

Table Notes

1. The Cleanup goal is based on the New York Technical Administrative Guidance Memorandum (TAGM) No. 4046 Recommended Soil Cleanup Objectives. Values denoted as Site Background ("SB") in TAGM 4046 were compared with the highlighted values (95th percentile of Seneca Army Depot (SEDA) Site Background) in lieu of the TAGM "SB" since no background cleanup objectives exist for certain parameters.

	95th percentile of SEDA Site Background
	Result Exceeds Cleanup Criteria

2. Benzo(a)pyrene TEQ = for carcinogenic PAHs calculated by multiplying the concentration of the individual cPAHs by the following factors:

Benzo(a)pyrene = 1.0

Dibenzo(a,h)anthracene = 1.0

Benzo(a)anthracene = 0.1

Benzo(b)fluoranthene = 0.1

Indeno(1,2,3-cd)pyrene = 0.1

Benzo(k)fluoranthene = 0.01

Chrysene = 0.01

NA - Not Analyzed

U - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

NE - New York TAGM Not Established for this compound

MDL - Method Detection Limit

SB - Site Background Levels

FX - Sample ID such as "SEAD5-**FX**-SS-038FS means sample was collected from the bottom floor of the excavation.

For Delineation samples collected in July and October 2005:

FS1 samples - Delineation samples collected at a depth of 0" to 6" bgs

FS2 samples - Delineation samples collected at a depth of 6" to 12" bgs

FS3 samples - Delineation samples collected at a depth of 12" to 18" bgs

FS4 samples - Delineation samples collected at a depth of 18" to 24" bgs

Table A-1
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Confirmation Sampling Results - August 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-001FS		SEAD5-PX-SS-002FS		SEAD5-PX-SS-003FS		SEAD5-PX-SS-004FS		SEAD5-PX-SS-005FS		SEAD5-PX-SS-006FS		SEAD5-PX-SS-007FS		SEAD5-PX-SS-008FS		SEAD5-PX-SS-009FS		SEAD5-PX-SS-010FS		SEAD5-PX-SS-010DP	
Sampling Depth		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"	
Sampling Date		8/14/2003		8/14/2003		8/14/2003		8/14/2003		8/14/2003		8/14/2003		8/14/2003		8/14/2003		8/14/2003		8/14/2003		8/14/2003	
Matrix		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Polyaromatic Hydrocarbons (ug/Kg - dry)																							
Naphthalene	13,000	290	U	310	U	290	U	320	U	290	U	300	U	290	U	260	U	270	U	260	U	270	U
2-Methylnaphthalene	36400	290	U	310	U	290	U	320	U	290	U	300	U	290	U	260	U	270	U	260	U	270	U
Acenaphthylene	41,000	290	U	110	J	290	U	320	U	290	U	300	U	120	J	260	U	270	U	260	U	270	U
Acenaphthene	50,000	290	U	310	U	290	U	320	U	290	U	300	U	290	U	260	U	270	U	260	U	270	U
Fluorene	50,000	290	U	65	J	290	U	320	U	290	U	300	U	63	J	260	U	270	U	260	U	270	U
Phenanthrene	50,000	170	J	670		160	J	320	U	290	U	140	J	630		180	J	340		76	J	110	J
Anthracene	50,000	290	U	220	J	290	U	320	U	290	U	300	U	140	J	56	J	98	J	260	U	270	U
Fluoranthene	50,000	380		1200		320		150	J	290	U	380		1100		610		610		150	J	200	J
Pyrene	50,000	330		1100		320		140	J	290	U	390		910		580		520		160	J	200	J
Benz(a)anthracene	224	210	J	640		190	J	100	J	290	U	260	J	460		340		310		100	J	120	J
Chrysene	400	190	J	600		180	J	110	J	290	U	290	J	530		300		300		98	J	120	J
Benzo(b)fluoranthene	1,100	270	J	820		250	J	120	J	290	U	480		630		390		380		130	J	180	J
Benzo(k)fluoranthene	1,100	94	J	260	J	80	J	320	U	290	U	130	J	220	J	160	J	140	J	260	U	63	J
Benzo(a)pyrene	61	180	J	580		190	J	94	J	290	U	310		450		270		300		110	J	140	
Dibenzo(a,h)anthracene	14	290	U	100	J	290	U	320	U	290	U	300	U	290	U	260	U	270	U	260	U	270	U
Indeo(1,2,3-cd)pyrene	3,200	160	J	400		130	J	320	U	290	U	230	J	390		180	J	230	J	100	J	140	J
Benzo(g,h,i)perylene	50,000	130	J	380		110	J	72	J	290	U	260	J	330		150	J	180	J	77	J	120	J
² Benzo(a)pyrene TEQ	10,000	537		875		540		472		673		711		896		626		666		407		456	
ICP Metals (mg/Kg - dry)																							
Arsenic	8.24	3.8	J	5	J	4.7	J	4.6	J	5	J	3	J	3.5	J	4.9	J	4.7	J	3.3	J	2.8	J
Barium	300	94		66		85		92		120		250		110		84		64		110		110	
Cadmium	2.3	0.34	J	0.35	J	0.3	J	0.3	J	0.3	J	2.4		0.83		0.44	J	0.29	J	1.5		1.5	
Chromium	29	17		15		17		16		18		19		17		18		19		14		14	
Copper	29.6	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	400	61		84		69		26		24		110		39		34		27		76		79	
Selenium	2	0.5	J	0.78	U	0.54	J	0.38	J	0.36	J	1.5		0.52	J	0.37	J	0.44	J	1.6		1.2	
Silver	0.763	0.34	J	1.1	J	2	U	2.2	U	2	U	15		3.1		0.82	J	1.9	U	2		1.9	
Zinc	108.9	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Mercury (mg/Kg - dry)																							
Mercury	0.13	0.27		0.47		0.15		0.076		0.11		4.9		2		0.3		0.067		1.1		1.2	
Percent Moisture (wt%)																							
Percent Moisture		15.8		20.1		16.3		22.2		16.8		17.0		15.8		6.7		9.7		6.6		8.4	

Table A-1
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Confirmation Sampling Results - August 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-011FS		SEAD5-FX-SS-012FS		SEAD5-FX-SS-013FS		SEAD5-PX-SS-014FS		SEAD5-PX-SS-015FS		SEAD5-PX-SS-016FS		SEAD5-PX-SS-017FS		SEAD5-FX-SS-018FS		SEAD5-PX-SS-019FS		SEAD5-PX-SS-020FS		SEAD5-PX-SS-021FS	
Sampling Depth		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"	
Sampling Date		8/14/2003		8/14/2003		8/14/2003		8/15/2003		8/15/2003		8/15/2003		8/15/2003		8/15/2003		8/15/2003		8/15/2003		8/15/2003	
Matrix		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Polyaromatic Hydrocarbons (ug/Kg - dry)																							
Naphthalene	13,000	260	U	280	U	250	U	320	U	300	U	300	U	300	U	330	U	290	U	300	U	300	U
2-Methylnaphthalene	36400	260	U	280	U	250	U	320	U	300	U	300	U	300	U	330	U	290	U	300	U	300	U
Acenaphthylene	41,000	130	J	110	J	250	U	320	U	300	U	300	U	300	U	330	U	290	U	300	U	300	U
Acenaphthene	50,000	110	J	81	J	65	J	320	U	300	U	300	U	300	U	330	U	290	U	300	U	300	U
Fluorene	50,000	130	J	180	J	58	J	320	U	300	U	300	U	300	U	330	U	290	U	300	U	300	U
Phenanthrene	50,000	1800		2500		680		220	J	290	J	69	J	470		69	J	290	U	340		170	J
Anthracene	50,000	440		650		200	J	72	J	89	J	300	U	140	J	330	U	290	U	100	J	300	U
Fluoranthene	50,000	2700		2800		1,200		300	J	520		140	J	830		140	J	290	U	680		440	
Pyrene	50,000	2300		2400		1000		290	J	440		140	J	780		130	J	290	U	640		370	
Benz(a)anthracene	224	1200		1200		610		170	J	230	J	89	J	430		92	J	290	U	350		240	J
Chrysene	400	1200		1100		620		180	J	240	J	84	J	350		76	J	290	U	350		240	J
Benzo(b)fluoranthene	1,100	1400		1300		730		190	J	290	J	86	J	460		110	J	290	U	480		350	
Benzo(k)fluoranthene	1,100	510		420		230	J	78	J	110	J	300	U	200	J	330	U	290	U	160	J	110	J
Benzo(a)pyrene	61	1100		1000		540		150	J	190	J	86	J	370		79	J	290	U	360		250	J
Dibenzo(a,h)anthracene	14	170	J	180	J	94	J	320	U	300	U	300	U	89	J	330	U	290	U	300	U	300	U
Indeo(1,2,3-cd)pyrene	3,200	760		730		360		150	J	130	J	300	U	250	J	330	U	290	U	250	J	180	J
Benzo(g,h,i)perylene	50,000	680		580		320		210	J	130	J	300	U	250	J	330	U	290	U	240	J	140	J
² Benzo(a)pyrene TEQ	10,000	1623		1518		813		524		559		437		579		466		673		773		631	
ICP Metals (mg/Kg - dry)																							
Arsenic	8.24	4.4	J	3.7	J	6.3		4.5	J	4.4	J	3.8	J	4.3	J	3.1	J	5.8	J	7.4	J	7.6	U
Barium	300	53		72		58		75		83		71		80		77		110		130		96	
Cadmium	2.3	0.19	J	0.56	J	0.31	J	0.33	J	0.32	J	0.23	J	0.41	J	0.33	J	0.71	U	0.67	J	0.54	J
Chromium	29	19		20		19		25		15		16		22		14		21		20		14	
Copper	29.6	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead	400	52		41		32		95		29		22		57		46		15		51		35	
Selenium	2	0.45	J	0.7	U	0.97		0.82	U	0.77	U	0.73	U	0.75	U	0.43	J	0.71	U	0.46	J	0.4	J
Silver	0.763	1.8	U	2	U	1.6	J	2.3	U	2.1	U	2.1	U	0.75	J	2.3	U	2	U	2.2		1.4	J
Zinc	108.9	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Mercury (mg/Kg - dry)																							
Mercury	0.13	0.037	J	0.045	J	0.29		0.061	J	0.14		0.074		0.28		0.1		0.048	J	0.57		0.32	
Percent Moisture (wt%)																							
Percent Moisture		4.5		14.8		6.2		23.8		20.9		21.0		18.1		25.3		13.1		20.0		18.5	

