

**Table C.1
Radiological Laboratory Results
SEAD-63 - Ground Water (April 2004)**

Sample Identification Number (Monitoring Well Designation or Sample Type)	Parameter	Units	NYSDEC Ambient Water Quality Criteria ¹	Laboratory Results	
				Result	Uncertainty
SEAD63-GW-01 (Monitoring Well MW63-1)	Total Uranium	µg/L	5,000	0.739	
	Gross Alpha	pCi/L	15	1.59	U
	Gross Beta	pCi/L	1,000	3.44	U
	Radium-226	pCi/L	3	3.28	
	Radium-228	pCi/L	5	-2.18	U
	Tritium	pCi/L	20,000	-72.9	U
SEAD63-GW-01 EB (Equipment/Rinsate Blank)	Total Uranium	µg/L	5,000	0.00	U
	Gross Alpha	pCi/L	15	0.364	U
	Gross Beta	pCi/L	1,000	0.937	U
	Radium-226	pCi/L	3	0.695	
	Radium-228	pCi/L	5	-0.539	U
	Tritium	pCi/L	20,000	-116	U
SEAD63-GW-02 (Monitoring Well MW63-2)	Total Uranium	µg/L	5,000	1.57	
	Gross Alpha	pCi/L	15	2.58	U
	Gross Beta	pCi/L	1,000	2.66	U
	Radium-226	pCi/L	3	0.547	U
	Radium-228	pCi/L	5	0.795	U
	Tritium	pCi/L	20,000	74.0	U
SEAD63-GWFD-02 (Field Duplicate of SEAD63-GW-02)	Total Uranium	µg/L	5,000	1.38	
	Gross Alpha	pCi/L	15	1.46	U
	Gross Beta	pCi/L	1,000	2.60	U
	Radium-226	pCi/L	3	0.202	U
	Radium-228	pCi/L	5	0.0307	U
	Tritium	pCi/L	20,000	6.50	U
SEAD63-GW-03 (Monitoring Well MW63-3)	Total Uranium	µg/L	5,000	2.00	
	Gross Alpha	pCi/L	15	2.18	U
	Gross Beta	pCi/L	1,000	2.51	U
	Radium-226	pCi/L	3	0.604	U
	Radium-228	pCi/L	5	2.46	
	Tritium	pCi/L	20,000	-108	U

Table C.2 - Radiological Laboratory Results for Background/Reference Area Soil Samples

Sample ID	Sample Date	Sample Location	Matrix & Source	Gross Alpha		Gross Beta	
				Result	Uncertainty (+/-)	Result	Uncertainty (+/-)
SEAD63-RBG-001	04/08/04	RBG-001	Soil - background	8.17	1.60	40.5	2.68
SEAD63-RBG-002	04/08/04	RBG-002	Soil - background	7.57	1.68	35.6	2.78
SEAD63-RBG-003	04/08/04	RBG-003	Soil - background	11.6	2.00	32.8	2.68
SEAD63-RBG-004	04/08/04	RBG-004	Soil - background	5.15	1.43	18.2	1.98
SEAD63-RBG-005	04/08/04	RBG-005	Soil - background	11.2	1.99	27.4	2.35
SEAD63-RBG-006	04/08/04	RBG-006	Soil - background	7.15	1.65	25.0	2.46
SEAD63-RBG-007	04/08/04	RBG-007	Soil - background	11.9	2.03	30.8	2.60
SEAD63-RBG-008	04/08/04	RBG-008	Soil - background	9.07	1.84	22.5	2.46
SEAD63-RBG-009	04/08/04	RBG-009	Soil - background	6.74	1.66	21.1	2.23
SEAD63-RBG-010	04/08/04	RBG-010	Soil - background	6.48	1.43	18.1	2.11
SEAD63-RBG-011	04/08/04	RBG-011	Soil - background	8.22	1.77	24.6	2.43
SEAD63-RBG-012	04/08/04	RBG-012	Soil - background	8.66	1.53	19.0	2.15
SEAD63-RBG-013	04/08/04	RBG-013	Soil - background	6.66	1.45	15.4	2.00
SEAD63-RBG-014	04/08/04	RBG-014	Soil - background	9.18	1.67	25.1	2.39
SEAD63-RBG-015	04/08/04	RBG-015	Soil - background	5.06	1.66	17.6	2.40
SEAD63-RBG-016	04/08/04	RBG-016	Soil - background	7.29	1.80	22.8	2.64
SEAD63-RBG-017	04/08/04	RBG-017	Soil - background	11.7	1.94	30.5	2.53
SEAD63-RBG-018	04/08/04	RBG-018	Soil - background	10.9	1.86	25.8	2.23
SEAD63-RBG-019	04/08/04	RBG-019	Soil - background	8.06	1.50	29.8	2.32
SEAD63-RBGFD-001	04/08/04	RBG-014	Soil - background	9.49	1.82	23.9	2.40
SEAD63-RBGFD-002	04/08/04	RBG-004	Soil - background	5.53	1.73	16.2	2.78
SEAD63-RBGFD-003	04/08/04	RBG-013	Soil - background	7.51	2.09	16.3	2.65
SEAD63-RBGFD-004	04/08/04	RBG-015	Soil - background	4.11	1.68	13.9	2.68
SEAD63-RBGFD-005	04/08/04	RBG-011	Soil - background	8.29	2.07	21.6	3.14

NOTES:

All results in pCi/g
 Reporting limit for Alpha is 4.0 pCi/g; reporting limit for Beta is 10.0 pCi/g
 Laboratory analysis by General Engineering Laboratories, LLC
 RBG denotes Reference Background sample location
 U denotes parameter not detected above Method Detection Limit

NOTES:

µg/L - micrograms per liter

pCi/L - picocuries per liter

U - parameter not detected above MDL

UI - uncertain identification for gamma spectroscopy

"MDL" means minimum detection limit

"NYSDEC" means New York State Department of Environmental Conservation

3.28 - Green-shaded value indicates exceedance of NYSDEC ambient water quality criterion for drinking water protection

Total Uranium analyzed in accordance with ASTM D 5174

Gross Alpha analyzed in accordance with EPA 900.0

Gross Beta analyzed in accordance with EPA 900.0

Radium-226 analyzed in accordance with EPA 903.1 Modified

Radium-228 analyzed in accordance with EPA 904.0 Modified

Tritium analyzed in accordance with EPA 906.0 Modified

1. NYSDEC Ambient Water Quality Criteria for human consumption (drinking water) found in 6 NYCCR Part 703.5, as follows:

NYSDEC drinking water standard for Gross Alpha, excluding Radon and Uranium

NYSDEC drinking water standard for Gross Beta, excluding Strontium-90 and alpha emitters

NYSDEC drinking water standard for Ra-226 is 3 pCi/L; combined Ra-226 and Ra-228 standard <5 pCi/L

NYSDEC drinking water standard for Tritium is 20,000 pCi/L; if 2 or more radionuclides are present, sum of annual dose equivalent to total body or any one organ <4 millirem per year

Table C.3
Cadmium in Soil Samples at Interim Limits of Burial Pits Excavation

Sample Identification Number	Sample Collection Date	Units	Laboratory Result	Cleanup Goal ¹	
				NYSDEC TAGM	SEDA Background
SEAD63-BPEX-01	4/21/2004	mg/Kg	0.15 J	1.0	2.3
SEAD63-BPEX-02	4/21/2004	mg/Kg	0.15 J	1.0	2.3
SEAD63-BPEX-03	4/21/2004	mg/Kg	0.15 J	1.0	2.3
SEAD63-BPEX-04	4/21/2004	mg/Kg	0.23 J	1.0	2.3
SEAD63-BPEX-05	4/21/2004	mg/Kg	0.17 J	1.0	2.3
SEAD63-BPEX-06	4/21/2004	mg/Kg	0.33 J	1.0	2.3
SEAD63-BPEX-07	4/26/2004	mg/Kg	0.23	1.0	2.3
SEAD63-BPEX-08	4/26/2004	mg/Kg	0.16	1.0	2.3
SEAD63-BPEX-09	4/26/2004	mg/Kg	0.35	1.0	2.3
SEAD63-BPEX-10	4/26/2004	mg/Kg	0.13	1.0	2.3
SEAD63-BPEX-11	4/26/2004	mg/Kg	0.22	1.0	2.3
SEAD63-BPEX-12	4/26/2004	mg/Kg	0.18	1.0	2.3
SEAD63-BPEX-13	4/27/2004	mg/Kg	0.78	1.0	2.3
SEAD63-BPEX-14	4/27/2004	mg/Kg	0.46 J	1.0	2.3
SEAD63-BPEX-15	4/27/2004	mg/Kg	0.61 J	1.0	2.3
SEAD63-BPEX-16	4/27/2004	mg/Kg	0.35 J	1.0	2.3
SEAD63-BPEX-17	4/27/2004	mg/Kg	2.5	1.0	2.3
SEAD63-BPEX-17A	5/3/2004	mg/Kg	4.2	1.0	2.3
SEAD63-BPEX-17B	5/3/2004	mg/Kg	1.0	1.0	2.3
SEAD63-BPEX-17C	5/3/2004	mg/Kg	2.6	1.0	2.3
SEAD63-BPEX-18	4/27/2004	mg/Kg	0.31 J	1.0	2.3
SEAD63-BPEX-19	4/28/2004	mg/Kg	0.33 J	1.0	2.3
SEAD63-BPEX-20	4/28/2004	mg/Kg	0.37 J	1.0	2.3
SEAD63-BPEX-21	4/28/2004	mg/Kg	0.35 J	1.0	2.3
SEAD63-BPEX-22	4/28/2004	mg/Kg	1.7	1.0	2.3
SEAD63-BPEX-23	4/28/2004	mg/Kg	0.21 J	1.0	2.3
SEAD63-BPEX-24	4/28/2004	mg/Kg	0.54 J	1.0	2.3
SEAD63-BPEX-25	4/28/2004	mg/Kg	0.42 J	1.0	2.3
SEAD63-BPEX-26	4/28/2004	mg/Kg	0.92	1.0	2.3
SEAD63-BPEX-27	4/28/2004	mg/Kg	0.32 J	1.0	2.3
SEAD63-BPEX-28	4/28/2004	mg/Kg	0.31 J	1.0	2.3
SEAD63-BPEX-29	4/28/2004	mg/Kg	0.3 J	1.0	2.3
SEAD63-BPEX-30	4/28/2004	mg/Kg	0.41 J	1.0	2.3
SEAD63-BPEX-31	4/28/2004	mg/Kg	0.74	1.0	2.3
SEAD63-BPEX-32	4/28/2004	mg/Kg	0.32 J	1.0	2.3
SEAD63-BPEX-33	4/28/2004	mg/Kg	0.78	1.0	2.3
SEAD63-BPEX-34	4/28/2004	mg/Kg	0.31 J	1.0	2.3
SEAD63-BPEX-35	4/28/2004	mg/Kg	0.78	1.0	2.3
SEAD63-BPEX-36	5/3/2004	mg/Kg	0.85	1.0	2.3
SEAD63-BPEX-37	5/3/2004	mg/Kg	0.31 J	1.0	2.3

Table C.3
Cadmium in Soil Samples at Interim Limits of Burial Pits Excavation

Sample Identification Number	Sample Collection Date	Units	Laboratory Result	Cleanup Goal ¹	
				NYSDEC TAGM	SEDA Background
SEAD63-BPEX-38	5/3/2004	mg/Kg	0.34 J	1.0	2.3
SEAD63-BPEX-39	5/3/2004	mg/Kg	0.8	1.0	2.3
SEAD63-BPEX-40	5/3/2004	mg/Kg	0.53 J	1.0	2.3
SEAD63-BPEX-41	5/3/2004	mg/Kg	7.4	1.0	2.3
SEAD63-BPEX-42	5/3/2004	mg/Kg	0.49 J	1.0	2.3
SEAD63-BPEX-43	5/3/2004	mg/Kg	1.6	1.0	2.3
SEAD63-BPEX-44	5/3/2004	mg/Kg	0.49 J	1.0	2.3
SEAD63-BPEX-45	5/3/2004	mg/Kg	0.44 J	1.0	2.3
SEAD63-BPEX-46	5/3/2004	mg/Kg	2.9	1.0	2.3
SEAD63-BPEX-47	5/3/2004	mg/Kg	0.3 J	1.0	2.3
SEAD63-BPEX-48	5/3/2004	mg/Kg	0.22 J	1.0	2.3
SEAD63-BPEX-49	5/3/2004	mg/Kg	0.33 J	1.0	2.3
SEAD63-BPEX-50	5/3/2004	mg/Kg	0.33 J	1.0	2.3
SEAD63-BPEX-51	5/3/2004	mg/Kg	0.32 J	1.0	2.3
SEAD63-BPEX-52	5/3/2004	mg/Kg	0.32 J	1.0	2.3

NOTES:

Cadmium analyzed in accordance with SW3051/6010B

SEAD-63 cadmium soil cleanup goal is the higher of New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) cleanup goal [1 milligram per Kilogram (mg/Kg)] or Seneca Army Depot Activity (SEDA) background (2.3 mg/Kg)

Values exceeding SEAD-63 cleanup goal highlighted (shaded)

"J" means laboratory qualifier indicating estimated value, below PQL

"ND" means not detected above PQL

"PQL" means Practical Quantitation Limit

"NA" means Not Applicable

Table C.4.1 - Cadmium in Soil Samples Final Limits of SEAD-63 Burial Pits Excavation					
Sample Identification Number	Sample Collection Date	Units	Laboratory Result	Cleanup Goal¹	
				NYSDEC TAGM	SEDA Background
SEAD63-BPFL-01	05/11/04	mg/Kg	0.25 J	1.0	2.3
SEAD63-BPFL-02	05/10/04	mg/Kg	0.26 J	1.0	2.3
SEAD63-BPFL-03	05/11/04	mg/Kg	0.2 J	1.0	2.3
SEAD63-BPFL-04	05/11/04	mg/Kg	0.19 J	1.0	2.3
SEAD63-BPFL-05	05/11/04	mg/Kg	0.24 J	1.0	2.3
SEAD63-BPFL-06	05/10/04	mg/Kg	0.15 J	1.0	2.3
SEAD63-BPFL-07	05/10/04	mg/Kg	0.12 J	1.0	2.3
SEAD63-BPFL-08	05/10/04	mg/Kg	0.57 J	1.0	2.3
SEAD63-BPFL-09	05/10/04	mg/Kg	0.58 J	1.0	2.3
SEAD63-BPFL-10	05/11/04	mg/Kg	0.24 J	1.0	2.3
SEAD63-BPFL-11	05/10/04	mg/Kg	0.17 J	1.0	2.3
SEAD63-BPFL-12	05/11/04	mg/Kg	0.13 J	1.0	2.3
SEAD63-BPFL-13	05/10/04	mg/Kg	0.16 J	1.0	2.3
SEAD63-BPFL-14	05/10/04	mg/Kg	0.58 J	1.0	2.3
SEAD63-BPFL-15	05/10/04	mg/Kg	0.67 J	1.0	2.3
SEAD63-BPFL-16	05/11/04	mg/Kg	0.28 J	1.0	2.3
SEAD63-BPFL-17	05/11/04	mg/Kg	0.22 J	1.0	2.3
SEAD63-BPFL-18	05/11/04	mg/Kg	0.33 J	1.0	2.3
SEAD63-BPFL-19	05/11/04	mg/Kg	0.45 J	1.0	2.3
SEAD63-BPFL-20	05/11/04	mg/Kg	0.28 J	1.0	2.3
SEAD63-BPFL-21	05/11/04	mg/Kg	0.39 J	1.0	2.3
SEAD63-BPFL-22	05/11/04	mg/Kg	0.27 J	1.0	2.3
SEAD63-BPFL-23	05/11/04	mg/Kg	0.55 J	1.0	2.3
SEAD63-BPFL-24	05/11/04	mg/Kg	0.33 J	1.0	2.3
SEAD63-BPFL-25	05/11/04	mg/Kg	0.68 U	1.0	2.3
SEAD63-BPFL-26	05/12/04	mg/Kg	0.12 J	1.0	2.3
SEAD63-BPFL-27	05/12/04	mg/Kg	0.73 U	1.0	2.3
SEAD63-BPFL-28	05/12/04	mg/Kg	0.75 U	1.0	2.3
SEAD63-BPFL-29	05/12/04	mg/Kg	0.19 J	1.0	2.3

NOTES:

mg/Kg – milligrams per Kilogram “PQL” means Practical Quantitation Limit

“J” is a Quality Control (QC) qualifier indicating detection below PQL (estimated concentration)

“MDL” means Minimum Detection Limit

“u” is a QC qualifier indicating Not Detected above MDL

¹Cleanup goal is the higher of New York State Department of Environmental Conservation (NYSDEC) TAGM soil cleanup goal (1 mg/Kg) or Seneca Army Depot Activity (SEDA) background (2.3 mg/Kg)

“TAGM” means Technical and Guidance Memorandum Number 4046 – Determination of Soil Cleanup Objectives and Cleanup Goals (NYSDEC)

Sample locations shown on Figures 5-2 and 5-3 of Plexus’ *Removal Action Completion Report* (February 2005)

Table C.4.2
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedances of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Inorganics (%-dry weight):										
Percent Moisture	N/A	N/A	29	N/A	17.7	28.8	18.3	21.5	17.1	28.8
Metals (mg/Kg-dry weight):										
Aluminum	SB	19,200	29	4	15790	22100	13900	14800	14747	22,100
Antimony	SB	5.9	29	9	5.9	6.8	5.9	6.0	5.8	6.8
Arsenic	75 or SB	8.24	29	1	5.9	11.2	5.7	7.9	5.8	11
Barium	300 or SB	117.75	29	8	115	223	96	118	104	223
Beryllium	0.16 or SB	1.1	29	2	0.8	1.6	0.7	0.8	0.8	1.6
Cadmium	1 or SB	2.3	29	0	0.4	0.7	0.4	0.8	0.3	0.8
Calcium	SB	120500	29	0	16414	101000	8440	24200	20413	101,000
Chromium	10 or SB	29,325	29	5	26	35	24	26	25	35
Cobalt	30 or SB	19.05	29	0	12	20	12	13	12	20
Copper	25 or SB	29,588	29	16	32	82	32	38	32	82
Iron	2000 or SB	35550	29	3	29220	39500	27920	31400	28314	39,500
Lead	SB	21.48	29	4	17	57	16	19	17	57
Magnesium	SB	21500	29	1	9115	59900	5756	6200	8617	59,900
Manganese	SB	1056	29	3	586	1900	542	843	560	1,900
Mercury		0.095	29	1	0.0	0.2	0.0	0.0	0.0	0.2
Nickel	13 or SB	48.88	29	6	41	71	43	48	41	71
Potassium	SB	2342.5	29	3	1857	3230	1644	2060	1721	3,230
Selenium	2 or SB	2	29	0	0.9	1.5	0.4	0.5	0.8	1.5
Silver	SB	0.8	29	7	0.5	2.1	1.7	2.1	0.7	2.1
Sodium	SB	170.25	29	3	82	186	93	155	93	207
Thallium	SB	0.668	29	29	1.5	1.7	1.5	1.5	1.5	1.7
Vanadium	150 or SB	31.9	29	3	27	35	24	28	25	35
Zinc	20 or SB	108.95	29	3	81	120	86	102	81	120
Polychlorinated biphenyls (µg/Kg-dry weight):										
Aroclor 1016	1000 or 10000**	90	29	0	30.1	35	30.2	32	29.8	35 u
Aroclor 1221	1000 or 10000**	90	29	0	30.1	35	30.2	32	29.8	35 u
Aroclor 1232	1000 or 10000**	90	29	0	30.1	35	30.2	32	29.8	35 u
Aroclor 1242	1000 or 10000**	90	29	0	30.1	35	30.2	32	29.8	35 u
Aroclor 1248	1000 or 10000**	90	29	0	30.1	35	30.2	32	29.8	35 u
Aroclor 1254	1000 or 10000**	176	29	0	30.1	35	30.2	32	29.8	35 u
Aroclor 1260	1000 or 10000**	176	29	0	30.1	35	30.2	32	29.8	35 u
Pesticides (µg/Kg-dry weight):										
4,4'-DDD	2900	18	29	0	1.9	2.2	1.9	2	1.9	2.2 u
4,4'-DDE	2100	18	29	0	1.9	2.2	1.9	2	1.9	2.2 u
4,4'-DDT	2100	18	29	0	1.9	2.2	1.9	2	1.9	2.2 u
Aldrin	41	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
alpha-BHC	110	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
alpha-Chlordane	540***	90	29	0	1.0	1.1	1.0	1	1.0	1.1 u
beta-BHC	200	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
delta-BHC	300	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
Dieldrin	44	18	29	0	1.9	2.2	1.9	2	1.9	2.2 u
Endosulfan I	900	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
Endosulfan II	900	18	29	0	1.9	2.2	1.9	2	1.9	2.2 u
Endosulfan sulfate	1000	18	29	0	1.9	2.2	1.9	2	1.9	2.2 u
Endrin	100	19	29	0	1.9	2.2	1.9	2	1.9	2.2 u
Endrin aldehyde		2	29	0	1.9	2.2	1.9	2	1.9	2.2 u
Endrin ketone	N/A	18	29	0	1.9	2.2	1.9	2	1.9	2.2 u
gamma-BHC	60	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
gamma-Chlordane	540	90	29	0	1.0	1.1	1.0	1	1.0	1.1 u
Heptachlor	100	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
Heptachlor epoxide	20	9	29	0	1.0	1.1	1.0	1	1.0	1.1 u
Methoxychlor	Total VOCs < 10 mg/Kg	90	29	0	9.6	11	9.6	10	9.5	11 u
Technical Chlordane	540***		29	0	30.1	35	30.2	32	29.9	35 u
Toxaphene		176	29	0	30.1	35	30.2	32	29.9	35 u

Table C.4.2
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedances of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Semi-Volatile Organic Compounds (µg/Kg-dry weight):										
1,2,4-Trichlorobenzene			29	0	299	340	300	310	297	340 u
1,2-Dichlorobenzene			29	0	299	340	300	310	297	340 u
1,2-Diphenylhydrazine (as Azobenzene)			29	0	299	340	300	310	297	340 u
1,3-Dichlorobenzene			29	0	299	340	300	310	297	340 u
1,4-Dichlorobenzene			29	0	299	340	300	310	297	340 u
2,4,5-Trichlorophenol	100		29	0	299	340	300	310	297	340 u
2,4,6-Trichlorophenol			29	0	299	340	300	310	297	340 u
2,4-Dichlorophenol	400		29	0	299	340	300	310	297	340 u
2,4-Dimethylphenol			29	0	299	340	300	310	297	340 u
2,4-Dinitrophenol	200 or MDL		29	0	597	690	600	620	592	690 u
2,4-Dinitrotoluene		65	29	0	299	340	300	310	297	340 u
2,6-Dinitrotoluene	1000	65	29	0	299	340	300	310	297	340 u
2-Chloronaphthalene			29	0	299	340	300	310	297	340 u
2-Chlorophenol	800		29	0	299	340	300	310	297	340 u
2-Methylnaphthalene	36400		29	0	299	340	300	310	297	340 u
2-Methylphenol	100 or MDL		29	0	299	340	300	310	297	340 u
2-Nitroaniline	430 or MDL		29	0	597	690	600	620	592	690 u
2-Nitrophenol	330 or MDL		29	0	299	340	300	310	297	340 u
3,3'-Dichlorobenzidine	N/A		29	0	299	340	300	310	297	340 u
3-Nitroaniline	500 or MDL		29	0	597	690	600	620	592	690 u
4,6-Dinitro-2-methylphenol			29	0	597	690	600	620	592	690 u
4-Bromophenyl phenyl ether			29	0	299	340	300	310	297	340 u
4-Chloro-3-methylphenol	240 or MDL		29	0	597	690	600	620	592	690 u
4-Chloroaniline	220 or MDL		29	0	299	340	300	310	297	340 u
4-Chlorophenyl phenyl ether			29	0	299	340	300	310	297	340 u
4-Methylphenol	900		29	0	299	340	300	310	297	340 u
4-Nitroaniline			29	0	597	690	600	620	592	690 u
4-Nitrophenol	100 or MDL		29	0	597	690	600	620	592	690 u
Acenaphthene	50000****		29	0	299	340	300	310	297	340 u
Acenaphthylene	41000****		29	0	299	340	300	310	297	340 u
Anthracene	50000****		29	0	299	340	300	310	297	340 u
Benz(a)anthracene	224 or MDL		29	0	299	340	300	310	297	340 u
Benzo(a)pyrene	61 or MDL		29	0	299	340	300	310	297	340 u
Benzo(b)fluoranthene	1100		29	0	299	340	300	310	297	340 u
Benzo(g,h,i)perylene	50000****		29	0	299	340	300	310	297	340 u
Benzo(k)fluoranthene	1100		29	0	299	340	300	310	297	340 u
Benzoic acid	2700		29	0	597	690	600	620	592	690 u
Benzyl alcohol			29	0	597	690	600	620	592	690 u
Bis(2-chloroethoxy)methane			29	0	299	340	300	310	297	340 u
Bis(2-chloroethyl)ether			29	0	299	340	300	310	297	340 u
Bis(2-chloroisopropyl)ether			29	0	299	340	300	310	297	340 u
Bis(2-ethylhexyl)phthalate	50000****		29	0	287	340	300	310	289	340 u
Butyl benzyl phthalate	50000****		29	0	299	340	300	310	297	340 u
Carbazole			29	0	299	340	300	310	297	340 u
Chrysene	400		29	0	299	340	300	310	297	340 u
Dibenz(a,h)anthracene	14 or MDL		29	0	299	340	300	310	297	340 u
Dibenzofuran	6200		29	0	299	340	300	310	297	340 u
Diethyl phthalate	7100		29	0	299	340	300	310	297	340 u
Dimethyl phthalate	2000		29	0	299	340	300	310	297	340 u
Di-n-butyl phthalate	8100		29	0	299	340	300	310	297	340 u
Di-n-octyl phthalate	50000****		29	0	299	340	300	310	297	340 u
Fluoranthene	50000****		29	0	299	340	300	310	297	340 u
Fluorene	50000****		29	0	299	340	300	310	297	340 u
Hexachlorobenzene	410		29	0	299	340	300	310	297	340 u
Hexachlorobutadiene			29	0	299	340	300	310	297	340 u
Hexachlorocyclopentadiene			29	0	299	340	300	310	297	340 u

Table C.4.2
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedances of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Hexachloroethane			29	0	299	340	300	310	297	340 u
Indeno(1,2,3-cd)pyrene	3200		29	0	299	340	300	310	297	340 u
Isophorone	4400		29	0	299	340	300	310	297	340 u
Naphthalene	13000	366	29	0	299	340	300	310	297	340 u
Nitrobenzene	200 or MDL	368	29	0	299	340	300	310	297	340 u
N-Nitrosodi-n-propylamine		366	29	0	299	340	300	310	297	340 u
N-Nitrosodiphenylamine		366	29	0	299	340	300	310	297	340 u
Pentachlorophenol	1000 or MDL	1758	29	0	597	690	600	620	592	690 u
Phenanthrene	50000****	368	29	0	299	340	300	310	297	340 u
Phenol	30 or MDL	366	29	0	299	340	300	310	297	340 u
Pyrene	50000****	372	29	0	299	340	300	310	297	340 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry weight):										
1,1,1,2-Tetrachloroethane	600		29	0	27.8	36	27.8	32	27.1	36 u
1,1,1-Trichloroethane	800	7	29	0	27.8	36	27.8	32	27.1	36 u
1,1,2,2-Tetrachloroethane	600	7	29	0	27.8	36	27.8	32	27.1	36 u
1,1,2-Trichloroethane		7	29	0	27.8	36	27.8	32	27.1	36 u
1,1-Dichloroethane	200	7	29	0	27.8	36	27.8	32	27.1	36 u
1,1-Dichloroethene	400	7	29	0	27.8	36	27.8	32	27.1	36 u
1,1-Dichloropropene			29	0	27.8	36	27.8	32	27.1	36 u
1,2,3-Trichlorobenzene			29	0	27.8	36	27.8	32	27.1	36 u
1,2,3-Trichloropropane	400		29	0	27.8	36	27.8	32	27.1	36 u
1,2,4-Trichlorobenzene	3400		29	0	27.8	36	27.8	32	27.1	36 u
1,2,4-Trimethylbenzene			29	0	27.8	36	27.8	32	27.1	36 u
1,2-Dibromo-3-chloropropane			29	0	138.5	180	136	160	134.8	180 u
1,2-Dibromoethane			29	0	27.8	36	27.8	32	27.1	36 u
1,2-Dichlorobenzene	7900		29	0	27.8	36	27.8	32	27.1	36 u
1,2-Dichloroethane	100	7	29	0	27.8	36	27.8	32	27.1	36 u
1,2-Dichloropropane		7	29	0	27.8	36	27.8	32	27.1	36 u
1,3,5-Trimethylbenzene		65	29	0	27.8	36	27.8	32	27.1	36 u
1,3-Dichlorobenzene	1600		29	0	27.8	36	27.8	32	27.1	36 u
1,3-Dichloropropane	300		29	0	27.8	36	27.8	32	27.1	36 u
1,4-Dichlorobenzene	8500		29	0	27.8	36	27.8	32	27.1	36 u
2,2-Dichloropropane			29	0	27.8	36	27.8	32	27.1	36 u
2-Butanone	300	7	29	0	138.5	180	136	160	134.8	180 u
2-Chlorotoluene			29	0	27.8	36	27.8	32	27.1	36 u
2-Hexanone			29	0	27.8	360	27.8	320	271.4	360 u
4-Chlorotoluene			29	0	27.8	36	27.8	32	27.1	36 u
4-Isopropyltoluene			29	0	27.8	36	27.8	32	27.1	36 u
4-Methyl-2-pentanone	1000		29	0	27.8	360	27.8	320	271.4	360 u
Acetone	200	22	29	0	138.5	180	136	160	134.8	180 u
Benzene	60	7	29	0	27.8	36	27.8	32	27.1	36 u
Bromobenzene			29	0	27.8	36	27.8	32	27.1	36 u
Bromochloromethane		7	29	0	27.8	36	27.8	32	27.1	36 u
Bromodichloromethane			29	0	27.8	36	27.8	32	27.1	36 u
Bromoform		7	29	0	55.45	72	55.4	64	54.1	72 u
Bromomethane			29	0	55.45	72	55.4	64	54.1	72 u
Carbon disulfide	2700	7	29	0	55.45	72	55.4	64	54.1	72 u
Carbon tetrachloride	600	7	29	0	27.8	36	27.8	32	27.1	36 u
Chlorobenzene	1700	7	29	0	27.8	36	27.8	32	27.1	36 u
Chloroethane	1900	7	29	0	55.45	72	55.4	64	54.1	72 u
Chloroform	300	7	29	0	27.8	36	27.8	32	27.1	36 u
Chloromethane			29	0	55.45	72	55.4	64	54.1	72 u
cis-1,2-Dichloroethene		7****	29	0	27.8	36	27.8	32	27.1	36 u
cis-1,3-Dichloropropene		7	29	0	27.8	36	27.8	32	27.1	36 u
Dibromochloromethane	N/A	7	29	0	27.8	36	27.8	32	27.1	36 u
Dibromomethane			29	0	27.8	36	27.8	32	27.1	36 u
Dichlorodifluoromethane			29	0	55.45	72	55.4	64	54.1	72 u
Ethylbenzene	5500	7	29	0	27.8	36	27.8	32	27.1	36 u
Freon-113	6000		29	0	27.8	36	27.8	32	27.1	36 u
Hexachlorobutadiene			29	0	55.45	72	55.4	64	54.1	72 u

Table C.4.2
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedances of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Isopropylbenzene			29	0	27.8	36	27.8	32	27.1	36 u
m,p-Xylene	1200*	7*	29	0	27.8	36	27.8	32	27.1	36 u
Methyl tert-butyl ether		6	29	0	27.8	36	27.8	32	27.1	36 u
Methylene chloride	100	7	29	0	53.15	72	55.4	64	52.6	72 u
Naphthalene			29	0	55.45	72	55.4	64	54.1	72 u
n-Butylbenzene			29	0	27.8	36	27.8	32	27.1	36 u
n-Propylbenzene			29	0	27.8	36	27.8	32	27.1	36 u
o-Xylene	1200*	7*	29	0	27.8	36	27.8	32	27.1	36 u
sec-Butylbenzene			29	0	27.8	36	27.8	32	27.1	36 u
Styrene		7	29	0	27.8	36	27.8	32	27.1	36 u
tert-Butylbenzene			29	0	27.8	36	27.8	32	27.1	36 u
Tetrachloroethene	1400	7	29	0	27.8	36	27.8	32	27.1	36 u
Toluene	1500	7	29	0	27.8	36	27.8	32	27.1	36 u
trans-1,2-Dichloroethene	300	7*****	29	0	27.8	36	27.8	32	27.1	36 u
trans-1,3-Dichloropropene		7	29	0	27.8	36	27.8	32	27.1	36 u
Trichloroethene	700	7	29	0	27.8	36	27.8	32	27.1	36 u
Trichlorofluoromethane			29	0	55.45	72	55.4	64	54.1	72 u
Vinyl chloride	200	7	29	0	27.8	36	27.8	32	27.1	36 u

NOTES:

5.80 - Blue-colored value indicates exceedance of the higher of New York State Department of Environmental Conservation (NYSDEC) TAGM soil cleanup goal or Seneca Army Depot Activity (SEDA) background

1.4 - Gray-shading indicates Practical Quantitation Limit (PQL) exceeds cleanup goal

* NYSDEC TAGM soil cleanup goal for total (m,p,o)-Xylenes is 1,200 µg/Kg

** 1,000 µg/Kg for surface soil, 10,000 µg/Kg for subsurface soil

*** NYSDEC TAGM soil cleanup goal for total Chlordane is 540 µg/Kg

**** Value indicated, and total SVOCs <500,000 µg/Kg

***** Value for total 1,2-dicchloroethenes

"MDL" means Minimum Detection Limit

"TAGM" means Technical and Administrative Guidance Memorandum #4046 - Determination of Soil Cleanup Objectives and Cleanup Goals (NYSDEC)

"µg/Kg" means micrograms/Kilogram

"mg/Kg" means milligrams/Kilogram

"SB" means Site Background

"N/A" means Not Applicable (NYSDEC TAGM criterion)

"J" is a Quality Control (QC) qualifier indicating detection below PQL

"u" is a QC qualifier indicating the compound was Not Detected, or ND, at or above the MDL

"R" is a QC qualifier tagged by the Data Validator indicating a Relative Percent Difference (RPD) outside accepted recovery limits

