG/KG	0	0%	0	0	0	101		
RDX	UG/KG	0	0%	0	0	0	119	130 U	130 U
Tetryl	UG/KG	0	0%	0	0	0	119	130 U	180 U
Pesticides and PCBs									
4,4'-DDD	UG/KG	54	7%	3.3	5	8	119	3.8 U	3.8 U
4,4'-DDE	UG/KG	32	8%	3.3	7	9	119	3.8 U	3.8 U
4,4'-DDT	UG/KG	23	5%	3.3	5	6	119	3.8 U	3.8 U
Aldrin	UG/KG	0	0%	5	0	0	119	2 U	2 U
Alpha-BHC	UG/KG	1.4	2%	20	0	2	119	2 U	2 U
Alpha-Chlordane	UG/KG	16	6%	94	0	7	119	2 U	2 U
Aroclor-1016	UG/KG	0	0%	100	0	0	119	38 U	38 U
Aroclor-1221	UG/KG	0	0%	100	0	0	119	77 U	78 U
Aroclor-1232	UG/KG	0	0%	100	0	0	119	38 U	38 U
Aroclor-1242	UG/KG	0	0%	100	0	0	119	38 U	38 U
Aroclor-1248	UG/KG	0	0%	100	0	0	119	38 U	38 U
Aroclor-1254	UG/KG	0	0%	100	0	0	119	38 U	38 U
Aroclor-1260	UG/KG	27	2%	100	0	2	119	38 U	38 U
Beta-BHC	UG/KG	4.5	1%	36	0	1	119	2 U	2 U
Delta-BHC	UG/KG	0	0%	40	0	0	119	2 U	2 U
Dieldrin	UG/KG	27	6%	5	5	7	119	3.8 U	3.8 U

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57
								TP57-8	TP57-9
								SOIL	SOIL
								TP57-8	TP57-9
								3	3
								3	3
								12/02/93	12/02/93
								SA	SA
								P1S1 RI	P1S1 RI
Value (Q)	Value (Q)								
Endosulfan I	UG/KG	5.2	1%	2400	0	1	119	2 U	2 U
Endosulfan II	UG/KG	3.1	1%	2400	0	1	119	3.8 U	3.8 U
Endosulfan sulfate	UG/KG	0	0%	2400	0	0	119	3.8 U	3.8 U
Endrin	UG/KG	0	0%	14	0	0	119	3.8 U	3.8 U
Endrin aldehyde	UG/KG	3.8	1%	0	0	1	119	3.8 U	3.8 U
Endrin ketone	UG/KG	4	1%	0	0	1	119	3.8 U	3.8 U
Gamma-BHC/Lindane	UG/KG	0	0%	100	0	0	119	2 U	2 U
Gamma-Chlordane	UG/KG	0	0%	0	0	0	119	2 U	2 U
Heptachlor	UG/KG	1.6	1%	42	0	1	119	2 U	2 U
Heptachlor epoxide	UG/KG	2	1%	0	0	1	119	2 U	2 U
Methoxychlor	UG/KG	0	0%	0	0	0	119	20 U	20 U
Toxaphene	UG/KG	0	0%	0	0	0	119	200 U	200 U
Herbicides		0	#DIV/0!	0	0	0	0		
2,4,5-T	UG/KG	0	0%	0	0	0	18	5.8 U	5.8 U
2,4,5-TP/Silvex	UG/KG	0	0%	3800	0	0	18	5.8 U	5.8 U
2,4-D	UG/KG	0	0%	0	0	0	18	58 U	58 U
2,4-DB	UG/KG	0	0%	0	0	0	18	58 U	58 U
Dalapon	UG/KG	0	0%	0	0	0	18	140 U	140 U
Dicamba	UG/KG	0	0%	0	0	0	18	5.8 U	5.8 U
Dichloroprop	UG/KG	0	0%	0	0	0	18	58 U	58 U
Dinoseb	UG/KG	0	0%	0	0	0	18	29 U	29 U
MCPA	UG/KG	0	0%	0	0	0	18	5800 U	5800 U
MCPP	UG/KG	0	0%	0	0	0	18	5800 U	5800 U
Metals and Cyanide									
Aluminum	MG/KG	22900	100%	0	0	119	119	15700	10300
Antimony	MG/KG	6.5	49%	0	0	58	119	6.5 J	3.5 U
Arsenic	MG/KG	17.8	92%	13	1	110	119	4.8	8.6
Barium	MG/KG	237	100%	350	0	119	119	113	70.8
Beryllium	MG/KG	1.8	100%	7.2	0	119	119	0.77 J	0.49 J
Cadmium	MG/KG	28.6	22%	2.5	6	26	119	0.36 UR	0.34 UR
Calcium	MG/KG	213000	100%	0	0	119	119	67000	84000
Chromium	MG/KG	32.1	100%	30	2	119	119	25	16.5
Cobalt	MG/KG	29.7	100%	0	0	119	119	12.2	8

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.

**APPENDIX E TABLE 7B
SEAD-57, EOD Area Soil Sample Results**

**Munitions Response and CERCLA Closure
Seneca Army Depot Activity**

Parameter	Units	Maximum Concentration	Frequency of Detection	NYSDEC Unrestricted Use Value (1)	Number of Exceedances	Number of Times Detected	Number of Samples Analyzed	SEAD-57	SEAD-57
								TP57-8	TP57-9
								SOIL	SOIL
								TP57-8	TP57-9
								3	3
								3	3
								12/02/93	12/02/93
								SA	SA
								P1S1 RI	P1S1 RI
								Value (Q)	Value (Q)
Copper	MG/KG	2930	92%	50	2	109	119	25.4 J	22.6 J
Cyanide	MG/KG	0	0%	27	0	0	119	0.63 U	0.62 U
Iron	MG/KG	39800	100%	0	0	119	119	27600	19900
Lead	MG/KG	1860	100%	63	2	119	119	14.9	16.2
Magnesium	MG/KG	27600	100%	0	0	119	119	10000	27600
Manganese	MG/KG	2580	100%	1600	5	119	119	500 J	323 J
Mercury	MG/KG	0.15	75%	0.18	0	89	119	0.03 U	0.02 U
Nickel	MG/KG	54.1	100%	30	37	119	119	40.1	29.8
Potassium	MG/KG	3250	100%	0	0	119	119	1910	1350
Selenium	MG/KG	2.7	63%	3.9	0	75	119	0.96 J	1.1 J
Silver	MG/KG	1.7	38%	2	0	45	119	0.72 U	0.67 U
Sodium	MG/KG	270	34%	0	0	41	119	136 J	128 J
Thallium	MG/KG	6.7	82%	0	0	98	119	0.88 J	0.91 J
Vanadium	MG/KG	104	99%	0	0	118	119	25.4	17.9
Zinc	MG/KG	1250	93%	109	11	111	119	82.7 J	68.5 J
Other Analyses									
Cation exchange capacity	MEQ/100G	31.4	100%	0	0	32	32		
Nitrate/Nitrite Nitrogen	MG/KG	4.4	98%	0	0	99	101		
Percent Solids	% WW	94	100%	0	0	101	101		
Soil pH (std. units)	pH units	7.83	100%	0	0	33	33		
Total Organic Carbon	MG/KG	70500	100%	0	0	32	32		

(1) - NYSDEC's Unrestricted Use soil cleanup Objective, 6NYCRR Part 375-6.