Table A-1
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Confirmation Sampling Results - August 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-022FS		SEAD5-PX-SS-023FS		SEAD5-PX-SS-024FS		SEAD5-FX-SS-025FS		SEAD5-FX-SS-026FS		SEAD5-FX-SS-027FS		SEAD5-FX-SS-028FS		SEAD5-FX-SS-029FS		SEAD5-PX-SS-030FS		SEAD5-PX-SS-030DP		SEAD5-PX-SS-031FS	
Sampling Depth		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"	
Sampling Date		8/15/2003		8/15/2003		8/15/2003		8/15/2003		8/15/2003		8/20/2003		8/20/2003		8/20/2003		8/20/2003		8/20/2003		8/20/2003	
Matrix		Solid		Solid		Solid		Solid		Solid		Soil		Soil		Soil		Soil		Soil		Soil	
Polyaromatic Hydrocarbons (ug/Kg - dry)																							
Naphthalene	13,000	310	U	280	U	280	U	290	U	290	U	71	J	370		380	U	77	J	260	U	310	U
2-Methylnaphthalene	36400	310	U	280	U	280	U	290	U	290	U	270	U	230	J	380	U	270	U	260	U	80	J
Acenaphthylene	41,000	310	U	280	U	280	U	62	J	290	U	390		940		380	U	270	U	66	J	310	U
Acenaphthene	50,000	310	U	280	U	280	U	290	U	290	U	170	J	370		380	U	300		260	U	93	J
Fluorene	50,000	310	U	280	U	280	U	63	J	290	U	230	J	1900		380	U	220	J	260	U	82	J
Phenanthrene	50,000	110	J	280	U	280	U	530		290	U	2900		14000		130	J	3000		390		810	
Anthracene	50,000	310	U	280	U	280	U	160	J	290	U	760		3100		380	U	770		130	J	170	J
Fluoranthene	50,000	200	J	150	J	280	U	1100		290	U	5900		15000		280	J	5700		830		1200	
Pyrene	50,000	200	J	140	J	280	U	840		290	U	5300		12000		280	J	5000		840		1000	
Benz(a)anthracene	224	140	J	76	J	280	U	540		290	U	3100		6300		200	J	2700		590		570	
Chrysene	400	120	J	91	J	280	U	510		290	U	3100		6400		210	J	2500		560		640	
Benzo(b)fluoranthene	1,100	230	J	140	J	280	U	610		290	U	3900		6300		290	J	2700		780		710	
Benzo(k)fluoranthene	1,100	310	U	280	U	280	U	240	J	290	U	1300		2600		100	J	1000		290		260	J
Benzo(a)pyrene	61	130	J	91	J	280	U	490		290	U	3000		5500		200	J	2000		590		510	
Dibenzo(a,h)anthracene	14	310	U	280	U	280	U	80	J	290	U	500		920		380	U	370		94	J	86	J
Indeo(1,2,3-cd)pyrene	3,200	130	J	77	J	280	U	320		290	U	1900		3900		190	J	1300		400		320	
Benzo(g,h,i)perylene	50,000	120	J	80	J	280	U	290		290	U	1500		3300		170	J	1200		330		250	J
² Benzo(a)pyrene TEQ	10,000	494		404		650		725		673		4434		8160		651		3075		870		765	
ICP Metals (mg/Kg - dry)																							
Arsenic	8.24	3.3	J	6.4	J	4.8	J	3.6	J	5.4	J	7.8		7		10		9.6		7.7		8.4	
Barium	300	120		100		120		110		110		64		96		150		100		110		160	
Cadmium	2.3	1		0.46	J	0.19	J	0.39	J	0.73	U	0.21	J	0.36	J	1.9		2		2.4		1.8	
Chromium	29	17		16		18		17		19		21		20		21		20		21		19	
Copper	29.6	NA		NA		NA		NA		NA		71		45		230		160		180		270	
Lead	400	57		32		15		40		11		120		41		81		72		90		74	
Selenium	2	0.74	J	0.39	J	0.72	U	0.74	U	0.73	U	0.38	J	0.44	J	1.1		1.3		1.4		0.9	
Silver	0.763	0.36	J	0.32	J	2	U	0.31	J	2	U	1.9	U	0.27	J	10		17		21		4.8	
Zinc	108.9	NA		NA		NA		NA		NA		95		100		320		290		370		300	
Mercury (mg/Kg - dry)																							
Mercury	0.13	0.47		0.13		0.068		0.11		0.043	J	0.033	J	0.41		2.5		4.5		5.5		1.1	
Percent Moisture (wt%)																							
Percent Moisture		20.8		15.4		14.0		16.8		15.2		10.1		11.2		35.7		9.9		8.9		20.9	

Table A-1
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Confirmation Sampling Results - August 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-032FS		SEAD5-PX-SS-033FS		SEAD5-FX-SS-034FS		SEAD5-FX-SS-035FS		SEAD5-FX-SS-036FS		SEAD5-FX-SS-037FS		SEAD5-PX-SS-038FS		SEAD5-PX-SS-039FS		SEAD5-PX-SS-040FS		SEAD5-PX-SS-041FS	
Sampling Depth		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"		0- 6"	
Sampling Date		8/20/2003		8/20/2003		8/21/2003		8/15/2003		8/15/2003		8/15/2003		8/15/2003		8/20/2003		8/20/2003		8/20/2003	
Matrix		Soil		Soil		Soil		Soil (MSMSD)		Soil		Soil		Soil		Soil		Soil		Soil	
Polyaromatic Hydrocarbons (ug/Kg - dry)																					
Naphthalene	13,000	250	U	270	U	280	U	300	U	280	U	280	U	280	U	270	U	320	U	290	U
2-Methylnaphthalene	36400	250	U	270	U	280	U	300	U	280	U	280	U	280	U	270	U	320	U	290	U
Acenaphthylene	41,000	250	U	270	U	280	U	300	U	280	U	280	U	280	U	270	U	320	U	290	U
Acenaphthene	50,000	250	U	270	U	280	U	300	U	280	U	280	U	280	U	270	U	320	U	290	U
Fluorene	50,000	250	U	270	U	280	U	300	U	280	U	280	U	280	U	270	U	320	U	290	U
Phenanthrene	50,000	100	J	280		70	J	60	J	60	J	210	J	280		270	U	320	U	100	J
Anthracene	50,000	250	U	60	J	280	U	300	U	280	U	78	J	65	J	270	U	320	U	290	U
Fluoranthene	50,000	120	J	500		200	J	110	J	110	J	380		500		69	J	320	U	210	J
Pyrene	50,000	100	J	440		150	J	78	J	87	J	310		410		65	J	320	U	160	J
Benz(a)anthracene	224	56	J	240	J	57	J	300	U	61	J	210	J	220	J	270	U	320	U	85	J
Chrysene	400	96	J	300		130	J	300	U	62	J	260	J	260	J	270	U	320	U	120	J
Benzo(b)fluoranthene	1,100	86	J	380		100	J	300	U	89	J	300		290		58	J	320	U	140	J
Benzo(k)fluoranthene	1,100	250	U	150	J	57	J	300	U	280	U	120	J	110	J	270	U	320	U	290	U
Benzo(a)pyrene	61	250	U	260	J	280	U	300	U	280	U	180	J	180	J	270	U	320	U	88	J
Dibenzo(a,h)anthracene	14	250	U	57	J	280	U	300	U	280	U	280	U	280	U	270	U	320	U	290	U
Indeo(1,2,3-cd)pyrene	3,200	250	U	250	J	280	U	300	U	280	U	140	J	150	J	270	U	320	U	71	J
Benzo(g,h,i)perylene	50,000	250	U	230	J	280	U	300	U	280	U	130	J	130	J	270	U	320	U	71	J
² Benzo(a)pyrene TEQ	10,000	543		409		606		696		606		529		530		605		742		412	
ICP Metals (mg/Kg - dry)																					
Arsenic	8.24	6.4	U	2.1	J	4.6J	J	6.7		5.1	J	5.7	J	3.2	J	4.3	J	3.4	J	5.7	J
Barium	300	45	J	230		94		140		76		100		84		93		100		150	
Cadmium	2.3	6.4	U	2.3		0.18	J	0.41	J	0.23	J	0.47	J	0.74		0.17	J	0.21	J	0.33	J
Chromium	29	8.2	J	18		18		27		21		24		14		22		16		22	
Copper	29.6	27	J	580		22		29		33		47		120		42		26		30	
Lead	400	24	J	87		16		85		49		52		50		21		25		28	
Selenium	2	0.64	U	1.8		0.46	J	0.52	J	0.55	J	0.63	J	0.39	J	0.5	J	0.51	J	0.49	J
Silver	0.763	18	U	8.2		1.9	U	0.39	J	0.63	J	0.88	J	2.3		1.7	J	0.6	J	0.55	J
Zinc	108.9	99		420		83		140		96		120		140		89		75		100	
Mercury (mg/Kg - dry)																					
Mercury	0.13	0.041	J	1.6		0.079		0.099		0.14		0.29		0.8		0.22		0.16		0.13	
Percent Moisture (wt%)																					
Percent Moisture		3.4		9.9		11.9		18.2		11.9		13.5		10.7		9.7		23.3		17.3	

Table A-1
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Confirmation Sampling Results - August 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-042FS		SEAD5-PX-SS-043FS		Avg Result	Max Result	No. Exceedances
Sampling Depth		0- 6"		0- 6"				
Sampling Date		8/20/2003		8/20/2003				
Matrix		Soil		Soil				
Polyaromatic Hydrocarbons (ug/Kg - dry)								
Naphthalene	13,000	260	U	220	J	280	380	0
2-Methylnaphthalene	36400	260	U	160	J	279	380	0
Acenaphthylene	41,000	260	U	120	J	278	940	0
Acenaphthene	50,000	260	U	790		283	790	0
Fluorene	50,000	260	U	830		304	1900	0
Phenanthrene	50,000	95	J	7600		920	14000	0
Anthracene	50,000	260	U	1700		359.1	3100	0
Fluoranthene	50,000	160	J	8800		1264.9	15000	0
Pyrene	50,000	150	J	6800		1069.3	12000	0
Benz(a)anthracene	224	90	J	3700		618.6	6300	27
Chrysene	400	86	J	3400		612.5	6400	12
Benzo(b)fluoranthene	1,100	110	J	4200		704.5	6300	6
Benzo(k)fluoranthene	1,100	260	U	1400		338.7	2600	3
Benzo(a)pyrene	61	76	J	3100		567.9	5500	46
Dibenzo(a,h)anthracene	14	260	U	470		278.9	920	46
Indeo(1,2,3-cd)pyrene	3,200	61	J	1900		429.7	3900	1
Benzo(g,h,i)perylene	50,000	66	J	1700		380.2	3300	0
² Benzo(a)pyrene TEQ	10,000	366		4598		1032	8160	0
ICP Metals (mg/Kg - dry)								
Arsenic	8.24	2.8	J	9.8		5.2	10	4
Barium	300	70		100		101.9	250	0
Cadmium	2.3	0.39	J	0.72		0.8	6.4	3
Chromium	29	11		29		18.3	29	0
Copper	29.6	110		130		117.5	580	15
Lead	400	21		49		49.7	120	0
Selenium	2	0.5	J	0.46	J	0.7	1.8	0
Silver	0.763	3.0		3.9		3.4	21	35
Zinc	108.9	100		150		168.3	420	10
Mercury (mg/Kg - dry)								
Mercury	0.13	0.50		0.80		0.71	5.5	26
Percent Moisture (wt%)								
Percent Moisture		4.8		16.6				

Table A-2
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results - October 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-001-FS1		SEAD5-PX-SS-002-FS1		SEAD5-PX-SS-002-FS2		SEAD5-PX-SS-002-DP2		SEAD5-PX-SS-002-FS3		SEAD5-PX-SS-003-FS1		SEAD5-PX-SS-003-FS2		SEAD5-PX-SS-005-FS1		SEAD5-PX-SS-005-FS2		SEAD5-PX-SS-006-FS1		SEAD5-PX-SS-006-FS2		SEAD5-PX-SS-006-FS3	
Sample Depth		6" -12"		6" -12"		0" - 6"		0" - 6"		6" -12"		6" -12"		0" - 6"		6" -12"		0" - 6"		6" -12"		0" - 6"		6" -12"	
Sampling Date		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Polyaromatic Hydrocarbons (ug/kg - dry)																									
Naphthalene	13,000	310	U	270	U	280	U	290	U	280	U	300	U	290	U	320	U	300	U	320	U	290	U	290	U
2-Methylnaphthalene	36400	310	U	270	U	280	U	290	U	67 J	J	300	U	290	U	320	U	300	U	320	U	290	U	290	U
Acenaphthylene	41,000	310	U	270	U	280	U	290	U	180	J	300	U	290	U	320	U	300	U	80	J	97	J	93	J
Acenaphthene	50,000	310	U	270	U	280	U	290	U	150	J	300	U	290	U	320	U	300	U	320	U	290	U	290	U
Fluorene	50,000	310	U	270	U	280	U	290	U	180	J	300	U	290	U	320	U	300	U	320	U	290	U	290	U
Phenanthrene	50,000	310	U	120	J	150	J	150	J	2100		300	U	290	U	320	U	100	J	350		280	J	430	
Anthracene	50,000	310	U	270	U	280	U	290	U	590		300	U	290	U	320	U	300	U	130	J	100	J	140	J
Fluoranthene	50,000	310	U	250	J	290		280	J	3800		220	J	61	J	320	U	170	J	830		570		1000	
Pyrene	50,000	310	U	250	J	280	J	270	J	3500		250	J	290	U	320	U	170	J	780		530		970	
Benz(a)anthracene	224	310	U	170	J	160	J	180	J	2300		150	J	290	U	320	U	79	J	480		330		640	
Chrysene	400	310	U	150	J	160	J	160	J	2000		130	J	290	U	320	U	83	J	510		350		590	
Benzo(b)fluoranthene	1,100	310	U	250	J	230	J	240	J	2400		200	J	290	U	320	U	96	J	870		490		810	
Benzo(k)fluoranthene	1,100	310	U	75	J	60	J	93	J	940		70	J	290	U	320	U	300	U	210		190	J	310	
Benzo(a)pyrene	61	310	U	190	J	160	J	180	J	2000		140	J	290	U	320	U	67	J	460		330		640	
Dibenzo(a,h)anthracene	14	310	U	270	U	280	U	290	U	320		66	J	290	U	320	U	300	U	83	J	290	U	110	J
Indeo(1,2,3-cd)pyrene	3,200	310	U	130	J	110	J	120	J	1400		96	J	290	U	320	U	300	U	420		290	J	490	
Benzo(g,h,i)perylene	50,000	310	U	130	J	110	J	110	J	1200		110	J	290	U	320	U	300	U	400		260	J	420	
Benzo(a)pyrene TEQ	10,000	719		517		492		527		2959		253		673		742		418		727		736		953	
ICP Metals (mg/kg - dry)																									
Arsenic	8.24	2.8	J	3.7	J	7.5		7.7		16		3.2	J	3.9	J	3	J	2.4	J	7.9	U	3	J	9.8	
Barium	300	100		69		95		120		97		84		72		130		110		280		120		86	
Cadmium	2.3	0.77	U	0.22	J	0.2	J	0.23	J	0.17	J	0.21	J	0.71	U	0.19	J	0.19	J	2.6		0.93		0.72	J
Chromium	29	19		18		18		17		19		16		20		19		18		19		20		22	
Copper	29.6	23		29		27		27		27		25		22		21		26		610		200		96	
Lead	400	29		53		70		52		42		53		29		21		39		85		50		39	
Selenium	2	0.77	U	0.70	U	0.28	J	0.72	U			0.77	U	0.71	U	0.4	J	0.75	U	2.6		0.57	J	0.72	U
Silver	0.763	2.1	U	0.62	J	0.72	J	0.64	J	0.97	J	0.51	J	0.35	J	2.2	U	2.1	U	16		3.9		3.6	
Zinc	108.9	74		97		88		110		110		67		79		70		73		430		210		160	
Mercury (mg/kg - dry)																									
Mercury	0.13	0.061	J	0.25		0.14		0.13		0.12		0.14		0.048	J	0.071		0.096		4.4		0.89		1	
Percent Moisture (wt%)																									
Percent Moisture		20.5		12.2		16.3		14.5		10		20.1		13.2		21.4		19.1		22.1		14.9		15.5	