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-01	SEAD63-BPFL-02	SEAD63-BPFL-03	SEAD63-BPFL-04	SEAD63-BPFL-05	SEAD63-BPFL-06	SEAD63-BPFL-07	SEAD63-BPFL-08
			Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Location	NYSDEC TAGM	SEDA Background	05/11/04	05/10/04	05/11/04	05/11/04	05/11/04	05/10/04	05/10/04	05/10/04
Date										
Inorganics (%-dry weight):										
Percent Moisture	N/A	N/A	13.3	14	12.3	10.9	13.5	16.8	17.9	18.3
Metals (mg/Kg-dry weight):										
Aluminum	SB	19,200	9,360	13,000	9,410	10,600	13,000	14,400	17,000	15,700
Antimony	SB	5.9	5.7 uJ	5.8 uJ	5.6 uJ	5.5 uJ	5.4 uJ	6.0 uJ	6.0 uJ	5.7 uJ
Arsenic	75 or SB	8.24	4.73	7.20 J	4.92	4.23	5.42	6.09 J	7.80	4.57 J
Barium	300 or SB	117.75	45.9	63.4	47.9	63.5	89.9	115	123	172
Beryllium	0.16 or SB	1.100	0.522 J	0.722	0.518 J	0.575 J	0.795	0.506 J	0.766	0.727
Cadmium	1 or SB	2.3	0.250 J	0.264 J	0.198 J	0.190 J	0.238 J	0.153 J	0.116 J	0.571 J
Calcium	SB	120500	74600	13600	63500	69800	2400	1900	2980	2440
Chromium	10 or SB	29	18.0	24.7	18.1	19.9	23.5	23.3	24.9	22.5
Cobalt	30 or SB	19.05	9.52 J	13.5 J	10.3 J	10.7 J	8 J	9.72 J	10.8 J	12.4 J
Copper	25 or SB	29.6	30.5 J	41.8 J	30.2 J	30.5 J	27.2 J	21.8 J	25.3 J	14.6 J
Iron	2000 or SB	35550	21900	29100	22500	23600	27200	25800	28700	25200
Lead	SB	21.48	13.4	20.4	14.7	15.4	12.0	10.1	11.7	9.84
Magnesium	SB	21500	13400	7150	9700	8560	3990	4230	5850	4160
Manganese	SB	1056	422	558	422	406	342	379	456	1900
Mercury		0.095	0.0238 J	0.0476 J	0.02 J	0.0192 J	0.0347 J	0.0180 J	0.0197 J	0.0556 J
Nickel	13 or SB	48.9	37.4	51.1	39.8	40.0	33.3	25.2	31.2	33.2
Potassium	SB	2343	1000	1540	971	1040	890	2300	3230	2170
Selenium	2 or SB	2	1.4 uJ	0.332 J	1.4 uJ	1.4 uJ	0.369 uJ	0.392 J	0.602 J	0.389 J
Silver	SB	0.8	0.256 J	0.272 J	0.266 J	0.188 J	0.204 J	0.185 J	0.230 J	0.283 J
Sodium	SB	170.25	207 J	75.8 J	111 J	198 J	47.3 J	159 J	94.6 J	68.1 J
Thallium	SB	0.668	1.4 R	1.4 R	1.4 R	1.4 R	1.4 R	1.5 R	1.5 R	1.4 R
Vanadium	150 or SB	31.9	15.8	23.4	15.6	16.7	25.4	30.6	33.8	30.6
Zinc	20 or SB	109.0	75.3 J	98.5 J	72.2 J	58.3 J	58.9 J	51.4 J	61.7 J	75.8 J
Polychlorinated biphenyls (µg/Kg-dry weight):										
Aroclor 1016	1000 or 10000**	90	29 u	29 u	28 u	27 u	29 u	29 u	29 u	30 u
Aroclor 1221	1000 or 10000**	90	29 u	29 u	28 u	27 u	29 u	29 u	29 u	30 u
Aroclor 1232	1000 or 10000**	90	29 u	29 u	28 u	27 u	29 u	29 u	29 u	30 u
Aroclor 1242	1000 or 10000**	90	29 u	29 u	28 u	27 u	29 u	29 u	29 u	30 u
Aroclor 1248	1000 or 10000**	90	29 u	29 u	28 u	27 u	29 u	29 u	29 u	30 u
Aroclor 1254	1000 or 10000**	176	29 u	29 u	28 u	27 u	29 u	29 u	29 u	30 u
Aroclor 1260	1000 or 10000**	176	29 u	29 u	28 u	27 u	29 u	29 u	29 u	30 u
Pesticides (µg/Kg-dry weight):										
4,4'-DDD	2900	18	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.9 u	1.9 u
4,4'-DDE	2100	18	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.9 u	1.9 u
4,4'-DDT	2100	18	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.9 u	1.9 u
Aldrin	41	9	0.91 u	0.91 u	0.88 u	0.89 u	0.92 u	0.92 u	0.94 u	0.96 u
alpha-BHC	110	9	0.91 uJ	0.91 uJ	0.88 uJ	0.89 uJ	0.92 uJ	0.92 uJ	0.94 uJ	0.96 uJ
alpha-Chlordane	540***	90	0.91 u	0.91 u	0.88 u	0.89 u	0.92 u	0.92 u	0.94 u	0.96 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-01	SEAD63-BPFL-02	SEAD63-BPFL-03	SEAD63-BPFL-04	SEAD63-BPFL-05	SEAD63-BPFL-06	SEAD63-BPFL-07	SEAD63-BPFL-08
			Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Location	NYSDEC TAGM	SEDA Background	05/11/04	05/10/04	05/11/04	05/11/04	05/11/04	05/10/04	05/10/04	05/10/04
beta-BHC	200	9	0.91 u	0.91 u	0.88 u	0.89 u	0.92 u	0.92 u	0.94 u	0.96 u
delta-BHC	300	9	0.91 uJ	0.91 uJ	0.88 uJ	0.89 uJ	0.92 uJ	0.92 uJ	0.94 uJ	0.96 uJ
Dieldrin	44	18	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.9 u	1.9 u
Endosulfan I	900	9	0.91 uJ	0.91 uJ	0.88 uJ	0.89 uJ	0.92 uJ	0.92 uJ	0.94 uJ	0.96 uJ
Endosulfan II	900	18	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.9 u	1.9 u
Endosulfan sulfate	1000	18	1.8 uJ	1.8 uJ	1.8 uJ	1.8 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.9 uJ
Endrin	100	19	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.9 u	1.9 u
Endrin aldehyde		2	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.8 u	1.9 u	1.9 u
Endrin ketone	N/A	18	1.8 uJ	1.8 uJ	1.8 uJ	1.8 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.9 uJ
gamma-BHC	60	9	0.91 u	0.91 u	0.88 u	0.89 u	0.92 u	0.92 u	0.94 u	0.96 u
gamma-Chlordane	540	90	0.91 u	0.91 u	0.88 u	0.89 u	0.92 u	0.92 u	0.94 u	0.96 u
Heptachlor	100	9	0.91 u	0.91 u	0.88 u	0.89 u	0.92 u	0.92 u	0.94 u	0.96 u
Heptachlor epoxide	20	9	0.91 u	0.91 u	0.88 u	0.89 u	0.92 u	0.92 u	0.94 u	0.96 u
Methoxychlor	Total VOCs < 10 mg/Kg	90	9.1 uJ	9.1 uJ	8.8 uJ	8.9 uJ	9.2 uJ	9.2 uJ	9.4 uJ	9.6 uJ
Technical Chlordane	540***		29 u	29 u	28 u	28 u	29 u	29 u	29 u	30 u
Toxaphene		176	29 u	29 u	28 u	28 u	29 u	29 u	29 u	30 u
Semi-Volatile Organic Compounds (µg/Kg-dry weight):										
1,2,4-Trichlorobenzene			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
1,2-Dichlorobenzene			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
1,2-Diphenylhydrazine (as Azobenzene)			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
1,3-Dichlorobenzene			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
1,4-Dichlorobenzene			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2,4,5-Trichlorophenol	100		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2,4,6-Trichlorophenol			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2,4-Dichlorophenol	400		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2,4-Dimethylphenol			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2,4-Dinitrophenol	200 or MDL		550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
2,4-Dinitrotoluene		65	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2,6-Dinitrotoluene	1000	65	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2-Chloronaphthalene			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2-Chlorophenol	800		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2-Methylnaphthalene	36400		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2-Methylphenol	100 or MDL		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
2-Nitroaniline	430 or MDL		550 uJ	580 uJ	560 uJ	550 uJ	580 uJ	590 uJ	600 uJ	610 uJ
2-Nitrophenol	330 or MDL		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
3,3'-Dichlorobenzidine	N/A		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-01	SEAD63-BPFL-02	SEAD63-BPFL-03	SEAD63-BPFL-04	SEAD63-BPFL-05	SEAD63-BPFL-06	SEAD63-BPFL-07	SEAD63-BPFL-08
			Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Location	NYSDEC TAGM	SEDA Background	05/11/04	05/10/04	05/11/04	05/11/04	05/11/04	05/10/04	05/10/04	05/10/04
3-Nitroaniline	500 or MDL		550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
4,6-Dinitro-2-methylphenol			550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
4-Bromophenyl phenyl ether			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
4-Chloro-3-methylphenol	240 or MDL		550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
4-Chloroaniline	220 or MDL		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
4-Chlorophenyl phenyl ether			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
4-Methylphenol	900		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
4-Nitroaniline			550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
4-Nitrophenol	100 or MDL		550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
Acenaphthene	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Acenaphthylene	41000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Anthracene	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Benz(a)anthracene	224 or MDL		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Benzo(a)pyrene	61 or MDL		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Benzo(b)fluoranthene	1100		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Benzo(g,h,i)perylene	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Benzo(k)fluoranthene	1100		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Benzoic acid	2700		550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
Benzyl alcohol			550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
Bis(2-chloroethoxy)methane			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Bis(2-chloroethyl)ether			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Bis(2-chloroisopropyl)ether			280 uJ	290 uJ	280 uJ	280 uJ	290 uJ	300 uJ	300 uJ	300 uJ
Bis(2-ethylhexyl)phthalate	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Butyl benzyl phthalate	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Carbazole			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Chrysene	400		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Dibenz(a,h)anthracene	14 or MDL		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Dibenzofuran	6200		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Diethyl phthalate	7100		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Dimethyl phthalate	2000		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Di-n-butyl phthalate	8100		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Di-n-octyl phthalate	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Fluoranthene	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Fluorene	50000****		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Hexachlorobenzene	410		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Hexachlorobutadiene			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Hexachlorocyclopentadiene			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Hexachloroethane			280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Indeno(1,2,3-cd)pyrene	3200		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Isophorone	4400		280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-01	SEAD63-BPFL-02	SEAD63-BPFL-03	SEAD63-BPFL-04	SEAD63-BPFL-05	SEAD63-BPFL-06	SEAD63-BPFL-07	SEAD63-BPFL-08
			Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/10/04	05/11/04	05/11/04	05/11/04	05/10/04	05/10/04	05/10/04
Naphthalene	13000	366	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Nitrobenzene	200 or MDL	368	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
N-Nitrosodi-n-propylamine		366	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
N-Nitrosodiphenylamine		366	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Pentachlorophenol	1000 or MDL	1758	550 u	580 u	560 u	550 u	580 u	590 u	600 u	610 u
Phenanthrene	50000****	368	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Phenol	30 or MDL	366	280 uJ	290 uJ	280 uJ	280 uJ	290 uJ	300 uJ	300 uJ	300 uJ
Pyrene	50000****	372	280 u	290 u	280 u	280 u	290 u	300 u	300 u	300 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry weight):										
1,1,1,2-Tetrachloroethane	600		23 uJ	24 u	23 uJ	22 u	26 uJ	27 u	28 u	30 u
1,1,1-Trichloroethane	800	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,1,2,2-Tetrachloroethane	600	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,1,2-Trichloroethane		7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,1-Dichloroethane	200	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,1-Dichloroethene	400	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,1-Dichloropropene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,2,3-Trichlorobenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,2,3-Trichloropropane	400		23 uJ	24 u	23 uJ	22 u	26 uJ	27 u	28 u	30 u
1,2,4-Trichlorobenzene	3400		23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,2,4-Trimethylbenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,2-Dibromo-3-chloropropane			120 uJ	120 u	110 uJ	110 u	130 uJ	140 u	140 u	150 uJ
1,2-Dibromoethane			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,2-Dichlorobenzene	7900		23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,2-Dichloroethane	100	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,2-Dichloropropane		7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,3,5-Trimethylbenzene		65	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,3-Dichlorobenzene	1600		23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,3-Dichloropropane	300		23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
1,4-Dichlorobenzene	8500		23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
2,2-Dichloropropane			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
2-Butanone	300	7	120 uJ	120 uJ	110 uJ	110 uJ	130 uJ	140 uJ	140 uJ	150 uJ
2-Chlorotoluene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
2-Hexanone			230 u	240 uJ	230 u	220 uJ	260 u	270 uJ	280 uJ	300 uJ
4-Chlorotoluene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
4-Isopropyltoluene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
4-Methyl-2-pentanone	1000		230 R	240 u	230 R	220 u	260 R	270 u	280 u	300 u
Acetone	200	22	120 u	120 R	110 u	110 R	130 u	140 R	140 R	150 R
Benzene	60	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Bromobenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Bromochloromethane		7	23 uJ	24 u	23 uJ	22 u	26 uJ	27 u	28 u	30 u
Bromodichloromethane			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter Location	Cleanup Goal ¹		SEAD63-BPFL-01	SEAD63-BPFL-02	SEAD63-BPFL-03	SEAD63-BPFL-04	SEAD63-BPFL-05	SEAD63-BPFL-06	SEAD63-BPFL-07	SEAD63-BPFL-08
			Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/10/04	05/11/04	05/11/04	05/11/04	05/10/04	05/10/04	05/10/04
Bromoform		7	47 u	48 u	45 u	44 u	52 u	54 u	57 u	59 u
Bromomethane			47 uJ	48 u	45 uJ	44 u	52 uJ	54 u	57 u	59 u
Carbon disulfide	2700	7	47 u	48 uJ	45 u	44 uJ	52 u	54 uJ	57 uJ	59 uJ
Carbon tetrachloride	600	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Chlorobenzene	1700	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Chloroethane	1900	7	47 u	48 u	45 u	44 u	52 u	54 u	57 u	59 u
Chloroform	300	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Chloromethane			47 u	48 u	45 u	44 u	52 u	54 u	57 u	59 u
cis-1,2-Dichloroethene		7****	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
cis-1,3-Dichloropropene		7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Dibromochloromethane	N/A	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Dibromomethane			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Dichlorodifluoromethane			47 u	48 uJ	45 u	44 uJ	52 u	54 uJ	57 uJ	59 uJ
Ethylbenzene	5500	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Freon-113	6000		23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Hexachlorobutadiene			47 R	48 u	45 R	44 u	52 R	54 u	57 u	59 u
Isopropylbenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
m,p-Xylene	1200*	7*	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Methyl tert-butyl ether		6	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Methylene chloride	100	7	47 u	48 u	45 u	44 u	52 u	54 u	30 J	59 u
Naphthalene			47 uJ	48 u	45 uJ	44 u	52 uJ	54 u	57 u	59 u
n-Butylbenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
n-Propylbenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
o-Xylene	1200*	7*	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
sec-Butylbenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Styrene		7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
tert-Butylbenzene			23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Tetrachloroethene	1400	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Toluene	1500	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
trans-1,2-Dichloroethene	300	7****	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
trans-1,3-Dichloropropene		7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Trichloroethene	700	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u
Trichlorofluoromethane			47 R	48 u	45 R	44 u	52 R	54 u	57 u	59 u
Vinyl chloride	200	7	23 u	24 u	23 u	22 u	26 u	27 u	28 u	30 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-09	SEAD63-BPFL-10	SEAD63-BPFL-11	SEAD63-BPFL-12	SEAD63-BPFL-13	SEAD63-BPFL-14	SEAD63-BPFL-15	SEAD63-BPFL-16
			Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Location	NYSDEC TAGM	SEDA Background	05/10/04	05/11/04	05/10/04	05/11/04	05/10/04	05/10/04	05/10/04	05/11/04
Inorganics (%-dry weight):										
Percent Moisture	N/A	N/A	11.5	18.3	11.8	18.4	19.1	25.2	22.1	16.8
Metals (mg/Kg-dry weight):										
Aluminum	SB	19,200	11,000	12,100	11,200	14,500	20,500	22,100	21,300	17,000
Antimony	SB	5.9	5.6 uJ	5.9 uJ	5.6 uJ	6 uJ	6.1 uJ	6.6 uJ	6.2 uJ	5.6 uJ
Arsenic	75 or SB	8.24	4.99	6.52	4.81	5.46	5.46 J	4.84 J	5.77 J	7.25 J
Barium	300 or SB	117.75	61.0	70.8	91.5	75.6	114.0	223	169	117
Beryllium	0.16 or SB	1,100	0.594 J	0.652 J	0.635 J	0.630 J	1,080	1,630	1,30	0.847
Cadmium	1 or SB	2.3	0.576 J	0.237 J	0.174 J	0.126 J	0.161 J	0.577 J	0.672 J	0.279 J
Calcium	SB	120500	59900	24200	101000	3800	2900	5230	3550	3260
Chromium	10 or SB	29	20.0	22.7	18.8	24.0	32.7	31.8	33.4	25.4
Cobalt	30 or SB	19.05	11.4 J	11.8 J	9.24 J	10.6 J	13.6 J	8.94 J	13.5 J	11.9 J
Copper	25 or SB	29.6	33.1 J	37.9 J	24.5 J	21.5 J	33.6 J	81.7 J	24.1 J	32.1 J
Iron	2000 or SB	35550	21800	26800	20900	29200	32200	31200	34100	27200
Lead	SB	21.48	13.0	17.1	11.4	22.2	17.7	13.1	17.7	10.3
Magnesium	SB	21500	12600	6200	13600	5130	5930	5650	5850	6100
Manganese	SB	1056	541	444	450	330	518	576	1430	290
Mercury		0.095	0.0214 J	0.0333 J	0.0153 J	0.0251 J	0.0418 J	0.157 J	0.0837 J	0.0360 J
Nickel	13 or SB	48.9	41.3	48.2	31.1	41.7	51.2	52.4	51.1	40.2
Potassium	SB	2343	1240	1230	2010	1030	1930	2600	2420	2230
Selenium	2 or SB	2	1.4 u	0.350 J	1.4 u	1.5 uJ	0.589 J	0.794 J	0.746 J	0.335 J
Silver	SB	0.8	0.319 J	0.219 J	0.343 J	0.338 J	0.321 J	0.368 J	0.372 J	1.9 u
Sodium	SB	170.25	109 J	155 J	186 J	69.2 J	162 J	69.9 J	58.1 J	73.8 J
Thallium	SB	0.668	1.4 R	1.5 R	1.4 R	1.5 R	1.5 R	1.7 R	1.6 R	1.4 R
Vanadium	150 or SB	31.9	20.1	21.1	21.4	25.3	31.6	31.0	34.8	27.0
Zinc	20 or SB	109.0	87.7 J	102 J	50.2 J	75.9 J	93.8 J	96.0 J	120 J	75.6 J
Polychlorinated biphenyls (µg/Kg-dry weight):										
Aroclor 1016	1000 or 10000**	90	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Aroclor 1221	1000 or 10000**	90	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Aroclor 1232	1000 or 10000**	90	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Aroclor 1242	1000 or 10000**	90	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Aroclor 1248	1000 or 10000**	90	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Aroclor 1254	1000 or 10000**	176	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Aroclor 1260	1000 or 10000**	176	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Pesticides (µg/Kg-dry weight):										
4,4'-DDD	2900	18	1.8 u	1.9 u	1.8 u	1.9 u	1.9 u	2.1 u	2 u	1.9 u
4,4'-DDE	2100	18	1.8 u	1.9 u	1.8 u	1.9 u	1.9 u	2.1 u	2 u	1.9 u
4,4'-DDT	2100	18	1.8 u	1.9 u	1.8 u	1.9 u	1.9 u	2.1 u	2 u	1.9 u
Aldrin	41	9	0.9 u	0.95 u	0.89 u	0.96 u	0.96 u	1.1 u	1 u	0.96 u
alpha-BHC	110	9	0.9 uJ	0.95 uJ	0.89 uJ	0.96 uJ	0.96 uJ	1.1 uJ	1 uJ	0.96 uJ
alpha-Chlordane	540***	90	0.9 u	0.95 u	0.89 u	0.96 u	0.96 u	1.1 u	1 u	0.96 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter Location	Cleanup Goal ¹		SEAD63-BPFL-09	SEAD63-BPFL-10	SEAD63-BPFL-11	SEAD63-BPFL-12	SEAD63-BPFL-13	SEAD63-BPFL-14	SEAD63-BPFL-15	SEAD63-BPFL-16
			Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/10/04	05/11/04	05/10/04	05/11/04	05/10/04	05/10/04	05/10/04	05/11/04
beta-BHC	200	9	0.9 u	0.95 u	0.89 u	0.96 u	0.96 u	1.1 u	1 u	0.96 u
delta-BHC	300	9	0.9 uJ	0.95 uJ	0.89 uJ	0.96 uJ	0.96 uJ	1.1 uJ	1 uJ	0.96 uJ
Dieldrin	44	18	1.8 u	1.9 u	1.8 u	1.9 u	1.9 u	2.1 u	2 u	1.9 u
Endosulfan I	900	9	0.9 uJ	0.95 uJ	0.89 uJ	0.96 uJ	0.96 uJ	1.1 uJ	1 uJ	0.96 uJ
Endosulfan II	900	18	1.8 u	1.9 u	1.8 u	1.9 u	1.9 u	2.1 u	2 u	1.9 u
Endosulfan sulfate	1000	18	1.8 uJ	1.9 uJ	1.8 uJ	1.9 uJ	1.9 uJ	2.1 uJ	2 uJ	1.9 uJ
Endrin	100	19	1.8 u	1.9 u	1.8 u	1.9 u	1.9 u	2.1 u	2 u	1.9 u
Endrin aldehyde		2	1.8 u	1.9 u	1.8 u	1.9 u	1.9 u	2.1 u	2 u	1.9 u
Endrin ketone	N/A	18	1.8 uJ	1.9 uJ	1.8 uJ	1.9 uJ	1.9 uJ	2.1 uJ	2 uJ	1.9 uJ
gamma-BHC	60	9	0.9 u	0.95 u	0.89 u	0.96 u	0.96 u	1.1 u	1 u	0.96 u
gamma-Chlordane	540	90	0.9 u	0.95 u	0.89 u	0.96 u	0.96 u	1.1 u	1 u	0.96 u
Heptachlor	100	9	0.9 u	0.95 u	0.89 u	0.96 u	0.96 u	1.1 u	1 u	0.96 u
Heptachlor epoxide	20	9	0.9 u	0.95 u	0.89 u	0.96 u	0.96 u	1.1 u	1 u	0.96 u
Methoxychlor	Total VOCs < 10 mg/Kg	90	9 uJ	9.5 uJ	8.9 uJ	9.6 uJ	9.6 uJ	11 uJ	10 uJ	9.6 uJ
Technical Chlordane	540***		28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Toxaphene		176	28 u	30 u	28 u	30 u	30 u	33 u	31 u	30 u
Semi-Volatile Organic Compounds (µg/Kg-dry weight):										
1,2,4-Trichlorobenzene			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
1,2-Dichlorobenzene			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
1,2-Diphenylhydrazine (as Azobenzene)			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
1,3-Dichlorobenzene			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
1,4-Dichlorobenzene			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2,4,5-Trichlorophenol	100		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2,4,6-Trichlorophenol			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2,4-Dichlorophenol	400		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2,4-Dimethylphenol			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2,4-Dinitrophenol	200 or MDL		540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
2,4-Dinitrotoluene		65	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2,6-Dinitrotoluene	1000	65	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2-Chloronaphthalene			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2-Chlorophenol	800		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2-Methylnaphthalene	36400		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2-Methylphenol	100 or MDL		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
2-Nitroaniline	430 or MDL		540 uJ	600 uJ	560 uJ	590 uJ	590 uJ	670 uJ	620 uJ	580 uJ
2-Nitrophenol	330 or MDL		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
3,3'-Dichlorobenzidine	N/A		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter Location	Cleanup Goal ¹		SEAD63-BPFL-09	SEAD63-BPFL-10	SEAD63-BPFL-11	SEAD63-BPFL-12	SEAD63-BPFL-13	SEAD63-BPFL-14	SEAD63-BPFL-15	SEAD63-BPFL-16
			Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/10/04	05/11/04	05/10/04	05/11/04	05/10/04	05/10/04	05/10/04	05/11/04
3-Nitroaniline	500 or MDL		540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
4,6-Dinitro-2-methylphenol			540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
4-Bromophenyl phenyl ether			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
4-Chloro-3-methylphenol	240 or MDL		540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
4-Chloroaniline	220 or MDL		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
4-Chlorophenyl phenyl ether			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
4-Methylphenol	900		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
4-Nitroaniline			540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
4-Nitrophenol	100 or MDL		540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
Acenaphthene	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Acenaphthylene	41000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Anthracene	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Benz(a)anthracene	224 or MDL		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Benzo(a)pyrene	61 or MDL		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Benzo(b)fluoranthene	1100		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Benzo(g,h,i)perylene	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Benzo(k)fluoranthene	1100		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Benzoic acid	2700		540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
Benzyl alcohol			540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
Bis(2-chloroethoxy)methane			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Bis(2-chloroethyl)ether			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Bis(2-chloroisopropyl)ether			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Bis(2-ethylhexyl)phthalate	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Butyl benzyl phthalate	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Carbazole			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Chrysene	400		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Dibenz(a,h)anthracene	14 or MDL		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Dibenzofuran	6200		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Diethyl phthalate	7100		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Dimethyl phthalate	2000		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Di-n-butyl phthalate	8100		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Di-n-octyl phthalate	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Fluoranthene	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Fluorene	50000****		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Hexachlorobenzene	410		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Hexachlorobutadiene			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Hexachlorocyclopentadiene			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Hexachloroethane			270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Indeno(1,2,3-cd)pyrene	3200		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Isophorone	4400		270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter Location	Cleanup Goal ¹		SEAD63-BPFL-09	SEAD63-BPFL-10	SEAD63-BPFL-11	SEAD63-BPFL-12	SEAD63-BPFL-13	SEAD63-BPFL-14	SEAD63-BPFL-15	SEAD63-BPFL-16
			Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/10/04	05/11/04	05/10/04	05/11/04	05/10/04	05/10/04	05/10/04	05/11/04
Naphthalene	13000	366	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Nitrobenzene	200 or MDL	368	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
N-Nitrosodi-n-propylamine		366	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
N-Nitrosodiphenylamine		366	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Pentachlorophenol	1000 or MDL	1758	540 u	600 u	560 u	590 u	590 u	670 u	620 u	580 u
Phenanthrene	50000****	368	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Phenol	30 or MDL	366	270 uJ	300 uJ	280 uJ	300 uJ	300 uJ	330 uJ	310 uJ	290 uJ
Pyrene	50000****	372	270 u	300 u	280 u	300 u	300 u	330 u	310 u	290 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry weight):										
1,1,1,2-Tetrachloroethane	600		24 u	27 uJ	28 u	27 uJ	29 u	32 u	32 u	24 uJ
1,1,1-Trichloroethane	800	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,1,2,2-Tetrachloroethane	600	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,1,2-Trichloroethane		7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,1-Dichloroethane	200	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,1-Dichloroethene	400	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,1-Dichloropropene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,2,3-Trichlorobenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,2,3-Trichloropropane	400		24 u	27 uJ	28 u	27 uJ	29 u	32 u	32 u	24 uJ
1,2,4-Trichlorobenzene	3400		24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,2,4-Trimethylbenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,2-Dibromo-3-chloropropane			120 u	130 uJ	140 u	130 uJ	140 u	160 u	160 u	120 uJ
1,2-Dibromoethane			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,2-Dichlorobenzene	7900		24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,2-Dichloroethane	100	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,2-Dichloropropane		7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,3,5-Trimethylbenzene		65	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,3-Dichlorobenzene	1600		24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,3-Dichloropropane	300		24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
1,4-Dichlorobenzene	8500		24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
2,2-Dichloropropane			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
2-Butanone	300	7	120 uJ	130 uJ	140 uJ	130 uJ	140 uJ	160 uJ	160 uJ	120 uJ
2-Chlorotoluene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
2-Hexanone			240 uJ	270 u	280 uJ	270 u	290 uJ	320 uJ	320 uJ	240 u
4-Chlorotoluene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
4-Isopropyltoluene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
4-Methyl-2-pentanone	1000		240 u	270 R	280 u	270 R	290 u	320 u	320 u	240 R
Acetone	200	22	120 R	130 u	140 R	130 u	140 R	160 R	160 R	120 u
Benzene	60	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Bromobenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Bromochloromethane		7	24 u	27 uJ	28 u	27 uJ	29 u	32 u	32 u	24 uJ
Bromodichloromethane			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter Location	Cleanup Goal ¹		SEAD63-BPFL-09	SEAD63-BPFL-10	SEAD63-BPFL-11	SEAD63-BPFL-12	SEAD63-BPFL-13	SEAD63-BPFL-14	SEAD63-BPFL-15	SEAD63-BPFL-16
			Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/10/04	05/11/04	05/10/04	05/11/04	05/10/04	05/10/04	05/10/04	05/11/04
Bromoform		7	48 u	53 u	56 u	54 u	57 u	63 u	63 u	49 u
Bromomethane			48 u	53 uJ	56 u	54 uJ	57 u	63 u	63 u	49 uJ
Carbon disulfide	2700	7	48 uJ	53 u	56 uJ	54 u	57 uJ	63 uJ	63 uJ	49 u
Carbon tetrachloride	600	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Chlorobenzene	1700	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Chloroethane	1900	7	48 u	53 u	56 u	54 u	57 u	63 u	63 u	49 u
Chloroform	300	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Chloromethane			48 u	53 u	56 u	54 u	57 u	63 u	63 u	49 u
cis-1,2-Dichloroethene		7*****	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
cis-1,3-Dichloropropene		7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Dibromochloromethane	N/A	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Dibromomethane			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Dichlorodifluoromethane			48 uJ	53 u	56 uJ	54 u	57 uJ	63 uJ	63 uJ	49 u
Ethylbenzene	5500	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Freon-113	6000		24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Hexachlorobutadiene			48 u	53 R	56 u	54 R	57 u	63 u	63 u	49 R
Isopropylbenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
m,p-Xylene	1200*	7*	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Methyl tert-butyl ether		6	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Methylene chloride	100	7	48 u	53 u	56 u	54 u	57 u	63 u	63 u	49 u
Naphthalene			48 u	53 uJ	56 u	54 uJ	57 u	63 u	63 u	49 uJ
n-Butylbenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
n-Propylbenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
o-Xylene	1200*	7*	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
sec-Butylbenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Styrene		7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
tert-Butylbenzene			24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Tetrachloroethene	1400	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Toluene	1500	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
trans-1,2-Dichloroethene	300	7*****	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
trans-1,3-Dichloropropene		7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Trichloroethene	700	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u
Trichlorofluoromethane			48 u	53 R	56 u	54 R	57 u	63 u	63 u	49 R
Vinyl chloride	200	7	24 u	27 u	28 u	27 u	29 u	32 u	32 u	24 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-17	SEAD63-BPFL-18	SEAD63-BPFL-19	SEAD63-BPFL-20	SEAD63-BPFL-21	SEAD63-BPFL-22	SEAD63-BPFL-23	SEAD63-BPFL-24
			Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Location	Cleanup Goal ¹		Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04
Inorganics (%-dry weight):										
Percent Moisture	N/A	N/A	17.6	16.7	28.8	16.1	20.8	18.8	16.1	13.5
Metals (mg/Kg-dry weight):										
Aluminum	SB	19,200	11,000	13,300	19,500	16,200	18,600	17,300	12,200	13,400
Antimony	SB	5.9	5.6 uJ	5.5 uJ	6.8 uJ	5.9 uJ	6 uJ	5.8 uJ	5.7 uJ	5.6 uJ
Arsenic	75 or SB	8.24	4.68	5.34 J	4.78 J	5.91	5.88 J	7.43 J	11.2 J	5.9 J
Barium	300 or SB	117.75	71.7	82.8	146	124.0	126.0	105.0	111.0	85.8
Beryllium	0.16 or SB	1.100	0.621 J	0.767 J	0.924 J	0.776 J	1.020 J	0.848 J	0.931 J	0.708 J
Cadmium	1 or SB	2.3	0.225 J	0.330 J	0.454 J	0.276 J	0.394 J	0.270 J	0.552 J	0.329 J
Calcium	SB	120500	27200 J	65400 J	4950 J	2330 J	3250 J	1990 J	2460	29200 J
Chromium	10 or SB	29	19.8	23.0	26.8	23.3	34.7	31.8	26.1	23.2
Cobalt	30 or SB	19.05	9.11	12.3	9.44	10	19.8	12	19.2	12
Copper	25 or SB	29.6	31.6	36.4	27.1	23.1	47.2	40.3	26.4	35.7
Iron	2000 or SB	35550	23300	28300	30900	27400	39300	38600	39500	28600
Lead	SB	21.48	12.1	16.2	19	9.45	26.1	23.8	56.7	16.6
Magnesium	SB	21500	6390	11400	4140	4570	7630	59900	3890	6430
Manganese	SB	1056	257 J	383 J	277 J	498 J	590 J	323 J	1330 J	590
Mercury		0.095	0.0321 J	0.0237 J	0.0543 J	0.0272 J	0.0232 J	0.0565 J	0.0777	0.0384 J
Nickel	13 or SB	48.9	37.4	43.3	30.8	28.9	70.7	50.6	46.8	47.7
Potassium	SB	2343	1290	1300	1830	1870	1650	1700	2240	1490
Selenium	2 or SB	2	0.336 J	1.4 u	0.513 J	0.521 J	1.5 uJ	1.5 uJ	0.41 J	1.4 uJ
Silver	SB	0.8	0.150 J	0.242 J	0.281 J	2.1 u	0.391 J	0.287 J	0.195 J	0.197 J
Sodium	SB	170.25	56.7 J	98.0 J	47.7 J	65.9 J	47.9 J	42.1 J	36 J	72.5 J
Thallium	SB	0.668	1.4 uJ	1.4 R	1.7 R	1.5 uJ	1.5 uJ	1.5 uJ	1.4 uJ	1.4 R
Vanadium	150 or SB	31.9	18.1	21.2	32.0	29.3	27.1	28.1	28.6	21.9
Zinc	20 or SB	109.0	79.6	82.0	106	57.7	115.0	114.0	72.4	91.2
Polychlorinated biphenyls (µg/Kg-dry weight):										
Aroclor 1016	1000 or 10000**	90	30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Aroclor 1221	1000 or 10000**	90	30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Aroclor 1232	1000 or 10000**	90	30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Aroclor 1242	1000 or 10000**	90	30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Aroclor 1248	1000 or 10000**	90	30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Aroclor 1254	1000 or 10000**	176	30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Aroclor 1260	1000 or 10000**	176	30 u	30 u	35 u	30 uJ	32 uJ	30 uJ	30 uJ	28 uJ
Pesticides (µg/Kg-dry weight):										
4,4'-DDD	2900	18	1.9 u	1.9 u	2.2 u	1.9 u	2 u	1.9 u	1.9 u	1.8 u
4,4'-DDE	2100	18	1.9 u	1.9 u	2.2 u	1.9 u	2 u	1.9 u	1.9 u	1.8 u
4,4'-DDT	2100	18	1.9 u	1.9 u	2.2 u	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.8 uJ
Aldrin	41	9	0.97 u	0.96 u	1.1 u	0.95 u	1 u	0.97 u	0.95 u	0.91 u
alpha-BHC	110	9	0.97 uJ	0.96 uJ	1.1 uJ	0.95 u	1 u	0.97 u	0.95 u	0.91 u
alpha-Chlordane	540***	90	0.97 u	0.96 u	1.1 u	0.95 u	1 u	0.97 u	0.95 u	0.91 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹	SEAD63-BPFL-17	SEAD63-BPFL-18	SEAD63-BPFL-19	SEAD63-BPFL-20	SEAD63-BPFL-21	SEAD63-BPFL-22	SEAD63-BPFL-23	SEAD63-BPFL-24	
		Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04
beta-BHC	200	9	0.97 u	0.96 u	1.1 u	0.95 u	1 u	0.97 u	0.95 u	0.91 u
delta-BHC	300	9	0.97 uJ	0.96 uJ	1.1 uJ	0.95 uJ	1 uJ	0.97 uJ	0.95 uJ	0.91 uJ
Dieldrin	44	18	1.9 u	1.9 u	2.2 u	1.9 u	2 u	1.9 u	1.9 u	1.8 u
Endosulfan I	900	9	0.97 uJ	0.96 uJ	1.1 uJ	0.95 u	1 u	0.97 u	0.95 u	0.91 u
Endosulfan II	900	18	1.9 u	1.9 u	2.2 u	1.9 u	2 u	1.9 u	1.9 u	1.8 u
Endosulfan sulfate	1000	18	1.9 uJ	1.9 uJ	2.2 uJ	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.8 uJ
Endrin	100	19	1.9 u	1.9 u	2.2 u	1.9 u	2 u	1.9 u	1.9 u	1.8 u
Endrin aldehyde		2	1.9 u	1.9 u	2.2 u	1.9 u	2 u	1.9 u	1.9 u	1.8 u
Endrin ketone	N/A	18	1.9 uJ	1.9 uJ	2.2 uJ	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.8 uJ
gamma-BHC	60	9	0.97 u	0.96 u	1.1 u	0.95 u	1 u	0.97 u	0.95 u	0.91 u
gamma-Chlordane	540	90	0.97 u	0.96 u	1.1 u	0.95 u	1 u	0.97 u	0.95 u	0.91 u
Heptachlor	100	9	0.97 u	0.96 u	1.1 u	0.95 u	1 u	0.97 u	0.95 u	0.91 u
Heptachlor epoxide	20	9	0.97 u	0.96 u	1.1 u	0.95 u	1 u	0.97 u	0.95 u	0.91 u
Methoxychlor	Total VOCs < 10 mg/Kg	90	9.7 uJ	9.6 uJ	11 uJ	9.5 u	10 u	9.7 u	9.5 u	9.1 u
Technical Chlordane	540***		30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Toxaphene		176	30 u	30 u	35 u	30 u	32 u	30 u	30 u	28 u
Semi-Volatile Organic Compounds (µg/Kg-dry weight):										
1,2,4-Trichlorobenzene			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
1,2-Dichlorobenzene			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
1,2-Diphenylhydrazine (as Azobenzene)			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
1,3-Dichlorobenzene			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
1,4-Dichlorobenzene			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2,4,5-Trichlorophenol	100		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2,4,6-Trichlorophenol			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2,4-Dichlorophenol	400		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2,4-Dimethylphenol			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2,4-Dinitrophenol	200 or MDL		600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
2,4-Dinitrotoluene		65	300 u	300 u	340 u	290 uJ	310 uJ	310 uJ	280 uJ	280 u
2,6-Dinitrotoluene	1000	65	300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2-Chloronaphthalene			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2-Chlorophenol	800		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2-Methylnaphthalene	36400		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2-Methylphenol	100 or MDL		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
2-Nitroaniline	430 or MDL		600 uJ	590 uJ	690 uJ	580 uJ	610 uJ	610 uJ	570 uJ	570 u
2-Nitrophenol	330 or MDL		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
3,3'-Dichlorobenzidine	N/A		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹	SEAD63-BPFL-17	SEAD63-BPFL-18	SEAD63-BPFL-19	SEAD63-BPFL-20	SEAD63-BPFL-21	SEAD63-BPFL-22	SEAD63-BPFL-23	SEAD63-BPFL-24	
		Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	
3-Nitroaniline	500 or MDL		600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
4,6-Dinitro-2-methylphenol			600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
4-Bromophenyl phenyl ether			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
4-Chloro-3-methylphenol	240 or MDL		600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
4-Chloroaniline	220 or MDL		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
4-Chlorophenyl phenyl ether			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
4-Methylphenol	900		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
4-Nitroaniline			600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
4-Nitrophenol	100 or MDL		600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
Acenaphthene	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Acenaphthylene	41000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Anthracene	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Benzo(a)anthracene	224 or MDL		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Benzo(a)pyrene	61 or MDL		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Benzo(b)fluoranthene	1100		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Benzo(g,h,i)perylene	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Benzo(k)fluoranthene	1100		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Benzoic acid	2700		600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
Benzyl alcohol			600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
Bis(2-chloroethoxy)methane			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Bis(2-chloroethyl)ether			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Bis(2-chloroisopropyl)ether			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Bis(2-ethylhexyl)phthalate	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Butyl benzyl phthalate	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Carbazole			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Chrysene	400		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Dibenz(a,h)anthracene	14 or MDL		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Dibenzofuran	6200		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Diethyl phthalate	7100		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Dimethyl phthalate	2000		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Di-n-butyl phthalate	8100		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Di-n-octyl phthalate	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Fluoranthene	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Fluorene	50000****		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Hexachlorobenzene	410		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Hexachlorobutadiene			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Hexachlorocyclopentadiene			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Hexachloroethane			300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Indeno(1,2,3-cd)pyrene	3200		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Isophorone	4400		300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹	SEAD63-BPFL-17	SEAD63-BPFL-18	SEAD63-BPFL-19	SEAD63-BPFL-20	SEAD63-BPFL-21	SEAD63-BPFL-22	SEAD63-BPFL-23	SEAD63-BPFL-24	
		Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04
Naphthalene	13000	366	300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Nitrobenzene	200 or MDL	368	300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
N-Nitrosodi-n-propylamine		366	300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
N-Nitrosodiphenylamine		366	300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Pentachlorophenol	1000 or MDL	1758	600 u	590 u	690 u	580 u	610 u	610 u	570 u	570 u
Phenanthrene	50000****	368	300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Phenol	30 or MDL	366	300 uJ	300 uJ	340 uJ	290 u	310 u	310 u	280 u	280 u
Pyrene	50000****	372	300 u	300 u	340 u	290 u	310 u	310 u	280 u	280 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry weight):										
1,1,1,2-Tetrachloroethane	600		25 uJ	27 uJ	36 uJ	25 uJ	28 uJ	29 uJ	29 uJ	25 u
1,1,1-Trichloroethane	800	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,1,2,2-Tetrachloroethane	600	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,1,2-Trichloroethane		7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,1-Dichloroethane	200	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,1-Dichloroethene	400	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,1-Dichloropropene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,2,3-Trichlorobenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,2,3-Trichloropropane	400		25 uJ	27 uJ	36 uJ	25 uJ	28 uJ	29 uJ	29 uJ	25 u
1,2,4-Trichlorobenzene	3400		25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,2,4-Trimethylbenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,2-Dibromo-3-chloropropane			120 uJ	140 uJ	180 uJ	130 uJ	140 uJ	140 uJ	140 uJ	130 u
1,2-Dibromoethane			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,2-Dichlorobenzene	7900		25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,2-Dichloroethane	100	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,2-Dichloropropane		7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,3,5-Trimethylbenzene		65	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,3-Dichlorobenzene	1600		25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,3-Dichloropropane	300		25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
1,4-Dichlorobenzene	8500		25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
2,2-Dichloropropane			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
2-Butanone	300	7	120 uJ	140 uJ	180 uJ	130 uJ	140 uJ	140 uJ	140 uJ	130 u
2-Chlorotoluene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
2-Hexanone			250 u	270 u	360 u	250 u	280 u	290 u	290 u	250 u
4-Chlorotoluene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
4-Isopropyltoluene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
4-Methyl-2-pentanone	1000		250 R	270 R	360 R	250 R	280 R	290 R	290 R	250 u
Acetone	200	22	120 u	140 u	180 u	130 u	140 u	140 u	140 u	130 R
Benzene	60	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Bromobenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Bromochloromethane		7	25 uJ	27 uJ	36 uJ	25 uJ	28 uJ	29 uJ	29 uJ	25 u
Bromodichloromethane			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹	SEDA Background	SEAD63-BPFL-17	SEAD63-BPFL-18	SEAD63-BPFL-19	SEAD63-BPFL-20	SEAD63-BPFL-21	SEAD63-BPFL-22	SEAD63-BPFL-23	SEAD63-BPFL-24
			Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04	05/11/04
Bromoform		7	50 u	54 u	72 u	50 u	56 u	57 u	58 u	51 u
Bromomethane			50 uJ	54 uJ	72 uJ	50 uJ	56 uJ	57 uJ	58 uJ	51 u
Carbon disulfide	2700	7	50 u	54 u	72 u	50 u	56 u	57 u	58 u	51 uJ
Carbon tetrachloride	600	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Chlorobenzene	1700	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Chloroethane	1900	7	50 u	54 u	72 u	50 u	56 u	57 u	58 u	51 u
Chloroform	300	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Chloromethane			50 u	54 u	72 u	50 u	56 u	57 u	58 u	51 u
cis-1,2-Dichloroethene		7*****	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
cis-1,3-Dichloropropene		7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Dibromochloromethane	N/A	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Dibromomethane			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Dichlorodifluoromethane			50 u	54 u	72 u	50 u	56 u	57 u	58 u	51 uJ
Ethylbenzene	5500	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Freon-113	6000		25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Hexachlorobutadiene			50 R	54 R	72 R	50 R	56 R	57 R	58 R	51 u
Isopropylbenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
m,p-Xylene	1200*	7*	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Methyl tert-butyl ether		6	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Methylene chloride	100	7	50 u	54 u	72 u	50 u	56 u	57 u	58 u	51 u
Naphthalene			50 uJ	54 uJ	72 uJ	50 uJ	56 uJ	57 uJ	58 uJ	51 uJ
n-Butylbenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
n-Propylbenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
o-Xylene	1200*	7*	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
sec-Butylbenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Styrene		7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
tert-Butylbenzene			25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Tetrachloroethene	1400	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Toluene	1500	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
trans-1,2-Dichloroethene	300	7*****	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
trans-1,3-Dichloropropene		7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Trichloroethene	700	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u
Trichlorofluoromethane			50 R	54 R	72 R	50 R	56 R	57 R	58 R	51 u
Vinyl chloride	200	7	25 u	27 u	36 u	25 u	28 u	29 u	29 u	25 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-25	SEAD63-BPFL-26	SEAD63-BPFL-27	SEAD63-BPFL-28	SEAD63-BPFL-29
			Sidewall	Floor	Floor	Floor	Floor
Location	Cleanup Goal ¹		SEAD63-BPFL-25	SEAD63-BPFL-26	SEAD63-BPFL-27	SEAD63-BPFL-28	SEAD63-BPFL-29
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/12/04	05/12/04	05/12/04	05/12/04
Inorganics (%-dry weight):							
Percent Moisture	N/A	N/A	14.7	14.8	19	18.1	21.5
Metals (mg/Kg-dry weight):							
Aluminum	SB	19,200	16,600	14,800	14,600	13,500	14,500
Antimony	SB	5.9	5.4 uJ	5.8 uJ	5.8 uJ	6 uJ	5.9 uJ
Arsenic	75 or SB	8.24	5.14 J	6.27 J	7.87 J	2.7 J	5.3 J
Barium	300 or SB	117.75	99.3	93.5	118.0	98.4	98.5
Beryllium	0.16 or SB	1.100	0.820 J	0.768 J	0.710 J	0.648 J	0.784 J
Cadmium	1 or SB	2.3	0.680 u	0.123 J	0.730 u	0.750 u	0.186 J
Calcium	SB	120500	2130 J	7320 J	3070 J	2710 J	4900 J
Chromium	10 or SB	29	23.0	25.4	21.9	25.5	22.4
Cobalt	30 or SB	19.05	8.2	13.4	12.5	9.61	11.5
Copper	25 or SB	29.6	25.2	33.1	29.1	31.8	28.6
Iron	2000 or SB	35550	25000	31400	29600	25700	26100
Lead	SB	21.48	9.72	19.1	12.3	12.2	19.1
Magnesium	SB	21500	4850	6030	5810	5410	5330
Manganese	SB	1056	265 J	556 J	843 J	300	569 J
Mercury		0.095	0.0323 J	0.03 J	0.0282 J	0.0329 J	0.0453 J
Nickel	13 or SB	48.9	27.3	44.1	40.1	46.0	36.6
Potassium	SB	2343	1710	1680	2060	1650	1600
Selenium	2 or SB	2	1.4 uJ	0.336 J	0.346 J	0.452 J	0.35 J
Silver	SB	0.8	1.9 u	2 u	2 u	2.1 u	2.1 u
Sodium	SB	170.25	85.8 J	75.2 J	96.3 J	68.9 J	71.2 J
Thallium	SB	0.668	1.4 uJ	1.4 uJ	1.5 uJ	1.5 uJ	1.5 R
Vanadium	150 or SB	31.9	27.1	26.2	27.6	20.3	24.8
Zinc	20 or SB	109.0	64.3	86.3	68.8	88.3	83.6
Polychlorinated biphenyls (µg/Kg-dry weight):							
Aroclor 1016	1000 or 10000**	90	29 u	29 u	30 u	30 u	32 u
Aroclor 1221	1000 or 10000**	90	29 u	29 u	30 u	30 u	32 u
Aroclor 1232	1000 or 10000**	90	29 u	29 u	30 u	30 u	32 u
Aroclor 1242	1000 or 10000**	90	29 u	29 u	30 u	30 u	32 u
Aroclor 1248	1000 or 10000**	90	29 u	29 u	30 u	30 u	32 u
Aroclor 1254	1000 or 10000**	176	29 u	29 u	30 u	30 u	32 u
Aroclor 1260	1000 or 10000**	176	29 uJ	29 uJ	30 uJ	30 uJ	32 uJ
Pesticides (µg/Kg-dry weight):							
4,4'-DDD	2900	18	1.8 u	1.9 u	1.9 u	1.9 u	2 u
4,4'-DDE	2100	18	1.8 u	1.9 u	1.9 u	1.9 u	2 u
4,4'-DDT	2100	18	1.8 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ
Aldrin	41	9	0.92 u	0.94 u	0.96 u	0.97 u	1 u
alpha-BHC	110	9	0.92 u	0.94 u	0.96 u	0.97 u	1 u
alpha-Chlordane	540***	90	0.92 u	0.94 u	0.96 u	0.97 u	1 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹	SEDA	SEAD63-BPFL-25	SEAD63-BPFL-26	SEAD63-BPFL-27	SEAD63-BPFL-28	SEAD63-BPFL-29
			Sidewall	Floor	Floor	Floor	Floor
Date	NYSDEC TAGM	Background	05/11/04	05/12/04	05/12/04	05/12/04	05/12/04
beta-BHC	200	9	0.92 u	0.94 u	0.96 u	0.97 u	1 u
delta-BHC	300	9	0.92 uJ	0.94 uJ	0.96 uJ	0.97 uJ	1 uJ
Dieldrin	44	18	1.8 u	1.9 u	1.9 u	1.9 u	2 u
Endosulfan I	900	9	0.92 u	0.94 u	0.96 u	0.97 u	1 u
Endosulfan II	900	18	1.8 u	1.9 u	1.9 u	1.9 u	2 u
Endosulfan sulfate	1000	18	1.8 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ
Endrin	100	19	1.8 u	1.9 u	1.9 u	1.9 u	2 u
Endrin aldehyde		2	1.8 u	1.9 u	1.9 u	1.9 u	2 u
Endrin ketone	N/A	18	1.8 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ
gamma-BHC	60	9	0.92 u	0.94 u	0.96 u	0.97 u	1 u
gamma-Chlordane	540	90	0.92 u	0.94 u	0.96 u	0.97 u	1 u
Heptachlor	100	9	0.92 u	0.94 u	0.96 u	0.97 u	1 u
Heptachlor epoxide	20	9	0.92 u	0.94 u	0.96 u	0.97 u	1 u
Methoxychlor	Total VOCs < 10 mg/Kg	90	9.2 u	9.4 u	9.6 u	9.7 u	10 u
Technical Chlordane	540***		29 u	29 u	30 u	30 u	32 u
Toxaphene		176	29 u	29 u	30 u	30 u	32 u
Semi-Volatile Organic Compounds (µg/Kg-dry weight):							
1,2,4-Trichlorobenzene			290 u	290 u	300 u	300 u	310 u
1,2-Dichlorobenzene			290 u	290 u	300 u	300 u	310 u
1,2-Diphenylhydrazine (as Azobenzene)			290 u	290 u	300 u	300 u	310 u
1,3-Dichlorobenzene			290 u	290 u	300 u	300 u	310 u
1,4-Dichlorobenzene			290 u	290 u	300 u	300 u	310 u
2,4,5-Trichlorophenol	100		290 u	290 u	300 u	300 u	310 u
2,4,6-Trichlorophenol			290 u	290 u	300 u	300 u	310 u
2,4-Dichlorophenol	400		290 u	290 u	300 u	300 u	310 u
2,4-Dimethylphenol			290 u	290 u	300 u	300 u	310 u
2,4-Dinitrophenol	200 or MDL		580 u	570 u	610 u	600 u	620 u
2,4-Dinitrotoluene		65	290 u	290 u	300 u	300 u	310 u
2,6-Dinitrotoluene	1000	65	290 u	290 u	300 u	300 u	310 u
2-Chloronaphthalene			290 u	290 u	300 u	300 u	310 u
2-Chlorophenol	800		290 u	290 u	300 u	300 u	310 u
2-Methylnaphthalene	36400		290 u	290 u	300 u	300 u	310 u
2-Methylphenol	100 or MDL		290 u	290 u	300 u	300 u	310 u
2-Nitroaniline	430 or MDL		580 u	570 u	610 u	600 u	620 u
2-Nitrophenol	330 or MDL		290 u	290 u	300 u	300 u	310 u
3,3'-Dichlorobenzidine	N/A		290 u	290 u	300 u	300 u	310 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-25	SEAD63-BPFL-26	SEAD63-BPFL-27	SEAD63-BPFL-28	SEAD63-BPFL-29
			Sidewall	Floor	Floor	Floor	Floor
Location	Cleanup Goal ¹						
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/12/04	05/12/04	05/12/04	05/12/04
3-Nitroaniline	500 or MDL		580 u	570 u	610 u	600 u	620 u
4,6-Dinitro-2-methylphenol			580 u	570 u	610 u	600 u	620 u
4-Bromophenyl phenyl ether			290 u	290 u	300 u	300 u	310 u
4-Chloro-3-methylphenol	240 or MDL		580 u	570 u	610 u	600 u	620 u
4-Chloroaniline	220 or MDL		290 u	290 u	300 u	300 u	310 u
4-Chlorophenyl phenyl ether			290 u	290 u	300 u	300 u	310 u
4-Methylphenol	900		290 u	290 u	300 u	300 u	310 u
4-Nitroaniline			580 u	570 u	610 u	600 u	620 u
4-Nitrophenol	100 or MDL		580 u	570 u	610 u	600 u	620 u
Acenaphthene	50000****		290 u	290 u	300 u	300 u	310 u
Acenaphthylene	41000****		290 u	290 u	300 u	300 u	310 u
Anthracene	50000****		290 u	290 u	300 u	300 u	310 u
Benz(a)anthracene	224 or MDL		290 u	290 u	300 u	300 u	310 u
Benzo(a)pyrene	61 or MDL		290 u	290 u	300 u	300 u	310 u
Benzo(b)fluoranthene	1100		290 u	290 u	300 u	300 u	310 u
Benzo(g,h,i)perylene	50000****		290 u	290 u	300 u	300 u	310 u
Benzo(k)fluoranthene	1100		290 u	290 u	300 u	300 u	310 u
Benzoic acid	2700		580 u	570 u	610 u	600 u	620 u
Benzyl alcohol			580 u	570 u	610 u	600 u	620 u
Bis(2-chloroethoxy)methane			290 u	290 u	300 u	300 u	310 u
Bis(2-chloroethyl)ether			290 u	290 u	300 u	300 u	310 u
Bis(2-chloroisopropyl)ether			290 uJ	290 uJ	300 uJ	300 uJ	310 uJ
Bis(2-ethylhexyl)phthalate	50000****		60 J	290 u	300 u	300 u	310 u
Butyl benzyl phthalate	50000****		290 u	290 u	300 u	300 u	310 u
Carbazole			290 u	290 u	300 u	300 u	310 u
Chrysene	400		290 u	290 u	300 u	300 u	310 u
Dibenz(a,h)anthracene	14 or MDL		290 u	290 u	300 u	300 u	310 u
Dibenzofuran	6200		290 u	290 u	300 u	300 u	310 u
Diethyl phthalate	7100		290 u	290 u	300 u	300 u	310 u
Dimethyl phthalate	2000		290 u	290 u	300 u	300 u	310 u
Di-n-butyl phthalate	8100		290 u	290 u	300 u	300 u	310 u
Di-n-octyl phthalate	50000****		290 u	290 u	300 u	300 u	310 u
Fluoranthene	50000****		290 u	290 u	300 u	300 u	310 u
Fluorene	50000****		290 u	290 u	300 u	300 u	310 u
Hexachlorobenzene	410		290 u	290 u	300 u	300 u	310 u
Hexachlorobutadiene			290 u	290 u	300 u	300 u	310 u
Hexachlorocyclopentadiene			290 u	290 u	300 u	300 u	310 u
Hexachloroethane			290 u	290 u	300 u	300 u	310 u
Indeno(1,2,3-cd)pyrene	3200		290 u	290 u	300 u	300 u	310 u
Isophorone	4400		290 u	290 u	300 u	300 u	310 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter	Cleanup Goal ¹		SEAD63-BPFL-25	SEAD63-BPFL-26	SEAD63-BPFL-27	SEAD63-BPFL-28	SEAD63-BPFL-29
			Sidewall	Floor	Floor	Floor	Floor
Location	Cleanup Goal ¹		SEAD63-BPFL-25	SEAD63-BPFL-26	SEAD63-BPFL-27	SEAD63-BPFL-28	SEAD63-BPFL-29
Date	NYSDEC TAGM	SEDA Background	05/11/04	05/12/04	05/12/04	05/12/04	05/12/04
Naphthalene	13000	366	290 u	290 u	300 u	300 u	310 u
Nitrobenzene	200 or MDL	368	290 u	290 u	300 u	300 u	310 u
N-Nitrosodi-n-propylamine		366	290 u	290 u	300 u	300 u	310 u
N-Nitrosodiphenylamine		366	290 u	290 u	300 u	300 u	310 u
Pentachlorophenol	1000 or MDL	1758	580 u	570 u	610 u	600 u	620 u
Phenanthrene	50000****	368	290 u	290 u	300 u	300 u	310 u
Phenol	30 or MDL	366	290 u	290 u	300 u	300 u	310 u
Pyrene	50000****	372	290 u	290 u	300 u	300 u	310 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry weight):							
1,1,1,2-Tetrachloroethane	600		25 u	28 u	27 u	25 u	32 u
1,1,1-Trichloroethane	800	7	25 u	28 u	27 u	25 u	32 u
1,1,2,2-Tetrachloroethane	600	7	25 u	28 u	27 u	25 u	32 u
1,1,2-Trichloroethane		7	25 u	28 u	27 u	25 u	32 u
1,1-Dichloroethane	200	7	25 u	28 u	27 u	25 u	32 u
1,1-Dichloroethene	400	7	25 u	28 u	27 u	25 u	32 u
1,1-Dichloropropene			25 u	28 u	27 u	25 u	32 u
1,2,3-Trichlorobenzene			25 u	28 u	27 u	25 u	32 u
1,2,3-Trichloropropane	400		25 u	28 u	27 u	25 u	32 u
1,2,4-Trichlorobenzene	3400		25 u	28 u	27 u	25 u	32 u
1,2,4-Trimethylbenzene			25 u	28 u	27 u	25 u	32 u
1,2-Dibromo-3-chloropropane			120 u	140 u	130 u	120 u	160 u
1,2-Dibromoethane			25 u	28 u	27 u	25 u	32 u
1,2-Dichlorobenzene	7900		25 u	28 u	27 u	25 u	32 u
1,2-Dichloroethane	100	7	25 u	28 u	27 u	25 u	32 u
1,2-Dichloropropane		7	25 u	28 u	27 u	25 u	32 u
1,3,5-Trimethylbenzene		65	25 u	28 u	27 u	25 u	32 u
1,3-Dichlorobenzene	1600		25 u	28 u	27 u	25 u	32 u
1,3-Dichloropropane	300		25 u	28 u	27 u	25 u	32 u
1,4-Dichlorobenzene	8500		25 u	28 u	27 u	25 u	32 u
2,2-Dichloropropane			25 u	28 u	27 u	25 u	32 u
2-Butanone	300	7	120 u	140 u	130 u	120 u	160 u
2-Chlorotoluene			25 u	28 u	27 u	25 u	32 u
2-Hexanone			250 u	280 u	270 u	250 u	320 u
4-Chlorotoluene			25 u	28 u	27 u	25 u	32 u
4-Isopropyltoluene			25 u	28 u	27 u	25 u	32 u
4-Methyl-2-pentanone	1000		250 u	280 u	270 u	250 u	320 u
Acetone	200	22	120 R	140 R	130 R	120 R	160 R
Benzene	60	7	25 u	28 u	27 u	25 u	32 u
Bromobenzene			25 u	28 u	27 u	25 u	32 u
Bromochloromethane		7	25 u	28 u	27 u	25 u	32 u
Bromodichloromethane			25 u	28 u	27 u	25 u	32 u

Table C.4.3
Laboratory Results for Soil Samples, Final Limits of Burial Pits Excavation - All Data

Parameter Location	Cleanup Goal ¹		SEAD63-BPFL-25	SEAD63-BPFL-26	SEAD63-BPFL-27	SEAD63-BPFL-28	SEAD63-BPFL-29
	NYSDEC TAGM	SEDA Background	Sidewall	Floor	Floor	Floor	Floor
Date			05/11/04	05/12/04	05/12/04	05/12/04	05/12/04
Bromoform		7	49 u	57 u	54 u	49 u	64 u
Bromomethane			49 u	57 u	54 u	49 u	64 u
Carbon disulfide	2700	7	49 uJ	57 uJ	54 uJ	49 uJ	64 uJ
Carbon tetrachloride	600	7	25 u	28 u	27 u	25 u	32 u
Chlorobenzene	1700	7	25 u	28 u	27 u	25 u	32 u
Chloroethane	1900	7	49 u	57 u	54 u	49 u	64 u
Chloroform	300	7	25 u	28 u	27 u	25 u	32 u
Chloromethane			49 u	57 u	54 u	49 u	64 u
cis-1,2-Dichloroethene		7*****	25 u	28 u	27 u	25 u	32 u
cis-1,3-Dichloropropene		7	25 u	28 u	27 u	25 u	32 u
Dibromochloromethane	N/A	7	25 u	28 u	27 u	25 u	32 u
Dibromomethane			25 u	28 u	27 u	25 u	32 u
Dichlorodifluoromethane			49 uJ	57 uJ	54 uJ	49 uJ	64 uJ
Ethylbenzene	5500	7	25 u	28 u	27 u	25 u	32 u
Freon-113	6000		25 u	28 u	27 u	25 u	32 u
Hexachlorobutadiene			49 u	57 u	54 u	49 u	64 u
Isopropylbenzene			25 u	28 u	27 u	25 u	32 u
m,p-Xylene	1200*	7*	25 u	28 u	27 u	25 u	32 u
Methyl tert-butyl ether		6	25 u	28 u	27 u	25 u	32 u
Methylene chloride	100	7	49 u	57 u	54 u	49 u	64 u
Naphthalene			49 uJ	57 uJ	54 uJ	49 uJ	64 uJ
n-Butylbenzene			25 u	28 u	27 u	25 u	32 u
n-Propylbenzene			25 u	28 u	27 u	25 u	32 u
o-Xylene	1200*	7*	25 u	28 u	27 u	25 u	32 u
sec-Butylbenzene			25 u	28 u	27 u	25 u	32 u
Styrene		7	25 u	28 u	27 u	25 u	32 u
tert-Butylbenzene			25 u	28 u	27 u	25 u	32 u
Tetrachloroethene	1400	7	25 u	28 u	27 u	25 u	32 u
Toluene	1500	7	25 u	28 u	27 u	25 u	32 u
trans-1,2-Dichloroethene	300	7*****	25 u	28 u	27 u	25 u	32 u
trans-1,3-Dichloropropene		7	25 u	28 u	27 u	25 u	32 u
Trichloroethene	700	7	25 u	28 u	27 u	25 u	32 u
Trichlorofluoromethane			49 u	57 u	54 u	49 u	64 u
Vinyl chloride	200	7	25 u	28 u	27 u	25 u	32 u

NOTES:

5.80 - Blue-colored value indicates exceedance of the higher of New York State Department of Environmental Conservation (NYSDEC) TAGM soil cleanup goal or Seneca Army Depot Activity (SEDA) background

1.4 - Gray-shading indicates Practical Quantitation Limit (PQL) exceeds cleanup goal

* NYSDEC TAGM soil cleanup goal for total (m,p,o)-Xylenes is 1,200 µg/Kg

** 1,000 µg/Kg for surface soil, 10,000 µg/Kg for subsurface soil

*** NYSDEC TAGM soil cleanup goal for total Chlordane is 540 µg/Kg

**** Value indicated, and total SVOCs <500,000 µg/Kg

***** Value for total 1,2-dicchloroethenes

"**MDL**" means Minimum Detection Limit

"**TAGM**" means Technical and Administrative Guidance Memorandum #4046 - Determination of Soil Cleanup Objectives and Cleanup Goals (NYSDEC)

"**µg/Kg**" means micrograms/Kilogram

"**mg/Kg**" means milligrams/Kilogram

"**SB**" means Site Background

"**N/A**" means Not Applicable (NYSDEC TAGM criterion)

"**J**" is a Quality Control (QC) qualifier indicating detection below PQL

"**u**" is a QC qualifier indicating the compound was Not Detected, or ND, at or above the MDL

"**R**" is a QC qualifier tagged by the Data Validator indicating a Relative Percent Difference (RPD) outside accepted recovery limits

Table C.5.1
Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedances of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Inorganics (%-dry weight):										
Percent Moisture	N/A	N/A	43	N/A	19.2	37.9	17.8	21.4	18.9	37.9
Metals (mg/Kg-dry weight):										
Aluminum	SB	19,200	43	0	11602	16800	13672	17100	11816	17,100
Antimony	SB	5.9	43	20	6.1	11	6	6	6	10.5
Arsenic	75 or SB	8.24	43	2	5.7	14	6	7	5	9
Barium	300 or SB	117.75	43	1	71.4	204	77	91	71	204
Beryllium	0.16 or SB	1.1	43	0	0.6	1.0	0.7	1.0	0.6	1.0
Cadmium	1 or SB	2.3	43	0	0.2	1.3	0.2	0.3	0.2	1.3
Calcium	SB	120500	43	2	31632	217000	8858	15000	29017	217,000
Chromium	10 or SB	29,325	43	5	21.1	30	23	30	21	30
Cobalt	30 or SB	19.05	43	0	11.1	32	12	19	11	19
Copper	25 or SB	29,588	43	23	30.6	47	30	38	30	44
Iron	2000 or SB	35550	43	0	24246	34300	25417	33100	24181	34,300
Lead	SB	21.48	43	21	23.2	67	23	33	23	67
Magnesium	SB	21500	43	0	7922	16600	5615	6690	7645	16,600
Manganese	SB	1056	43	0	412	2000	406	493	374	537
Mercury		0.095	43	2	0.04	0.11	0.05	0.06	0.05	0.11
Nickel	13 or SB	48.88	42	7	39.6	80	38	60	38	70
Potassium	SB	2342.5	43	0	1332	2300	1323	1630	1329	2,300
Selenium	2 or SB	2	43	0	1.3	1.8	1.3	1.6	1.3	1.8
Silver	SB	0.8	43	4	1.1	23	0	0	1	22.9
Sodium	SB	170.25	43	7	126.3	474	97	121	124	474
Thallium	SB	0.668	43	42	1.5	2.0	1.5	1.6	1.5	2.0
Vanadium	150 or SB	31.9	43	1	22.1	32	23	27	22	32
Zinc	20 or SB	108.95	43	13	113.4	578	101	172	111	578
Polychlorinated biphenyls (µg/Kg-dry weight):										
Aroclor 1016	1000 or 10000**	90	43	0	30.6	40	29.7	31	30.5	40 u
Aroclor 1221	1000 or 10000**	90	43	0	30.6	40	29.7	31	30.5	40 u
Aroclor 1232	1000 or 10000**	90	43	0	30.6	40	29.7	31	30.5	40 u
Aroclor 1242	1000 or 10000**	90	43	0	30.6	40	29.7	31	30.5	40 u
Aroclor 1248	1000 or 10000**	90	43	0	30.6	40	29.7	31	30.5	40 u
Aroclor 1254	1000 or 10000**	176	43	0	30.6	40	29.7	31	30.5	40 u
Aroclor 1260	1000 or 10000**	176	43	0	30.6	40	29.7	31	30.5	40 u
Pesticides (µg/Kg-dry weight):										
4,4'-DDD	2900	18	43	0	2.0	2.5	1.9	2.0	1.9	2.5 J
4,4'-DDE	2100	18	43	0	2.0	4.3	1.8	2.0	2.0	4.3 J
4,4'-DDT	2100	18	43	0	1.9	2.5	1.9	2.0	1.9	2.5 J
Aldrin	41	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
alpha-BHC	110	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
alpha-Chlordane	540***	90	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
beta-BHC	200	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
delta-BHC	300	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
Dieldrin	44	18	43	0	2.0	2.5	1.9	2.0	2.0	2.5 u
Endosulfan I	900	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
Endosulfan II	900	18	43	0	2.0	2.5	1.9	2.0	2.0	2.5 u
Endosulfan sulfate	1000	18	43	0	2.0	2.5	1.9	2.0	2.0	2.5 u
Endrin	100	19	43	0	2.0	2.5	1.9	2.0	2.0	2.5 u
Endrin aldehyde		2	43	0	2.0	2.5	1.9	2.0	2.0	2.5 u
Endrin ketone	N/A	18	43	0	2.0	2.5	1.9	2.0	2.0	2.5 u
gamma-BHC	60	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
gamma-Chlordane	540	90	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
Heptachlor	100	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
Heptachlor epoxide	20	9	43	0	1.0	1.3	1.0	1.0	1.0	1.3 u
Methoxychlor	Total VOCs < 10 mg/Kg	90	43	0	9.8	13	9.5	10	9.8	13 u
Technical Chlordane	540***		43	0	30.6	40	29.7	31	30.5	40 u
Toxaphene		176	43	0	30.6	40	29.7	31	30.5	40 u