Table A-2
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results - October 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-007-FS1		SEAD5-PX-SS-007-FS2		SEAD5-PX-SS-007-FS3		SEAD5-PX-SS-008-FS1		SEAD5-PX-SS-008-FS2		SEAD5-PX-SS-010-FS1		SEAD5-PX-SS-010-FS2		SEAD5-PX-SS-010-FS3		SEAD5-FX-SS-013-FS1		SEAD5-PX-SS-015-FS1		SEAD5-PX-SS-015-FS2		SEAD5-PX-SS-015-FS3	
Sample Depth		6" -12"		0" - 6"		6" -12"		6" -12"		0" - 6"		6" -12"		0" - 6"		6" -12"		6" -12"		6" -12"		0" - 6"		6" -12"	
Sampling Date		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Polyaromatic Hydrocarbons (ug/kg - dry)																									
Naphthalene	13,000	280	U	300	U	300	U	280	U	290	U	260	U	96	J	99	J	280	U	340	U	350	U	340	U
2-Methylnaphthalene	36400	280	U	300	U	300	U	280	U	290	U	260	U	75	J	99	J	280	U	340	U	350	U	340	U
Acenaphthylene	41,000	79	J	300	U	300	U	79	J	83	J	260	U	740		750		280	U	340	U	350	U	340	U
Acenaphthene	50,000	280	U	300	U	300	U	96	J	290	U	260	U	200	J	120	J	280	U	340	U	350	U	340	U
Fluorene	50,000	280	U	300	U	300	U	140	J	290	U	260	U	300		200	J	280	U	340	U	350	U	340	U
Phenanthrene	50,000	440		300	U	190	J	1500		420		60	J	2300		1600		140	J	230	J	350	U	340	U
Anthracene	50,000	140	J	300	U	300	U	360		130	J	260	U	900		620		280	U	340	U	350	U	340	U
Fluoranthene	50,000	880		160	J	420		2200		790		100	J	3800		3300		270	J	470		350	U	340	U
Pyrene	50,000	800		150	J	380		1900		790		140	J	4000		3500		290		400		350	U	340	U
Benz(a)anthracene	224	440		92	J	220	J	1000		430		77	J	2100		2100		180	J	250	J	350	U	340	U
Chrysene	400	430		100	J	250	J	960		420		78	J	2100		2000		180	J	210	J	350	U	340	U
Benzo(b)fluoranthene	1,100	640		150	J	310		1300		630		110	J	2900		2900		200	J	260	J	350	U	340	U
Benzo(k)fluoranthene	1,100	180	J	300	U	120	J	330		220	J	260	U	850		1000		80	J	79	J	350	U	340	U
Benzo(a)pyrene	61	410		94	J	220	J	870		410		77	J	2100		2500		150	J	190	J	350	U	340	U
Dibenzo(a,h)anthracene	14	58	J	300	U	300	U	140	J	290	U	260	U	370		500		280	U	340	U	350	U	340	U
Indeo(1,2,3-cd)pyrene	3,200	320		78	J	190	J	640		290		53	J	1600		2100		110	J	130	J	350	U	340	U
Benzo(g,h,i)perylene	50,000	300		78	J	170	J	540		250	J	72	J	1500		1900		98	J	110	J	350	U	340	U
Benzo(a)pyrene TEQ	10,000	614		430		596		1317		841		364		3160		3740		482		597		812		789	
ICP Metals (mg/kg - dry)																									
Arsenic	8.24	4.4	J	5.8	J	11		4.4	J	2.9	J	6.7	U	3.5	J	8.4		4.2	J	9.2		10		9.8	
Barium	300	80		140		130		81		74		94		91		75		76		130		130		130	
Cadmium	2.3	0.28	J	0.37	J	0.28	J	0.3	J	0.22	J	0.75		0.39	J	0.25	J	0.21	J	0.34	J	0.45	J	0.2	J
Chromium	29	19		21		21		19		17		11		20		18		23		16		21		22	
Copper	29.6	40		36		32		45		32		110		33		26		30		25		29		31	
Lead	400	27		27		27		39		30		42		61		50		28		21		60		48	
Selenium	2	0.72	U	0.76	U	0.73	U	0.69	U	0.71	U	0.67	U	0.71	U	0.63	U	0.48	J	0.85	U	0.36	J	0.85	U
Silver	0.763	1.1	J	0.59	J	1.1	J	0.71	J	0.89	J	0.96		0.81	J	0.67	J	1.0	J	2.4	U	2.4	U	0.88	J
Zinc	108.9	87		89		98		92		81		90		130		110		81		75		100		110	
Mercury (mg/kg - dry)																									
Mercury	0.13	0.44		0.12		0.18		0.24		0.081		0.66		0.14		0.45		0.17		0.1		0.15		0.12	
Percent Moisture (wt%)																									
Percent Moisture		14.1		18.4		18.3		13.3		16.2		7.4		12.1		6.8		9.6		26.8		27.9		28.4	

Table A-2
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results - October 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-017-FS1		SEAD5-PX-SS-017-DP1		SEAD5-PX-SS-020-FS1		SEAD5-PX-SS-020-FS2		SEAD5-PX-SS-021-FS1		SEAD5-PX-SS-021-FS2		SEAD5-PX-SS-022-FS1		SEAD5-PX-SS-022-DP1		SEAD5-PX-SS-022-FS2		SEAD5-PX-SS-023-FS1		SEAD5-PX-SS-023-FS2		SEAD5-PX-SS-023-FS3	
Sample Depth		6" -12"		6" -12"		6" -12"		0" - 6"		6" -12"		0" - 6"		6" -12"		6" -12"		0" - 6"		6" -12"		0" - 6"		6" -12"	
Sampling Date		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Polyaromatic Hydrocarbons (ug/kg - dry)																									
Naphthalene	13,000	310	U	320	U	320	U	320	U	320	U	340	U	310	U	320	U	300	U	67	J	310	U	300	U
2-Methylnaphthalene	36400	310	U	320	U	320	U	320	U	320	U	340	U	310	U	320	U	300	U	300	U	310	U	300	U
Acenaphthylene	41,000	310	U	320	U	320	U	320	U	320	U	150	J	310	U	320	U	90	J	820		84	J	300	U
Acenaphthene	50,000	310	U	320	U	320	U	320	U	320	U	340	U	310	U	320	U	300	U	70	J	88	J	300	U
Fluorene	50,000	310	U	320	U	320	U	320	U	320	U	340	U	310	U	320	U	62	J	140	J	130	J	300	U
Phenanthrene	50,000	140	J	140	J	90	J	110	J	320	U	810		240	J	120	J	730		550		1100		300	U
Anthracene	50,000	310	U	320	U	320	U	320	U	320	U	170	J	89	J	320	U	200	J	600		310	J	300	U
Fluoranthene	50,000	260	J	260	J	200	J	250	J	110	J	2000		580		530		1500		900		1700		140	J
Pyrene	50,000	250	J	240	J	210	J	250	J	110	J	1800		500		550		1400		2300		1300		130	J
Benz(a)anthracene	224	140	J	150	J	120	J	140	J	85	J	1000		330		390		800		670		710		90	J
Chrysene	400	110	J	150	J	120	J	140	J	67	J	1000		310		340		700		1200		700		89	J
Benzo(b)fluoranthene	1,100	200	J	190	J	130	J	170	J	91	J	1300		370		470		930		5200		770		120	J
Benzo(k)fluoranthene	1,100	310	U	320	U	320	U	63	J	320	U	530		140	J	180	J	260	J	1300		330		300	U
Benzo(a)pyrene	61	110	J	130	J	130	J	130	J	76	J	980		290	J	350		700		6200		590		92	J
Dibenzo(a,h)anthracene	14	310	U	320	U	320	U	320	U	320	U	150	J	310	U	320	U	100	J	1100		96	J	300	U
Indeo(1,2,3-cd)pyrene	3,200	88	J	75	J	77	J	81	J	320	U	650		220	J	240	J	450		4900		410		79	J
Benzo(g,h,i)perylene	50,000	64	J	66	J	65	J	86	J	320	U	590		190	J	210	J	400		3700		320		74	J
Benzo(a)pyrene TEQ	10,000	467		496		487		491		449		1440		697		785		1028		8402		885		425	
ICP Metals (mg/kg - dry)																									
Arsenic	8.24	8.8		8.9		8.5		8.3		8.1		9.2		10		9.9		9		8.8		11		9.7	
Barium	300	63		67		110		100		90		93		100		110		96		84		110		87	
Cadmium	2.3	0.26	J	0.24	J	0.48	J	0.32	J	0.25	J	0.32	J	0.44	J	0.57	J	0.3	J	0.36	J	0.4	J	0.7	U
Chromium	29	17		17		16		18		16		19		16		16		16		16		15		13	
Copper	29.6	23		26		40		21		24		27		51		68		33		29		35		20	
Lead	400	27		29		34		37		21		40		28		34		37		34		26		15	
Selenium	2	0.76	U	0.79	U	0.79	U	0.76	U	0.79	U	0.79	U	0.77	U	0.42	J	0.74	U	0.75	U	0.77	U	0.70	U
Silver	0.763	0.54	J	0.77	J	1.2	J	2.1	U	2.2	U	0.52	J	2.1	U	2.1	U	2.1	U	2.1	U	0.49		1.5	J
Zinc	108.9	68		75		90		88		72		80		99		100		85		77		78		67	
Mercury (mg/kg - dry)																									
Mercury	0.13	0.11		0.17		0.31		0.068		0.12		0.078		0.13		0.27		0.065		0.079		0.27		0.068	
Percent Moisture (wt%)																									
Percent Moisture		19.6		21.2		21.6		21.6		22.1		25.4		20.5		21.5		15.6		17.5		19.5		16.8	