Table C.5.1
Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedences of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Semi-Volatile Organic Compounds (µg/Kg-dry weight):										
1,2,4-Trichlorobenzene			43	0	307	400	298	310	306	400 u
1,2-Dichlorobenzene			43	0	307	400	298	310	306	400 u
1,2-Diphenylhydrazine (as Azobenzene)			43	0	307	400	298	310	306	400 u
1,3-Dichlorobenzene			43	0	307	400	298	310	306	400 u
1,4-Dichlorobenzene			43	0	307	400	298	310	306	400 u
2,4,5-Trichlorophenol	100		43	42	307	400	298	310	306	400 u
2,4,6-Trichlorophenol			43	0	307	400	298	310	306	400 u
2,4-Dichlorophenol	400		43	1	307	400	298	310	306	400 u
2,4-Dimethylphenol			43	0	307	400	298	310	306	400 u
2,4-Dinitrophenol	200 or MDL		43	42	612	810	598	630	610	810 u
2,4-Dinitrotoluene		65	43	42	307	400	298	310	306	400 u
2,6-Dinitrotoluene	1000	65	43	0	307	400	298	310	306	400 u
2-Chloronaphthalene			43	0	307	400	298	310	306	400 u
2-Chlorophenol	800		43	0	307	400	298	310	306	400 u
2-Methylnaphthalene	36400		43	0	302	400	298	310	301	400 u
2-Methylphenol	100 or MDL		43	42	307	400	298	310	306	400 u
2-Nitroaniline	430 or MDL		43	42	612	810	598	630	610	810 u
2-Nitrophenol	330 or MDL		43	5	307	400	298	310	306	400 u
3,3'-Dichlorobenzidine	N/A		43	0	307	400	298	310	306	400 u
3-Nitroaniline	500 or MDL		43	42	612	810	598	630	610	810 u
4,6-Dinitro-2-methylphenol			43	0	612	810	598	630	610	810 u
4-Bromophenyl phenyl ether			43	0	307	400	298	310	306	400 u
4-Chloro-3-methylphenol	240 or MDL		43	42	612	810	598	630	610	810 u
4-Chloroaniline	220 or MDL		43	42	307	400	298	310	306	400 u
4-Chlorophenyl phenyl ether			43	0	307	400	298	310	306	400 u
4-Methylphenol	900		43	0	302	400	298	310	301	400 u
4-Nitroaniline			43	0	612	810	598	630	610	810 u
4-Nitrophenol	100 or MDL		43	42	612	810	598	630	610	810 u
Acenaphthene	50000****		43	0	310	430	298	310	308	430 u
Acenaphthylene	41000****		43	0	295	950	230	310	285	950 u
Anthracene	50000****		43	0	342	2000	250	310	329	2000 u
Benz(a)anthracene	224 or MDL		43	28	579	6400	328	520	555	6400 u
Benzo(a)pyrene	61 or MDL		43	41	702	8300	331	680	664	8300 u
Benzo(b)fluoranthene	1100		43	5	927	12000	400	900	871	12000 u
Benzo(g,h,i)perylene	50000****		43	0	577	6600	357	540	558	6600 u
Benzo(k)fluoranthene	1100		43	2	445	4200	297	350	427	4200 u
Benzoic acid	2700		43	0	612	810	598	630	610	810 u
Benzyl alcohol			43	0	612	810	598	630	610	810 u
Bis(2-chloroethoxy)methane			43	0	307	400	298	310	306	400 u
Bis(2-chloroethyl)ether			43	0	307	400	298	310	306	400 u
Bis(2-chloroisopropyl)ether			43	0	307	400	298	310	306	400 u
Bis(2-ethylhexyl)phthalate	50000****		43	0	225	360	262	310	228	360 u
Butyl benzyl phthalate	50000****		43	0	307	400	298	310	306	400 u
Carbazole			43	0	315	1300	262	310	308	1300 u
Chrysene	400		43	10	601	6800	291	550	569	6800 u
Dibenz(a,h)anthracene	14 or MDL		43	42	338	1600	247	310	325	1600 u
Dibenzofuran	6200		43	0	306	400	298	310	304	400 u
Diethyl phthalate	7100		43	0	307	400	298	310	306	400 u
Dimethyl phthalate	2000		43	0	307	400	298	310	306	400 u
Di-n-butyl phthalate	8100		43	0	307	400	298	310	306	400 u
Di-n-octyl phthalate	50000****		43	0	307	400	298	310	306	400 u
Fluoranthene	50000****		43	0	1011	13000	453	1000	952	13000 u
Fluorene	50000****		43	0	306	720	262	310	299	720 u
Hexachlorobenzene	410		43	0	307	400	298	310	306	400 u
Hexachlorobutadiene			43	0	307	400	298	310	306	400 u
Hexachlorocyclopentadiene			43	0	307	400	298	310	306	400 u
Hexachloroethane			43	0	307	400	298	310	306	400 u
Indeno(1,2,3-cd)pyrene	3200		43	2	636	7500	333	600	606	7500 u

Table C.5.1
Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedances of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Isophorone	4400		43	0	307	400	298	310	306	400 u
Naphthalene	13000	366	43	0	297	400	298	310	297	400 u
Nitrobenzene	200 or MDL	368	43	42	307	400	298	310	306	400 u
N-Nitrosodi-n-propylamine		366	43	0	307	400	298	310	306	400 u
N-Nitrosodiphenylamine		366	43	0	307	400	298	310	306	400 u
Pentachlorophenol	1000 or MDL	1758	43	0	612	810	598	630	610	810 u
Phenanthrene	50000****	368	43	0	624	7300	378	730	602	7300 u
Phenol	30 or MDL	366	43	2	307	400	298	310	306	400 u
Pyrene	50000****	372	43	0	878	11000	401	830	828	11000 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry weight):										
1,1,1,2-Tetrachloroethane	600		43	0	26.9	37	25.5	31	26.6	37 u
1,1,1-Trichloroethane	800	7	43	0	26.9	37	25.5	31	26.6	37 u
1,1,2,2-Tetrachloroethane	600	7	43	0	26.9	37	25.5	31	26.6	37 u
1,1,2-Trichloroethane		7	43	0	26.9	37	25.5	31	26.6	37 u
1,1-Dichloroethane	200	7	43	0	26.9	37	25.5	31	26.6	37 u
1,1-Dichloroethene	400	7	43	0	26.9	37	25.5	31	26.6	37 u
1,1-Dichloropropene			43	0	26.9	37	25.5	31	26.6	37 u
1,2,3-Trichlorobenzene			43	0	26.9	37	25.5	31	26.6	37 u
1,2,3-Trichloropropane	400		43	0	26.9	37	25.5	31	26.6	37 u
1,2,4-Trichlorobenzene	3400		43	0	26.9	37	25.5	31	26.6	37 u
1,2,4-Trimethylbenzene			43	0	26.9	37	25.5	31	26.6	37 u
1,2-Dibromo-3-chloropropane			43	0	134.9	190	125.0	150	133.3	190 u
1,2-Dibromoethane			43	0	26.9	37	25.5	31	26.6	37 u
1,2-Dichlorobenzene	7900		43	0	26.9	37	25.5	31	26.6	37 u
1,2-Dichloroethane	100	7	43	0	26.9	37	25.5	31	26.6	37 u
1,2-Dichloropropane		7	43	0	26.9	37	25.5	31	26.6	37 u
1,3,5-Trimethylbenzene		65	43	0	26.9	37	25.5	31	26.6	37 u
1,3-Dichlorobenzene	1600		43	0	26.9	37	25.5	31	26.6	37 u
1,3-Dichloropropane	300		43	0	26.9	37	25.5	31	26.6	37 u
1,4-Dichlorobenzene	8500		43	0	26.9	37	25.5	31	26.6	37 u
2,2-Dichloropropane			43	0	26.9	37	25.5	31	26.6	37 u
2-Butanone	300	7	43	1	160.5	300	145.0	230	158.8	300 u
2-Chlorotoluene			43	0	26.9	37	25.5	31	26.6	37 u
2-Hexanone			43	0	268.6	370	255.0	310	266.4	370 u
4-Chlorotoluene			43	0	26.9	37	25.5	31	26.6	37 u
4-Isopropyltoluene			43	0	27.2	39	27.7	36	27.2	39 u
4-Methyl-2-pentanone	1000		43	0	268.6	370	255.0	310	266.4	370 u
Acetone	200	22	43	0	134.9	190	125.0	150	133.3	190 u
Benzene	60	7	43	0	26.9	37	25.5	31	26.6	37 u
Bromobenzene			43	0	26.9	37	25.5	31	26.6	37 u
Bromochloromethane		7	43	0	26.9	37	25.5	31	26.6	37 u
Bromodichloromethane			43	0	26.9	37	25.5	31	26.6	37 u
Bromoform		7	43	0	53.8	75	51.0	61	53.3	75 u
Bromomethane			43	0	53.8	75	51.0	61	53.3	75 u
Carbon disulfide	2700	7	43	0	53.8	75	51.0	61	53.3	75 u
Carbon tetrachloride	600	7	43	0	26.9	37	25.5	31	26.6	37 u
Chlorobenzene	1700	7	43	0	26.9	37	25.5	31	26.6	37 u
Chloroethane	1900	7	43	0	53.8	75	51.0	61	53.3	75 u
Chloroform	300	7	43	0	26.9	37	25.5	31	26.6	37 u
Chloromethane			43	0	53.8	75	51.0	61	53.3	75 u
cis-1,2-Dichloroethene		7*****	43	0	26.9	37	25.5	31	26.6	37 u
cis-1,3-Dichloropropene		7	43	0	26.9	37	25.5	31	26.6	37 u
Dibromochloromethane	N/A	7	43	0	26.9	37	25.5	31	26.6	37 u
Dibromomethane			43	0	26.9	37	25.5	31	26.6	37 u
Dichlorodifluoromethane			43	0	53.8	75	51.0	61	53.3	75 u
Ethylbenzene	5500	7	43	0	26.9	37	25.5	31	26.6	37 u
Freon-113	6000		43	0	26.9	37	25.5	31	26.6	37 u
Hexachlorobutadiene			43	0	53.8	75	51.0	61	53.3	75 u
Isopropylbenzene			43	0	26.9	37	25.5	31	26.6	37 u
m,p-Xylene	1200*	7*	43	0	26.8	37	25.5	31	26.6	37 u

Table C.5.1
Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - Summary

Parameter	Cleanup Goal ¹		Total Number of Samples Collected	Number of Exceedances of Cleanup Goal ¹	Sidewall Samples		Floor Samples		All Samples	
	NYDEC TAGM	SEAD Background			Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration	Average Concentration	Maximum Concentration
Methyl tert-butyl ether		6	43	0	26.9	37	25.5	31	26.6	37 u
Methylene chloride	100	7	43	0	53.8	75	51.0	61	53.3	75 u
Naphthalene			43	0	53.8	75	51.0	61	53.3	75 u
n-Butylbenzene			43	0	26.9	37	25.5	31	26.6	37 u
n-Propylbenzene			43	0	26.9	37	25.5	31	26.6	37 u
o-Xylene	1200*	7*	43	0	26.9	37	25.5	31	26.6	37 u
sec-Butylbenzene			43	0	26.9	37	25.5	31	26.6	37 u
Styrene		7	43	0	26.9	37	25.5	31	26.6	37 u
tert-Butylbenzene			43	0	26.9	37	25.5	31	26.6	37 u
Tetrachloroethene	1400	7	43	0	26.9	37	25.5	31	26.6	37 u
Toluene	1500	7	43	0	26.8	37	25.5	31	26.7	37 u
trans-1,2-Dichloroethene	300	7*****	43	0	26.9	37	25.5	31	26.6	37 u
trans-1,3-Dichloropropene		7	43	0	26.9	37	25.5	31	26.6	37 u
Trichloroethene	700	7	43	0	26.9	37	25.5	31	26.6	37 u
Trichlorofluoromethane			43	0	53.8	75	51.0	61	53.3	75 u
Vinyl chloride	200	7	43	0	26.9	37	25.5	31	26.6	37 u

NOTES:

5.80 - Blue-colored value indicates exceedance of the higher of New York State Department of Environmental Conservation (NYSDEC) TAGM soil cleanup goal or Seneca Army Depot Activity (SEDA)

1.4 - Gray-shading indicates Practical Quantitation Limit (PQL) exceeds cleanup goal

- * NYSDEC TAGM soil cleanup goal for total (m,p,o)-Xylenes is 1,200 µg/Kg
- ** 1,000 µg/Kg for surface soil, 10,000 µg/Kg for subsurface soil
- *** NYSDEC TAGM soil cleanup goal for total Chlordane is 540 µg/Kg
- **** Value indicated, and total SVOCs <500,000 µg/Kg
- ***** Value for total 1,2-dichloroethenes

"TAGM" means Technical and Administrative Guidance Memorandum #4046 - Determination of Soil Cleanup Objectives and Cleanup Goals (NYSDEC)

"µg/Kg" means micrograms/Kilogram

"mg/Kg" means milligrams/Kilogram

"SB" means Site Background

"N/A" means Not Applicable (NYSDEC-specified TAGM criterion)

"J" is a laboratory Quality Control (QC) qualifier indicating detection below PQLs

"u" is a QC qualifier indicating the compound was Not Detected, or ND, at or above the MDL

"R" is a QC qualifier tagged by the Data Validator indicating a Relative Percent Difference (RPD) outside accepted recovery limits

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-01	SEAD63-DDFL-02	SEAD63-DDFL-03	SEAD63-DDFL-04	SEAD63-DDFL-05	SEAD63-DDFL-06	SEAD63-DDFL-07	SEAD63-DDFL-08	SEAD63-DDFL-09	SEAD63-DDFL-10	SEAD63-DDFL-11
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Floor	Sidewall	Sidewall
Date	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04
Inorganics (%-dry weight):											
Percent Moisture	15	19.9	17.3	15.6	16.8	19.4	11.9	32.8	18.2	16	37.9
Metals (mg/Kg-dary):											
Aluminum	10000	10900	16700	11400	8770	12500	13700	13100	13000	11200	11000
Antimony	5.8 u	6 u	5.7 u	5.5 u	5.9 u	5.8 u	5.6 u	7.1 u	5.7 u	5.6 u	7.9 u
Arsenic	5.32 J	5.13 J	7.64 J	8.29 J	4.5 J	5.26 J	6.35 J	3.36 J	3.94 J	4.88 J	3.71 J
Barium	51.7	60	94.2	54.4	56	79.7	78.6	98.6	67.6	62	69.9
Beryllium	0.581	0.581	0.934	0.595	0.493	0.635	0.705	0.646	0.608	0.56	0.565
Cadmium	0.234 J	0.258 J	0.227 J	0.217 J	0.238 J	0.217 J	0.126 J	0.28 J	0.146 J	0.153 J	1.33
Calcium	48700	20700	2710	27800	73600	14500	9240	30800	15000	32000	28000
Chromium	19.1	20.3	29.4	21.6	15.7	20.4	24.2	23	22.4	20.5	19.5
Cobalt	12.9	10.3	13.3	11.3	9.2	9.91	15.3	11.5	10.3	12	9.5 J
Copper	36.5	31.5	36.2	39.2	22.6	26.9	29.2	33	32.6	31.2	42.8
Iron	24100	23600	34300	27000	16800	23400	29200	21900	21900	23100	19000
Lead	16.6	21	19	18.6	25.4	24.5	17.2	31.9	23.6	21.3	67
Magnesium	8960	6000	5860	6900	11000	5760	5610	7480	6690	8180	14200
Manganese	477	327	425	454	497	436	421	488	304	430	336
Mercury	0.0355 J	0.0409 J	0.042 J	0.0408 J	0.0372 J	0.0507 J	0.0434 J	0.0624 J	0.0446 J	0.0408 J	0.111
Nickel	43.8	38.8	51.2	46.6	29.5	34	43.2	40.7	37.1	38	33.4
Potassium	1150	1280	2030	2210	1780	1900	1240	1760	1630	1260	1720
Selenium	1.5 uJ	1.5 u	1.4 u	1.4 u	1.5 uJ	1.4 uJ	1.4 u	1.8 u	1.4 u	1.4 u	0.573 J
Silver	0.274 J	0.245 J	0.247 J	0.212 J	2.1 u	0.223 J	0.25 J	0.239 J	0.248 J	0.232 J	0.268 J
Sodium	108 J	63.7 J	163 J	148 J	125 J	62 J	121 J	129 J	98.7 J	104 J	124 J
Thallium	1.5 R	1.5 R	1.4 R	1.4 R	1.5 R	1.4 R	1.4 R	1.8 R	1.4 R	1.4 R	2 R
Vanadium	17	18.3	25.8	19.2	29.9	22.6	22.4	21.8	21.9	20.4	28.4
Zinc	83.6	114	306	98.5	76.3	81.3	82.1	119	79.9	74.6	578
Polychlorinated biphenyls (µg/Kg-dry weight):											
Aroclor 1016	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Aroclor 1221	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Aroclor 1232	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Aroclor 1242	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Aroclor 1248	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Aroclor 1254	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Aroclor 1260	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Pesticides (µg/Kg-dry weight):											
4,4'-DDD	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 uJ	2.4 uJ	1.9 uJ	1.8 uJ	2.5 uJ
4,4'-DDE	1.9 u	2 u	1.9 u	1.9 u	1.9 u	2 u	1.8 u	2.4 u	1.9 u	1.8 u	2.5 u
4,4'-DDT	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 uJ	2.4 uJ	1.9 uJ	1.8 uJ	2.5 uJ
Aldrin	0.94 u	1 u	0.97 u	0.93 u	0.96 u	0.98 u	0.89 u	1.2 u	0.94 u	0.92 u	1.3 u
alpha-BHC	0.94 u	1 u	0.97 u	0.93 u	0.96 u	0.98 u	0.89 u	1.2 u	0.94 u	0.92 u	1.3 u
alpha-Chlordane	0.94 uJ	1 uJ	0.97 uJ	0.93 uJ	0.96 uJ	0.98 uJ	0.89 uJ	1.2 uJ	0.94 uJ	0.92 uJ	1.3 uJ

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-01	SEAD63-DDFL-02	SEAD63-DDFL-03	SEAD63-DDFL-04	SEAD63-DDFL-05	SEAD63-DDFL-06	SEAD63-DDFL-07	SEAD63-DDFL-08	SEAD63-DDFL-09	SEAD63-DDFL-10	SEAD63-DDFL-11
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Floor	Sidewall	Sidewall
Date	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04
beta-BHC	0.94 u	1 u	0.97 u	0.93 u	0.96 u	0.98 u	0.89 u	1.2 u	0.94 u	0.92 u	1.3 u
delta-BHC	0.94 uJ	1 uJ	0.97 uJ	0.93 uJ	0.96 uJ	0.98 uJ	0.89 uJ	1.2 uJ	0.94 uJ	0.92 uJ	1.3 uJ
Dieldrin	1.9 u	2 u	1.9 u	1.9 u	1.9 u	2 u	1.8 u	2.4 u	1.9 u	1.8 u	2.5 u
Endosulfan I	0.94 u	1 u	0.97 u	0.93 u	0.96 u	0.98 u	0.89 u	1.2 u	0.94 u	0.92 u	1.3 u
Endosulfan II	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 uJ	2.4 uJ	1.9 uJ	1.8 uJ	2.5 uJ
Endosulfan sulfate	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 uJ	2.4 uJ	1.9 uJ	1.8 uJ	2.5 uJ
Endrin	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 uJ	2.4 uJ	1.9 uJ	1.8 uJ	2.5 uJ
Endrin aldehyde	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 uJ	2.4 uJ	1.9 uJ	1.8 uJ	2.5 uJ
Endrin ketone	1.9 uJ	2 uJ	1.9 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 uJ	2.4 uJ	1.9 uJ	1.8 uJ	2.5 uJ
gamma-BHC	0.94 u	1 u	0.97 u	0.93 u	0.96 u	0.98 u	0.89 u	1.2 u	0.94 u	0.92 u	1.3 u
gamma-Chlordane	0.94 uJ	1 uJ	0.97 uJ	0.93 uJ	0.96 uJ	0.98 uJ	0.89 uJ	1.2 uJ	0.94 uJ	0.92 uJ	1.3 uJ
Heptachlor	0.94 uJ	1 uJ	0.97 uJ	0.93 uJ	0.96 uJ	0.98 uJ	0.89 uJ	1.2 uJ	0.94 uJ	0.92 uJ	1.3 uJ
Heptachlor epoxide	0.94 u	1 u	0.97 u	0.93 u	0.96 u	0.98 u	0.89 u	1.2 u	0.94 u	0.92 u	1.3 u
Methoxychlor	9.4 R	10 R	9.7 R	9.3 R	9.6 R	9.8 R	8.9 R	12 R	9.4 R	9.2 R	13 R
Technical Chlordane	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Toxaphene	29 u	31 u	30 u	29 u	30 u	31 u	28 u	37 u	29 u	29 u	40 u
Semi-Volatile Organic Compounds (µg/Kg-dry weight):											
1,2,4-Trichlorobenzene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
1,2-Dichlorobenzene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
1,2-Diphenylhydrazine (as Azobenzene)	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
1,3-Dichlorobenzene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
1,4-Dichlorobenzene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2,4,5-Trichlorophenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2,4,6-Trichlorophenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2,4-Dichlorophenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2,4-Dimethylphenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2,4-Dinitrophenol	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
2,4-Dinitrotoluene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2,6-Dinitrotoluene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2-Chloronaphthalene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2-Chlorophenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2-Methylnaphthalene	290 u	310 u	300 u	280 u	100 J	310 u	280 u	370 u	300 u	290 u	400 u
2-Methylphenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
2-Nitroaniline	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
2-Nitrophenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
3,3'-Dichlorobenzidine	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-01	SEAD63-DDFL-02	SEAD63-DDFL-03	SEAD63-DDFL-04	SEAD63-DDFL-05	SEAD63-DDFL-06	SEAD63-DDFL-07	SEAD63-DDFL-08	SEAD63-DDFL-09	SEAD63-DDFL-10	SEAD63-DDFL-11
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Floor	Sidewall	Sidewall
Date	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04
3-Nitroaniline	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
4,6-Dinitro-2-methylphenol	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
4-Bromophenyl phenyl ether	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
4-Chloro-3-methylphenol	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
4-Chloroaniline	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
4-Chlorophenyl phenyl ether	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
4-Methylphenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
4-Nitroaniline	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
4-Nitrophenol	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
Acenaphthene	290 u	310 u	300 u	280 u	430 u	310 u	280 u	370 u	300 u	290 u	400 u
Acenaphthylene	290 u	310 u	300 u	280 u	950 u	130 J	280 u	160 J	120 J	240 J	220 J
Anthracene	290 u	310 u	300 u	280 u	2000 u	180 J	280 u	200 J	130 J	270 J	180 J
Benz(a)anthracene	150 J	310 u	150 J	280 u	6400 u	730 u	280 u	600 u	520 u	1200 u	750 u
Benzo(a)pyrene	170 J	310 u	180 J	280 u	8300 u	740 u	61 J	1100 u	680 u	1500 u	1200 u
Benzo(b)fluoranthene	250 J	310 u	280 J	66 J	12000 u	1100 u	100 J	1500 u	900 u	2000 u	2100 u
Benzo(g,h,i)perylene	130 J	310 u	140 J	280 u	6600 u	540 u	280 u	860 u	540 u	1000 u	1500 u
Benzo(k)fluoranthene	82 J	310 u	87 J	280 u	4200 u	400 u	280 u	390 u	350 u	710 u	580 u
Benzoic acid	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
Benzyl alcohol	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
Bis(2-chloroethoxy)methane	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Bis(2-chloroethyl)ether	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Bis(2-chloroisopropyl)ether	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Bis(2-ethylhexyl)phthalate	99 J	96 J	300 u	78 J	80 J	70 J	280 u	120 J	300 u	150 J	83 J
Butyl benzyl phthalate	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Carbazole	290 u	310 u	300 u	280 u	1300 u	130 J	280 u	120 J	300 u	85 J	120 J
Chrysene	160 J	310 u	170 J	280 u	6800 u	840 u	69 J	680 u	550 u	1200 u	980 u
Dibenz(a,h)anthracene	290 u	310 u	300 u	280 u	1600 u	310 u	280 u	85 J	140 J	290 J	290 J
Dibenzofuran	290 u	310 u	300 u	280 u	340 u	310 u	280 u	370 u	300 u	290 u	400 u
Diethyl phthalate	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Dimethyl phthalate	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Di-n-butyl phthalate	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Di-n-octyl phthalate	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Fluoranthene	330 u	81 J	330 u	97 J	13000 u	1600 u	100 J	930 u	920 u	1800 u	1600 u
Fluorene	290 u	310 u	300 u	280 u	720 u	87 J	280 u	76 J	300 u	84 J	400 u
Hexachlorobenzene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Hexachlorobutadiene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Hexachlorocyclopentadiene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Hexachloroethane	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Indeno(1,2,3-cd)pyrene	150 J	310 u	160 J	280 u	7500 u	610 u	280 u	1000 u	600 u	1200 u	1400 u
Isophorone	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-01	SEAD63-DDFL-02	SEAD63-DDFL-03	SEAD63-DDFL-04	SEAD63-DDFL-05	SEAD63-DDFL-06	SEAD63-DDFL-07	SEAD63-DDFL-08	SEAD63-DDFL-09	SEAD63-DDFL-10	SEAD63-DDFL-11
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Floor	Sidewall	Sidewall
Date	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04
Naphthalene	290 u	310 u	300 u	280 u	160 J	310 u	280 u	370 u	300 u	290 u	400 u
Nitrobenzene	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
N-Nitrosodi-n-propylamine	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
N-Nitrosodiphenylamine	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Pentachlorophenol	580 u	610 u	600 u	570 u	590 u	610 u	560 u	740 u	610 u	580 u	810 u
Phenanthrene	170 J	310 u	180 J	280 u	7300 u	860 u	280 u	450 u	360 u	660 u	510 u
Phenol	290 u	310 u	300 u	280 u	300 u	310 u	280 u	370 u	300 u	290 u	400 u
Pyrene	260 J	64 J	280 J	80 J	11000 u	1300 u	89 J	800 u	830 u	1700 u	1400 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry weight):											
1,1,1,2-Tetrachloroethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,1,1-Trichloroethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,1,2,2-Tetrachloroethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,1,2-Trichloroethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,1-Dichloroethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,1-Dichloroethene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,1-Dichloropropene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2,3-Trichlorobenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2,3-Trichloropropane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2,4-Trichlorobenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2,4-Trimethylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2-Dibromo-3-chloropropane	130 u	130 u	150 u	130 u	130 u	140 u	110 u	190 u	120 u	120 u	190 u
1,2-Dibromoethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2-Dichlorobenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2-Dichloroethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,2-Dichloropropane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,3,5-Trimethylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,3-Dichlorobenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,3-Dichloropropane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
1,4-Dichlorobenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
2,2-Dichloropropane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
2-Butanone	270 u	270 u	290 u	260 u	250 u	270 u	230 u	190 uJ	120 uJ	120 uJ	190 uJ
2-Chlorotoluene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
2-Hexanone	270 u	270 u	290 u	260 u	250 u	270 u	230 u	370 u	230 u	230 u	370 u
4-Chlorotoluene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
4-Isopropyltoluene	27 u	23 J	29 u	26 u	25 u	27 u	36 u	37 u	23 u	23 u	37 u
4-Methyl-2-pentanone	270 u	270 u	290 u	260 u	250 u	270 u	230 u	370 u	230 u	230 u	370 u
Acetone	130 R	130 R	150 R	130 R	130 R	140 R	110 R	190 R	120 R	120 R	190 R
Benzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Bromobenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Bromochloromethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Bromodichloromethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-01	SEAD63-DDFL-02	SEAD63-DDFL-03	SEAD63-DDFL-04	SEAD63-DDFL-05	SEAD63-DDFL-06	SEAD63-DDFL-07	SEAD63-DDFL-08	SEAD63-DDFL-09	SEAD63-DDFL-10	SEAD63-DDFL-11
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Floor	Sidewall	Sidewall
Date	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04
Bromoform	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 u	47 u	47 u	74 u
Bromomethane	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 uJ	47 uJ	47 uJ	74 uJ
Carbon disulfide	53 uJ	53 uJ	58 uJ	51 uJ	51 uJ	55 uJ	46 uJ	75 uJ	47 uJ	47 uJ	74 uJ
Carbon tetrachloride	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Chlorobenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Chloroethane	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 u	47 u	47 u	74 u
Chloroform	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Chloromethane	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 u	47 u	47 u	74 u
cis-1,2-Dichloroethene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
cis-1,3-Dichloropropene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Dibromochloromethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Dibromomethane	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Dichlorodifluoromethane	53 uJ	53 uJ	58 uJ	51 uJ	51 uJ	55 uJ	46 uJ	75 uJ	47 uJ	47 uJ	74 uJ
Ethylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Freon-113	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Hexachlorobutadiene	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 u	47 u	47 u	74 u
Isopropylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
m,p-Xylene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Methyl tert-butyl ether	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Methylene chloride	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 u	47 u	47 u	74 u
Naphthalene	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 u	47 u	47 u	74 u
n-Butylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
n-Propylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
o-Xylene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
sec-Butylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Styrene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
tert-Butylbenzene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Tetrachloroethene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Toluene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
trans-1,2-Dichloroethene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
trans-1,3-Dichloropropene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Trichloroethene	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u
Trichlorofluoromethane	53 u	53 u	58 u	51 u	51 u	55 u	46 u	75 u	47 u	47 u	74 u
Vinyl chloride	27 u	27 u	29 u	26 u	25 u	27 u	23 u	37 u	23 u	23 u	37 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-12	SEAD63-DDFL-13	SEAD63-DDFL-14	SEAD63-DDFL-15	SEAD63-DDFL-16	SEAD63-DDFL-17	SEAD63-DDFL-18	SEAD63-DDFL-19	SEAD63-DDFL-20	SEAD63-DDFL-21	SEAD63-DDFL-22
Location	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall
Date	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04
Inorganics (%-dry weight):											
Percent Moisture	21.3	28.6	21.4	13.7	13.9	19.9	18.6	14	13.1	14.9	9.7
Metals (mg/Kg-dary):											
Aluminum	8710	12500	14100	10700	8500	10900	11800	9490	9640	9130	2750
Antimony	6.1 u	6.8 u	6.1 u	5.6 u	10.5 J	7.34 J	2.65 J	5.6 u	5.6 u	5.7 u	5.3 u
Arsenic	4.17 J	4.38 J	4.93 J	5.16 J	4.8 J	4.59 J	5.7 J	4.59 J	4.72 J	5.23 J	3.1 J
Barium	65.1	68.8	80.4	69.4	94	63.9	92.6	60.4	71	66.5	44.4
Beryllium	0.461	0.619	0.635	0.539	0.521	0.607	0.641	0.502	0.489	0.416	0.308 J
Cadmium	0.122 J	0.176 J	0.148 J	0.0823 J	0.152 J	0.184 J	0.191 J	0.14 J	0.14 J	0.133 J	0.142 J
Calcium	20200	15200	6300	8400	2350	9660	21000	63400	14800	12000	217000 D
Chromium	14.9	22.4	21.1	17.3	14.1	20.1	20.4	16.3	16.6	15	5.95
Cobalt	7.42 J	11.2	10.1	8.92	6.64 J	9.63	10.7	8.93	6.93	8	6.84
Copper	22.3	31.8	24.1	25.7	24.1	27.9	31.2	20.1	20.6	29	10.1
Iron	17400	24000	22900	22600	19700	23700	25300	17900	20400	20000	6520
Lead	23.1	33.1	32.6	12.4	7.3 J	20.4 J	16.9 J	10.9 J	11.3 J	11.3 J	13.7 J
Magnesium	7220	7190	5080	4800	3160	5030	6330	9590	4560	5440	16600
Manganese	312	220	458	379	303 J	278 J	453 J	388 J	277 J	493 J	391 J
Mercury	0.0434 J	0.0595 J	0.0534 J	0.0363 J	0.0428 J	0.0588 J	0.0523 J	0.0583	0.0585	0.0309 J	0.0184 J
Nickel	23.5	38.7	29.3	27.2	21.8	36.6	35.7	26.1	24.4	23.7	15.8
Potassium	972	1370	1570	963	815	1040	981	1330	895	816	976
Selenium	1.5 u	1.7 R	1.5 u	1.4 u	1.4 u	1.5 u	1.5 uJ	1.4 uJ	1.4 u	1.4 u	1.3 uJ
Silver	0.189 J	22.9 J	0.22 J	2 u	0.179 J	0.254 J	0.289 J	0.174 J	0.211 J	0.189 J	0.296 J
Sodium	79.2 J	97.8 J	105 J	64.4 J	37.2 J	49.4 J	152 J	212 J	95.9 J	63.8 J	180 J
Thallium	1.5 R	1.7 u	1.5 R	1.4 R	1.4 R	1.5 R	1.5 R	1.4 R	1.4 R	1.4 R	1.3 R
Vanadium	27	23	24.3	20	18	19	21.1	18.2	18	17.8	10.6
Zinc	63.6	98	84.3	60.3	48	75	76.4	59.2	55.8	83	39.1
Polychlorinated biphenyls (µg/Kg-dry weight):											
Aroclor 1016	31 u	34 u	30 u	28 u	28 u	31 uJ	31 uJ	29 uJ	28 uJ	29 uJ	27 uJ
Aroclor 1221	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Aroclor 1232	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Aroclor 1242	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Aroclor 1248	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Aroclor 1254	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Aroclor 1260	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Pesticides (µg/Kg-dry weight):											
4,4'-DDD	2 uJ	2.2 uJ	1.9 uJ	1.8 uJ	1.8 uJ	2 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 uJ
4,4'-DDE	2 u	2.2 u	1.9 u	1.8 u	1.8 u	1.5 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	4.3 uJ
4,4'-DDT	2 uJ	2.2 uJ	1.9 uJ	1.8 uJ	1.8 uJ	1.1 J	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 J
Aldrin	0.99 u	1.1 u	0.97 u	0.9 u	0.9 u	1 uJ	0.98 uJ	0.92 uJ	0.91 uJ	0.93 uJ	0.86 uJ
alpha-BHC	0.99 u	1.1 u	0.97 u	0.9 u	0.9 u	1 u	0.98 u	0.92 u	0.91 u	0.93 u	0.86 u
alpha-Chlordane	0.99 uJ	1.1 uJ	0.97 uJ	0.9 uJ	0.9 uJ	1 uJ	0.98 uJ	0.92 uJ	0.91 uJ	0.93 uJ	0.86 uJ

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-12	SEAD63-DDFL-13	SEAD63-DDFL-14	SEAD63-DDFL-15	SEAD63-DDFL-16	SEAD63-DDFL-17	SEAD63-DDFL-18	SEAD63-DDFL-19	SEAD63-DDFL-20	SEAD63-DDFL-21	SEAD63-DDFL-22
Location	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall
Date	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04
beta-BHC	0.99 u	1.1 u	0.97 u	0.9 u	0.9 u	1 u	0.98 u	0.92 u	0.91 u	0.93 u	0.86 u
delta-BHC	0.99 uJ	1.1 uJ	0.97 uJ	0.9 uJ	0.9 uJ	1 u	0.98 u	0.92 u	0.91 u	0.93 u	0.86 u
Dieldrin	2 u	2.2 u	1.9 u	1.8 u	1.8 u	2 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 uJ
Endosulfan I	0.99 u	1.1 u	0.97 u	0.9 u	0.9 u	1 uJ	0.98 uJ	0.92 uJ	0.91 uJ	0.93 uJ	0.86 uJ
Endosulfan II	2 uJ	2.2 uJ	1.9 uJ	1.8 uJ	1.8 uJ	2 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 uJ
Endosulfan sulfate	2 uJ	2.2 uJ	1.9 uJ	1.8 uJ	1.8 uJ	2 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 uJ
Endrin	2 uJ	2.2 uJ	1.9 uJ	1.8 uJ	1.8 uJ	2 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 uJ
Endrin aldehyde	2 uJ	2.2 uJ	1.9 uJ	1.8 uJ	1.8 uJ	2 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 uJ
Endrin ketone	2 uJ	2.2 uJ	1.9 uJ	1.8 uJ	1.8 uJ	2 uJ	2 uJ	1.8 uJ	1.8 uJ	1.9 uJ	1.7 uJ
gamma-BHC	0.99 u	1.1 u	0.97 u	0.9 u	0.9 u	1 u	0.98 u	0.92 u	0.91 u	0.93 u	0.86 u
gamma-Chlordane	0.99 uJ	1.1 uJ	0.97 uJ	0.9 uJ	0.9 uJ	1 uJ	0.98 uJ	0.92 uJ	0.91 uJ	0.93 uJ	0.86 uJ
Heptachlor	0.99 uJ	1.1 uJ	0.97 uJ	0.9 uJ	0.9 uJ	1 uJ	0.98 uJ	0.92 uJ	0.91 uJ	0.93 uJ	0.86 uJ
Heptachlor epoxide	0.99 u	1.1 u	0.97 u	0.9 u	0.9 u	1 uJ	0.98 uJ	0.92 uJ	0.91 uJ	0.93 uJ	0.86 uJ
Methoxychlor	9.9 R	11 R	9.7 R	9 R	9 R	10 uJ	9.8 uJ	9.2 uJ	9.1 uJ	9.3 uJ	8.6 uJ
Technical Chlordane	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Toxaphene	31 u	34 u	30 u	28 u	28 u	31 u	31 u	29 u	28 u	29 u	27 u
Semi-Volatile Organic Compounds (µg/Kg-dry w)											
1,2,4-Trichlorobenzene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
1,2-Dichlorobenzene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
1,2-Diphenylhydrazine (as Azobenzene)	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
1,3-Dichlorobenzene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
1,4-Dichlorobenzene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2,4,5-Trichlorophenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2,4,6-Trichlorophenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2,4-Dichlorophenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2,4-Dimethylphenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2,4-Dinitrophenol	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
2,4-Dinitrotoluene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2,6-Dinitrotoluene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2-Chloronaphthalene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2-Chlorophenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2-Methylnaphthalene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2-Methylphenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
2-Nitroaniline	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
2-Nitrophenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
3,3'-Dichlorobenzidine	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-12	SEAD63-DDFL-13	SEAD63-DDFL-14	SEAD63-DDFL-15	SEAD63-DDFL-16	SEAD63-DDFL-17	SEAD63-DDFL-18	SEAD63-DDFL-19	SEAD63-DDFL-20	SEAD63-DDFL-21	SEAD63-DDFL-22
Location	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall
Date	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04
3-Nitroaniline	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
4,6-Dinitro-2-methylphenol	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
4-Bromophenyl phenyl ether	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
4-Chloro-3-methylphenol	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
4-Chloroaniline	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
4-Chlorophenyl phenyl ether	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
4-Methylphenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
4-Nitroaniline	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
4-Nitrophenol	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
Acenaphthene	280 J	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Acenaphthylene	480 u	140 J	79 J	280 u	290 u	310 u	300 u	140 J	280 u	290 u	270 u
Anthracene	1300 u	130 J	190 J	280 u	290 u	310 u	300 u	150 J	280 u	290 u	270 u
Benz(a)anthracene	4700 u	390 u	490 u	94 J	290 u	74 J	230 J	730 u	150 J	65 J	74 J
Benzo(a)pyrene	5400 u	700 u	560 u	120 J	290 u	77 J	280 J	840 u	170 J	72 J	88 J
Benzo(b)fluoranthene	7500 u	900 u	700 u	150 J	290 u	93 J	370 u	1100 u	210 J	92 J	120 J
Benzo(g,h,i)perylene	3600 u	570 u	420 u	79 J	290 u	310 u	200 J	540 u	110 J	290 u	73 J
Benzo(k)fluoranthene	2200 u	310 J	250 J	280 u	290 u	310 u	130 J	390 u	88 J	290 u	270 u
Benzoic acid	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
Benzyl alcohol	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
Bis(2-chloroethoxy)methane	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Bis(2-chloroethyl)ether	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Bis(2-chloroisopropyl)ether	320 uJ	350 uJ	310 uJ	280 uJ	290 uJ	310 uJ	300 uJ	290 uJ	280 uJ	290 uJ	270 uJ
Bis(2-ethylhexyl)phthalate	85 J	350 u	93 J	96 J	290 u	310 u	71 J	180 J	220 J	290 u	270 u
Butyl benzyl phthalate	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Carbazole	530 u	350 u	90 J	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Chrysene	4600 u	450 u	460 u	110 J	290 u	68 J	270 J	770 u	150 J	58 J	81 J
Dibenz(a,h)anthracene	980 u	140 J	160 J	280 u	290 u	310 u	300 u	60 J	280 u	290 u	270 u
Dibenzofuran	220 J	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Diethyl phthalate	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Dimethyl phthalate	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Di-n-butyl phthalate	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Di-n-octyl phthalate	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Fluoranthene	10000 u	750 u	1000 u	140 J	290 u	94 J	430 u	1200 u	250 J	85 J	110 J
Fluorene	560 u	350 u	92 J	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Hexachlorobenzene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Hexachlorobutadiene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Hexachlorocyclopentadiene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Hexachloroethane	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Indeno(1,2,3-cd)pyrene	4200 u	660 u	440 u	93 J	290 u	310 u	220 J	630 u	130 J	66 J	83 J
Isophorone	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-12	SEAD63-DDFL-13	SEAD63-DDFL-14	SEAD63-DDFL-15	SEAD63-DDFL-16	SEAD63-DDFL-17	SEAD63-DDFL-18	SEAD63-DDFL-19	SEAD63-DDFL-20	SEAD63-DDFL-21	SEAD63-DDFL-22
Location	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall
Date	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04
Naphthalene	79 J	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Nitrobenzene	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
N-Nitrosodi-n-propylamine	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
N-Nitrosodiphenylamine	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Pentachlorophenol	630 u	690 u	630 u	570 u	570 u	610 u	600 u	580 u	570 u	570 u	550 u
Phenanthrene	5200 u	330 J	730 u	280 u	290 u	310 u	180 J	380 u	77 J	290 u	270 u
Phenol	320 u	350 u	310 u	280 u	290 u	310 u	300 u	290 u	280 u	290 u	270 u
Pyrene	8100 u	640 u	790 u	140 J	290 u	94 J	400 u	1200 u	240 J	89 J	110 J
Volatile Organic Compounds (VOCs) (µg/Kg-dry)											
1,1,1,2-Tetrachloroethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 uJ	23 uJ	23 uJ	23 uJ
1,1,1-Trichloroethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,1,2,2-Tetrachloroethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,1,2-Trichloroethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,1-Dichloroethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,1-Dichloroethene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,1-Dichloropropene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2,3-Trichlorobenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2,3-Trichloropropane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2,4-Trichlorobenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2,4-Trimethylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2-Dibromo-3-chloropropane	150 u	160 u	150 u	120 u	120 u	140 u	150 u	130 uJ	120 uJ	110 uJ	110 uJ
1,2-Dibromoethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2-Dichlorobenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2-Dichloroethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,2-Dichloropropane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,3,5-Trimethylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,3-Dichlorobenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,3-Dichloropropane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
1,4-Dichlorobenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
2,2-Dichloropropane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
2-Butanone	300 u	160 uJ	150 uJ	120 u	120 uJ	140 u	150 u	130 u	120 u	110 u	110 u
2-Chlorotoluene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
2-Hexanone	300 u	330 u	310 u	230 u	240 u	280 u	300 u	270 u	230 u	230 u	230 u
4-Chlorotoluene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
4-Isopropyltoluene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
4-Methyl-2-pentanone	300 u	330 u	310 u	230 u	240 u	280 u	300 u	270 u	230 u	230 u	230 u
Acetone	150 R	160 R	150 R	120 R	120 R	140 R	150 R	130 R	120 R	110 R	110 R
Benzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Bromobenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Bromochloromethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Bromodichloromethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 uJ	23 uJ	23 uJ	23 uJ

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-12	SEAD63-DDFL-13	SEAD63-DDFL-14	SEAD63-DDFL-15	SEAD63-DDFL-16	SEAD63-DDFL-17	SEAD63-DDFL-18	SEAD63-DDFL-19	SEAD63-DDFL-20	SEAD63-DDFL-21	SEAD63-DDFL-22
Location	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall
Date	05/17/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04
Bromoform	60 u	66 u	61 u	46 u	48 u	56 u	59 u	53 uJ	46 uJ	46 uJ	45 uJ
Bromomethane	60 u	66 uJ	61 uJ	46 u	48 uJ	56 u	59 u	53 uJ	46 uJ	46 uJ	45 uJ
Carbon disulfide	60 uJ	66 uJ	61 uJ	46 uJ	48 uJ	56 uJ	59 uJ	53 uJ	46 uJ	46 uJ	45 uJ
Carbon tetrachloride	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 uJ	23 uJ	23 uJ	23 uJ
Chlorobenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Chloroethane	60 u	66 u	61 u	46 u	48 u	56 u	59 u	53 u	46 u	46 u	45 u
Chloroform	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Chloromethane	60 u	66 u	61 u	46 u	48 u	56 u	59 u	53 u	46 u	46 u	45 u
cis-1,2-Dichloroethene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
cis-1,3-Dichloropropene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 uJ	23 uJ	23 uJ	23 uJ
Dibromochloromethane	30 u	33 u	31 u	23 uJ	24 u	28 uJ	30 uJ	27 uJ	23 uJ	23 uJ	23 uJ
Dibromomethane	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Dichlorodifluoromethane	60 uJ	66 uJ	61 uJ	46 u	48 uJ	56 u	59 u	53 uJ	46 uJ	46 uJ	45 uJ
Ethylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Freon-113	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Hexachlorobutadiene	60 u	66 u	61 u	46 u	48 u	56 u	59 u	53 u	46 u	46 u	45 u
Isopropylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
m,p-Xylene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Methyl tert-butyl ether	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 uJ	23 uJ	23 uJ	23 uJ
Methylene chloride	60 u	66 u	61 u	46 u	48 u	56 u	59 u	53 uJ	46 uJ	46 uJ	45 uJ
Naphthalene	60 u	66 u	61 u	46 u	48 u	56 u	59 u	53 uJ	46 uJ	46 uJ	45 uJ
n-Butylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
n-Propylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
o-Xylene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
sec-Butylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Styrene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
tert-Butylbenzene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Tetrachloroethene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Toluene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
trans-1,2-Dichloroethene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
trans-1,3-Dichloropropene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 uJ	23 uJ	23 uJ	23 uJ
Trichloroethene	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u
Trichlorofluoromethane	60 u	66 u	61 u	46 u	48 u	56 u	59 u	53 u	46 u	46 u	45 u
Vinyl chloride	30 u	33 u	31 u	23 u	24 u	28 u	30 u	27 u	23 u	23 u	23 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-23	SEAD63-DDFL-24	SEAD63-DDFL-25	SEAD63-DDFL-26	SEAD63-DDFL-27	SEAD63-DDFL-28	SEAD63-DDFL-29	SEAD63-DDFL-30	SEAD63-DDFL-31	SEAD63-DDFL-32	SEAD63-DDFL-33
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/19/04	05/19/04	05/19/04
Inorganics (%-dry weight):											
Percent Moisture	10.6	19.7	16.3	22.4	31.3	20.4	20.8	25.5	17.3	20.7	15
Metals (mg/Kg-dary):											
Aluminum	11900	13800	13100	10700	6150	15000	12400	16500	15200	16800	13500
Antimony	5.5 u	6 u	5.9 u	6.3 u	7.2 u	6.2 u	6.2 u	6.7 u	5.8 u	6.3 u	5.8 u
Arsenic	6.08	6.21 J	6 J	4.76 J	4.33	5.36 J	6.17	5.88	7.14 J	6.94 J	3.88 J
Barium	68.1	83.3	85.7	68.9	39.1	90.7	66	52.5	92.2 J	204 J	62.5 J
Beryllium	0.55	0.702	0.734	0.571	0.439 J	0.841	0.623	0.671	0.823	0.92	0.662
Cadmium	0.177 J	0.201 J	0.222 J	0.2	0.287 J	0.282 J	0.191 J	0.14 J	0.147 J	0.231 J	0.233 J
Calcium	34400	22600	19700 J	41400	136000	7980	9810	3630	4390 J	4810 J	8400 J
Chromium	20.9	24.5	23.8	19.4	11.6	23.5	24.5	29.7	26.9	26.5	25.3
Cobalt	11.2	10.9	10.9	10.2	7.81 J	10.3	14.1	10.1	10.6 J	14.6	12.8
Copper	30.2	31.4	33.7	26.9	19.1	24.9	42.3	33.2	30.1	30.7	38.1
Iron	23800	26400	28500	22700	12600	25400	29900	33800	30900	31700	26500
Lead	19.2 J	29.3 J	25.1 J	23.8 J	24.8 J	24.3 J	23.1	28.8 J	22.1	15.2	20.5
Magnesium	10300	7960	7890	8220	16200	4870	7560	5710	5430	5450	5880
Manganese	312 J	334 J	460 J	355 J	431 J	312 J	394	216 J	455 J	537	257 J
Mercury	0.052 u	0.0339 J	0.0291 J	0.0318 J	0.0397 J	0.0642	0.0358 J	0.0407 J	0.0306 J	0.1	0.0336 J
Nickel	39.6	37.4	40.8	33.7	23.3	33.6	60	43.6	43.2	39.1	49.3
Potassium	1250	1570	1020	1190	1050	1430	734 J	1290	1370	1730	1260
Selenium	1.4 uJ	1.5 uJ	1.5 u	1.6 uJ	1.8 uJ	1.6 u	1.5 u	1.7 u	1.8 J	0.622 J	0.557 J
Silver	1.9 u	0.249 J	0.29 J	0.264 J	0.24 J	0.222 J	0.365 J	0.512 J	0.503 J	0.547 J	0.416 J
Sodium	474	107 J	146 J	202 J	171 J	106 J	129 J	108 J	139 J	83.9 J	58 J
Thallium	1.4 R	1.5 R	1.5 R	1.6 R	1.8 R	1.6 R	1.5 u	1.7 R	1.4 R	1.6 R	1.5 R
Vanadium	20.7	26.8	22.5	20.1	20.3	27.2	19.7	26.4	26.3	32.4	20.1
Zinc	108	118	93.8	75.2	73.4	103	147	117	118 R	80.6 J	145 J
Polychlorinated biphenyls (µg/Kg-dry weight):											
Aroclor 1016	28 uJ	31 uJ	30 uJ	31 uJ	36 uJ	31 uJ	31 uJ	32 uJ	29 u	31 u	29 u
Aroclor 1221	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Aroclor 1232	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Aroclor 1242	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Aroclor 1248	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Aroclor 1254	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Aroclor 1260	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Pesticides (µg/Kg-dry weight):											
4,4'-DDD	1.8 uJ	2 uJ	1.9 uJ	2 uJ	2.3 uJ	2 uJ	2 uJ	2.1 uJ	1.9 u	2 uJ	1.9 uJ
4,4'-DDE	1.8 uJ	2 uJ	1.9 uJ	1.8 uJ	2.3 uJ	1.1 uJ	2 uJ	2.1 uJ	1.9 u	2 u	1.9 u
4,4'-DDT	1.8 uJ	2 uJ	1.9 uJ	2 J	2.3 uJ	2 J	2 uJ	2.1 uJ	1.9 u	2 uJ	1.9 uJ
Aldrin	0.89 uJ	0.99 uJ	0.95 uJ	1 uJ	1.2 uJ	1 uJ	0.99 uJ	1 uJ	0.93 u	0.98 uJ	0.94 uJ
alpha-BHC	0.89 u	0.99 u	0.95 u	1 u	1.2 u	1 u	0.99 u	1 u	0.93 uJ	0.98 uJ	0.94 uJ
alpha-Chlordane	0.89 uJ	0.99 uJ	0.95 uJ	1 uJ	1.2 uJ	1 uJ	0.99 uJ	1 uJ	0.93 u	0.98 u	0.94 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-23	SEAD63-DDFL-24	SEAD63-DDFL-25	SEAD63-DDFL-26	SEAD63-DDFL-27	SEAD63-DDFL-28	SEAD63-DDFL-29	SEAD63-DDFL-30	SEAD63-DDFL-31	SEAD63-DDFL-32	SEAD63-DDFL-33
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/19/04	05/19/04	05/19/04
beta-BHC	0.89 u	0.99 u	0.95 u	1 u	1.2 u	1 u	0.99 u	1 u	0.93 u	0.98 u	0.94 u
delta-BHC	0.89 u	0.99 u	0.95 u	1 u	1.2 u	1 u	0.99 u	1 u	0.93 u	0.98 u	0.94 u
Dieldrin	1.8 uJ	2 uJ	1.9 uJ	2 uJ	2.3 uJ	2 uJ	2 uJ	2.1 uJ	1.9 u	2 uJ	1.9 uJ
Endosulfan I	0.89 uJ	0.99 uJ	0.95 uJ	1 uJ	1.2 uJ	1 uJ	0.99 uJ	1 uJ	0.93 u	0.98 u	0.94 u
Endosulfan II	1.8 uJ	2 uJ	1.9 uJ	2 uJ	2.3 uJ	2 uJ	2 uJ	2.1 uJ	1.9 u	2 u	1.9 u
Endosulfan sulfate	1.8 uJ	2 uJ	1.9 uJ	2 uJ	2.3 uJ	2 uJ	2 uJ	2.1 uJ	1.9 uJ	2 uJ	1.9 uJ
Endrin	1.8 uJ	2 uJ	1.9 uJ	2 uJ	2.3 uJ	2 uJ	2 uJ	2.1 uJ	1.9 u	2 u	1.9 u
Endrin aldehyde	1.8 uJ	2 uJ	1.9 uJ	2 uJ	2.3 uJ	2 uJ	2 uJ	2.1 uJ	1.9 u	2 uJ	1.9 uJ
Endrin ketone	1.8 uJ	2 uJ	1.9 uJ	2 uJ	2.3 uJ	2 uJ	2 uJ	2.1 uJ	1.9 uJ	2 uJ	1.9 uJ
gamma-BHC	0.89 u	0.99 u	0.95 u	1 u	1.2 u	1 u	0.99 u	1 u	0.93 u	0.98 u	0.94 u
gamma-Chlordane	0.89 uJ	0.99 uJ	0.95 uJ	1 uJ	1.2 uJ	1 uJ	0.99 uJ	1 uJ	0.93 u	0.98 u	0.94 u
Heptachlor	0.89 uJ	0.99 uJ	0.95 uJ	1 uJ	1.2 uJ	1 uJ	0.99 uJ	1 uJ	0.93 u	0.98 u	0.94 u
Heptachlor epoxide	0.89 uJ	0.99 uJ	0.95 uJ	1 uJ	1.2 uJ	1 uJ	0.99 uJ	1 uJ	0.93 u	0.98 u	0.94 u
Methoxychlor	8.9 uJ	9.9 uJ	9.5 uJ	10 uJ	12 uJ	10 uJ	9.9 uJ	10 uJ	9.3 uJ	9.8 uJ	9.4 uJ
Technical Chlordane	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Toxaphene	28 u	31 u	30 u	31 u	36 u	31 u	31 u	32 u	29 u	31 u	29 u
Semi-Volatile Organic Compounds (µg/Kg-dry w											
1,2,4-Trichlorobenzene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
1,2-Dichlorobenzene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
1,2-Diphenylhydrazine (as Azobenzene)	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
1,3-Dichlorobenzene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
1,4-Dichlorobenzene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2,4,5-Trichlorophenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2,4,6-Trichlorophenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2,4-Dichlorophenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2,4-Dimethylphenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2,4-Dinitrophenol	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
2,4-Dinitrotoluene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2,6-Dinitrotoluene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2-Chloronaphthalene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2-Chlorophenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2-Methylnaphthalene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2-Methylphenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
2-Nitroaniline	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
2-Nitrophenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
3,3'-Dichlorobenzidine	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-23	SEAD63-DDFL-24	SEAD63-DDFL-25	SEAD63-DDFL-26	SEAD63-DDFL-27	SEAD63-DDFL-28	SEAD63-DDFL-29	SEAD63-DDFL-30	SEAD63-DDFL-31	SEAD63-DDFL-32	SEAD63-DDFL-33
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/19/04	05/19/04	05/19/04
3-Nitroaniline	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
4,6-Dinitro-2-methylphenol	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
4-Bromophenyl phenyl ether	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
4-Chloro-3-methylphenol	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
4-Chloroaniline	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
4-Chlorophenyl phenyl ether	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
4-Methylphenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
4-Nitroaniline	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
4-Nitrophenol	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
Acenaphthene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Acenaphthylene	280 u	310 u	300 u	320 u	90 J	310 u	310 u	330 u	300 u	300 u	290 u
Anthracene	280 u	310 u	300 u	320 u	88 J	310 u	310 u	330 u	300 u	300 u	290 u
Benz(a)anthracene	280 u	310 u	160 J	320 u	250 J	310 u	310 u	330 u	300 u	80 J	290 u
Benzo(a)pyrene	64 J	310 u	170 J	320 u	280 J	310 u	310 u	330 u	300 u	93 J	290 u
Benzo(b)fluoranthene	84 J	310 u	230 J	74 J	380	310 u	310 u	330 u	300 u	100 J	290 u
Benzo(g,h,i)perylene	61 J	310 u	110 J	320 u	220 J	310 u	310 u	330 u	300 u	77 J	290 u
Benzo(k)fluoranthene	280 u	310 u	76 J	320 u	120 J	310 u	310 u	330 u	300 u	300 u	290 u
Benzoic acid	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
Benzyl alcohol	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
Bis(2-chloroethoxy)methane	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Bis(2-chloroethyl)ether	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Bis(2-chloroisopropyl)ether	280 uJ	310 uJ	300 uJ	320 uJ	360 uJ	310 uJ	310 uJ	330 uJ	300 uJ	300 uJ	290 uJ
Bis(2-ethylhexyl)phthalate	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Butyl benzyl phthalate	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Carbazole	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Chrysene	280 u	310 u	160 J	320 u	330 J	310 u	310 u	330 u	300 u	79 J	290 u
Dibenz(a,h)anthracene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Dibenzofuran	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Diethyl phthalate	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Dimethyl phthalate	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Di-n-butyl phthalate	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Di-n-octyl phthalate	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Fluoranthene	67 J	310 u	260 J	320 u	430	310 u	310 u	330 u	300 u	110 J	290 u
Fluorene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Hexachlorobenzene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Hexachlorobutadiene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Hexachlorocyclopentadiene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Hexachloroethane	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Indeno(1,2,3-cd)pyrene	67 J	310 u	140 J	320 u	240 J	310 u	310 u	330 u	300 u	300 u	290 u
Isophorone	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-23	SEAD63-DDFL-24	SEAD63-DDFL-25	SEAD63-DDFL-26	SEAD63-DDFL-27	SEAD63-DDFL-28	SEAD63-DDFL-29	SEAD63-DDFL-30	SEAD63-DDFL-31	SEAD63-DDFL-32	SEAD63-DDFL-33
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/19/04	05/19/04	05/19/04
Naphthalene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Nitrobenzene	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
N-Nitrosodi-n-propylamine	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
N-Nitrosodiphenylamine	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Pentachlorophenol	550 u	620 u	600 u	640 u	720 u	620 u	620 u	650 u	590 u	610 u	570 u
Phenanthrene	280 u	310 u	84 J	320 u	340 J	310 u	310 u	330 u	300 u	300 u	290 u
Phenol	280 u	310 u	300 u	320 u	360 u	310 u	310 u	330 u	300 u	300 u	290 u
Pyrene	72 J	310 u	260 J	320 u	510	310 u	310 u	330 u	300 u	120 J	290 u
Volatile Organic Compounds (VOCs) (µg/Kg-dry)											
1,1,1,2-Tetrachloroethane	23 uJ	26 uJ	24 u	26 uJ	30 uJ	27 uJ	27 uJ	30 uJ	29 uJ	28 uJ	24 uJ
1,1,1-Trichloroethane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 uJ	28 uJ	24 uJ
1,1,2,2-Tetrachloroethane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 uJ	28 uJ	24 uJ
1,1,2-Trichloroethane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,1-Dichloroethane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 uJ	28 uJ	24 uJ
1,1-Dichloroethene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,1-Dichloropropene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,2,3-Trichlorobenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 uJ	28 uJ	24 uJ
1,2,3-Trichloropropane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,2,4-Trichlorobenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 uJ	28 uJ	24 uJ
1,2,4-Trimethylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,2-Dibromo-3-chloropropane	120 uJ	130 uJ	120 u	130 uJ	150 uJ	130 uJ	140 uJ	150 u	140 uJ	140 uJ	120 uJ
1,2-Dibromoethane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,2-Dichlorobenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,2-Dichloroethane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,2-Dichloropropane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,3,5-Trimethylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,3-Dichlorobenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 uJ	29 uJ	28 uJ	24 uJ
1,3-Dichloropropane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
1,4-Dichlorobenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
2,2-Dichloropropane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 uJ	29 u	28 u	24 u
2-Butanone	120 u	130 u	120 u	130 u	150 u	130 u	140 u	150 u	140 u	140 u	120 u
2-Chlorotoluene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
2-Hexanone	230 u	260 u	240 u	260 u	300 u	270 u	270 u	300 uJ	290 u	280 u	240 u
4-Chlorotoluene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
4-Isopropyltoluene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
4-Methyl-2-pentanone	230 u	260 u	240 u	260 u	300 u	270 u	270 u	300 u	290 u	280 u	240 u
Acetone	120 R	130 R	120 R	130 R	150 R	130 R	140 R	150 R	140 R	140 R	120 R
Benzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Bromobenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 uJ	28 uJ	24 uJ
Bromochloromethane	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Bromodichloromethane	23 uJ	26 uJ	24 u	26 uJ	30 uJ	27 uJ	27 uJ	30 uJ	29 uJ	28 uJ	24 uJ