Table A-2
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results - October 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-025-FS1		SEAD5-FX-SS-028-FS1		SEAD5-FX-SS-028-DP1		SEAD5-FX-SS-029-FS1		SEAD5-PX-SS-030-FS1		SEAD5-PX-SS-030-FS2		SEAD5-PX-SS-030-FS3		SEAD5-PX-SS-031-FS1		SEAD5-PX-SS-031-FS2		SEAD5-PX-SS-031-FS3		SEAD5-PX-SS-033-FS1		SEAD5-PX-SS-033-FS2	
Sample Depth		6" -12"		6" -12"		6" -12"		6" -12"		6" -12"		0" - 6"		6" -12"		6" -12"		0" - 6"		6" -12"		6" -12"		0" - 6"	
Sampling Date		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003		10/2/2003	
Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Polyaromatic Hydrocarbons (ug/kg - dry)																									
Naphthalene	13,000	320	U	84	J	270	U	270	U	290	U	290	U	270	U	280	U	290	U	280	U	290	U	76	J
2-Methylnaphthalene	36400	320	U	91	J	270	U	270	U	290	U	290	U	270	U	280	U	290	U	280	U	290	U	190	J
Acenaphthylene	41,000	320	U	240	J	180	J	270	U	94	J	160	J	69	J	280	U	290	U	280	U	65	J	310	U
Acenaphthene	50,000	320	U	320		290		270	U	68	J	120	J	270	U	91	J	290	U	280	U	290	U	310	U
Fluorene	50,000	320	U	690		430		270	U	120	J	180	J	270	U	84	J	290	U	280	U	86	J	310	U
Phenanthrene	50,000	92	J	5900		4400		270	U	1300		2500		550		590		260	J	120	J	560		140	J
Anthracene	50,000	320	U	1500		1500		270	U	320		590		140	J	170	J	70	J	280	U	180	J	310	U
Fluoranthene	50,000	210	J	6400		7600		130	J	2100		4000		1400		690		430		230	J	780		200	J
Pyrene	50,000	160	J	5600		6400		110	J	1700		3100		1200		580		380		220	J	650		180	J
Benz(a)anthracene	224	110	J	2900		3900		76	J	950		1600		660		360		220	J	140	J	390		110	J
Chrysene	400	110	J	2300		3400		75	J	960		1600		680		340		230	J	160	J	340		110	J
Benzo(b)fluoranthene	1,100	130	J	2800		4000		92	J	1100		1900		820		370		290		200	J	470		200	J
Benzo(k)fluoranthene	1,100	320	U	970		1300		270	U	400		620		340		130	J	110	J	83	J	130	J	74	J
Benzo(a)pyrene	61	98	J	2300		3300		67	J	880		1400		590		280		210	J	140	J	300		120	J
Dibenzo(a,h)anthracene	14	320	U	360		600		270	U	160	J	250	J	110	J	280	U	290	U	280	U	290	U	310	U
Indeo(1,2,3-cd)pyrene	3,200	75	J	1400		2400		58	J	690		1000		470		210	J	190	J	160	J	210	J	110	J
Benzo(g,h,i)perylene	50,000	64	J	1200		2000		270	U	560		820		400		170	J	170	J	130	J	200	J	120	J
Benzo(a)pyrene TEQ	10,000	454		3403		4977		363		1328		2122		905		659		573		472		702		474	
ICP Metals (mg/kg - dry)																									
Arsenic	8.24	7.8	J	2.7	J	3.1	J	6.5	J	8.8		9.5		8.7		9.2		8.7		7.3		9.3		10	
Barium	300	110		81		100		81		82		98		52		94		98		95		120		180	
Cadmium	2.3	0.33	J	0.68	U	0.18	J	0.55	J	1.3		1.4		0.32	J	1.1		1.4		0.85		1.2		2.1	
Chromium	29	17		22		20		12		19		20		19		18		15		19		16		17	
Copper	29.6	23		38		43		70		82		120		59		130		180		120		210		460	
Lead	400	24		29		28		27		46		52		40		49		45		54		48		98	
Selenium	2	0.78	U	0.68	U	0.64	U	0.32	J	0.39	J	0.52	J	0.64	U	0.56	J	0.46 J		0.68	U	0.52	J	1.1	
Silver	0.763	2.2	U	0.46	J	0.64	J	3		6.5		16		3.6		2.2		1.9	J	1.8	J	2.6		8.3	
Zinc	108.9	77		60		73		88		170		200		120		200		250		200		190		390	
Mercury (mg/kg - dry)																									
Mercury	0.13	0.076		0.15		0.22		0.68		2.3		1.4		0.35		0.8		1.5		1.2		0.63		2.2	
Percent Moisture (wt%)																									
Percent Moisture		22.1		7.9		8.9		8.0		15.2		15.9		8.5		13.2		13.8		11.4		12.8		19.5	

Table A-2
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results - October 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-033-FS3	SEAD5-FX-SS-036-FS1	SEAD5-FX-SS-036-DP1	SEAD5-FX-SS-037-FS1	SEAD5-PX-SS-038-FS1	SEAD5-PX-SS-038-FS2	SEAD5-PX-SS-039-FS1	SEAD5-PX-SS-039-FS2	SEAD5-PX-SS-040-FS1	SEAD5-PX-SS-041-FS1	SEAD5-PX-SS-041-FS2
Sample Depth		6" -12"	6" -12"	6" -12"	6" -12"	6" -12"	0" - 6"	6" -12"	0" - 6"	6" -12"	6" -12"	0" - 6"
Sampling Date		10/2/2003	10/3/2003	10/3/2003	10/3/2003	10/3/2003	10/3/2003	10/3/2003	10/3/2003	10/3/2003	10/3/2003	10/3/2003
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/kg - dry)												
Naphthalene	13,000	88	J	300	U	300	U	300	U	300	U	960
2-Methylnaphthalene	36400	100	J	300	U	300	U	300	U	300	U	420
Acenaphthylene	41,000	730		300	U	300	U	300	U	300	U	110
Acenaphthene	50,000	160	J	300	U	300	U	300	U	300	U	3900
Fluorene	50,000	240	J	300	U	300	U	300	U	300	U	3400
Phenanthrene	50,000	2700		300	U	300	U	300	U	130	J	24000
Anthracene	50,000	1100		300	U	300	U	300	U	110	J	7600
Fluoranthene	50,000	5800		300	U	63	J	74	J	310		35000
Pyrene	50,000	5100		300	U	300	U	65	J	310		27000
Benz(a)anthracene	224	3300		300	U	300	U	300	U	160	J	17000
Chrysene	400	3100		300	U	300	U	300	U	170	J	15000
Benzo(b)fluoranthene	1,100	5100		300	U	300	U	60	J	240	J	18000
Benzo(k)fluoranthene	1,100	1600		300	U	300	U	79	J	200	J	7100
Benzo(a)pyrene	61	4000		300	U	300	U	300	U	150	J	15000
Dibenzo(a,h)anthracene	14	680		300	U	300	U	300	U	60	J	2500
Indeo(1,2,3-cd)pyrene	3,200	2600		300	U	300	U	300	U	110	J	9400
Benzo(g,h,i)perylene	50,000	1900		300	U	300	U	300	U	110	J	7600
Benzo(a)pyrene TEQ	10,000	5827		696		696		672		503		22161
ICP Metals (mg/kg - dry)												
Arsenic	8.24	7.1		8.5		8.4		8.3		9.9		9.3
Barium	300	97		96		95		94		87		88
Cadmium	2.3	0.73		0.29	J	0.29	J	0.33	J	0.75		0.7
Chromium	29	13		16		14		18		16		16
Copper	29.6	140		21		20		20		96		97
Lead	400	53		20		20		25		47		47
Selenium	2	0.68	U	0.73	U	0.76	U	0.72	U	0.44	J	0.7
Silver	0.763	3.8		2.9	U	2.1	U	2	U	1.6	J	0.77
Zinc	108.9	150		78		70		100		130		130
Mercury (mg/kg - dry)												
Mercury	0.13	0.44		0.069		0.065		0.086		0.63		0.35
Percent Moisture (wt%)												
Percent Moisture		9.8		19.0		18.6		17.6		15.8		15.9

Table A-2
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results - October 2003

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-041-FS3		SEAD5-PX-SS-042-FS1		SEAD5-PX-SS-042-FS2		SEAD5-PX-SS-042-FS3		SEAD5-PX-SS-043-FS1		SEAD5-PX-SS-043-FS2		SEAD5-PX-SS-043-DP2		SEAD5-PX-SS-043-FS3		Avg Result	Max Result	No. Exceedan ces
		6" -12"		6" -12"		0" - 6"		6" -12"		6" -12"		0" - 6"		0" - 6"		6" -12"				
		10/3/2003		10/3/2003		10/3/2003		10/3/2003		10/3/2003		10/3/2003		10/3/2003		10/3/2003				
		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil				
Polyaromatic Hydrocarbons (ug/kg - dry)																				
Naphthalene	13,000	280	U	280	U	280	U	250	U	300	U	310	U	110	J	270	U	286	960	0
2-Methylnaphthalene	36400	280	U	280	U	280	U	250	U	300	U	310	U	70	J	270	U	282	420	0
Acenaphthylene	41,000	280	U	280	U	280	U	250	U	140	J	110	J	140	J	270	U	272	820	0
Acenaphthene	50,000	280	U	280	U	280	U	250	U	130	J	68	J	170	J	270	U	318	3900	0
Fluorene	50,000	280	U	280	U	280	U	250	U	140	J	310	U	150	J	270	U	323	3400	0
Phenanthrene	50,000	300		140	J	300		300		2200		770		1900		230	J	1032	24000	0
Anthracene	50,000	94	J	280	U	65	J	72	J	340		260	J	450		97	J	438	7600	0
Fluoranthene	50,000	540		330		750		590		4300		2000		3300		600		1641	35000	0
Pyrene	50,000	460		270	J	710		480		3200		1600		2600		480		1420	27000	0
Benz(a)anthracene	224	240	J	100	J	300		250	J	870		790		1200		200	J	828	17000	41
Chrysene	400	280	J	150	J	440		290		1500		1100		1500		350		802	15000	24
Benzo(b)fluoranthene	1,100	320		190	J	500		340		1400		1300		1600		440		1054	18000	14
Benzo(k)fluoranthene	1,100	98	J	58	J	200	J	120	J	490		430		560		120	J	436	7100	4
Benzo(a)pyrene	61	220	J	95	J	360		220	J	680		690		980		190	J	847	15000	67
Dibenzo(a,h)anthracene	14	280	U	280	U	280	U	250	U	120	J	150	J	190	J	270	U	320	2500	67
Indeo(1,2,3-cd)pyrene	3,200	180	J	67	J	260	J	190	J	580		670		850		210	J	624	9400	2
Benzo(g,h,i)perylene	50,000	150	J	68	J	220	J	170	J	500		590		730		180	J	536	7600	0
Benzo(a)pyrene TEQ	10,000	578		413		752		552		1105		1131		1556		550		1430	22161	1
ICP Metals (mg/kg - dry)																				
Arsenic	8.24	11		7.2		9.7		9.4		9		11		9.3		10		7.8	16	41
Barium	300	74		75		83		79		68		96		78		82		96.7	280	0
Cadmium	2.3	0.32	J	0.37	J	0.43	J	0.29	J	0.78		1.1		0.66	J	0.28	J	0.5	2.6	1
Chromium	29	20		10		14		18		37		28		21		22		18.1	37	1
Copper	29.6	52		72		57		50		78		120		68		61		70.0	610	42
Lead	400	36		21		30		36		120		77		50		32		41.2	120	0
Selenium	2	0.72	U	0.68	U	0.7	U	0.65	U	0.71	U	0.78	U	0.72	U	0.70	U	0.7	2.6	1
Silver	0.763	1.1 J		1.6	J	3.5		2.2		1.9	J	3.4		1.5	J	1.3	J	2.3	16	49
Zinc	108.9	120		80		94		100		110		150		110		120		114.1	430	25
Mercury (mg/kg - dry)																				
Mercury	0.13	0.18		0.33		0.27		0.17		0.5		1.1		0.68		0.19		0.44	4.4	41
Percent Moisture (wt%)																				
Percent Moisture		13.7		10.3		12.6		3.9		17.5		22.5		14.6		11.1		16	28	