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-23	SEAD63-DDFL-24	SEAD63-DDFL-25	SEAD63-DDFL-26	SEAD63-DDFL-27	SEAD63-DDFL-28	SEAD63-DDFL-29	SEAD63-DDFL-30	SEAD63-DDFL-31	SEAD63-DDFL-32	SEAD63-DDFL-33
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/18/04	05/19/04	05/19/04	05/19/04
Bromoform	46 uJ	52 uJ	48 u	51 uJ	60 uJ	53 uJ	55 uJ	61 uJ	57 uJ	56 uJ	49 uJ
Bromomethane	46 uJ	52 uJ	48 u	51 uJ	60 uJ	53 uJ	55 uJ	61 u	57 u	56 u	49 u
Carbon disulfide	46 uJ	52 uJ	48 uJ	51 uJ	60 uJ	53 uJ	55 uJ	61 uJ	57 u	56 u	49 u
Carbon tetrachloride	23 uJ	26 uJ	24 u	26 uJ	30 uJ	27 uJ	27 uJ	30 u	29 uJ	28 uJ	24 uJ
Chlorobenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Chloroethane	46 u	52 u	48 u	51 u	60 u	53 u	55 u	61 u	57 u	56 u	49 u
Chloroform	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Chloromethane	46 u	52 u	48 u	51 u	60 u	53 u	55 u	61 u	57 u	56 u	49 u
cis-1,2-Dichloroethene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
cis-1,3-Dichloropropene	23 uJ	26 uJ	24 u	26 uJ	30 uJ	27 uJ	27 uJ	30 u	29 u	28 u	24 u
Dibromochloromethane	23 uJ	26 uJ	24 u	26 uJ	30 uJ	27 uJ	27 uJ	30 uJ	29 R	28 R	24 R
Dibromomethane	23 u	26 u	24 uJ	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Dichlorodifluoromethane	46 uJ	52 uJ	48 u	51 uJ	60 uJ	53 uJ	55 uJ	61 uJ	57 u	56 u	49 u
Ethylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Freon-113	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Hexachlorobutadiene	46 u	52 u	48 u	51 u	60 u	53 u	55 u	61 u	57 uJ	56 uJ	49 uJ
Isopropylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 uJ	28 uJ	24 uJ
m,p-Xylene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Methyl tert-butyl ether	23 uJ	26 uJ	24 u	26 uJ	30 uJ	27 uJ	27 uJ	30 uJ	29 uJ	28 uJ	24 uJ
Methylene chloride	46 uJ	52 uJ	48 u	51 uJ	60 uJ	53 uJ	55 uJ	61 u	57 u	56 u	49 u
Naphthalene	46 uJ	52 uJ	48 u	51 uJ	60 uJ	53 uJ	55 uJ	61 u	57 uJ	56 uJ	49 uJ
n-Butylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
n-Propylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 uJ	29 uJ	28 uJ	24 uJ
o-Xylene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
sec-Butylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Styrene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
tert-Butylbenzene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Tetrachloroethene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Toluene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
trans-1,2-Dichloroethene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
trans-1,3-Dichloropropene	23 uJ	26 uJ	24 u	26 uJ	30 uJ	27 uJ	27 uJ	30 uJ	29 uJ	28 uJ	24 uJ
Trichloroethene	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u
Trichlorofluoromethane	46 u	52 u	48 u	51 u	60 u	53 u	55 u	61 u	57 u	56 u	49 u
Vinyl chloride	23 u	26 u	24 u	26 u	30 u	27 u	27 u	30 u	29 u	28 u	24 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-34	SEAD63-DDFL-35	SEAD63-DDFL-36	SEAD63-DDFL-37	SEAD63-DDFL-38	SEAD63-DDFL-39	SEAD63-DDFL-FD01	SEAD63-DDFL-FD02	SEAD63-DDFL-FD03	SEAD63-DDFL-FD04
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/17/04	05/18/04	05/18/04	05/19/04
Inorganics (%-dry weight):										
Percent Moisture	29.7	19.6	16.5	17.6	17.6	20.1	15.8	12.9	15.2	21.9
Metals (mg/Kg-dary):										
Aluminum	10700	12300	15000	14800	9750	17100	12000	9100	10000	15000
Antimony	7 u	6.2 u	5.8 u	6 u	5.9 u	6 u	5.8 u	5.6 u	5.5 u	6.10 u
Arsenic	6.59 J	6.38 J	8.55 J	7.18 J	6.23 J	7.28 J	5.4	3.7	5.4	14
Barium	42.6 J	51.3 J	57.6 J	52.2 J	46.4 J	78.3 J	56	90	59	110
Beryllium	0.51	0.585	0.701	0.674	0.617	1.03	0.6	0.41	0.57	1
Cadmium	0.16 J	0.187 J	0.158 J	0.27 J	0.224 J	0.26 J	0.22 J	0.039 J	0.26 J	1.2
Calcium	37400 J	24200 J	4000 J	4110 J	63400 J	2630 J	25000	2500	69000	4800
Chromium	21.1	27.8	30.1	30	19.1	30.3	22	14	18	28
Cobalt	10.3	9.97	15.4	16.5	9.89	19.3	12	5.9 J	9.7	32
Copper	36	23.5	44.2	39.1	28	38.1	36	21	29	47
Iron	24200	25300	34100	33900	21100	33100	26000	18000	23000	34000
Lead	35.3	21.2	35.5	29.6	25.6	27.1	18	6.7	18	41
Magnesium	11300	10200	7210	7070	15000 J	6000	6800	3400	7000	5700
Manganese	344 J	294 J	303 J	375 J	275	450 J	480	160	400	2000
Mercury	0.0391 J	0.0324 J	0.0393 J	0.0446 J	0.0363 J	0.0455 J	0.035 J	0.035 J	0.034 J	0.039 J
Nickel	49.4	38.1	69.5	66.2	42.4	59.6	47	22	34	80
Potassium	1670	1270	1540	1430	1150	1250	2300	790	850	1400
Selenium	0.853 J	0.712 J	0.421 J	0.724 J	0.643 J	0.64 J	1.5 u	1.4 u	1.4 u	1.1 J, MSA
Silver	0.508 J	0.372 J	0.479 J	0.491 J	0.372 J	0.452 J	0.27 J	0.15 J	0.19 J	0.43 J
Sodium	88.7 J	312 J	60.4 J	242 J	112 J	89.2 J	71 J	42 J	67 J	65 J
Thallium	1.7 R	1.5 R	1.4 R	1.5 R	1.5 R	1.5 R	1.5 u	1.4 u	1.4 u	1.50 u
Vanadium	21.9	27.1	25.7	23.6	22.8	25	19	16	20	27
Zinc	79.2 J	101 J	132 J	203 J	108 J	172 J	110	50	80	150
Polychlorinated biphenyls (µg/Kg-dry weight):										
Aroclor 1016	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Aroclor 1221	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Aroclor 1232	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Aroclor 1242	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Aroclor 1248	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Aroclor 1254	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Aroclor 1260	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Pesticides (µg/Kg-dry weight):										
4,4'-DDD	2.2 uJ	2 uJ	1.8 uJ	1.9 uJ	1.6 J	2 uJ	1.8 u	1.8 u	1.9 u	2 u
4,4'-DDE	3.3 u	2 u	1.8 u	1.2 u	2.2 u	2 u	1.8 u	1.8 u	1.9 u	2 u
4,4'-DDT	1.8 uJ	2 uJ	1.8 uJ	1.9 uJ	1.3 J	2 uJ	1.8 u	1.8 u	1.9 u	2 u
Aldrin	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u
alpha-BHC	1.1 uJ	0.99 uJ	0.92 uJ	0.96 uJ	0.94 uJ	0.99 uJ	0.91 u	0.9 u	0.93 u	1 u
alpha-Chlordane	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-34	SEAD63-DDFL-35	SEAD63-DDFL-36	SEAD63-DDFL-37	SEAD63-DDFL-38	SEAD63-DDFL-39	SEAD63-DDFL-FD01	SEAD63-DDFL-FD02	SEAD63-DDFL-FD03	SEAD63-DDFL-FD04
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/17/04	05/18/04	05/18/04	05/19/04
beta-BHC	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u
delta-BHC	1.1 uJ	0.99 uJ	0.92 uJ	0.96 uJ	0.94 uJ	0.99 uJ	0.91 u	0.9 u	0.93 u	1 u
Dieldrin	2.2 uJ	2 uJ	1.8 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 u	1.8 u	1.9 u	2 u
Endosulfan I	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u
Endosulfan II	2.2 u	2 u	1.8 u	1.9 u	1.9 u	2 u	1.8 u	1.8 u	1.9 u	2 u
Endosulfan sulfate	2.2 uJ	2 uJ	1.8 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 u	1.8 u	1.9 u	2 u
Endrin	2.2 u	2 u	1.8 u	1.9 u	1.9 u	2 u	1.8 u	1.8 u	1.9 u	2 u
Endrin aldehyde	2.2 uJ	2 uJ	1.8 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 u	1.8 u	1.9 u	2 u
Endrin ketone	2.2 uJ	2 uJ	1.8 uJ	1.9 uJ	1.9 uJ	2 uJ	1.8 u	1.8 u	1.9 u	2 u
gamma-BHC	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u
gamma-Chlordane	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u
Heptachlor	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u
Heptachlor epoxide	1.1 u	0.99 u	0.92 u	0.96 u	0.94 u	0.99 u	0.91 u	0.9 u	0.93 u	1 u
Methoxychlor	11 uJ	9.9 uJ	9.2 uJ	9.6 uJ	9.4 uJ	9.9 uJ	9.1 u	9 u	9.3 u	10 u
Technical Chlordane	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Toxaphene	35 u	31 u	29 u	30 u	29 u	31 u	29 u	28 u	29 u	32 u
Semi-Volatile Organic Compounds (µg/Kg-dry w										
1,2,4-Trichlorobenzene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
1,2-Dichlorobenzene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
1,2-Diphenylhydrazine (as Azobenzene)	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
1,3-Dichlorobenzene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
1,4-Dichlorobenzene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2,4,5-Trichlorophenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2,4,6-Trichlorophenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2,4-Dichlorophenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2,4-Dimethylphenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2,4-Dinitrophenol	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
2,4-Dinitrotoluene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2,6-Dinitrotoluene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2-Chloronaphthalene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2-Chlorophenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2-Methylnaphthalene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2-Methylphenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
2-Nitroaniline	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
2-Nitrophenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
3,3'-Dichlorobenzidine	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-34	SEAD63-DDFL-35	SEAD63-DDFL-36	SEAD63-DDFL-37	SEAD63-DDFL-38	SEAD63-DDFL-39	SEAD63-DDFL-FD01	SEAD63-DDFL-FD02	SEAD63-DDFL-FD03	SEAD63-DDFL-FD04
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/17/04	05/18/04	05/18/04	05/19/04
3-Nitroaniline	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
4,6-Dinitro-2-methylphenol	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
4-Bromophenyl phenyl ether	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
4-Chloro-3-methylphenol	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
4-Chloroaniline	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
4-Chlorophenyl phenyl ether	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
4-Methylphenol	380	69 J	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
4-Nitroaniline	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
4-Nitrophenol	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
Acenaphthene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Acenaphthylene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Anthracene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	62 J	320 u
Benz(a)anthracene	350 u	65 J	96 J	300 u	62 J	300 u	61 J	280 u	200 J	92 J
Benzo(a)pyrene	350 u	77 J	110 J	300 u	67 J	300 u	290 u	280 u	210 J	90 J
Benzo(b)fluoranthene	350 u	110 J	160 J	87 J	91 J	300 u	63 J	280 u	280 J	130 J
Benzo(g,h,i)perylene	350 u	75 J	97 J	300 u	300 u	300 u	290 u	280 u	130 J	66 J
Benzo(k)fluoranthene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	97 J	320 u
Benzoic acid	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
Benzyl alcohol	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
Bis(2-chloroethoxy)methane	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Bis(2-chloroethyl)ether	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Bis(2-chloroisopropyl)ether	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Bis(2-ethylhexyl)phthalate	89 J	310 u	290 u	300 u	300 u	300 u	92 J	280 u	290 u	320 u
Butyl benzyl phthalate	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Carbazole	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Chrysene	350 u	72 J	120 J	64 J	70 J	300 u	85 J	280 u	180 J	90 J
Dibenz(a,h)anthracene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Dibenzofuran	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Diethyl phthalate	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Dimethyl phthalate	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Di-n-butyl phthalate	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Di-n-octyl phthalate	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Fluoranthene	350 u	94 J	150 J	77 J	88 J	300 u	97 J	280 u	360	140 J
Fluorene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Hexachlorobenzene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Hexachlorobutadiene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Hexachlorocyclopentadiene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Hexachloroethane	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Indeno(1,2,3-cd)pyrene	350 u	70 J	95 J	300 u	61 J	300 u	290 u	280 u	170 J	69 J
Isophorone	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-34	SEAD63-DDFL-35	SEAD63-DDFL-36	SEAD63-DDFL-37	SEAD63-DDFL-38	SEAD63-DDFL-39	SEAD63-DDFL-FD01	SEAD63-DDFL-FD02	SEAD63-DDFL-FD03	SEAD63-DDFL-FD04
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/17/04	05/18/04	05/18/04	05/19/04
Naphthalene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Nitrobenzene	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
N-Nitrosodi-n-propylamine	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
N-Nitrosodiphenylamine	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Pentachlorophenol	690 u	610 u	570 u	600 u	600 u	600 u	580 u	560 u	580 u	640 u
Phenanthrene	350 u	310 u	80 J	300 u	300 u	300 u	290 u	280 u	210 J	76 J
Phenol	350 u	310 u	290 u	300 u	300 u	300 u	290 u	280 u	290 u	320 u
Pyrene	350 u	92 J	160 J	77 J	84 J	300 u	79 J	280 u	320 u	140 J
Volatile Organic Compounds (VOCs) (µg/Kg-dry)										
1,1,1,2-Tetrachloroethane	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
1,1,1-Trichloroethane	32 uJ	24 uJ	27 uJ	24 uJ	25 uJ	26 u	22 u	23 u	23 u	28 u
1,1,2,2-Tetrachloroethane	32 uJ	24 uJ	27 uJ	24 uJ	25 uJ	26 u	22 u	23 u	23 u	28 u
1,1,2-Trichloroethane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,1-Dichloroethane	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
1,1-Dichloroethene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,1-Dichloropropene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,2,3-Trichlorobenzene	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
1,2,3-Trichloropropane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,2,4-Trichlorobenzene	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
1,2,4-Trimethylbenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,2-Dibromo-3-chloropropane	160 uJ	120 uJ	130 uJ	120 uJ	120 uJ	130 u	110 u	120 u	120 u	140 u
1,2-Dibromoethane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,2-Dichlorobenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,2-Dichloroethane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,2-Dichloropropane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,3,5-Trimethylbenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,3-Dichlorobenzene	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
1,3-Dichloropropane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
1,4-Dichlorobenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
2,2-Dichloropropane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
2-Butanone	160 u	120 u	130 u	120 u	120 u	130 u	110 u	120 u	120 u	140 u
2-Chlorotoluene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
2-Hexanone	320 u	240 u	270 u	240 u	250 u	260 u	220 u	230 u	230 u	280 u
4-Chlorotoluene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
4-Isopropyltoluene	32 u	39 u	27 u	25 u	25 u	26 u	22 u	23 u	23 u	28 u
4-Methyl-2-pentanone	320 u	240 u	270 u	240 u	250 u	260 u	220 u	230 u	230 u	280 u
Acetone	160 R	120 R	130 R	120 R	120 R	130 u	110 u	120 u	120 u	140 u
Benzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Bromobenzene	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
Bromochloromethane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Bromodichloromethane	32 uJ	24 uJ	27 uJ	24 uJ	25 uJ	26 u	22 u	23 u	23 u	28 u

Table C.5.2 - Laboratory Results for Soil Samples, Final Limits of Drainage Ditch Excavations - All Data

Parameter	SEAD63-DDFL-34	SEAD63-DDFL-35	SEAD63-DDFL-36	SEAD63-DDFL-37	SEAD63-DDFL-38	SEAD63-DDFL-39	SEAD63-DDFL-FD01	SEAD63-DDFL-FD02	SEAD63-DDFL-FD03	SEAD63-DDFL-FD04
Location	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor	Sidewall	Sidewall	Sidewall	Sidewall
Date	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/19/04	05/17/04	05/18/04	05/18/04	05/19/04
Bromoform	65 uJ	48 uJ	54 uJ	48 uJ	49 uJ	53 u	45 u	46 u	46 u	57 u
Bromomethane	65 u	48 u	54 u	48 u	49 u	53 u	45 u	46 u	46 u	57 u
Carbon disulfide	65 u	48 u	54 u	48 u	49 uJ	53 u	45 u	46 u	46 u	57 u
Carbon tetrachloride	32 uJ	24 uJ	27 uJ	24 uJ	25 uJ	26 u	22 u	23 u	23 u	28 u
Chlorobenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Chloroethane	65 u	48 u	54 u	48 u	49 u	53 u	45 u	46 u	46 u	57 u
Chloroform	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Chloromethane	65 u	48 u	54 u	48 u	49 u	53 u	45 u	46 u	46 u	57 u
cis-1,2-Dichloroethene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
cis-1,3-Dichloropropene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Dibromochloromethane	32 R	24 R	27 R	24 R	25 uJ	26 u	22 u	23 u	23 u	28 u
Dibromomethane	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Dichlorodifluoromethane	65 u	48 u	54 u	48 u	49 u	53 u	45 u	46 u	46 u	57 u
Ethylbenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Freon-113	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Hexachlorobutadiene	65 uJ	48 uJ	54 uJ	48 uJ	49 u	53 u	45 u	46 u	46 u	57 u
Isopropylbenzene	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
m,p-Xylene	32 u	24 u	27 u	24 u	24 J	26 u	22 u	23 u	23 u	28 u
Methyl tert-butyl ether	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
Methylene chloride	65 u	48 u	54 u	48 u	49 u	53 u	45 u	46 u	46 u	57 u
Naphthalene	65 uJ	48 uJ	54 uJ	48 uJ	49 u	53 u	45 u	46 u	46 u	57 u
n-Butylbenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
n-Propylbenzene	32 uJ	24 uJ	27 uJ	24 uJ	25 u	26 u	22 u	23 u	23 u	28 u
o-Xylene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
sec-Butylbenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Styrene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
tert-Butylbenzene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Tetrachloroethene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Toluene	32 u	24 u	27 u	24 u	27 u	26 u	22 u	23 u	23 u	24 J
trans-1,2-Dichloroethene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
trans-1,3-Dichloropropene	32 uJ	24 uJ	27 uJ	24 uJ	25 uJ	26 u	22 u	23 u	23 u	28 u
Trichloroethene	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u
Trichlorofluoromethane	65 u	48 u	54 u	48 u	49 u	53 u	45 u	46 u	46 u	57 u
Vinyl chloride	32 u	24 u	27 u	24 u	25 u	26 u	22 u	23 u	23 u	28 u

NOTES:

5.80 - Blue-colored value indicates exceedance of the higher of New York State Department of Environmental Conservation (NYSDEC) TAGM soil cleanup goal or Seneca Army Depot Activity (SEDA)

1.4 - Gray-shading indicates Practical Quantitation Limit (PQL) exceeds cleanup goal

* NYSDEC TAGM soil cleanup goal for total (m,p,o)-Xylenes is 1,200 µg/Kg

** 1,000 µg/Kg for surface soil, 10,000 µg/Kg for subsurface soil

*** NYSDEC TAGM soil cleanup goal for total Chlordane is 540 µg/Kg

**** Value indicated, and total SVOCs <500,000 µg/Kg

***** Value for total 1,2-dicchloroethenes

"**TAGM**" means Technical and Administrative Guidance Memorandum #4046 - Determination of Soil Cleanup Objectives and Cleanup Goals (NYSDEC)

"**µg/kg**" means micrograms/Kilogram

"**mg/Kg**" means milligrams/Kilogram

"**SB**" means Site Background

"**N/A**" means Not Applicable (NYSDEC-specified TAGM criterion)

"**J**" is a laboratory Quality Control (QC) qualifier indicating detection below PQLs

"**u**" is a QC qualifier indicating the compound was Not Detected, or ND, at or above the MDL

"**R**" is a QC qualifier tagged by the Data Validator indicating a Relative Percent Difference (RPD) outside accepted recovery limits

**Table C.6.1 - Laboratory Results for Disposal Characterization
Samples - Four Inch Plus Material**

Parameter	RCRA TCLP Regulatory Limit	Units	SEAD63-DBW-02	SEAD63-DBW-08
Date Sample Collected:			04/08/04	04/28/04
TCLP Metals:				
Arsenic	5	mg/L	1.0 u	1.0 u
Barium	100	mg/L	2.0 u	2.0 u
Cadmium	1	mg/L	0.26	0.16
Chromium	5	mg/L	0.1 u	0.1 u
Lead	5	mg/L	40	1 u
Mercury	0.2	mg/L	0.001 u	0.001 u
Selenium	1	mg/L	0.58 u	0.58 u
Silver	5	mg/L	0.10 u	0.10 u

Notes:

"mg/L" means milligram per liter

"u" is a laboratory quality control qualifier indicating analyte not detected at or above the Reporting Limit (RL)

"RCRA" means Resource Conservation and Recovery Act

"TCLP" means Toxicity Characteristic Leaching Procedure

Table C.6.1 - Laboratory Results for Disposal Characterization Samples - Four Inch Plus Material

Sample ID Number	Sample Collection Date	Sample Location	Matrix & Source	Sample Type	Gross Alpha				Gross Beta				
					Result	Uncertainty (+/-)	Units	Qual*	Result	Uncertainty (+/-)	Units	Qual*	
Gross Alpha/Beta:													
SEAD63-DBW-01	04/08/04	Debris Stockpile	Debris	Sample	0.366	1.00	pCi/g	U	3.25	1.83	pCi/g	U	
SEAD63-DBW-03	04/29/04	Debris Stockpile	Debris	Sample	9.64	1.61	pCi/g		22.2	1.94	pCi/g		

NOTES:

Reporting limit for Alpha is 4.0 pCi/g; reporting limit for Beta is 10.0 pCi/g

Laboratory analysis by General Engineering Laboratories, LLC

Qual* denotes laboratory qualifier

U denotes parameter not detected above Method Detection Limit

Shaded value(s) indicate concentrations exceeding the upper bound of the statistically-derived site background value in soil (14.57 pCi/g for Alpha; 40.44 pCi/g for Beta)

Location:		Debris Stockpile							
Matrix & Source:		Debris							
Sample ID Number:		SEAD63-DBW-03							
Sample Collection Date:		04/29/04							
Parameter	Result	Uncertainty (+/-)	Reporting Limit	Laboratory Qualifier	Parameter	Result	Uncertainty (+/-)	Reporting Limit	Laboratory Qualifier
Gamma Spectroscopy (pCi/g):									
Actinium-227	-0.0368	0.0605	0.800	U	Lead-210	0.774	0.981	4.00	U
Actinium-228	0.0514	0.0374	0.800		Lead-212	0.0621	0.0196	0.100	
Americium-241	0.00593	0.0337	0.200	U	Lead-214	0.0464	0.0201	0.100	
Antimony-124	0.00461	0.00422	0.100	U	Manganese-54	-0.00367	0.0043	0.100	U
Antimony-125	0.018	0.0155	0.200	U	Mercury-203	-0.00168	0.00537	0.100	U
Barium-133	-0.00339	0.0069	0.100	U	Neodymium-147	-0.00826	0.0382	1000	U
Barium-140	-0.0111	0.020	0.500	U	Neptunium-239	0.00376	0.0321	2.00	U
Beryllium-7	0.0128	0.0369	0.700	U	Niobium-94	0.00124	0.0042	1.00	U
Bismuth-212	0.023	0.0364	0.500	U	Niobium-95	-0.00385	0.00467	0.050	U
Bismuth-214	0.00	0.020	0.200	UUI	Potassium-40	0.794	0.146	1.00	
Cerium-139	0.00129	0.00734	0.050	U	Promethium-144	0.000155	0.00478	0.080	U
Cerium-141	0.00417	0.0157	0.100	U	Promethium-146	0.00884	0.00693	1.00	U
Cerium-144	-0.00575	0.0329	0.500	U	Radium-228	0.0514	0.0374	0.500	
Cesium-134	0.00	0.00856	0.100	UUI	Ruthenium-106	0.0381	0.041	0.800	U
Cesium-136	0.00318	0.00668	0.300	U	Silver-110m	0.000318	0.00415	0.080	U
Cesium-137	0.00404	0.00487	0.100	U	Sodium-22	0.00155	0.0047	0.080	U
Chromium-51	-0.0244	0.0442	0.600	U	Thallium-208	0.00	0.0106	0.080	UUI
Cobalt-56	0.00341	0.00427	0.100	U	Thorium-230	0.0389	0.020	1.00	
Cobalt-57	0.00147	0.00418	0.050	U	Thorium-234	0.175	0.289	5.00	U
Cobalt-58	0.000763	0.00441	0.100	U	Tin-113	0.00503	0.00663	0.100	U
Cobalt-60	0.00119	0.00477	0.100	U	Uranium-234	0.0237	0.0318	0.500	U
Europium-152	0.0064	0.0148	0.200	U	Uranium-235	0.0283	0.0635	0.500	U
Europium-154	0.00446	0.0132	0.500	U	Uranium-238	0.175	0.289	1.00	U
Europium-155	-0.00412	0.018	0.500	U	Yttrium-88	0.00187	0.00445	0.100	U
Iridium-192	-0.00111	0.00489	0.100	U	Zinc-65	-0.00172	0.00908	0.300	U
Iron-59	0.0116	0.00962	0.300	U	Zirconium-95	0.00321	0.00791	0.200	U
Tritium (pCi/g):									
Tritium						17.0	3.4	6.00	

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-BPTP-01	SEAD63-BPTP-02	SEAD63-BPTP-03	SEAD63-BPTP-04	SEAD63-BPTP-05	SEAD63-BPTP-06	SEAD63-BPTP-07	SEAD63-BPTP-08
Date Sample Collected:			04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04
Inorganics:										
Corrosivity (pH Solid)		yes/no					no		no	
Ignitability		µg/kg					>200		>200	
pH	2 to 2.5	pH Units					7.2		6.8	
Reactivity, Cyanide	250,000	µg/kg					23 u		26 u	
Reactivity, Sulfide	500,000	mg/kg					120 u		130 u	
Paint Filter Test		yes/no					no free liquid		no free liquid	
% Moisture		%					13.6		22.6	
% Solids	>20	%					86.4		77.4	
TCLP Metals:										
Arsenic	5	mg/L					1.0 u		1.0 u	1.0 u
Barium	100	mg/L					1.0 J		2.0 u	1.1 J
Cadmium	1	mg/L					0.1 u		0.1 u	0.1 u
Chromium	5	mg/L					0.1 u		0.1 u	0.1 u
Lead	5	mg/L					1.0 u		1.0 u	1.0 u
Mercury	0.2	mg/L					0.001 u		0.001 u	0.001 u
Selenium	1	mg/L					0.58 u		0.58 u	0.58 u
Silver	5	mg/L					0.10 u		0.10 u	0.10 u
Polychlorinated biphenyls (PCBs):										
Aroclor 1016		µg/kg					28 u		32 u	
Aroclor 1221		µg/kg					28 u		32 u	
Aroclor 1232		µg/kg					28 u		32 u	
Aroclor 1242		µg/kg					28 u		32 u	
Aroclor 1248		µg/kg					28 u		32 u	
Aroclor 1254		µg/kg					28 u		32 u	
Aroclor 1260		µg/kg					28 u		32 u	
Total	1,000	µg/kg					28 u		32 u	
Pesticides										
4,4'-DDD		µg/kg					1.8 u		2.1 u	
4,4'-DDE		µg/kg					1.8 u		2.1 u	
4,4'-DDT		µg/kg					1.8 u		2.1 u	
Aldrin		µg/kg					0.91 u		1.0 u	
alpha-BHC		µg/kg					0.91 u		1.0 u	
alpha-Chlordane		µg/kg					0.91 u		1.0 u	
beta-BHC		µg/kg					0.91 u		1.0 u	
delta-BHC		µg/kg					0.91 u		1.0 u	
Dieldrin		µg/kg					1.8 u		2.1 u	
Endosulfan I		µg/kg					0.91 u		1.0 u	

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-BPTP-01	SEAD63-BPTP-02	SEAD63-BPTP-03	SEAD63-BPTP-04	SEAD63-BPTP-05	SEAD63-BPTP-06	SEAD63-BPTP-07	SEAD63-BPTP-08
Date Sample Collected:			04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04
Endosulfan II		µg/kg					1.8 u		2.1 u	
Endosulfan sulfate		µg/kg					1.8 u		2.1 u	
Endrin	400	µg/kg					1.8 u		2.1 u	
Endrin aldehyde		µg/kg					1.8 u		2.1 u	
Endrin ketone		µg/kg					1.8 u		2.1 u	
gamma-BHC (Lindane)	8,000	µg/kg					0.91 u		1.0 u	
gamma-Chlordane	600	µg/kg					0.91 u		1.0 u	
Heptachlor	160	µg/kg					0.91 u		1.0 u	
Heptachlor epoxide		µg/kg					0.91 u		1.0 u	
Methoxychlor	200,000	µg/kg					9.1 u		10 u	
Technical Chlordane		µg/kg					28 u		32 u	
Toxaphene	10,000	µg/kg					28 u		32 u	
TCLP Semi-volatile Organic Compounds (SVOCs):										
1,4-Dichlorobenzene	7.5	mg/L				0.040 u		0.040 u		0.040 u
2,4,5-Trichlorophenol	400	mg/L				0.040 u		0.040 u		0.040 u
2,4,6-Trichlorophenol	2.0	mg/L				0.040 u		0.040 u		0.040 u
2,4-Dinitrotoluene	0.1	mg/L				0.040 u		0.040 u		0.040 u
Cresols, Total	200	mg/L				0.040 u		0.040 u		0.040 u
Hexachlorobenzene	0.1	mg/L				0.040 u		0.040 u		0.040 u
Hexachlorobutadiene	0.5	mg/L				0.040 u		0.040 u		0.040 u
Hexachloroethane	3.0	mg/L				0.040 u		0.040 u		0.040 u
Nitrobenzene	2.0	mg/L				0.040 u		0.040 u		0.040 u
Pentachlorophenol	100	mg/L				0.080 u		0.080 u		0.080 u
Pyridine	5.0	mg/L				0.080 u		0.080 u		0.080 u
TCLP Volatile Organic Compounds (VOCs):										
1,1-Dichloroethene	0.5	mg/L	0.020 u	0.020 u	0.020 u					
1,2-Dichloroethane	0.7	mg/L	0.020 u	0.020 u	0.020 u					
1,4-Dichlorobenzene	7.5	mg/L	0.020 u	0.020 u	0.020 u					
Methyl Ethyl Ketone	200	mg/L	0.10 u	0.10 u	0.10 u					
Benzene	0.5	mg/L	0.020 u	0.020 u	0.020 u					
Carbon tetrachloride	0.5	mg/L	0.020 u	0.020 u	0.020 u					
Chlorobenzene	100	mg/L	0.020 u	0.020 u	0.020 u					
Chloroform	6.0	mg/L	0.020 u	0.020 u	0.020 u					
Tetrachloroethene	0.7	mg/L	0.020 u	0.020 u	0.020 u					
Trichloroethene	0.5	mg/L	0.020 u	0.020 u	0.020 u					
VinylChloride	0.2	mg/L	0.020 u	0.020 u	0.020 u					

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-BPTP-09	SEAD63-BPTP-10	SEAD63-BPTP-11	SEAD63-BPTP-12	SEAD63-BPTP-13	SEAD63-BPTP-14	SEAD63-BPTP-15	SEAD63-SLW-01
Date Sample Collected:			04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/20/04
Inorganics:										
Corrosivity (pH Solid)		yes/no	no				no		no	no
Ignitability		µg/kg	>200				>200		>200	>200
pH	2 to 2.5	pH Units	6.6				6.7		6.8	7.3
Reactivity, Cyanide	250,000	µg/kg	26 u				25 u		25 u	25 u
Reactivity, Sulfide	500,000	mg/kg	130 u				130 u		130 u	130 u
Paint Filter Test		yes/no	no free liquid				no free liquid		no free liquid	no free liquid
% Moisture		%	24.4				21.4		25.2	13.1
% Solids	>20	%	75.6				78.6		74.8	86.9
TCLP Metals:										
Arsenic	5	mg/L				1.0 u		1.0 u		0.6 J
Barium	100	mg/L				1.2 J		1.1 J		2.0 u
Cadmium	1	mg/L				0.1 u		0.1 u		0.1 u
Chromium	5	mg/L				0.1 u		0.1 u		0.1 u
Lead	5	mg/L				1.0 u		1.0 u		1.0 u
Mercury	0.2	mg/L				0.001 u		0.001 u		0.001 u
Selenium	1	mg/L				0.58 u		0.58 u		0.58 u
Silver	5	mg/L				0.10 u		0.10 u		0.10 u
Polychlorinated biphenyls (PCBs):										
Aroclor 1016		µg/kg	33 u				31 u		32 u	29 u
Aroclor 1221		µg/kg	33 u				31 u		32 u	29 u
Aroclor 1232		µg/kg	33 u				31 u		32 u	29 u
Aroclor 1242		µg/kg	33 u				31 u		32 u	29 u
Aroclor 1248		µg/kg	33 u				31 u		32 u	29 u
Aroclor 1254		µg/kg	33 u				31 u		32 u	29 u
Aroclor 1260		µg/kg	33 u				31 u		32 u	29 u
Total	1,000	µg/kg	33 u				31 u		32 u	29 u
Pesticides										
4,4'-DDD		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
4,4'-DDE		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
4,4'-DDT		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
Aldrin		µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
alpha-BHC		µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
alpha-Chlordane		µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
beta-BHC		µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
delta-BHC		µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
Dieldrin		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
Endosulfan I		µg/kg	1.0 u				1.0 u		1.0 u	0.92 u

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-BPTP-09	SEAD63-BPTP-10	SEAD63-BPTP-11	SEAD63-BPTP-12	SEAD63-BPTP-13	SEAD63-BPTP-14	SEAD63-BPTP-15	SEAD63-SLW-01
Date Sample Collected:			04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/08/04	04/20/04
Endosulfan II		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
Endosulfan sulfate		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
Endrin	400	µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
Endrin aldehyde		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
Endrin ketone		µg/kg	2.1 u				2.0 u		2.1 u	1.8 u
gamma-BHC (Lindane)	8,000	µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
gamma-Chlordane	600	µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
Heptachlor	160	µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
Heptachlor epoxide		µg/kg	1.0 u				1.0 u		1.0 u	0.92 u
Methoxychlor	200,000	µg/kg	10 u				10 u		10 u	9.2 u
Technical Chlordane		µg/kg	33 u				31 u		32 u	29 u
Toxaphene	10,000	µg/kg	33 u				31 u		32 u	29 u
TCLP Semi-volatile Organic Compounds (SVOCs):										
1,4-Dichlorobenzene	7.5	mg/L				0.040 u		0.040 u		0.040 u
2,4,5-Trichlorophenol	400	mg/L				0.040 u		0.040 u		0.040 u
2,4,6-Trichlorophenol	2.0	mg/L				0.040 u		0.040 u		0.040 u
2,4-Dinitrotoluene	0.1	mg/L				0.040 u		0.040 u		0.040 u
Cresols, Total	200	mg/L				0.040 u		0.040 u		0.040 u
Hexachlorobenzene	0.1	mg/L				0.040 u		0.040 u		0.040 u
Hexachlorobutadiene	0.5	mg/L				0.040 u		0.040 u		0.040 u
Hexachloroethane	3.0	mg/L				0.040 u		0.040 u		0.040 u
Nitrobenzene	2.0	mg/L				0.040 u		0.040 u		0.040 u
Pentachlorophenol	100	mg/L				0.080 u		0.080 u		0.080 u
Pyridine	5.0	mg/L				0.080 u		0.080 u		0.080 u
TCLP Volatile Organic Compounds (VOCs):										
1,1-Dichloroethene	0.5	mg/L		0.020 u	0.020 u					0.020 u
1,2-Dichloroethane	0.7	mg/L		0.020 u	0.020 u					0.020 u
1,4-Dichlorobenzene	7.5	mg/L		0.020 u	0.020 u					0.020 u
Methyl Ethyl Ketone	200	mg/L		0.10 u	0.10 u					0.10 u
Benzene	0.5	mg/L		0.020 u	0.020 u					0.020 u
Carbon tetrachloride	0.5	mg/L		0.020 u	0.020 u					0.020 u
Chlorobenzene	100	mg/L		0.020 u	0.020 u					0.020 u
Chloroform	6.0	mg/L		0.020 u	0.020 u					0.020 u
Tetrachloroethene	0.7	mg/L		0.020 u	0.020 u					0.020 u
Trichloroethene	0.5	mg/L		0.020 u	0.020 u					0.020 u
VinylChloride	0.2	mg/L		0.020 u	0.020 u					0.020 u