Table A-3
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Sampling Results - February 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-038-FS	SEAD5-FX-SS-039-FS	SEAD5-FX-SS-040-FS	SEAD5-FX-SS-041-FS	SEAD5-FX-SS-042-FS	SEAD5-FX-SS-043-FS	SEAD5-FX-SS-044-FS	SEAD5-FX-SS-045-FS	SEAD5-FX-SS-046-FS	SEAD5-FX-SS-047-FS	SEAD5-FX-SS-048-FS
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Date		2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)												
Naphthalene	13,000	130 J	97 J	170 J	91 J	66 J	76 J	380	270 U	69 J	70 J	82 J
2-Methylnaphthalene	36,400	450 U	320 U	60 J	280 U	280 U	280 U	110 J	270 U	280 U	270 U	290 U
Acenaphthylene	41,000	450 U	320 U	190 J	110 J	280 U	280 U	110 J	270 U	280 U	270 U	290 U
Acenaphthene	50,000	450 U	320 U	170 J	280 U	66 J	280 U	670	270 U	280 U	270 U	290 U
Fluorene	50,000	450 U	320 U	340	60 J	64 J	280 U	520	270 U	280 U	270 U	290 U
Phenanthrene	50,000	190 J	510	5600	700	500	210 J	4900	270 U	470	270 U	510
Anthracene	50,000	450 U	120 J	1500	220 J	160 J	63 J	1100	270 U	130 J	270 U	170 J
Fluoranthene	50,000	420 J	950	7700	1300	750	400	5800	270 U	560	270 U	1100
Pyrene	50,000	420 J	960	7000	1300	730	380	5600	270 U	460	270 U	1000
Benzo(a)anthracene	224	240 J	550	3700	850	470	230 J	3200	270 U	240 J	270 U	600
Chrysene	400	270 J	510	3000	680	370	230 J	2700	270 U	240 J	270 U	610
Benzo(b)fluoranthene	1,100	290 J	540	3800	810	450	310	3300	270 U	280	270 U	730
Benzo(k)fluoranthene	1,100	130 J	190 J	1000	290	170 J	92 J	1000	270 U	72 J	270 U	220 J
Benzo(a)pyrene	61	210 J	370	2700	610	340	210 J	2500	270 U	190 J	270 U	520
Dibenzo(a,h)anthracene	14	450 U	68 J	440	110 J	60 J	280 U	410	270 U	280 U	270 U	290 U
Indeno(1,2,3-cd)pyrene	3,200	170 J	250 J	2000	470	260 J	170 J	1800	270 U	140 J	270 U	370
Benzo(g,h,i)perylene	50,000	160 J	230 J	1600	420	230 J	150 J	1500	270 U	110 J	270 U	310
² Benzo(a)pyrene TEQ	10,000	734	579	4,130	943	523	564	3,777	626	539	626	988
ICP Metals (mg/Kg - dry)												
Arsenic	8.24	14.2	13.3	7.57	10.8	14.1	10.9	9.32	11.6	6.53 J	6.47 J	4.75 J
Barium	300	115	72.3	35.3	70.5	83.7	65	64.2	77.3	65.5	58.9	36.4
Cadmium	2.3	0.116 J	0.07 J	0.676 U	0.664 U	0.663 U	0.0713 J	0.195 J	0.686 U	0.0656 J	0.0758 J	0.202 J
Chromium	29	27.3	21.9	12.9	19.5	23	10.8	10.7	22.6	23.7	17.5	10.8
Copper	29.6	49.2	28.3	24.7	36.6	24.8	16.8	17.6	32.7	18.1	24	15.1
Lead	400	100	58.3	37.5	52	22.3	15.5	78.4	30.9	23	24.8	17.6
Selenium	2	23 J	17 J	13.4 J	13.8 J	15.9	8.53 J	16.4 U	21.4	22.8	16.7	15.6 J
Silver	0.763	0.483 J	0.237 J	1.89 U	1.86 U	0.248 J	0.257 J	1.91 U	0.275 J	2.05 U	1.91 U	0.232 J
Zinc	108.9	131	66.2	47.8	109	81.1	35.7	42.8	81.5	82.6	50.3	47.4
Mercury (mg/Kg - dry)												
Mercury	0.13	0.206	0.036 J	0.0316 J	0.0409 J	0.058	0.0913	0.0576	0.0307	0.305	0.0783	0.0829

Table A-3
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Sampling Results - February 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-049-FS	SEAD5-FX-SS-050-FS	SEAD5-FX-SS-051-FS	SEAD5-FX-SS-052-FS	SEAD5-FX-SS-053-FS	SEAD5-FX-SS-054-FS	SEAD5-FX-SS-054-DP	SEAD5-FX-SS-055-FS	SEAD5-FX-SS-056-FS	SEAD5-FX-SS-057-FS	SEAD5-FX-SS-058-FS
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Date		2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)												
Naphthalene	13,000	77 J	100 J	78 J	84 J	310 U	89 J	69 J	82 J	310 U	330 U	64 J
2-Methylnaphthalene	36,400	300 U	300 U	320 U	370 U	310 U	330 U	330 U	310 U	310 U	330 U	320 U
Acenaphthylene	41,000	300 U	240 J	320 U	370 U	310 U	330 U	330 U	310 U	310 U	330 U	320 U
Acenaphthene	50,000	300 U	300 U	320 U	370 U	310 U	330 U	330 U	310 U	310 U	330 U	320 U
Fluorene	50,000	300 U	120 J	320 U	370 U	310 U	330 U	330 U	310 U	310 U	330 U	320 U
Phenanthrene	50,000	180 J	2000	180 J	370 U	310 U	330 U	330 U	310 U	310 U	330 U	320 U
Anthracene	50,000	300 U	580	320 U	370 U	310 U	330 U	330 U	310 U	310 U	330 U	320 U
Fluoranthene	50,000	470	4100	290 J	120 J	240 J	330 U	330 U	310 U	310 U	330 U	320 U
Pyrene	50,000	430	4000	250 J	110 J	240 J	330 U	330 U	310 U	310 U	330 U	320 U
Benzo(a)anthracene	224	180 J	2100	160 J	79 J	200 J	330 U	330 U	310 U	310 U	330 U	320 U
Chrysene	400	260 J	2100	110 J	370 U	160 J	330 U	330 U	310 U	310 U	330 U	320 U
Benzo(b)fluoranthene	1,100	310	2400	160 J	89 J	210 J	330 U	330 U	310 U	310 U	330 U	320 U
Benzo(k)fluoranthene	1,100	130 J	820	320 U	370 U	74 J	330 U	330 U	310 U	310 U	330 U	320 U
Benzo(a)pyrene	61	210 J	1800	110 J	370 U	160 J	330 U	330 U	310 U	310 U	330 U	320 U
Dibenzo(a,h)anthracene	14	300 U	89 J	320 U	370 U	310 U	330 U	330 U	310 U	310 U	330 U	320 U
Indeo(1,2,3-cd)pyrene	3,200	190 J	1300	82 J	370 U	130 J	330 U	330 U	310 U	310 U	330 U	320 U
Benzo(g,h,i)perylene	50,000	160 J	1100	74 J	370 U	100 J	330 U	330 U	310 U	310 U	330 U	320 U
² Benzo(a)pyrene TEQ	10,000	582	2,498	475	801	526	766	766	719	719	766	742
ICP Metals (mg/Kg - dry)												
Arsenic	8.24	8.73	10.4	9.35	9.82	9.54	11.6	8.44	11.4	6.93 J	6.95 J	8.75
Barium	300	54.7	49.6	147	155	156	113	124	125	76.7	71.2	126
Cadmium	2.3	0.0747 J	0.139 J	0.229 J	0.302 J	0.224 J	0.131 J	0.849 U	0.167 J	0.726 U	0.036 J	0.81 U
Chromium	29	17.3	19.2	22.9	24.2	18.4	19.5	26.5	24.3	18.7	20.6	23.6
Copper	29.6	16.8	22.9	21.3	23.3	22.2	15.6	12.5	14.4	14.2	24.1	15.2
Lead	400	17.7	949	19.8	22.3	68.9	24.3	15.4	22.4	9.99	19.3	14.8
Selenium	2	18.1 J	20.5	12.8 J	20.9 J	18.6	20.6	17.5 J	11	11.7 J	11.7 J	6.91 J
Silver	0.763	2.12 U	2.17 U	2.09 U	2.46 U	2.15 U	2.31 U	2.38 U	2.21 U	2.03 U	2.21 U	2.27 U
Zinc	108.9	64.5	65.3	104	96	85.6	102	98.3	95.5	91.9	73.5	101
Mercury (mg/Kg - dry)												
Mercury	0.13	0.0875	0.0987	0.069	0.136	0.0485 J	0.0581 J	0.0581 J	0.0581 J	0.026 J	0.0578 J	0.0558 J

Table A-3
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Sampling Results - February 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-059-FS	SEAD5-FX-SS-060-FS	SEAD5-PX-SS-044-FS	SEAD5-PX-SS-045-FS	SEAD5-PX-SS-046-FS	SEAD5-PX-SS-047-FS	SEAD5-PX-SS-048-FS	SEAD5-PX-SS-049-FS	SEAD5-PX-SS-050-FS	SEAD5-PX-SS-051-FS	SEAD5-PX-SS-052-FS
Sample Depth		0" - 6"	0" - 6"	0- 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Date		2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)												
Naphthalene	13,000	170 J	84 J	370 U	180 J	100 J	300 U	110 J	75 J	110 J	81 J	93 J
2-Methylnaphthalene	36,400	490	350 U	370 U	210 J	410 U	300 U	300 U	290 U	130 J	80 J	110 J
Acenaphthylene	41,000	320 U	350 U	370 U	380 U	410 U	300 U	140 J	110 J	280 U	300 U	300 U
Acenaphthene	50,000	320 U	350 U	370 U	1300	130 J	300 U	300 U	290 U	280 U	300 U	300 U
Fluorene	50,000	320 U	350 U	370 U	1900	170 J	300 U	300 U	290 U	280 U	300 U	300 U
Phenanthrene	50,000	200 J	350 U	75 J	27000	1600	580	490	900	130 J	840	160 J
Anthracene	50,000	320 U	350 U	370 U	7800	440	150 J	210 J	230 J	280 U	250 J	100 J
Fluoranthene	50,000	140 J	350 U	180 J	37000	2200	1200	1000	2300	170 J	2700	350
Pyrene	50,000	140 J	350 U	170 J	32000	2100	1100	1100	1900	210 J	2700	340
Benzo(a)anthracene	224	88 J	350 U	120 J	20000	1300	660	710	700	140 J	1600	220 J
Chrysene	400	100 J	350 U	110 J	14000	1100	500	710	880	150 J	1300	220 J
Benzo(b)fluoranthene	1,100	140 J	350 U	130 J	14000	1300	630	970	920	240 J	1600	300 J
Benzo(k)fluoranthene	1,100	320 U	350 U	370 U	3300	420	150 J	340	260 J	280 U	400	120 J
Benzo(a)pyrene	61	71 J	350 U	88 J	8700	950	420	700	540	150 J	1100	220 J
Dibenzo(a,h)anthracene	14	320 U	350 U	370 U	1200	150 J	61 J	120 J	96 J	280 U	150 J	300 U
Indeno(1,2,3-cd)pyrene	3,200	78 J	350 U	370 U	3700	620	260 J	520	410	120 J	660	260 J
Benzo(g,h,i)perylene	50,000	66 J	350 U	370 U	3000	550	230 J	480	380	110 J	580	250 J
² Benzo(a)pyrene TEQ	10,000	426	812	525	13,843	1,437	643	1,051	850	484	1,653	601
ICP Metals (mg/Kg - dry)												
Arsenic	8.24	9.52	10.7	12.1	15.4	17	13.7	11.8	12.2	10.8	14.7	12.8
Barium	300	73.1	241	101	89.5	126	111	95	59.5	24.5 J	129	71.9
Cadmium	2.3	0.761 U	0.0479 J	0.285 J	0.197 J	0.0899 J	0.0495 J	0.275 J	0.495 J	0.161 J	0.774 U	0.742 U
Chromium	29	31.6	44.3	20	24.9	37	23.8	24.7	12.8	6.22	29.5	20.7
Copper	29.6	17.5	25.7	31	25.9	34.1	41.2	66.7	83.4	20.4	31.4	38.4
Lead	400	54.1	34	61.6	76.6	59.5	167	38.2	31.6	14	27.7	61.3
Selenium	2	13.3 J	15.8 J	18.7 J	16.8 J	15.2 J	15 J	11.2 J	10.4 J	16.9 U	17.7 J	12.2 J
Silver	0.763	2.13 U	2.34 U	0.334 J	0.521 J	1.04 J	0.349 J	1.22 J	1.73 J	0.338 J	0.352 J	0.421 J
Zinc	108.9	75.6	118	82.3	91.8	108	87.4	119	110	34.5	101	89.6
Mercury (mg/Kg - dry)												
Mercury	0.13	0.0892	0.117	0.0776	0.0738	0.357	0.149	0.28	0.469	0.0618	0.111	0.243