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-SLW-02	SEAD63-SLW-03	SEAD63-SLW-04	SEAD63-SLW-05	SEAD63-SLW-06	SEAD63-SLW-07	SEAD63-SLW-08	SEAD63-SLW-09
Date Sample Collected:			04/20/04	04/22/04	04/22/04	04/26/04	04/26/04	04/27/04	04/28/04	04/28/04
Inorganics:										
Corrosivity (pH Solid)		yes/no	no	no	no	no	no	no	no	no
Ignitability		µg/kg	>200	>200	>200	>200	>200	>200	>200	>200
pH	2 to 2.5	pH Units	7.1	8.0	7.4	7.4	7.0	6.8	7.1 u	7.1
Reactivity, Cyanide	250,000	µg/kg	22 u	23 u	25 u	23 u	23 u	24 u	24 u	25 u
Reactivity, Sulfide	500,000	mg/kg	110 u	120 u	120 u	120 u	110 u	120 u	120 u	120 u
Paint Filter Test		yes/no	no free liquid	no free liquid	no free liquid	no free liquid	no free liquid	no free liquid	no free liquid	no free liquid
% Moisture		%	12.3	16.6	18.6	14.2	18.1	17.8	15.3	16.5
% Solids	>20	%	87.7	83.4	81.4	85.8	81.9	82.2	84.7	83.5
TCPL Metals:										
Arsenic	5	mg/L	0.66 J	0.6 J	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u
Barium	100	mg/L	2.0 u	2.0 u	1.0 J	2.0 u	2.0 u	2.5	1.2 J	1.1 J
Cadmium	1	mg/L	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u
Chromium	5	mg/L	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u
Lead	5	mg/L	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u
Mercury	0.2	mg/L	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u
Selenium	1	mg/L	0.58 u	0.58 u	0.58 u	0.58 u	0.58 u	0.58 u	0.58 u	0.58 u
Silver	5	mg/L	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u
Polychlorinated biphenyls (PCBs):										
Aroclor 1016		µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Aroclor 1221		µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Aroclor 1232		µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Aroclor 1242		µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Aroclor 1248		µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Aroclor 1254		µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Aroclor 1260		µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Total	1,000	µg/kg	29 u	29 u	31 u	29 u	29 u	30 u	29 u	30 u
Pesticides										
4,4'-DDD		µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
4,4'-DDE		µg/kg	1.1 J	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
4,4'-DDT		µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
Aldrin		µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
alpha-BHC		µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
alpha-Chlordane		µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
beta-BHC		µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
delta-BHC		µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
Dieldrin		µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
Endosulfan I		µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-SLW-02	SEAD63-SLW-03	SEAD63-SLW-04	SEAD63-SLW-05	SEAD63-SLW-06	SEAD63-SLW-07	SEAD63-SLW-08	SEAD63-SLW-09
Date Sample Collected:			04/20/04	04/22/04	04/22/04	04/26/04	04/26/04	04/27/04	04/28/04	04/28/04
Endosulfan II		µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
Endosulfan sulfate		µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
Endrin	400	µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
Endrin aldehyde		µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
Endrin ketone		µg/kg	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u	1.9 u	1.8 u	1.9 u
gamma-BHC (Lindane)	8,000	µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
gamma-Chlordane	600	µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
Heptachlor	160	µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
Heptachlor epoxide		µg/kg	0.90 u	0.94 u	0.94 u	0.92 u	0.94 u	0.97 u	0.92 u	0.95 u
Methoxychlor	200,000	µg/kg	9.0 u	9.4 u	9.4 u	9.2 u	9.4 u	9.7 u	9.2 u	9.5 u
Technical Chlordane		µg/kg	29 u	29 u	29 u	29 u	29 u	30 u	29 u	30 u
Toxaphene	10,000	µg/kg	29 u	29 u	29 u	29 u	29 u	30 u	29 u	30 u
TCLP Semi-volatile Organic Compounds (SVOCs):										
1,4-Dichlorobenzene	7.5	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
2,4,5-Trichlorophenol	400	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
2,4,6-Trichlorophenol	2.0	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
2,4-Dinitrotoluene	0.1	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Cresols, Total	200	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Hexachlorobenzene	0.1	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Hexachlorobutadiene	0.5	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Hexachloroethane	3.0	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Nitrobenzene	2.0	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Pentachlorophenol	100	mg/L	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u
Pyridine	5.0	mg/L	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u
TCLP Volatile Organic Compounds (VOCs):										
1,1-Dichloroethene	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
1,2-Dichloroethane	0.7	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
1,4-Dichlorobenzene	7.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Methyl Ethyl Ketone	200	mg/L	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u
Benzene	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Carbon tetrachloride	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Chlorobenzene	100	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Chloroform	6.0	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Tetrachloroethene	0.7	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Trichloroethene	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
VinylChloride	0.2	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-SLW-10	SEAD63-SLW-11	SEAD63-SLW-12	SEAD63-SLW-13	SEAD63-SLW-14
Date Sample Collected:			04/28/04	04/28/04	04/28/04	04/29/04	04/29/04
Inorganics:							
Corrosivity (pH Solid)		yes/no	no	no	no	no	no
Ignitability		µg/kg	>200	>200	>200	>200	>200
pH	2 to 2.5	pH Units	7.0	7.1	7.1	7.1	7.5
Reactivity, Cyanide	250,000	µg/kg	23 u	25 u	24 u	27 u	26 u
Reactivity, Sulfide	500,000	mg/kg	120 u	130 u	120 u	130 u	130 u
Paint Filter Test		yes/no	no free liquid	no free liquid	no free liquid	no free liquid	no free liquid
% Moisture		%	15.7	17.5	16.1	24.6	16.2
% Solids	>20	%	84.3	82.5	83.9	75.4	83.8
TCLP Metals:							
Arsenic	5	mg/L	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u
Barium	100	mg/L	1.2 J	1.1 J	2.0 u	1.3 J	1.1 J
Cadmium	1	mg/L	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u
Chromium	5	mg/L	0.1 u	0.1 u	0.1 u	0.1 u	0.1 u
Lead	5	mg/L	1.0 u	1.0 u	1.0 u	1.0 u	1.0 u
Mercury	0.2	mg/L	0.001 u	0.001 u	0.001 u	0.001 u	0.001 u
Selenium	1	mg/L	0.58 u	0.58 u	0.58 u	0.58 u	0.58 u
Silver	5	mg/L	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u
Polychlorinated biphenyls (PCBs):							
Aroclor 1016		µg/kg	30 u	30 u	30 u	30 u	32 u
Aroclor 1221		µg/kg	30 u	30 u	30 u	30 u	32 u
Aroclor 1232		µg/kg	30 u	30 u	30 u	30 u	32 u
Aroclor 1242		µg/kg	30 u	30 u	30 u	30 u	32 u
Aroclor 1248		µg/kg	30 u	30 u	30 u	30 u	32 u
Aroclor 1254		µg/kg	30 u	30 u	30 u	30 u	32 u
Aroclor 1260		µg/kg	30 u	30 u	30 u	30 u	32 u
Total	1,000	µg/kg	30 u	30 u	30 u	30 u	32 u
Pesticides							
4,4'-DDD		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
4,4'-DDE		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
4,4'-DDT		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
Aldrin		µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
alpha-BHC		µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
alpha-Chlordane		µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
beta-BHC		µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
delta-BHC		µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
Dieldrin		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
Endosulfan I		µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Parameter	RCRA/TSCA Regulatory Criteria	Units	SEAD63-SLW-10	SEAD63-SLW-11	SEAD63-SLW-12	SEAD63-SLW-13	SEAD63-SLW-14
Date Sample Collected:			04/28/04	04/28/04	04/28/04	04/29/04	04/29/04
Endosulfan II		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
Endosulfan sulfate		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
Endrin	400	µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
Endrin aldehyde		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
Endrin ketone		µg/kg	1.9 u	1.9 u	1.9 u	1.9 u	2.1 u
gamma-BHC (Lindane)	8,000	µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
gamma-Chlordane	600	µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
Heptachlor	160	µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
Heptachlor epoxide		µg/kg	0.95 u	0.94 u	0.95 u	0.95 u	1.0 u
Methoxychlor	200,000	µg/kg	9.5 u	9.4 u	9.5 u	9.5 u	10 u
Technical Chlordane		µg/kg	30 u	30 u	30 u	30 u	32 u
Toxaphene	10,000	µg/kg	30 u	30 u	30 u	30 u	32 u
TCLP Semi-volatile Organic Compounds (SVOCs):							
1,4-Dichlorobenzene	7.5	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
2,4,5-Trichlorophenol	400	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
2,4,6-Trichlorophenol	2.0	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
2,4-Dinitrotoluene	0.1	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Cresols, Total	200	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Hexachlorobenzene	0.1	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Hexachlorobutadiene	0.5	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Hexachloroethane	3.0	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Nitrobenzene	2.0	mg/L	0.040 u	0.040 u	0.040 u	0.040 u	0.040 u
Pentachlorophenol	100	mg/L	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u
Pyridine	5.0	mg/L	0.080 u	0.080 u	0.080 u	0.080 u	0.080 u
TCLP Volatile Organic Compounds (VOCs):							
1,1-Dichloroethene	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
1,2-Dichloroethane	0.7	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
1,4-Dichlorobenzene	7.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Methyl Ethyl Ketone	200	mg/L	0.10 u	0.10 u	0.10 u	0.10 u	0.10 u
Benzene	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Carbon tetrachloride	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Chlorobenzene	100	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Chloroform	6.0	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Tetrachloroethene	0.7	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Trichloroethene	0.5	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u
Vinylchloride	0.2	mg/L	0.020 u	0.020 u	0.020 u	0.020 u	0.020 u

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	Sample Collection Date	Sample Location	Matrix & Source	Gross Alpha		Gross Beta	
				Result	Uncertainty (%)	Result	Uncertainty (%)
SEAD63-BPTP-16	04/08/04	Test Pit 1	Soil - burial pits area	9.63	2.11	28.7	3.01
SEAD63-BPTP-17	04/08/04	Test Pit 2	Soil - burial pits area	9.67	2.41	24.3	3.11
SEAD63-BPTP-18	04/08/04	Test Pit 3	Soil - burial pits area	10.3	2.33	26.3	3.12
SEAD63-BPTP-19	04/08/04	Test Pit 4	Soil - burial pits area	10.0	2.18	26.7	2.90
SEAD63-BPTP-20	04/08/04	Test Pit 5	Soil - burial pits area	15.5	2.62	24.8	2.89
SEAD63-BPTP-A01	04/21/04	Excavation Pit Area A	Soil - burial pits area	11.5	2.57	29.4	2.34
SEAD63-BPTP-A02	04/21/04	Excavation Pit Area B	Soil - burial pits area	11.7	2.10	20.1	1.91
SEAD63-BPTP-A03	04/21/04	Excavation Pit Area C	Soil - burial pits area	11.9	2.17	42.6	2.45
SEAD63-BPTP-A04	04/21/04	Excavation Pit Area D	Soil - burial pits area	7.62	1.89	26.0	2.06
SEAD63-BPTP-A05	04/21/04	Excavation Pit Area E	Soil - burial pits area	11.2	2.16	27.2	2.06
SEAD63-BPTP-A06	04/21/04	Excavation Pit Area F	Soil - burial pits area	11.4	2.41	23.6	2.15
SEAD63-BPTP-A07	04/21/04	Excavation Pit Area G	Soil - burial pits area	11.9	2.12	29.0	2.05
SEAD63-BPTP-A08	04/21/04	Excavation Pit Area H	Soil - burial pits area	9.18	1.87	19.9	1.86
SEAD63-BPTP-A09	04/21/04	Excavation Pit Area I	Soil - burial pits area	10.2	1.93	26.6	1.99
SEAD63-BPTP-A10	04/21/04	Excavation Pit Area J	Soil - burial pits area	12.2	2.19	30.8	2.24
SEAD63-BPTP-A11	04/21/04	Excavation Pit Area K	Soil - burial pits area	8.77	1.94	21.8	2.00
SEAD63-BPTP-A12	04/21/04	Excavation Pit Area L	Soil - burial pits area	11.8	2.18	26.4	1.94
SEAD63-BPTP-A13	04/21/04	Excavation Pit Area M	Soil - burial pits area	11.1	2.11	24.6	2.07
SEAD63-BPTP-A14	04/21/04	Excavation Pit Area N	Soil - burial pits area	10.7	2.33	25.7	2.27
SEAD63-BPTP-A15	04/21/04	Excavation Pit Area O	Soil - burial pits area	6.20	1.76	12.5	1.56
SEAD63-BPTP-A16	04/21/04	Excavation Pit Area O	Soil - burial pits area	10.3	2.20	23.8	2.09
SEAD63-SLW-01	04/20/04	Excavation Pit Area - North Rd., 0-122' from East end	Soil - Stockpile	7.71	1.91	19.5	1.97
SEAD63-SLW-02	04/20/04	Excavation Pit Area - North Rd., 122-239' from East end	Soil - Stockpile	12.2	2.11	26.6	1.97
SEAD63-SLW-03	04/22/04	Excavation Pit Area - North Rd.239-352' from East end	Soil - Stockpile	12.9	2.37	26.5	2.19
SEAD63-SLW-04	04/22/04	Excavation Pit Area - North Rd., 352' from East end to end of pile	Soil - Stockpile	11.2	2.21	29.7	2.22
SEAD63-SLW-05	04/26/04	Excavation Pit Area - West Rd. 0-100' from North end	Soil - Stockpile	12.7	2.82	29.1	3.28
SEAD63-SLW-06	04/26/04	Excavation Pit Area - West Rd. 100-200' from North end	Soil - Stockpile	10.2	2.68	27.6	3.43
SEAD63-SLW-07	04/27/04	Excavation Pit Area - West Rd. 200' from North end to end of	Soil - Stockpile	20.9	3.41	34.0	3.49
SEAD63-SLW-08	04/28/04	Excavation Pit Area - adjacent to excavation	Soil - Stockpile	10.1	1.41	26.1	1.95
SEAD63-SLW-09	04/28/04	Excavation Pit Area - adjacent to excavation	Soil - Stockpile	11.9	1.69	29.7	2.12
SEAD63-SLW-10	04/28/04	Excavation Pit Area - adjacent to excavation	Soil - Stockpile	11.7	1.61	28.4	2.22
SEAD63-SLW-11	04/28/04	Excavation Pit Area - adjacent to excavation	Soil - Stockpile	8.74	1.53	26.2	2.17
SEAD63-SLW-12	05/06/04	Adjacent to excavation area	Soil - Stockpile	13.1	3.98	32.8	3.79
SEAD63-SLW-13	04/29/04	Excavation Pit Area - adjacent to excavation	Soil - Stockpile	8.24	1.38	26.3	2.02
SEAD63-SLW-14	04/29/04	Drainage Ditches	Soil - Stockpile	10.1	1.37	25.7	1.91

NOTES:

All results in picocuries per gram (pCi/g)
 Reporting Limit (RL) for Alpha is 4.0 pCi/g; RL for Beta is 10.0 pCi/g
 "BPTP" denotes Burial Pit Test Pit sample
 "SLW" denotes Soil Stockpile sample
Shaded values indicate concentrations exceeding the upper bound of the statistically-derived site background value (14.57 pCi/g for Alpha; 40.44 pCi/g for Beta)

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	SEAD63-BPTP-16			SEAD63-BPTP-17			SEAD63-BPTP-18			SEAD63-BPTP-19			SEAD63-BPTP-20		
	Parameter	Result	Unc. * (+/-)	Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)	
Actinium-227	N/A			N/A			N/A			N/A			N/A		
Actinium-228	1.16	0.246		0.00	0.188	UUI	1.13	0.255		0.936	0.229		1.28	0.263	
Americium-241	0.127	0.133	U	-0.0545	0.0912	U	0.00833	0.0896	U	-0.00351	0.0404	U	-0.0596	0.124	U
Antimony-124	0.00158	0.020	U	0.0155	0.024	U	0.00464	0.0216	U	0.0105	0.0268	U	-0.00416	0.0208	U
Antimony-125	0.00	0.124	UUI	0.0111	0.0465	U	0.0128	0.0547	U	-0.0446	0.0646	U	-0.0105	0.050	U
Barium-133	0.010	0.0266	U	-0.012	0.0235	U	-0.0355	0.0293	U	-0.00255	0.0315	U	0.00274	0.0274	U
Barium-140	-0.0324	0.0897	U	0.0356	0.0791	U	-0.0165	0.0913	U	-0.0525	0.134	U	-0.000397	0.083	U
Beryllium-7	0.0165	0.161	U	0.0771	0.151	U	0.0638	0.169	U	0.0208	0.208	U	0.0431	0.159	U
Bismuth-212	0.746	0.354		0.687	0.337		0.685	0.294		0.815	0.458		0.795	0.288	
Bismuth-214	0.612	0.105		0.00	0.100	UUI	0.665	0.114		0.704	0.144		0.573	0.103	
Cerium-139	-9.610E-06	0.0175	U	-0.00732	0.0136	U	0.00542	0.0164	U	-0.00997	0.017	U	0.0283	0.0216	U
Cerium-141	0.0055	0.0256	U	0.0146	0.0241	U	0.000165	0.0277	U	0.00833	0.0343	U	-0.0222	0.0309	U
Cerium-144	-0.0514	0.111	U	-0.101	0.0963	U	-0.0463	0.138	U	0.0234	0.127	U	-0.0179	0.121	U
Cesium-134	0.0393	0.0332	U	0.00	0.0358	UUI	0.00	0.0467	UUI	0.0423	0.0408	U	0.00	0.030	UUI
Cesium-136	0.0299	0.0386	U	0.0253	0.0394	U	-0.019	0.0452	U	-0.0422	0.0509	U	0.0231	0.0361	U
Cesium-137	0.00141	0.0225	U	0.0617	0.0283	U	0.00177	0.023	U	0.0169	0.0409	U	0.00812	0.0223	U
Chromium-51	0.029	0.158	U	-0.157	0.157	U	0.134	0.171	U	-0.0838	0.186	U	-0.0876	0.164	U
Cobalt-56	-0.00351	0.0233	U	-0.00491	0.0208	U	-0.0286	0.0239	U	0.00478	0.0279	U	-0.013	0.0216	U
Cobalt-57	0.0125	0.0142	U	-0.00735	0.0116	U	0.0112	0.0151	U	0.00931	0.0143	U	0.00397	0.0156	U
Cobalt-58	-0.00356	0.0204	U	0.00517	0.0199	U	-0.0112	0.0225	U	-0.018	0.0287	U	-0.0172	0.0208	U
Cobalt-60	0.0216	0.0268	U	0.00908	0.0229	U	0.00772	0.0242	U	-0.0244	0.0329	U	0.00419	0.0207	U
Europium-152	0.0205	0.0567	U	-0.0293	0.0501	U	-0.035	0.0554	U	-0.0715	0.063	U	-0.0272	0.0569	U
Europium-154	-0.0816	0.0793	U	-0.0221	0.0774	U	-0.0133	0.0819	U	-0.00574	0.0915	U	0.0243	0.0707	U
Europium-155	0.0606	0.0763	U	0.0704	0.0646	U	0.041	0.0744	U	0.0936	0.0727	U	0.00	0.084	UUI
Iridium-192	-0.00132	0.0176	U	0.0154	0.0165	U	-0.0204	0.0188	U	0.00318	0.0207	U	-0.000147	0.0181	U
Iron-59	0.00843	0.0462	U	-0.0247	0.0506	U	-0.0627	0.0585	U	0.0176	0.0702	U	0.0172	0.0424	U
Lead-210	7.19	4.62	U	1.04	2.27	U	0.617	2.55	U	0.751	0.560		3.02	4.70	U
Lead-212	1.12	0.119		0.828	0.0863		0.898	0.0967		0.848	0.104		1.04	0.103	
Lead-214	0.699	0.103		0.634	0.107		0.685	0.117		0.644	0.110		0.635	0.103	
Manganese-54	0.00779	0.0216	U	0.0155	0.0221	U	-0.0131	0.0232	U	-0.0308	0.0286	U	-0.00249	0.0217	U
Mercury-203	0.028	0.0275	U	0.0274	0.0211	U	0.0163	0.0267	U	0.00918	0.0337	U	0.0326	0.0274	U
Neodymium-147	0.203	0.178	U	-0.0334	0.162	U	0.0683	0.189	U	0.109	0.258	U	-0.00735	0.165	U
Neptunium-239	0.00836	0.107	U	-0.0379	0.0888	U	-0.00579	0.116	U	-0.133	0.105	U	-0.145	0.130	U
Niobium-94	-0.00754	0.0203	U	-0.00748	0.0209	U	0.0343	0.0243	U	0.0146	0.0272	U	0.00835	0.020	U
Niobium-95	0.00774	0.0264	U	-0.00766	0.0243	U	0.000705	0.0293	U	0.0138	0.033	U	0.00	0.0301	UUI
Potassium-40	29.0	2.51		23.3	1.92		22.8	2.05		21.0	1.76		24.2	2.05	
Promethium-144	0.00374	0.0202	U	0.00949	0.0193	U	0.00372	0.0213	U	-0.00168	0.0269	U	0.0022	0.0195	U
Promethium-146	0.0016	0.0233	U	0.0136	0.0271	U	0.00906	0.0266	U	-0.0146	0.0308	U	-0.004	0.0248	U
Radium-228	1.16	0.246		0.00	0.188	UUI	1.13	0.255		0.936	0.229		1.28	0.263	
Ruthenium-106	0.0121	0.179	U	0.123	0.169	U	0.0989	0.191	U	0.0498	0.258	U	-0.0335	0.171	U
Silver-110m	-0.00642	0.0185	U	0.0161	0.0215	U	0.00652	0.0215	U	-0.0025	0.0293	U	-0.00205	0.0184	U
Sodium-22	-0.0293	0.0282	U	-0.00934	0.0277	U	-0.00463	0.0292	U	-0.00189	0.0326	U	0.00858	0.0252	U
Thallium-208	0.332	0.0521		0.272	0.0532		0.315	0.0555		0.290	0.0625		0.327	0.0546	
Thorium-230	0.612	0.105		0.571	0.100		0.665	0.114		0.704	0.144		0.573	0.103	
Thorium-234	0.715	1.28	U	0.807	1.01	U	0.695	1.03	U	1.07	0.764		1.98	1.42	
Tin-113	-0.00168	0.0234	U	0.00694	0.0212	U	-0.0184	0.025	U	-0.00984	0.0285	U	-0.00765	0.0246	U
Tritium	0.962	2.44	U	1.75	2.44	U	0.401	2.37	U	0.793	2.36	U	1.75	2.44	U
Uranium-234	N/A			N/A			N/A			N/A			N/A		
Uranium-235	0.0301	0.140	U	0.0275	0.101	U	0.000879	0.148	U	0.0599	0.196	U	0.0826	0.127	U
Uranium-238	0.715	1.28	U	0.807	1.01	U	0.695	1.03	U	1.07	0.764		1.98	1.42	
Yttrium-88	0.0014	0.0162	U	0.00114	0.016	U	0.00356	0.024	U	0.016	0.0228	U	-0.000971	0.0177	U
Zinc-65	-0.0189	0.058	U	-0.00548	0.0643	U	-0.00976	0.0587	U	0.0438	0.0737	U	0.000781	0.0572	U
Zirconium-95	0.00251	0.0382	U	0.0096	0.0376	U	0.0506	0.0665	U	0.00499	0.0497	U	-0.000996	0.034	U

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	SEAD63-BPTP-A01			SEAD63-BPTP-A02			SEAD63-BPTP-A03			SEAD63-BPTP-A04			SEAD63-BPTP-A05		
	Parameter	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)		
Actinium-227	N/A			N/A		N/A		N/A		N/A		N/A			
Actinium-228	1.01	0.208		1.15	0.291	0.940	0.203	0.929	0.202		1.11	0.259			
Americium-241	-0.0444	0.091	U	0.0327	0.0817	0.0652	0.123	-0.0429	0.0343	U	0.0654	0.114	U		
Antimony-124	-0.00181	0.0181	U	-0.000454	0.0325	-0.00543	0.0181	0.0241	0.0213	U	0.0209	0.0145	U		
Antimony-125	0.0291	0.0487	U	0.00452	0.0829	0.0361	0.0493	-0.0124	0.056	U	0.034	0.0651	U		
Barium-133	-0.00378	0.023	U	0.0192	0.0391	-0.0143	0.0261	0.0135	0.0279	U	-0.00429	0.0308	U		
Barium-140	0.0411	0.0847	U	-0.0332	0.129	-0.0316	0.077	0.0258	0.0823	U	-0.00746	0.0853	U		
Beryllium-7	-0.0317	0.141	U	-0.0584	0.243	-0.0542	0.138	-0.0435	0.169	U	-0.0828	0.171	U		
Bismuth-212	0.783	0.264		0.626	0.464	0.687	0.277	0.876	0.369		0.595	0.403			
Bismuth-214	0.650	0.106		0.838	0.177	0.653	0.106	0.712	0.118		0.726	0.108			
Cerium-139	-0.00856	0.0145	U	-0.0116	0.0237	-0.000681	0.0155	0.000257	0.0164	U	2.150E-05	0.0175	U		
Cerium-141	0.0219	0.0271	U	0.0285	0.0713	0.011	0.0273	0.0077	0.030	U	0.0247	0.0314	U		
Cerium-144	0.057	0.102	U	0.0257	0.165	-0.0559	0.113	0.0734	0.114	U	-0.000361	0.121	U		
Cesium-134	0.0442	0.0345	U	0.0243	0.0332	0.0468	0.0366	0.00	0.0356	UUI	0.00	0.0385	UUI		
Cesium-136	0.0221	0.036	U	-0.0284	0.0482	-0.00195	0.0344	-0.0136	0.0401	U	-0.0204	0.0403	U		
Cesium-137	0.00598	0.0219	U	0.114	0.0663	0.197	0.0456	0.0275	0.0256	U	0.0962	0.0458	U		
Chromium-51	0.0593	0.150	U	-0.111	0.243	-0.218	0.166	-0.0842	0.169	U	-0.0225	0.190	U		
Cobalt-56	0.0241	0.0273	U	0.00537	0.030	0.00	0.0323	0.000879	0.0212	U	0.0101	0.0239	U		
Cobalt-57	-0.00347	0.0127	U	-0.00457	0.0207	-0.00588	0.0137	-0.0031	0.0138	U	-0.00599	0.0148	U		
Cobalt-58	-0.00435	0.0207	U	-0.0113	0.0321	-0.00695	0.0182	-0.0121	0.0226	U	0.0111	0.0224	U		
Cobalt-60	0.027	0.024	U	0.0184	0.0353	0.00306	0.0223	0.0105	0.0233	U	0.0275	0.0274	U		
Europium-152	-0.0265	0.0507	U	-0.0928	0.0829	-0.0497	0.0571	-0.0242	0.0549	U	-0.00747	0.0651	U		
Europium-154	-0.0056	0.0689	U	0.0788	0.109	-0.011	0.0794	-0.0351	0.0759	U	-0.0107	0.0727	U		
Europium-155	0.0852	0.0787	U	-0.0228	0.0852	0.0605	0.075	0.00	0.0766	UUI	0.0362	0.0623	U		
Iridium-192	-0.0114	0.0164	U	-0.00179	0.0265	0.0029	0.0181	-0.00853	0.0185	U	0.00384	0.0209	U		
Iron-59	-0.0273	0.0452	U	-0.0261	0.0708	0.0333	0.0467	-0.00211	0.0505	U	-0.0491	0.0542	U		
Lead-210	1.68	4.24	U	0.693	1.22	1.17	4.56	0.748	0.448		3.10	3.29	U		
Lead-212	0.930	0.0941		0.970	0.123	0.925	0.115	1.01	0.112		1.01	0.106			
Lead-214	0.748	0.106		0.756	0.135	0.753	0.117	0.829	0.125		0.727	0.114			
Manganese-54	0.0156	0.0212	U	-0.0247	0.0319	0.0288	0.0257	0.00152	0.0234	U	0.00612	0.024	U		
Mercury-203	0.0297	0.027	U	0.0271	0.0294	0.0285	0.0311	0.00484	0.036	U	0.00969	0.0226	U		
Neodymium-147	0.0766	0.135	U	-0.221	0.244	-0.12	0.149	0.0622	0.156	U	0.0792	0.168	U		
Neptunium-239	-0.0893	0.0997	U	-0.0473	0.153	0.0657	0.184	0.0224	0.103	U	0.0155	0.115	U		
Niobium-94	-0.00315	0.0187	U	0.0386	0.0327	-0.0108	0.0191	0.000672	0.021	U	-0.0244	0.0227	U		
Niobium-95	0.00614	0.0232	U	0.0441	0.0398	0.0231	0.0216	0.0163	0.273	U	0.00393	0.0279	U		
Potassium-40	24.2	1.95		23.2	2.12	25.9	2.22	24.8	1.94		24.6	2.12			
Promethium-144	0.0057	0.0208	U	0.00609	0.0324	-0.0013	0.0205	0.0198	0.0285	U	-0.00278	0.0214	U		
Promethium-146	-0.00167	0.0243	U	-0.00296	0.0367	0.0097	0.0234	0.00226	0.0262	U	0.0109	0.0268	U		
Radium-228	1.01	0.208		1.15	0.291	0.940	0.203	0.929	0.202		1.11	0.259			
Ruthenium-106	0.0785	0.181	U	-0.0171	0.286	0.0206	0.173	0.0986	0.191	U	-0.0788	0.199	U		
Silver-110m	0.00275	0.0193	U	0.0179	0.034	0.00376	0.0201	-0.033	0.022	U	-0.0154	0.0232	U		
Sodium-22	-0.00204	0.0245	U	0.0281	0.0387	-0.00402	0.0282	-0.0125	0.027	U	-0.00409	0.0259	U		
Thallium-208	0.293	0.0492		0.296	0.0978	0.346	0.0585	0.307	0.0567		0.328	0.0538			
Thorium-230	0.650	0.106		0.838	0.177	0.653	0.106	0.712	0.118		0.726	0.108			
Thorium-234	1.70	1.36		1.19	1.10	1.24	1.68	0.799	0.562		2.10	1.35			
Tin-113	0.00934	0.0242	U	-0.0246	0.0356	-0.00438	0.0245	0.00786	0.0241	U	0.0107	0.0275	U		
Tritium	1.86	3.36	U	-0.901	3.31	-2.45	2.97	1.31	2.79	U	2.35	2.92	U		
Uranium-234	N/A			N/A		N/A		N/A			N/A				
Uranium-235	0.128	0.152	U	0.155	0.384	0.0527	0.119	0.0388	0.151	U	0.0901	0.134	U		
Uranium-238	1.70	1.36		1.19	1.10	1.24	1.68	0.799	0.562		2.10	1.35			
Yttrium-88	-0.00866	0.0178	U	0.0146	0.0308	0.00424	0.0151	0.000706	0.0191	U	-0.023	0.0239	U		
Zinc-65	-0.0231	0.0645	U	0.0158	0.0878	-0.0892	0.0593	-0.0909	0.0627	U	-0.005	0.0658	U		
Zirconium-95	0.0189	0.0361	U	-0.0221	0.0595	0.00434	0.0345	0.0514	0.0417	U	0.0455	0.0449	U		

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	SEAD63-BPTP-A06			SEAD63-BPTP-A07			SEAD63-BPTP-A08			SEAD63-BPTP-A09			SEAD63-BPTP-A10		
	Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)	
Actinium-227	N/A			N/A			N/A			N/A			N/A		
Actinium-228	0.946	0.200		1.03	0.207		0.884	0.219		1.01	0.233		1.16	0.233	
Americium-241	-0.0505	0.0995	U	0.0089	0.105	U	-0.0254	0.110	U	0.00925	0.0801	U	0.0601	0.086	U
Antimony-124	0.00957	0.0212	U	0.0224	0.0174	U	0.0108	0.0158	U	0.00	0.0202	UUU	-0.00621	0.0183	U
Antimony-125	-0.00866	0.0521	U	-0.005	0.0468	U	0.0228	0.0436	U	0.014	0.0412	U	0.0331	0.0471	U
Barium-133	-0.00469	0.0274	U	0.00188	0.0255	U	0.00621	0.021	U	-0.00908	0.0231	U	-0.00594	0.0263	U
Barium-140	-0.0471	0.0809	U	-0.00887	0.0735	U	-0.0192	0.0657	U	-0.00407	0.0681	U	-0.0373	0.0756	U
Beryllium-7	0.0392	0.164	U	-0.0808	0.139	U	-0.0843	0.128	U	-0.0201	0.135	U	-0.0406	0.174	U
Bismuth-212	0.780	0.368		0.936	0.317		0.515	0.288		0.713	0.293		0.732	0.348	
Bismuth-214	0.634	0.108		0.654	0.103		0.550	0.0932		0.637	0.0924		0.702	0.109	
Cerium-139	0.00222	0.0155	U	0.00886	0.0146	U	-0.00973	0.0154	U	-0.00729	0.0134	U	0.00275	0.0159	U
Cerium-141	0.00548	0.0263	U	0.0068	0.0249	U	0.0124	0.029	U	0.0149	0.0214	U	0.0157	0.029	U
Cerium-144	-0.00791	0.108	U	0.0136	0.102	U	-0.0473	0.0977	U	-0.0148	0.0917	U	0.015	0.111	U
Cesium-134	0.00	0.0417	UUU	0.0329	0.0333	U	0.0305	0.0323	U	0.0292	0.0388	U	0.0364	0.0371	U
Cesium-136	-0.00226	0.0378	U	-0.0205	0.0338	U	-0.0134	0.0293	U	0.0122	0.0356	U	-0.00216	0.0363	U
Cesium-137	0.0302	0.0306	U	0.0756	0.0327	U	-0.0011	0.0192	U	-0.0023	0.0199	U	0.0258	0.0264	U
Chromium-51	0.0223	0.148	U	0.0328	0.149	U	0.064	0.120	U	0.0851	0.137	U	-0.0847	0.149	U
Cobalt-56	-0.00709	0.0214	U	-0.00865	0.0203	U	0.00408	0.0186	U	0.000311	0.0179	U	-0.00586	0.0195	U
Cobalt-57	0.0167	0.0224	U	-0.00505	0.013	U	0.000471	0.0118	U	-0.0032	0.0112	U	0.00296	0.0144	U
Cobalt-58	-0.0102	0.0204	U	-0.00223	0.0219	U	0.00455	0.0207	U	0.0051	0.0191	U	-0.00948	0.0209	U
Cobalt-60	-0.0209	0.0252	U	-0.0189	0.0248	U	-0.000702	0.0216	U	0.00563	0.0287	U	0.00487	0.022	U
Europium-152	0.0199	0.0558	U	-0.00881	0.0535	U	-0.00252	0.0464	U	0.00672	0.0478	U	0.00144	0.054	U
Europium-154	-0.00321	0.0816	U	-0.0479	0.0738	U	0.0145	0.067	U	-0.0158	0.075	U	0.0168	0.0682	U
Europium-155	0.0502	0.0599	U	0.0765	0.0715	U	-0.0254	0.0599	U	0.0151	0.0494	U	0.0641	0.0766	U
Iridium-192	-0.00693	0.0167	U	0.00309	0.0164	U	-0.00468	0.0141	U	-0.00814	0.0154	U	0.000409	0.017	U
Iron-59	-0.0141	0.0501	U	-0.0621	0.0447	U	0.0184	0.0377	U	-0.00356	0.0462	U	0.00643	0.0487	U
Lead-210	1.68	2.47	U	0.548	2.71	U	2.91	3.82	U	0.391	2.22	U	2.19	2.03	U
Lead-212	1.01	0.0996		1.03	0.111		0.835	0.0912		0.966	0.0956		1.01	0.100	
Lead-214	0.626	0.110		0.792	0.112		0.675	0.098		0.683	0.104		0.711	0.113	
Manganese-54	0.0143	0.0312	U	0.0261	0.0277	U	-0.00136	0.0191	U	0.00185	0.0216	U	0.0196	0.0267	U
Mercury-203	0.00	0.030	UUU	0.00611	0.0214	U	0.014	0.0217	U	0.0198	0.020	U	0.0188	0.0298	U
Neodymium-147	-0.106	0.159	U	-0.0374	0.137	U	0.012	0.127	U	-0.0321	0.133	U	-0.0127	0.148	U
Neptunium-239	0.0275	0.107	U	0.103	0.116	U	0.0692	0.104	U	-0.0348	0.0853	U	0.0681	0.108	U
Niobium-94	0.00724	0.0212	U	0.0046	0.0181	U	0.00644	0.0177	U	-0.00203	0.0185	U	0.0014	0.0195	U
Niobium-95	-0.0224	0.0227	U	-0.00886	0.024	U	-0.00164	0.0202	U	0.000758	0.0281	U	0.0266	0.0374	U
Potassium-40	24.8	2.00		28.0	2.32		21.9	1.97		25.4	2.06		28.2	2.37	
Promethium-144	-0.00272	0.0213	U	0.00362	0.0179	U	-0.00626	0.0173	U	-0.0124	0.0178	U	0.00801	0.0189	U
Promethium-146	0.00342	0.0248	U	0.0143	0.0224	U	0.0348	0.0436	U	0.00253	0.0212	U	0.0164	0.0246	U
Radium-228	0.946	0.200		1.03	0.207		0.884	0.219		1.01	0.233		1.16	0.233	
Ruthenium-106	-0.0244	0.188	U	0.0391	0.169	U	-0.0523	0.149	U	0.0186	0.187	U	0.0713	0.174	U
Silver-110m	0.00129	0.0211	U	0.0214	0.0279	U	-0.00997	0.0162	U	-0.00273	0.0182	U	-0.0226	0.0195	U
Sodium-22	-0.0013	0.029	U	-0.0159	0.0261	U	0.00546	0.0239	U	0.00223	0.026	U	0.00588	0.0242	U
Thallium-208	0.347	0.0598		0.308	0.0474		0.230	0.0405		0.339	0.048		0.345	0.0536	
Thorium-230	0.634	0.108		0.654	0.103		0.550	0.0932		0.637	0.0924		0.702	0.109	
Thorium-234	1.22	1.18	U	2.05	1.39		1.30	1.45	U	0.781	1.13	U	1.14	1.04	U
Tin-113	-0.00325	0.0254	U	0.00852	0.0219	U	0.000437	0.0189	U	-0.0157	0.020	U	0.0292	0.0321	U
Tritium	0.745	3.09	U	-1.59	3.34	U	-0.496	3.56	U	0.00	3.46	U	1.45	3.43	U
Uranium-234	N/A			N/A			N/A			N/A			N/A		
Uranium-235	0.000638	0.116	U	0.0368	0.135	U	0.0671	0.156	U	0.0825	0.115	U	0.121	0.126	U
Uranium-238	1.22	1.18	U	2.05	1.39		1.30	1.45	U	0.781	1.13	U	1.14	1.04	U
Yttrium-88	0.000844	0.018	U	0.0104	0.0166	U	-0.0151	0.0147	U	-0.00423	0.0154	U	-0.0107	0.0153	U
Zinc-65	-0.114	0.0638	U	0.00788	0.0596	U	-0.00118	0.0535	U	0.019	0.0593	U	-0.0729	0.101	U
Zirconium-95	0.0173	0.0467	U	0.0215	0.0353	U	0.0278	0.033	U	-0.0123	0.0351	U	0.0154	0.0381	U