Table A-3
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Sampling Results - February 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-053-FS	SEAD5-PX-SS-054-FS	SEAD5-PX-SS-055-FS	SEAD5-PX-SS-056-FS	SEAD5-PX-SS-057-FS	SEAD5-PX-SS-058-FS	SEAD5-PX-SS-059-FS	SEAD5-PX-SS-060-FS	SEAD5-PX-SS-061-FS	SEAD5-PX-SS-062-FS	SEAD5-PX-SS-063-FS
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Date		2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)												
Naphthalene	13,000	64 J	130 J	94 J	78 J	81 J	80 J	92 J	82 J	69 J	110 J	81 J
2-Methylnaphthalene	36,400	290 U	270 U	290 U	330 U	300 U	290 U	310 U	340 U	300 U	480 U	360 U
Acenaphthylene	41,000	290 U	200 J	290 J	78 J	300 U	290 U	61 J	340 U	300 U	480 U	120 J
Acenaphthene	50,000	290 U	100 J	57 J	330 U	300 U	290 U	310 U	340 U	300 U	480 U	360 U
Fluorene	50,000	290 U	130 J	290 U	330 U	300 U	290 U	310 U	340 U	300 U	480 U	360 U
Phenanthrene	50,000	260 J	1600	1100	190 J	300 U	88 J	170 J	110 J	570	480 U	380
Anthracene	50,000	81 J	510	340	80 J	300 U	290 U	96 J	340 U	140 J	480 U	150 J
Fluoranthene	50,000	620	2500	3100	380	75 J	190 J	370	230 J	1200	480 U	1000
Pyrene	50,000	580	2600	3100	380	83 J	200 J	390	230 J	1100	480 U	1000
Benzo(a)anthracene	224	330	1500	1700	230 J	300 U	110 J	250 J	140 J	580	480 U	620
Chrysene	400	320	1400	1700	210 J	300 U	130 J	280 J	150 J	600	480 U	560
Benzo(b)fluoranthene	1,100	400	1900	2300	290 J	70 J	150 J	380	180 J	620	480 U	740
Benzo(k)fluoranthene	1,100	160 J	450	630	98 J	300 U	290 U	130 J	70 J	230 J	480 U	240 J
Benzo(a)pyrene	61	290	1400	1600	190 J	300 U	90 J	230 J	110 J	440	480 U	540
Dibenzo(a,h)anthracene	14	290 U	250 J	270 J	330 U	300 U	290 U	310 U	340 U	79 J	480 U	89 J
Indeno(1,2,3-cd)pyrene	3,200	230 J	1100	1300	170 J	300 U	81 J	230 J	100 J	310	480 U	420
Benzo(g,h,i)perylene	50,000	210 J	940	1100	150 J	300 U	69 J	210 J	95 J	280 J	480 U	370
² Benzo(a)pyrene TEQ	10,000	681	2,119	2,423	592	673	418	630	494	678	1,114	815
ICP Metals (mg/Kg - dry)												
Arsenic	8.24	12.7	11.4	12.2	13.5	15.3	12.1	10.5	10.2	10.9	11.8	10.9
Barium	300	91	75.5	81.2	70.2	105	38.1	50.6	48.9	80.1	79.1	115
Cadmium	2.3	0.0679 J	0.161 J	0.321 J	0.241 J	0.0605 J	0.121 J	0.132 J	0.1 J	0.0784 J	1.14 U	0.2 J
Chromium	29	26.1	20	17.3	22.3	20.3	14.5	17	17.7	16.8	22.1	19
Copper	29.6	25.1	23.3	29.4	61.7	27.5	23	27.9	23.9	31.9	16.8	24.4
Lead	400	32.4	102	58.7	40.7	17.7	41.2	48.6	31.1	48.7	20.1	42.5
Selenium	2	7.74 J	11.1 J	15.2 J	18.3 J	14.9 J	12.4 J	16.3 J	18.5 J	11.9 J	27.3 U	7.62 J
Silver	0.763	0.758 J	0.188 J	0.315 J	1.42 J	0.228 J	0.278 J	0.316 J	2.35 U	2.16 U	0.455 J	0.295 J
Zinc	108.9	97.4	76.5	88.5	103	85.6	56.7	62.8	74.7	62.5	72.9	83.7
Mercury (mg/Kg - dry)												
Mercury	0.13	0.0683	0.031	0.0648	0.769	0.0389 J	0.0226 J	0.0716	0.0344 J	0.0407 J	0.053 J	0.0985

Table A-3
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Sampling Results - February 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-064-FS	SEAD5-PX-SS-065-FS	SEAD5-PX-SS-066-FS	SEAD5-PX-SS-067-FS	SEAD5-PX-SS-068-FS	SEAD5-PX-SS-069-FS			
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"			
Sampling Date		2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	Avg Result	Max Result	No. Exceedances
Matrix		Soil	Soil	Soil	Soil	Soil	Soil			
Polyaromatic Hydrocarbons (ug/Kg - dry)										
Naphthalene	13,000	80 J	77 J	91 J	130 J	210 J	130 J	131	380	0
2-Methylnaphthalene	36,400	320 U	320 U	320 U	350 U	200 J	290 U	300	490	0
Acenaphthylene	41,000	140 J	130 J	320 U	540	1200	260 J	298	1,200	0
Acenaphthene	50,000	320 U	320 U	75 J	350 U	250 J	96 J	314	1,300	0
Fluorene	50,000	320 U	320 U	84 J	110 J	550	110 J	326	1,900	0
Phenanthrene	50,000	340	330	640	1100	5900	1100	1,322	27,000	0
Anthracene	50,000	160 J	140 J	200 J	470	2000	500	501	7,800	0
Fluoranthene	50,000	870	740	800	2000	7400	1900	1,962	37,000	0
Pyrene	50,000	850	760	760	2800	9400	2000	1,883	32,000	0
Benzo(a)anthracene	224	570	480	430	1500	4600	1000	1,120	20,000	40
Chrysene	400	490	550	380	1300	3800	930	942	14,000	22
Benzo(b)fluoranthene	1,100	680	720	460	1800	4200	1200	1,066	14,000	11
Benzo(k)fluoranthene	1,100	220 J	200 J	170 J	420	1500	360	392	3,300	2
Benzo(a)pyrene	61	520	500	330	1500	3700	930	784	8,700	50
Dibenzo(a,h)anthracene	14	87 J	92 J	320 U	190 J	560	140 J	281	1,200	50
Indeo(1,2,3-cd)pyrene	3,200	420	390	260 J	1000	2600	740	553	3,700	1
Benzo(g,h,i)perylene	50,000	400	350	240 J	1000	2400	640	492	3,000	0
² Benzo(a)pyrene TEQ	10,000	781	759	771	2,137	5,453	1,377	1,353	13,843	1
ICP Metals (mg/Kg - dry)										
Arsenic	8.24	15.2	15.3	19.5	13.5	15.2	14.9	11.5	19.5	44
Barium	300	116	119	161	103	81.6	105	92	241	0
Cadmium	2.3	0.826 U	0.801 U	0.112 J	1.16	0.297 J	0.081 J	0.3	1.2	0
Chromium	29	31.2	30	123	13.5	24.1	27.6	23	123	7
Copper	29.6	22.3	19.3	71.3	169	33.2	32.1	31.4	169.0	16
Lead	400	35.9	64.2	1470	59.6	61.8	52.7	90	1,470	2
Selenium	2	11.8 J	6.41 J	15.7 J	16.6 J	14.8 J	13.2 J	15	27	50
Silver	0.763	0.436 J	0.335 J	1.24 J	13.4	1.23 J	0.491 J	1.448	13.400	27
Zinc	108.9	100	93.7	158	189	98.9	123	87.9	189.0	8
Mercury (mg/Kg - dry)										
Mercury	0.13	0.0843	0.0747	0.0933	2.59	0.192	0.489	0.172	2.6	12

Table A-4
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Soil Sampling Results - May 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-61-FS	SEAD5-FX-SS-62-FS	SEAD5-FX-SS-62-DUP	SEAD5-FX-SS-63-FS	SEAD5-FX-SS-64-FS	SEAD5-FX-SS-65-FS	SEAD5-FX-SS-66-FS	SEAD5-FX-SS-67-FS	SEAD5-FX-SS-68-FS	SEAD5-FX-SS-69-FS
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Date		5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)											
Naphthalene	13,000	280 U	330 U	290 U	360 U	280 U	7000	310 U	270 U	290 U	310 U
2-Methylnaphthalene	36,400	280 U	330 U	290 U	360 U	280 U	5300	310 U	270 U	290 U	310 U
Acenaphthylene	41,000	280 U	220 J	94 J	360 U	280 U	960	310 U	100 J	75 J	310 U
Acenaphthene	50,000	280 U	330 U	290 U	360 U	280 U	30000	76 J	270 U	290 U	310 U
Fluorene	50,000	280 U	330 U	290 U	360 U	280 U	37000	100 J	270 U	290 U	310 U
Phenanthrene	50,000	280 U	330 U	290 U	480	280 U	250000	140 J	190 J	380	310 U
Anthracene	50,000	280 U	330 U	290 U	110 J	280 U	82000	310 U	64 J	99 J	310 U
Fluoranthene	50,000	280 U	330 U	290 U	690	280 U	300000	310 U	390	790	92 J
Pyrene	50,000	280 U	330 U	290 U	570	280 U	220000	310 U	340	640	72 J
Benzo(a)anthracene	224	280 U	330 U	290 U	360	280 U	140000	310 U	220 J	390	310 U
Chrysene	400	280 U	330 U	290 U	350 J	280 U	110000	310 U	220 J	390	310 U
Benzo(b)fluoranthene	1,100	280 U	330 U	290 U	250 J	280 U	140000	310 U	91 J	350	310 U
Benzo(k)fluoranthene	1,100	280 U	330 U	290 U	360 U	280 U	17000	310 U	270 U	290 U	310 U
Benzo(a)pyrene	61	280 U	330 U	290 U	360 U	280 U	110000	310 U	270 U	150 J	310 U
Dibenzo(a,h)anthracene	14	280 U	330 U	290 U	360 U	280 U	9900	310 U	270 U	82 J	310 U
Indeo(1,2,3-cd)pyrene	3,200	280 U	330 U	290 U	250 J	280 U	55000	310 U	150 J	280 J	310 U
Benzo(g,h,i)perylene	50,000	280 U	69 J	290 U	290 J	280 U	53000	310 U	180 J	290	310 U
² Benzo(a)pyrene TEQ	10,000	650	766	673	813	650	154,670	719	591	341	719
ICP Metals (mg/Kg - dry)											
Arsenic	8.24	5.8 J	7.37 J	7.52	9.77	8.33	7.49	8.23	6.63	7.94	7.99
Barium	300	37.6	73.8	72.5	86.5	71.2	226	162	51	69.2	119
Cadmium	2.3	0.655 U	0.785 U	0.731 U	0.999	0.718 U	0.631 U	0.791 U	0.622 U	0.179 J	0.0273 J
Chromium	29	8.95	18.1	18.9	24.9	20.6	58.9	24.5	19	18.1	20.7
Copper	29.6	17.4	16.5	17.5	117	27.3	32.3	18.9	25.8	26.3	22.7
Lead	400	6.43	13.4	10.4	66.1	14.4	29.8	13.8	25.4	31.9	20.8
Selenium	2	5.6 J	3.93 J	5.22 J	11.9 J	5.79 J	3.44 J	5.36 J	3.13	7.33 J	6.01 J
Silver	0.763	1.84 U	2.2 U	2.05	8.12	2.01 U	1.77 U	2.22 U	1.74 U	1.97	2.07 U
Zinc	108.9	54.9	62	77.4	241	72.2	84.7	94.4	64.2	95.8	76.6
Mercury (mg/Kg - dry)											
Mercury	0.1	0.0134 J	0.0306 J	0.0322 J	3.14 J	0.0385	0.146	0.0686	0.0368	0.12	0.111

Table A-4
Seneca Army Depot Activity
Summary of SEAD 5 Post-Excavation Soil Sampling Results - May 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-70-FS	SEAD5-PX-SS-71-FS	SEAD5-PX-SS-72-FS	SEAD5-PX-SS-73-FS	SEAD5-PX-SS-74-FS	SEAD5-PX-SS-75-FS	SEAD5-PX-SS-76-FS			
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"			
Sampling Date		5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005			
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Avg Result	Max Result	No. Exceedances
Polyaromatic Hydrocarbons (ug/Kg - dry)											
Naphthalene	13,000	270 J	76 J	1700	300 U	290 U	74 J	450	758	7,000	0
2-Methylnaphthalene	36,400	640	59 J	1100	300 U	290 U	320 U	440	657	5,300	0
Acenaphthylene	41,000	840	400	1400	300 U	290 U	280 J	1900	494	1,900	0
Acenaphthene	50,000	280 J	190 J	3300	300 U	290 U	170 J	2700	2,336	30,000	0
Fluorene	50,000	380	240 J	6000	300 U	290 U	220 J	7000	3,173	37,000	0
Phenanthrene	50,000	2500	2100	54000	90 J	81 J	1900	74000	22,785	250,000	3
Anthracene	50,000	1000	660	14000	300 U	290 U	570	19000	7,053	82,000	1
Fluoranthene	50,000	3700	3500	70000	230 J	190 J	3200	92000	28,016	300,000	3
Pyrene	50,000	3600	2900	51000	200 J	160 J	2500	68000	20,675	220,000	3
Benzo(a)anthracene	224	2000	1700	31000	130 J	110 J	1600	40000	12,901	140,000	14
Chrysene	400	1900	1600	25000	130 J	120 J	1400	32000	10,289	110,000	6
Benzo(b)fluoranthene	1,100	2900	2100	33000	300 U	290 U	2000	42000	13,240	140,000	6
Benzo(k)fluoranthene	1,100	700	440	7400	300 U	290 U	460	14000	2,548	17,000	3
Benzo(a)pyrene	61	2300	1500	25000	300 U	290 U	1300	32000	10,310	110,000	17
Dibenzo(a,h)anthracene	14	470	340	4800	300 U	290 U	290	5600	1,441	9,900	17
Indeo(1,2,3-cd)pyrene	3,200	1600	1100	15000	98 J	94 J	990	19000	5,610	55,000	3
Benzo(g,h,i)perylene	50,000	1900	1200	15000	110 J	92 J	1000	19000	5,506	53,000	1
² Benzo(a)pyrene TEQ	10,000	3,446	2,350	38,024	657	634	2,068	48,160	15,055	154,670	3
ICP Metals (mg/Kg - dry)											
Arsenic	8.24	7.2	8.01	6.1 J	6.94 J	8.16	9.5	5.81 J	7.6	9.8	3
Barium	300	97.4	86.6	57.5	36.1	189	119	61.1	95	226	0
Cadmium	2.3	0.679 U	0.0873 J	0.625	0.722 U	0.72 U	0.825 U	0.0337 J	0.6	1.0	0
Chromium	29	21.8	21.9	16.7	10.6	58.8	19.9	11.4	23	59	2
Copper	29.6	26.8	45.9	18.1	19.2	40.2	30.9	17.9	30.6	117.0	5
Lead	400	43.1	30.5	469	17.2	25.9	70.4	37.8	54	469	1
Selenium	2	6.47 J	8.97 J	15 U	9.47 J	5.39 J	7.83 J	5.41 J	7	15	17
Silver	0.763	1.9 U	1.99	1.75 U	2.02 U	2.02 U	2.31 U	0.211 J	2.247	8.120	16
Zinc	108.9	93.9	110	61.9	57.3	122	88.5	57.3	89.1	241.0	3
Mercury (mg/Kg - dry)											
Mercury	0.1	0.203	0.471	0.0696	0.0512	0.0731	0.172	0.0829	0.3	3.1	7

Table A-5
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Post-Excavation Soil Samples Remaining On Site After All Phases of Excavation

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹ (mg/kg)	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil)	SEAD5-PX-SS-003-FS2	SEAD5-PX-SS-004FS	SEAD5-PX-SS-005FS	SEAD5-PX-SS-005-FS1	SEAD5-PX-SS-005-FS2	SEAD5-PX-SS-008-FS2	SEAD5-PX-SS-009FS	SEAD5-FX-SS-011FS	SEAD5-FX-SS-012FS	SEAD5-PX-SS-016FS	SEAD5-PX-SS-019FS	SEAD5-PX-SS-020-FS2	SEAD5-PX-SS-021-FS2	SEAD5-PX-SS-024FS													
Sampling Depth			0" - 6"	0- 6"	0- 6"	6" -12"	0" - 6"	0" - 6"	0- 6"	0- 6"	0- 6"	0- 6"	0- 6"	0" - 6"	0" - 6"	0- 6"													
Sampling Date			10/2/2003	8/14/2003	8/14/2003	10/2/2003	10/2/2003	10/2/2003	8/14/2003	8/14/2003	8/14/2003	8/15/2003	8/15/2003	10/2/2003	10/2/2003	8/15/2003													
Matrix			Soil	Solid	Solid	Soil	Soil	Soil	Solid	Solid	Solid	Solid	Solid	Soil	Soil	Solid													
Polyaromatic Hydrocarbons (ug/Kg - dry)																													
Naphthalene	13,000	190,000	290	U	320	U	290	U	320	U	300	U	290	U	320	U	280												
2-Methylnaphthalene	36400	NA	290	U	320	U	290	U	320	U	300	U	290	U	320	U	280												
Acenaphthylene	41,000	NA	290	U	320	U	290	U	320	U	300	U	83	J	270	U	130	J	110	J	300	U	290	U	320	U	150	J	280
Acenaphthene	50,000	29,000,000	290	U	320	U	290	U	320	U	300	U	290	U	270	U	110	J	81	J	300	U	290	U	320	U	340	U	280
Fluorene	50,000	26,000,000	290	U	320	U	290	U	320	U	300	U	290	U	270	U	130	J	180	J	300	U	290	U	320	U	340	U	280
Phenanthrene	50,000	NA	290	U	320	U	290	U	320	U	100	J	420		340		1800		2500		69	J	290	U	110	J	810		280
Anthracene	50,000	100,000,000	290	U	320	U	290	U	320	U	300	U	130	J	98	J	440		650		300	U	290	U	320	U	170	J	280
Fluoranthene	50,000	22,000,000	61	J	150	J	290	U	320	U	170	J	790		610		2700		2800		140	J	290	U	250	J	2000		280
Pyrene	50,000	29,000,000	290	U	140	J	290	U	320	U	170	J	790		520		2300		2400		140	J	290	U	250	J	1800		280
Benz(a)anthracene	224	2,100	290	U	100	J	290	U	320	U	79	J	430		310		1200		1200		89	J	290	U	140	J	1000		280
Chrysene	400	210,000	290	U	110	J	290	U	320	U	83	J	420		300		1200		1100		84	J	290	U	140	J	1000		280
Benzo(b)fluoranthene	1,100	2,100	290	U	120	J	290	U	320	U	96	J	630		380		1400		1300		86	J	290	U	170	J	1300		280
Benzo(k)fluoranthene	1,100	21,000	290	U	320	U	290	U	320	U	300	U	220	J	140	J	510		420		300	U	290	U	63	J	530		280
Benzo(a)pyrene	61	210	290	U	94	J	290	U	320	U	67	J	410		300		1100		1000		86	J	290	U	130	J	980		280
Dibenzo(a,h)anthracene	14	210	290	U	320	U	290	U	320	U	300	U	290	U	270	U	170	J	180	J	300	U	290	U	320	U	150	J	280
Indeo(1,2,3-cd)pyrene	3,200	2,100	290	U	320	U	290	U	320	U	300	U	290		230	J	760		730		300	U	290	U	81	J	650		280
Benzo(g,h,i)perylene	50,000	NA	290	U	72	J	290	U	320	U	300	U	250	J	180	J	680		580		300	U	290	U	86	J	590		280
² Benzo(a)pyrene TEQ	10,000	NA	672.8		472.3		672.8		742.4		418.33		841.4		666.4		1623.1		1518.2		437.34		672.8		491.13		1440.3		649.6
ICP Metals (mg/Kg - dry)																													
Arsenic	8.24	1.6	3.9	J	4.6	J	5	J	3	J	2.4	J	2.9	J	4.7	J	4.4	J	3.7	J	3.8	J	5.8	J	8.3		9.2		4.8
Barium	300	67,000	72		92		120		130		110		74		64		53		72		71		110		100		93		120
Cadmium	2.3	450	0.71	U	0.3	J	0.3	J	0.19	J	0.19	J	0.22	J	0.29	J	0.19	J	0.56	J	0.23	J	0.71	U	0.32	J	0.32	J	0.19
Chromium	29	450	20		16		18		19		18		17		19		19		20		16		21		18		19		18
Copper	29.6	41,000	22		NA		NA		21		26		32		NA		NA		NA		NA		NA		21		27		NA
Lead	400	800	29		26		24		21		39		30		27		52		41		22		15		37		40		15
Selenium	2	5,100	0.71	U	0.38	J	0.36	J	0.4	J	0.75	U	0.71	U	0.44	J	0.45	J	0.7	U	0.73	U	0.71	U	0.76	U	0.79	U	0.72
Silver	0.763	5,100	0.35	J	2.2	U	2	U	2.2	U	2.1	U	0.89	J	1.9	U	1.8	U	2	U	2.1	U	2	U	2.1	U	0.52	J	2
Zinc	108.9	100,000	79		NA		NA		70		73		81		NA		NA		NA		NA		NA		88		80		NA
Mercury (mg/Kg - dry)																													
Mercury	0.13	310	0.048	J	0.076		0.11		0.071		0.096		0.081		0.067		0.037	J	0.045	J	0.074		0.048	J	0.068		0.078		0.068

Table A-5
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Post-Excavation Soil Samples Remaining On Site After All Phases of Excavation

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹ (mg/kg)	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil)		SEAD5-FX-SS-026-FS	SEAD5-PX-SS-032-FS	SEAD5-PX-SS-038-FS2	SEAD5-PX-SS-039-FS1	SEAD5-PX-SS-039-FS2	SEAD5-FX-SS-039-FS	SEAD5-FX-SS-040-FS	SEAD5-FX-SS-041-FS	SEAD5-FX-SS-042-FS	SEAD5-FX-SS-043-FS	SEAD5-FX-SS-044-FS	SEAD5-PX-SS-044-FS	SEAD5-FX-SS-045-FS	SEAD5-PX-SS-045-FS	SEAD5-FX-SS-047-FS	SEAD5-FX-SS-048-FS															
				0- 6"	0- 6"	0" - 6"	6" -12"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0- 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"														
Sampling Depth				8/15/2003	8/20/2003	10/3/2003	10/3/2003	10/3/2003	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005															
Sampling Date				Solid	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil															
Matrix																																		
Polyaromatic Hydrocarbons (ug/Kg - dry)																																		
Naphthalene	13,000	190,000	U	290	U	250	U	280	U	300	U	270	U	97	J	170	J	91	J	66	J	76	J	380	U	370	U	270	U	180	J	70	J	82
2-Methylnaphthalene	36400	NA	U	290	U	250	U	280	U	300	U	270	U	320	U	60	J	280	U	280	U	110	J	370	U	270	U	210	J	270	U	290		
Acenaphthylene	41,000	NA	U	290	U	250	U	280	U	300	U	270	U	320	U	190	J	110	J	280	U	280	U	110	J	370	U	270	U	380	U	270	U	290
Acenaphthene	50,000	29,000,000	U	290	U	250	U	280	U	300	U	270	U	320	U	170	J	280	U	66	J	280	U	670	U	370	U	270	U	1300	U	270	U	290
Fluorene	50,000	26,000,000	U	290	U	250	U	280	U	300	U	270	U	320	U	340	U	60	J	64	J	280	U	520	U	370	U	270	U	1900	U	270	U	290
Phenanthrene	50,000	NA	U	290	U	100	J	500	U	200	J	85	J	510	U	5600	U	700	U	500	U	210	J	4900	U	75	J	270	U	27000	U	270	U	510
Anthracene	50,000	100,000,000	U	290	U	250	U	110	J	100	J	270	U	120	J	1500	U	220	J	160	J	63	J	1100	U	370	U	270	U	7800	U	270	U	170
Fluoranthene	50,000	22,000,000	U	290	U	120	J	970	U	400	J	160	J	950	U	7700	U	1300	U	750	U	400	U	5800	U	180	J	270	U	37000	U	270	U	1100
Pyrene	50,000	29,000,000	U	290	U	100	J	790	U	380	U	150	J	960	U	7000	U	1300	U	730	U	380	U	5600	U	170	J	270	U	32000	U	270	U	1000
Benz(a)anthracene	224	2,100	U	290	U	56	J	430	U	220	J	92	J	550	U	3700	U	850	U	470	U	230	J	3200	U	120	J	270	U	20000	U	270	U	600
Chrysene	400	210,000	U	290	U	96	J	450	U	320	U	110	J	510	U	3000	U	680	U	370	U	230	J	2700	U	110	J	270	U	14000	U	270	U	610
Benzo(b)fluoranthene	1,100	2,100	U	290	U	86	J	540	U	450	U	140	J	540	U	3800	U	810	U	450	U	310	J	3300	U	130	J	270	U	14000	U	270	U	730
Benzo(k)fluoranthene	1,100	21,000	U	290	U	250	U	200	J	160	J	270	U	190	J	1000	U	290	U	170	J	92	J	1000	U	370	U	270	U	3300	U	270	U	220
Benzo(a)pyrene	61	210	U	290	U	250	U	360	U	240	J	96	J	370	U	2700	U	610	U	340	U	210	J	2500	U	88	J	270	U	8700	U	270	U	520
Dibenzo(a,h)anthracene	14	210	U	290	U	250	U	60	J	300	U	270	U	68	J	440	U	110	J	60	J	280	U	410	U	370	U	270	U	1200	U	270	U	290
Indeo(1,2,3-cd)pyrene	3,200	2,100	U	290	U	250	U	260	J	180	J	60	J	250	J	2000	U	470	U	260	J	170	J	1800	U	370	U	270	U	3700	U	270	U	370
Benzo(g,h,i)perylene	50,000	NA	U	290	U	250	U	210	J	190	J	55	J	230	J	1600	U	420	U	230	J	150	J	1500	U	370	U	270	U	3000	U	270	U	310
² Benzo(a)pyrene TEQ	10,000	NA		672.8		542.66		549.5		629.8		399		579		4130		942.7		523.4		564.22		3777		524.8		626.4		13843		626.4		988.3
ICP Metals (mg/Kg - dry)																																		
Arsenic	8.24	1.6	J	5.4	J	64	U	9.4		9		6.3	J	13.3		7.57		10.8		14.1		10.9		9.32		12.1		11.6		15.4		6.47	J	4.75
Barium	300	67,000		110		45	J	69		56		24	J	72.3		35.3		70.5		83.7		65		64.2		101		77.3		89.5		58.9		36.4
Cadmium	2.3	450	J	0.73	U	6.4	U	0.26	J	0.3	J	0.17	J	0.07	J	0.676	U	0.664	U	0.663	U	0.0713	J	0.195	J	0.285	J	0.686	U	0.197	J	0.0758	J	0.202
Chromium	29	450		19		8.2	J	15		29		9.3		21.9		12.9		19.5		23		10.8		10.7		20		22.6		24.9		17.5		10.8
Copper	29.6	41,000		NA		27	J	26		30		13		28.3		24.7		36.6		24.8		16.8		17.6		31		32.7		25.9		24		15.1
Lead	400	800		11		24	J	23		96		27		58.3		37.5		52		22.3		15.5		78.4		61.6		30.9		76.6		24.8		17.6
Selenium	2	5,100	U	0.73	U	0.64	U	0.69	U	0.73	U	0.63	U	17	J	13.4	J	13.8	J	15.9		8.53	J	16.4	U	18.7	J	21.4		16.8	J	16.7		15.6
Silver	0.763	5,100	U	2	U	18	U	1.9	U	0.37	J	1.8	U	0.237	J	1.89	U	1.86	U	0.248	J	0.257	J	1.91	U	0.334	J	0.275	J	0.521	J	1.91	U	0.232
Zinc	108.9	100,000		NA		99		71		84		34		66.2		47.8		109		81.1		35.7		42.8		82.3		81.5		91.8		50.3		47.4
Mercury (mg/Kg - dry)																																		
Mercury	0.13	310		0.043	J	0.041	J	0.088		0.12		0.0079	J	0.036	J	0.0316	J	0.0409	J	0.058		0.0913		0.0576		0.0776		0.0307		0.0738		0.0783		0.0829