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	SEAD63-BPTP-A11			SEAD63-BPTP-A12			SEAD63-BPTP-A13			SEAD63-BPTP-A14			SEAD63-BPTP-A15				
	Parameter	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)				
Actinium-227	N/A			N/A				N/A				N/A					
Actinium-228	1.01	0.234		0.786	0.203			1.03	0.254			0.788	0.170	0.806	0.148		
Americium-241	0.0186	0.0298	U	0.0313	0.136	U		-0.0132	0.0316	U		-0.0689	0.0958	U	0.00361	0.0443	U
Antimony-124	-0.0139	0.0198	U	-0.0145	0.0145	U		-0.00314	0.0213	U		-0.015	0.0133	U	-0.00631	0.0131	U
Antimony-125	0.0288	0.0494	U	0.0199	0.0403	U		-0.014	0.0564	U		0.0222	0.0346	U	0.010	0.0314	U
Barium-133	0.0214	0.0221	U	0.00293	0.0223	U		-0.00391	0.0241	U		-0.00923	0.0188	U	0.00148	0.0169	U
Barium-140	-0.0289	0.0757	U	0.0273	0.0577	U		-0.00288	0.0873	U		-0.0176	0.0466	U	0.047	0.0481	U
Beryllium-7	0.0131	0.156	U	0.00805	0.118	U		0.0938	0.176	U		-0.0194	0.106	U	-0.0265	0.0974	U
Bismuth-212	0.546	0.294		0.573	0.200			0.564	0.371			0.569	0.266		0.527	0.195	
Bismuth-214	0.594	0.114		0.558	0.0884			0.658	0.114			0.534	0.0758		0.583	0.0875	
Cerium-139	-0.00222	0.0136	U	-0.0028	0.0135	U		-0.00545	0.0157	U		-0.000353	0.0115	U	0.00226	0.0133	U
Cerium-141	0.0172	0.0265	U	0.0312	0.033	U		0.0058	0.0273	U		-0.00563	0.0236	U	0.015	0.0226	U
Cerium-144	0.0313	0.0929	U	0.0374	0.0911	U		0.0295	0.103	U		0.00883	0.0855	U	-0.0128	0.0749	U
Cesium-134	0.00	0.0448	UUU	0.00	0.0308	UUU		0.00	0.034	UUU		0.0272	0.0181	U	0.00	0.0207	UUU
Cesium-136	-0.0243	0.0379	U	0.0244	0.041	U		-0.0101	0.0394	U		0.00229	0.0212	U	-0.000151	0.0216	U
Cesium-137	0.0208	0.0245	U	0.0236	0.019	U		-0.0109	0.0245	U		-0.00828	0.013	U	0.0113	0.0134	U
Chromium-51	-0.0391	0.137	U	0.233	0.214	U		0.0616	0.157	U		0.0284	0.107	U	0.0142	0.0944	U
Cobalt-56	0.00887	0.0219	U	-0.0138	0.0165	U		0.00323	0.0259	U		-0.00639	0.0131	U	4.270E-05	0.0145	U
Cobalt-57	0.00507	0.0114	U	0.00273	0.0114	U		0.00449	0.0124	U		0.00155	0.0106	U	-0.00165	0.00931	U
Cobalt-58	-0.00985	0.0211	U	0.00786	0.0174	U		-0.0096	0.0227	U		-0.0111	0.0127	U	-0.00973	0.012	U
Cobalt-60	0.00703	0.0238	U	-0.00668	0.0178	U		-0.00646	0.0327	U		0.012	0.0148	U	-0.00626	0.0133	U
Europium-152	-0.0041	0.0482	U	0.028	0.0455	U		-0.0189	0.0528	U		1.560E-05	0.0374	U	-0.0143	0.0342	U
Europium-154	0.091	0.0813	U	0.0358	0.0615	U		-0.0487	0.0824	U		-0.0328	0.0469	U	-0.0329	0.0446	U
Europium-155	0.0281	0.0456	U	0.0253	0.0514	U		0.00	0.0871	UUU		0.0442	0.0508	U	0.0389	0.0405	U
Iridium-192	0.00215	0.0151	U	0.0122	0.0159	U		0.013	0.017	U		-0.00155	0.012	U	-0.0068	0.0105	U
Iron-59	-0.00248	0.0475	U	-0.0405	0.0372	U		0.0473	0.0444	U		-0.0199	0.0297	U	0.0218	0.0209	U
Lead-210	0.241	0.483	U	-3.67	6.24	U		1.39	0.586			1.49	2.72	U	0.453	1.36	U
Lead-212	0.815	0.0901		0.820	0.0878			0.917	0.100			0.793	0.0744		0.777	0.0711	
Lead-214	0.737	0.102		0.731	0.103			0.678	0.104			0.642	0.0765		0.668	0.0807	
Manganese-54	-0.00966	0.0259	U	0.0034	0.0204	U		0.0228	0.0332	U		0.0167	0.0144	U	-0.00421	0.0135	U
Mercury-203	0.0234	0.0199	U	0.0218	0.0285	U		0.0272	0.0284	U		0.0147	0.0156	U	0.0175	0.0161	U
Neodymium-147	-0.0928	0.149	U	0.0557	0.114	U		-0.00464	0.181	U		0.000145	0.0956	U	0.050	0.0885	U
Neptunium-239	-0.0563	0.088	U	0.0498	0.0875	U		0.0586	0.0971	U		-0.0891	0.0885	U	0.00576	0.0734	U
Niobium-94	0.00552	0.021	U	0.0149	0.0165	U		-0.00111	0.0226	U		0.0068	0.0126	U	0.00388	0.0122	U
Niobium-95	0.00415	0.038	U	0.0138	0.020	U		-0.00804	0.0278	U		0.0149	0.0165	U	0.0179	0.0155	U
Potassium-40	25.3	1.90		24.4	2.22			24.5	1.99			24.6	1.92		23.5	1.76	
Promethium-144	-0.00547	0.0206	U	-0.00635	0.0159	U		0.0201	0.0477	U		-0.000325	0.0124	U	-0.00653	0.0118	U
Promethium-146	0.0136	0.0236	U	0.00792	0.0198	U		0.00958	0.0261	U		0.0125	0.0165	U	0.0162	0.015	U
Radium-228	1.01	0.234		0.786	0.203			1.03	0.254			0.788	0.170		0.806	0.148	
Ruthenium-106	0.128	0.186	U	-0.111	0.142	U		0.0197	0.199	U		-0.109	0.142	U	0.0236	0.104	U
Silver-110m	0.0147	0.0222	U	-0.0188	0.0154	U		0.00543	0.0211	U		-0.00104	0.0113	U	-0.0122	0.0111	U
Sodium-22	0.0322	0.0288	U	0.0127	0.0219	U		-0.0172	0.0293	U		-0.0116	0.0167	U	-0.0117	0.0158	U
Thallium-208	0.276	0.0549		0.275	0.0422			0.295	0.0658			0.244	0.0347		0.245	0.0336	
Thorium-230	0.594	0.114		0.558	0.0884			0.658	0.114			0.534	0.0758		0.583	0.0875	
Thorium-234	0.803	0.545		0.389	1.06	U		0.895	0.515			0.417	0.831	U	0.763	0.683	
Tin-113	0.00245	0.0235	U	-0.0136	0.0188	U		0.00674	0.0241	U		-0.00224	0.015	U	0.0142	0.0164	U
Tritium	1.38	3.26	U	-1.09	3.28	U		1.58	3.75	U		0.803	3.03	U	-1.24	2.98	U
Uranium-234	N/A			N/A				N/A				N/A			N/A		
Uranium-235	0.00783	0.165	U	0.133	0.143	U		0.0807	0.186	U		0.0214	0.106	U	0.082	0.123	U
Uranium-238	0.803	0.545		0.389	1.06	U		0.895	0.515			0.417	0.831	U	0.763	0.683	
Yttrium-88	-0.012	0.0163	U	0.00594	0.0131	U		0.00793	0.0206	U		-0.0025	0.0119	U	-0.0013	0.0111	U
Zinc-65	-0.0423	0.0629	U	-0.021	0.0523	U		0.0239	0.0715	U		0.0278	0.0374	U	0.0612	0.0375	U
Zirconium-95	0.017	0.0401	U	0.0204	0.0295	U		0.0233	0.0433	U		0.0113	0.0235	U	-0.00579	0.0206	U

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	SEAD63-BPTP-A16			SEAD63-SLW-01			SEAD63-SLW-02			SEAD63-SLW-03			SEAD63-SLW-04		
	Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)	
Actinium-227	N/A			N/A			N/A			N/A			N/A		
Actinium-228	0.918	0.206		0.765	0.180		1.02	0.219		0.989	0.143		1.02	0.166	
Americium-241	-0.00905	0.0332	U	-0.0928	0.141	U	-0.0218	0.0328	U	-0.00219	0.036	U	-0.00291	0.0183	U
Antimony-124	0.0104	0.0256	U	-0.00652	0.0164	U	0.00493	0.0212	U	0.00694	0.00827	U	-0.00688	0.0122	U
Antimony-125	-0.022	0.0589	U	0.0074	0.0435	U	-0.0161	0.0521	U	-0.00189	0.0228	U	0.0178	0.0299	U
Barium-133	0.00162	0.0266	U	0.00543	0.0243	U	0.0145	0.0268	U	-0.00184	0.0115	U	-0.161	0.0251	U
Barium-140	0.00	0.185	UUU	-0.0699	0.0718	U	0.00911	0.0846	U	-0.00803	0.0349	U	0.00108	0.0516	U
Beryllium-7	0.0555	0.165	U	0.125	0.194	U	0.0212	0.171	U	-0.0231	0.0656	U	0.0145	0.096	U
Bismuth-212	0.569	0.256		0.572	0.261		0.823	0.309		0.605	0.135		0.520	0.211	
Bismuth-214	0.691	0.139		0.690	0.103		0.658	0.117		0.618	0.0673		0.691	0.093	
Cerium-139	-0.012	0.0147	U	0.00687	0.0157	U	0.00899	0.0313	U	0.00514	0.00742	U	-0.00151	0.00914	U
Cerium-141	0.00	0.0418	UUU	0.0165	0.0276	U	0.023	0.0274	U	0.0105	0.0151	U	0.00	0.0152	UUU
Cerium-144	0.00142	0.101	U	0.0479	0.100	U	-0.028	0.132	U	0.0414	0.0603	U	-0.0399	0.0568	U
Cesium-134	0.00	0.0376	UUU	0.0384	0.037	U	0.00	0.0362	UUU	0.00	0.0197	UUU	0.0229	0.032	U
Cesium-136	-0.022	0.0415	U	0.0249	0.0591	U	-0.0331	0.051	U	-0.0125	0.0173	U	-0.00486	0.024	U
Cesium-137	0.00328	0.0243	U	0.0232	0.021	U	0.0537	0.0296	U	0.0136	0.0147	U	0.0453	0.0258	U
Chromium-51	-0.0267	0.146	U	-0.0192	0.143	U	0.0612	0.177	U	0.0369	0.0689	U	-0.0362	0.0873	U
Cobalt-56	-0.00887	0.0239	U	-0.00685	0.0212	U	0.00388	0.0232	U	-0.0025	0.00924	U	-0.00766	0.0135	U
Cobalt-57	-0.00356	0.0123	U	-0.00313	0.0122	U	0.00031	0.0135	U	0.00229	0.00579	U	0.00151	0.00685	U
Cobalt-58	-0.00758	0.0213	U	0.00	0.0387	UUU	0.0236	0.0365	U	-0.000482	0.00904	U	-0.00147	0.0129	U
Cobalt-60	-0.0254	0.0265	U	-0.00497	0.0227	U	-0.0069	0.0254	U	0.00218	0.00957	U	0.00134	0.0147	U
Europium-152	-0.0147	0.0507	U	0.0601	0.0617	U	-0.0699	0.0553	U	-0.0136	0.0238	U	-0.00363	0.0298	U
Europium-154	0.0892	0.0805	U	-0.0286	0.0666	U	-0.0232	0.0854	U	0.0106	0.0341	U	-0.00957	0.0457	U
Europium-155	0.0631	0.066	U	0.00	0.0858	UUU	0.0654	0.0724	U	0.00	0.0367	UUU	0.0445	0.0458	U
Iridium-192	0.00792	0.0165	U	-0.00104	0.0154	U	-0.00982	0.0191	U	-0.00132	0.0076	U	0.00287	0.00951	U
Iron-59	0.011	0.0509	U	-0.0211	0.0401	U	-0.00151	0.0487	U	-0.0171	0.0218	U	-0.0102	0.030	U
Lead-210	0.437	0.459	U	3.62	4.43	U	0.551	0.508		0.804	1.58	U	0.668	0.306	
Lead-212	0.878	0.0999		0.861	0.106		0.956	0.107		0.892	0.0732		0.974	0.0975	
Lead-214	0.669	0.100		0.656	0.100		0.812	0.111		0.699	0.0721		0.767	0.086	
Manganese-54	0.0344	0.0279	U	0.0108	0.019	U	0.00747	0.0229	U	0.00215	0.0106	U	0.0176	0.0137	U
Mercury-203	0.00	0.0345	UUU	0.00	0.0295	UUU	0.00	0.0284	UUU	0.00	0.016	UUU	0.00	0.0142	UUU
Neodymium-147	0.154	0.168	U	-0.0765	0.141	U	0.108	0.168	U	0.0106	0.0692	U	-0.0265	0.117	U
Neptunium-239	-0.0148	0.0918	U	-0.0242	0.0945	U	-0.023	0.103	U	-0.00335	0.044	U	-0.0371	0.0518	U
Niobium-94	0.0221	0.0222	U	0.0164	0.0166	U	-0.00807	0.0247	U	0.0121	0.00852	U	0.0108	0.0129	U
Niobium-95	0.00404	0.025	U	0.0127	0.0209	U	0.00	0.0435	UUU	0.00762	0.0109	U	0.0163	0.0333	U
Potassium-40	25.4	1.93		24.6	2.08		26.3	2.04		23.4	1.59		26.1	1.74	
Promethium-144	-0.00337	0.0218	U	0.0168	0.0171	U	0.00902	0.0347	U	0.00547	0.00844	U	-0.0165	0.013	U
Promethium-146	0.0117	0.0253	U	0.00833	0.0212	U	0.000897	0.0247	U	0.00176	0.0111	U	0.00725	0.0145	U
Radium-228	0.918	0.206		0.765	0.180		1.02	0.219		0.989	0.143		1.02	0.166	
Ruthenium-106	-0.0227	0.201	U	-0.0783	0.147	U	-0.198	0.196	U	-0.00177	0.075	U	0.148	0.116	U
Silver-110m	-0.0167	0.0216	U	0.0059	0.0191	U	-0.000398	0.0231	U	0.0068	0.00843	U	0.00184	0.0137	U
Sodium-22	0.0319	0.0286	U	-0.0102	0.0237	U	-0.00826	0.0304	U	0.00358	0.0121	U	-0.00339	0.0163	U
Thallium-208	0.311	0.0512		0.272	0.0475		0.298	0.0549		0.282	0.0305		0.317	0.0398	
Thorium-230	0.691	0.139		0.690	0.103		0.658	0.117		0.618	0.0673		0.691	0.093	
Thorium-234	0.495	0.554	U	1.03	1.39	U	0.641	0.417		0.835	0.590		1.08	0.389	
Tin-113	0.0116	0.0371	U	-0.0189	0.0213	U	-0.0061	0.0253	U	-0.00947	0.0104	U	-0.0094	0.0133	U
Tritium	-0.555	2.94	U	1.29	3.45	U	0.179	3.16	U	0.202	3.56	U	-0.492	3.53	U
Uranium-234	N/A			N/A			N/A			N/A			N/A		
Uranium-235	0.247	0.214		0.0897	0.147	U	0.112	0.133	U	0.0541	0.0774	U	0.00	0.0698	UUU
Uranium-238	0.495	0.554	U	1.03	1.39	U	0.641	0.417		0.835	0.590		1.08	0.389	
Yttrium-88	-0.000499	0.0182	U	0.0147	0.016	U	0.0124	0.0193	U	9.570E-06	0.00765	U	0.00461	0.00971	U
Zinc-65	0.0449	0.0659	U	-0.0334	0.0553	U	-0.169	0.063	U	-0.00877	0.0265	U	0.00426	0.0372	U
Zirconium-95	0.0528	0.0424	U	-0.00489	0.0308	U	0.0396	0.0407	U	0.00539	0.0248	U	0.0061	0.0231	U

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	SEAD63-SLW-05			SEAD63-SLW-06			SEAD63-SLW-07			SEAD63-SLW-08			SEAD63-SLW-09		
	Parameter	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)	Result	Unc. * (+/-)		
Actinium-227	N/A			N/A		N/A		-0.256	0.227	U	-0.094	0.251	U		
Actinium-228	0.936	0.164		1.18	0.219	1.07	0.207	1.07	0.217		0.943	0.223			
Americium-241	0.0113	0.0472	U	-0.0184	0.0351	0.055	0.122	0.0326	0.0355	U	0.0184	0.0379	U		
Antimony-124	-0.00142	0.0141	U	-0.00644	0.0249	-0.00912	0.0136	-0.00463	0.0227	U	0.016	0.0251	U		
Antimony-125	-0.0107	0.0332	U	0.00587	0.0518	0.0342	0.0462	0.00557	0.0545	U	0.0272	0.0592	U		
Barium-133	0.00735	0.0167	U	-0.127	0.0316	0.00266	0.0194	-0.0222	0.0274	U	0.0193	0.0293	U		
Barium-140	0.0485	0.0496	U	0.0137	0.0787	-0.0129	0.0497	0.0459	0.112	U	-0.0207	0.110	U		
Beryllium-7	-0.0191	0.104	U	0.0963	0.155	-0.00788	0.113	-0.0335	0.170	U	-0.0191	0.219	U		
Bismuth-212	0.567	0.194		0.738	0.262	0.541	0.193	0.459	0.351		0.470	0.299			
Bismuth-214	0.544	0.0853		0.554	0.108	0.509	0.0784	0.691	0.128		0.737	0.135			
Cerium-139	-0.0101	0.0115	U	0.000301	0.0156	0.00532	0.0124	-0.0047	0.0169	U	0.00219	0.0173	U		
Cerium-141	0.0311	0.0239	U	0.00757	0.0263	0.0186	0.0219	0.0306	0.0374	U	0.0037	0.031	U		
Cerium-144	0.0297	0.0888	U	-0.0364	0.0991	-0.0257	0.091	-0.0344	0.115	U	-0.107	0.114	U		
Cesium-134	0.00	0.0216	UUI	0.00	0.0399	0.0315	0.0263	0.026	0.0301	U	0.0456	0.0451	U		
Cesium-136	0.018	0.032	U	0.0205	0.0359	-0.0107	0.024	0.0437	0.0458	U	-0.00285	0.0511	U		
Cesium-137	0.0649	0.0219		0.054	0.0299	0.0322	0.0214	0.00	0.0493	UUI	0.0159	0.0415	U		
Chromium-51	-0.013	0.100	U	0.0117	0.143	0.101	0.116	0.0544	0.161	U	0.095	0.182	U		
Cobalt-56	-0.000268	0.0135	U	0.00764	0.0223	-0.00304	0.0143	0.00721	0.0252	U	-0.0077	0.0262	U		
Cobalt-57	-0.00171	0.010	U	-0.00444	0.0122	0.00327	0.0113	0.000912	0.0126	U	0.00172	0.0139	U		
Cobalt-58	-0.0066	0.012	U	-0.0129	0.0221	-0.00817	0.0153	-0.0183	0.0231	U	-0.0263	0.0258	U		
Cobalt-60	0.0165	0.0142	U	0.00948	0.0256	-0.00138	0.018	-0.00442	0.0277	U	0.0141	0.0289	U		
Europium-152	-0.0102	0.0358	U	-0.0211	0.0504	-0.0143	0.0411	0.0268	0.0543	U	0.0149	0.0591	U		
Europium-154	-0.00248	0.0489	U	0.0351	0.0866	0.00841	0.0529	-0.0338	0.0855	U	-0.033	0.0865	U		
Europium-155	0.0468	0.0394	U	0.0397	0.0482	0.0274	0.0537	0.0403	0.0513	U	0.000159	0.0761	U		
Iridium-192	0.00759	0.0111	U	-0.0139	0.016	-0.0104	0.0132	-0.00122	0.017	U	-0.0152	0.0191	U		
Iron-59	0.00145	0.0281	U	-0.00283	0.0474	-0.00964	0.0308	0.0123	0.0566	U	-0.0439	0.0651	U		
Lead-210	1.25	1.40	U	0.659	0.457	2.55	2.89	0.857	0.435		1.07	0.533			
Lead-212	0.911	0.0804		0.876	0.0993	0.847	0.0798	0.909	0.104		0.972	0.112			
Lead-214	0.627	0.0764		0.644	0.0984	0.662	0.0859	0.704	0.103		0.820	0.128			
Manganese-54	-0.0183	0.0145	U	0.00283	0.0222	0.0181	0.0161	0.0296	0.0572	U	0.0242	0.0434	U		
Mercury-203	0.00	0.0181	UUI	0.00211	0.0181	0.0102	0.0206	0.0276	0.0316	U	0.0299	0.0351	U		
Neodymium-147	0.0227	0.0887	U	-0.0215	0.143	0.0842	0.0977	0.115	0.197	U	-0.0499	0.231	U		
Neptunium-239	-0.0573	0.0772	U	-0.0423	0.0904	0.0806	0.0938	-0.129	0.0937	U	-0.0493	0.106	U		
Niobium-94	-0.000319	0.0121	U	-0.00993	0.0221	0.00	0.0138	0.0136	0.0231	UUI	-0.00644	0.0284	U		
Niobium-95	0.00	0.0186	UUI	0.030	0.0239	0.0132	0.0155	0.015	0.0302	U	0.0268	0.0298	U		
Potassium-40	25.9	1.91		24.4	1.88	25.1	1.99	24.4	1.88		28.6	2.21			
Promethium-144	0.0189	0.0124	U	0.0141	0.0207	-0.00408	0.0137	-0.00842	0.0233	U	0.00281	0.0297	U		
Promethium-146	0.00986	0.0159	U	0.00903	0.0244	-0.00564	0.0182	-0.00519	0.0266	U	0.00346	0.0288	U		
Radium-228	0.936	0.164		1.18	0.219	1.07	0.207	1.07	0.217		0.943	0.223			
Ruthenium-106	0.00933	0.111	U	-0.182	0.194	0.00975	0.126	-0.0842	0.212	U	-0.0538	0.230	U		
Silver-110m	0.00513	0.0134	U	-0.00839	0.022	-0.00131	0.0152	-0.00522	0.0258	U	0.00568	0.0282	U		
Sodium-22	-0.000903	0.0174	U	0.0125	0.0308	0.00299	0.0188	-0.0121	0.0304	U	-0.0121	0.0308	U		
Thallium-208	0.254	0.0374		0.260	0.0492	0.255	0.0421	0.332	0.0562		0.330	0.0663			
Thorium-230	0.544	0.0853		0.554	0.108	0.509	0.0784	0.691	0.128		0.737	0.135			
Thorium-234	0.742	0.689	U	0.937	0.671	0.921	0.982	0.827	0.660	U	1.32	0.699	U		
Tin-113	-0.00782	0.0151	U	-0.00864	0.0218	-0.0145	0.0175	-0.0145	0.0239	U	-0.00894	0.0276	U		
Tritium	0.826	1.68	U	0.262	1.54	2.42	2.68	0.588	1.95	U	-0.321	1.92	U		
Uranium-234	N/A			N/A		N/A		0.692	0.130		0.817	0.182			
Uranium-235	0.184	0.132		0.0411	0.142	0.0522	0.0957	0.155	0.188	U	0.137	0.127	U		
Uranium-238	0.742	0.689	U	0.937	0.671	0.921	0.982	0.827	0.660	U	1.32	0.699	U		
Yttrium-88	0.00126	0.00937	U	-0.00957	0.0168	0.00113	0.0129	-0.00285	0.0202	U	0.0161	0.0214	U		
Zinc-65	0.0465	0.0379	U	0.0115	0.0628	-0.00201	0.0414	-0.0603	0.0676	U	0.0048	0.0738	U		
Zirconium-95	0.010	0.0237	U	0.000676	0.0369	-0.00068	0.0244	0.0163	0.0409	U	-0.0075	0.0466	U		

Table C.6.2 - Laboratory Results for Disposal Characterization Samples - Four Inch Minus Material

Sample ID Number	SEAD63-SLW-10			SEAD63-SLW-11			SEAD63-SLW-13			SEAD63-SLW-14			SEAD63-SLW-12		
	Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)		Result	Unc. * (+/-)	
Actinium-227	-0.0306	0.162	U	0.177	0.267	U	-0.027	0.109	U	-0.0489	0.135	U	-0.222	0.201	U
Actinium-228	1.11	0.186		1.13	0.227		1.01	0.157		0.764	0.134		0.967	0.216	
Americium-241	0.0103	0.0591	U	-0.0302	0.124	U	0.0149	0.0426	U	-0.000891	0.0638	U	0.0215	0.0301	U
Antimony-124	-0.0145	0.0155	U	-0.0131	0.0178	U	-0.00688	0.00943	U	0.00827	0.0098	U	0.00973	0.0194	U
Antimony-125	-0.0201	0.0373	U	0.0252	0.0474	U	0.00579	0.0263	U	-0.00368	0.0295	U	0.00311	0.0489	U
Barium-133	0.022	0.0195	U	0.000117	0.0239	U	0.00632	0.0139	U	-0.00496	0.015	U	0.0112	0.024	U
Barium-140	0.0183	0.064	U	0.0301	0.0809	U	-0.0281	0.0413	U	-0.0159	0.0436	U	0.0384	0.0829	U
Beryllium-7	-0.0288	0.115	U	-0.0149	0.141	U	-0.0281	0.0785	U	0.0563	0.0859	U	0.0308	0.155	U
Bismuth-212	0.740	0.241		0.688	0.246		0.595	0.193		0.434	0.161		0.676	0.313	
Bismuth-214	0.613	0.0942		0.658	0.0994		0.667	0.0707		0.596	0.0716		0.668	0.107	
Cerium-139	-0.0124	0.0131	U	-0.00748	0.0157	U	0.000953	0.00865	U	-0.00224	0.00845	U	0.00476	0.0146	U
Cerium-141	0.0147	0.0264	U	0.0122	0.0266	U	0.0084	0.0166	U	0.0101	0.0219	U	0.0132	0.0283	U
Cerium-144	0.0243	0.0923	U	-0.0785	0.110	U	-0.0469	0.0561	U	-0.0132	0.0577	U	0.118	0.105	U
Cesium-134	0.00	0.0381	UUU	0.00	0.0403	UUU	0.00	0.0219	UUU	0.00	0.0239	UUU	0.00	0.0369	UUU
Cesium-136	-0.00405	0.0297	U	0.0371	0.0391	U	2.490E-05	0.0204	U	-0.00389	0.0195	U	-0.00869	0.041	U
Cesium-137	0.039	0.024		0.0235	0.030		0.00813	0.0177	U	0.667	0.0591		0.0481	0.037	
Chromium-51	0.0275	0.125	U	0.084	0.150	U	0.0376	0.0807	U	-0.06	0.0919	U	0.0184	0.142	U
Cobalt-56	0.0139	0.0163	U	-0.00676	0.0211	U	-0.00309	0.0121	U	0.00156	0.0109	U	0.00167	0.0208	U
Cobalt-57	0.00326	0.0112	U	-0.00381	0.0132	U	0.00263	0.00687	U	0.00374	0.00723	U	-0.00381	0.0114	U
Cobalt-58	-0.0145	0.015	U	-0.0175	0.0214	U	-0.0133	0.0105	U	-0.00336	0.0102	U	0.00697	0.021	U
Cobalt-60	0.0222	0.0166	U	-0.0132	0.0222	U	-0.00283	0.0117	U	-0.00168	0.0117	U	0.00458	0.025	U
Europium-152	0.00673	0.0395	U	0.0122	0.0469	U	-0.00372	0.0273	U	-0.021	0.0305	U	0.0158	0.0528	U
Europium-154	-0.0102	0.0549	U	-0.00788	0.0763	U	0.0134	0.0431	U	0.0332	0.0395	U	0.0274	0.0768	U
Europium-155	0.0425	0.068	U	0.0537	0.0574	U	0.00	0.039	UUU	0.0371	0.0374	U	0.027	0.0631	U
Iridium-192	0.00138	0.013	U	-0.00715	0.016	U	0.0009	0.00899	U	-0.00151	0.00976	U	-0.00695	0.0153	U
Iron-59	-0.00697	0.0342	U	0.000954	0.0553	U	-0.0245	0.0265	U	-0.0193	0.024	U	0.0039	0.0554	U
Lead-210	0.167	1.28	U	1.77	4.41	U	1.44	1.78	U	1.63	3.78	U	0.890	0.434	
Lead-212	0.958	0.0878		1.04	0.110		0.968	0.0805		0.820	0.0896		0.965	0.105	
Lead-214	0.831	0.100		0.816	0.121		0.728	0.0782		0.672	0.0798		0.749	0.102	
Manganese-54	0.013	0.0175	U	-0.00737	0.0206	U	0.00565	0.0237	U	0.00599	0.013	U	0.0142	0.021	U
Mercury-203	0.0102	0.0163	U	0.019	0.030	U	0.0137	0.0136	U	0.00	0.0159	UUU	0.0215	0.0246	U
Neodymium-147	0.0855	0.126	U	0.0469	0.170	U	0.0243	0.0831	U	-0.0472	0.0815	U	-0.119	0.161	U
Neptunium-239	0.0606	0.0849	U	-0.017	0.103	U	-0.0234	0.0532	U	0.0591	0.0595	U	0.114	0.0999	U
Niobium-94	0.00705	0.0147	U	-0.0144	0.0188	U	0.000733	0.00993	U	0.00263	0.00966	U	0.00777	0.0197	U
Niobium-95	0.00302	0.0343	U	0.0215	0.0246	U	-0.00479	0.0134	U	0.00976	0.0133	U	0.0322	0.0266	U
Potassium-40	27.4	2.05		29.4	2.54		27.5	1.89		21.4	1.64		26.4	1.94	
Promethium-144	-0.00193	0.0144	U	-0.0121	0.0194	U	-0.00309	0.0102	U	0.00925	0.00988	U	0.0188	0.0204	U
Promethium-146	0.0071	0.0185	U	0.0072	0.0229	U	0.0149	0.0128	U	-0.00403	0.013	U	-0.0117	0.0232	U
Radium-228	1.11	0.186		1.13	0.227		1.01	0.157		0.764	0.134		0.967	0.216	
Ruthenium-106	0.0861	0.127	U	-0.145	0.161	U	0.056	0.0889	U	-0.0138	0.0892	U	-0.0425	0.173	U
Silver-110m	0.0119	0.0155	U	-0.00786	0.0182	U	-0.00251	0.0109	U	0.00695	0.011	U	0.010	0.0217	U
Sodium-22	-0.00364	0.0195	U	-0.00272	0.0272	U	0.00467	0.0154	U	0.0118	0.0141	U	0.00957	0.0273	U
Thallium-208	0.270	0.0409		0.334	0.0513		0.320	0.0346		0.250	0.0337		0.337	0.0572	
Thorium-230	0.613	0.0942		0.657	0.0994		0.666	0.0707		0.596	0.0716		0.668	0.107	
Thorium-234	1.13	0.912		1.35	1.23	U	1.19	0.682		0.612	0.747	U	1.12	0.591	
Tin-113	-0.0159	0.0177	U	0.00695	0.0222	U	0.00286	0.012	U	0.0185	0.0203	U	-0.00387	0.0221	U
Tritium	-0.22	2.03	U	-0.049	1.97	U	2.51	2.65	U	1.47	2.06	U	-1.4	2.64	U
Uranium-234	0.774	0.120		0.765	0.149		0.770	0.0933		0.650	0.106		0.614	0.133	
Uranium-235	0.0762	0.136	U	0.0668	0.145	U	0.0421	0.0834	U	0.0551	0.119	U	0.0675	0.145	U
Uranium-238	1.13	0.912		1.35	1.23	U	1.19	0.682		0.612	0.747	U	1.12	0.591	
Yttrium-88	0.00833	0.0118	U	0.00193	0.019	U	-0.000485	0.00825	U	0.00246	0.00849	U	0.00878	0.0165	U
Zinc-65	0.057	0.0457	U	-0.0809	0.056	U	-0.0276	0.0335	U	0.00997	0.0296	U	0.00689	0.0573	U
Zirconium-95	0.0271	0.0267	U	0.0226	0.035	U	0.0186	0.0188	U	0.00807	0.0179	U	0.00	0.0656	UUU

**Table C.6.2 - Laboratory Results for Disposal Characterization
Samples - Four Inch Minus Material**

NOTES:

All results in picocuries per gram (pCi/g)

"BPTP" denotes Burial Pit Test Pit sample

"SLW" denotes Soil Stockpile sample

"Unc*" denotes uncertainty (+/- pCi/g)

"U" is a laboratory quality control qualifier indicating parameter not detected above Method Detection Limit

"UI" is a laboratory quality control qualifier indicating uncertain identification for gamma spectroscopy

Table C.7 - Laboratory Results for Disposal Characterization Samples - Wastewater

Location:	Frac Tank Wastewater		
Sample Matrix & Source:	Liquid - Waste Water		
Sample Identification Number:	SEAD63-FT-01		
Sample Collection Date:	05/04/04		
Parameter	Result	Practical Quantitation Limit	Qualifier*
Nutrient/Inorganic Parameters (mg/L, except pH):			
pH (pH units)	7.4	0	H
Total Dissolved Solids (Residue, Filterable)	170	10	
Suspended Solids (Residue, Non-Filterable)	12000	4	
Biochemical Oxygen Demand - 5 Day	7	2	
Cyanide	ND	0.01	
Nitrogen, Ammonia (As N)	ND	1	
Metals (µg/L):			
Aluminum	240000	200	
Antimony	ND	20	
Arsenic	120	50	
Barium	2000	200	
Beryllium	13	4	
Cadmium	240	5	
Calcium	810000	12000	
Chromium	450	10	
Cobalt	290	50	
Copper	1000	25	
Iron	530000	500	
Magnesium	240000	2500	
Manganese	9600	15	
Nickel	1000	40	
Potassium	17000	2500	
Silver	7.3	7	
Sodium	5300	2500	
Vanadium	330	50	
Zinc	2400	20	
Metals - Other (µg/L):			
Lead	460	120	
Mercury	1.1	0.2	
Selenium	1.5	5	J
Thallium	ND	5	
Notes:			
"µg/L" means microgram per liter			
"J" is a laboratory quality control qualifier indicating detection but below method Reporting			
"H" is a laboratory quality control qualifier meaning method holding time was exceeded			