Table A-5
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Post-Excavation Soil Samples Remaining On Site After All Phases of Excavation

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹ (mg/kg)	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil)		SEAD5-FX-SS-049-FS	SEAD5-FX-SS-050-FS	SEAD5-PX-SS-050-FS	SEAD5-FX-SS-051-FS	SEAD5-PX-SS-051-FS	SEAD5-FX-SS-053-FS	SEAD5-PX-SS-053-FS	SEAD5-FX-SS-054-FS	SEAD5-FX-SS-054-DP	SEAD5-PX-SS-054-FS	SEAD5-FX-SS-055-FS	SEAD5-FX-SS-055-FS	SEAD5-FX-SS-056-FS	SEAD5-FX-SS-057-FS	SEAD5-PX-SS-057-FS	SEAD5-FX-SS-058-FS																
Sampling Depth				0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"																
Sampling Date				2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005	2/10/2005																
Matrix				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil																
Polyaromatic Hydrocarbons (ug/Kg - dry)																																			
Naphthalene	13,000	190,000	J	77	J	100	J	110	J	78	J	81	J	310	U	64	J	89	J	69	J	130	J	94	J	82	J	310	U	330	U	81	J	64	J
2-Methylnaphthalene	36400	NA	U	300	U	300	U	130	J	320	U	80	J	310	U	290	U	330	U	330	U	270	U	290	U	310	U	310	U	330	U	300	U	320	U
Acenaphthylene	41,000	NA	U	300	U	240	J	280	U	320	U	300	U	310	U	290	U	330	U	330	U	200	J	290	J	310	U	310	U	330	U	300	U	320	U
Acenaphthene	50,000	29,000,000	U	300	U	300	U	280	U	320	U	300	U	310	U	290	U	330	U	330	U	100	J	57	J	310	U	310	U	330	U	300	U	320	U
Fluorene	50,000	26,000,000	U	300	U	120	J	280	U	320	U	300	U	310	U	290	U	330	U	330	U	130	J	290	U	310	U	310	U	330	U	300	U	320	U
Phenanthrene	50,000	NA		180	J	2000		130	J	180	J	840		310	U	260	J	330	U	330	U	1600	1100		310	U	310	U	330	U	300	U	320	U	
Anthracene	50,000	100,000,000	J	300	U	580		280	U	320	U	250	J	310	U	81	J	330	U	330	U	510	340		310	U	310	U	330	U	300	U	320	U	
Fluoranthene	50,000	22,000,000		470		4100		170	J	290	J	2700		240	J	620		330	U	330	U	2500	3100		310	U	310	U	330	U	75	J	320	U	
Pyrene	50,000	29,000,000		430		4000		210	J	250	J	2700		240	J	580		330	U	330	U	2600	3100		310	U	310	U	330	U	83	J	320	U	
Benzo(a)anthracene	224	2,100		180	J	2100		140	J	160	J	1600		200	J	330		330	U	330	U	1500	1700		310	U	310	U	330	U	300	U	320	U	
Chrysene	400	210,000		260	J	2100		150	J	110	J	1300		160	J	320		330	U	330	U	1400	1700		310	U	310	U	330	U	300	U	320	U	
Benzo(b)fluoranthene	1,100	2,100		310		2400		240	J	160	J	1600		210	J	400		330	U	330	U	1900	2300		310	U	310	U	330	U	70	J	320	U	
Benzo(k)fluoranthene	1,100	21,000	J	130	J	820		280	U	320	U	400		74	J	160	J	330	U	330	U	450	630		310	U	310	U	330	U	300	U	320	U	
Benzo(a)pyrene	61	210		210	J	1800		150	J	110	J	1100		160	J	290		330	U	330	U	1400	1600		310	U	310	U	330	U	300	U	320	U	
Dibenzo(a,h)anthracene	14	210	U	300	U	89	J	280	U	320	U	150	J	310	U	290	U	330	U	330	U	250	J	270	J	310	U	310	U	330	U	300	U	320	U
Indeo(1,2,3-cd)pyrene	3,200	2,100		190	J	1300		120	J	82	J	660		130	J	230	J	330	U	330	U	1100	1300		310	U	310	U	330	U	300	U	320	U	
Benzo(g,h,i)perylene	50,000	NA		160	J	1100		110	J	74	J	580		100	J	210	J	330	U	330	U	940	1100		310	U	310	U	330	U	300	U	320	U	
² Benzo(a)pyrene TEQ	10,000	NA		581.9		2498.2		484.3		474.5		1653		526.34		680.8		765.6		766		2,119	2423.3		719		719.2		765.6		673		742.4		
ICP Metals (mg/Kg - dry)																																			
Arsenic	8.24	1.6	J	8.73		10.4		10.8		9.35		14.7		9.54		12.7		11.6		8.44		11.4		12.2		11.4		6.93	J	6.95	J	15.3		8.75	
Barium	300	67,000		54.7		49.6		24.5	J	147		129		156		91		113		124		75.5		81.2		125		76.7		71.2		105		126	
Cadmium	2.3	450	J	0.0747	J	0.139	J	0.161	J	0.229	J	0.774	U	0.224	J	0.0679	J	0.131	J	0.849	U	0.161	J	0.321	J	0.167	J	0.726	U	0.036	J	0.0605	J	0.81	U
Chromium	29	450		17.3		19.2		6.22		22.9		29.5		18.4		26.1		19.5		26.5		20		17.3		24.3		18.7		20.6		20.3		23.6	
Copper	29.6	41,000		16.8		22.9		20.4		21.3		31.4		22.2		25.1		15.6		12.5		23.3		29.4		14.4		14.2		24.1		27.5		15.2	
Lead	400	800		17.7		949		14		19.8		27.7		68.9		32.4		24.3		15.4		102		58.7		22.4		9.99		19.3		17.7		14.8	
Selenium	2	5,100	J	18.1	J	20.5		16.9	U	12.8	J	17.7	J	18.6		7.74	J	20.6		17.5	J	11.1	J	15.2	J	11		11.7	J	11.7	J	14.9	J	6.91	J
Silver	0.763	5,100	J	2.12	U	2.17	U	0.338	J	2.09	U	0.352	J	2.15	U	0.758	J	2.31	U	2.38	U	0.188	J	0.315	J	2.21	U	2.03	U	2.21	U	0.228	J	2.27	U
Zinc	108.9	100,000		64.5		65.3		34.5		104		101		85.6		97.4		102		98.3		76.5		88.5		95.5		91.9		73.5		85.6		101	
Mercury (mg/Kg - dry)																																			
Mercury	0.13	310		0.0875		0.0987		0.0618		0.069		0.111		0.0485	J	0.0683		0.0581	J	0.0581	J	0.031		0.0648		0.0581	J	0.026	J	0.0578	J	0.0389	J	0.0558	J

Table A-5
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Post-Excavation Soil Samples Remaining On Site After All Phases of Excavation

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹ (mg/kg)	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil)	SEAD5-PX-SS-058-FS		SEAD5-FX-SS-059-FS		SEAD5-PX-SS-059-FS		SEAD5-FX-SS-060-FS		SEAD5-PX-SS-060-FS		SEAD5-FX-SS-061-FS		SEAD5-PX-SS-061-FS		SEAD5-FX-SS-062-FS		SEAD5-PX-SS-062-DUP		SEAD5-FX-SS-062-FS		SEAD5-PX-SS-062-FS		SEAD5-FX-SS-063-FS		SEAD5-PX-SS-063-FS2		SEAD5-FX-SS-063-FS3		SEAD5-PX-SS-063-FS		SEAD5-FX-SS-064-FS		SEAD5-PX-SS-064-FS		SEAD5-FX-SS-065-FS	
			0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Depth			0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"		0" - 6"	
Sampling Date			2/10/2005		2/10/2005		2/10/2005		2/10/2005		2/10/2005		5/18/2005		2/10/2005		5/18/2005		5/18/2005		2/10/2005		5/18/2005		7/21/2005		7/21/2005		2/10/2005		5/18/2005		2/10/2005		5/18/2005		5/18/2005	
Matrix			Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Polyaromatic Hydrocarbons (ug/Kg - dry)																																						
Naphthalene	13,000	190,000	80	J	170	J	92	J	84	J	82	J	280	U	69	J	330	U	290	U	110	J	360	U	280	U	280	U	81	J	280	U	80	J	7000			
2-Methylnaphthalene	36400	NA	290	U	490		310	U	350	U	340	U	280	U	300	U	330	U	290	U	480	U	360	U	280	U	280	U	360	U	280	U	320	U	5300			
Acenaphthylene	41,000	NA	290	U	320	U	61	J	350	U	340	U	280	U	300	U	220	J	94	J	480	U	360	U	280	U	280	U	120	J	280	U	140	J	960			
Acenaphthene	50,000	29,000,000	290	U	320	U	310	U	350	U	340	U	280	U	300	U	330	U	290	U	480	U	360	U	280	U	280	U	360	U	280	U	320	U	30000			
Fluorene	50,000	26,000,000	290	U	320	U	310	U	350	U	340	U	280	U	300	U	330	U	290	U	480	U	360	U	280	U	280	U	360	U	280	U	320	U	37000			
Phenanthrene	50,000	NA	88	J	200	J	170	J	350	U	110	J	280	U	570		330	U	290	U	480	U	480	U	280	U	280	U	380	U	280	U	340	U	250000			
Anthracene	50,000	100,000,000	290	U	320	U	96	J	350	U	340	U	280	U	140	J	330	U	290	U	480	U	110	J	280	U	280	U	150	J	280	U	160	J	82000			
Fluoranthene	50,000	22,000,000	190	J	140	J	370		350	U	230	J	280	U	1200		330	U	290	U	480	U	690		280	U	280	U	1000		280	U	870	U	300000			
Pyrene	50,000	29,000,000	200	J	140	J	390		350	U	230	J	280	U	1100		330	U	290	U	480	U	570		280	U	280	U	1000		280	U	850	U	220000			
Benz(a)anthracene	224	2,100	110	J	88	J	250	J	350	U	140	J	280	U	580		330	U	290	U	480	U	360		280	U	280	U	620		280	U	570	U	140000			
Chrysene	400	210,000	130	J	100	J	280	J	350	U	150	J	280	U	600		330	U	290	U	480	U	350	J	280	U	280	U	560		280	U	490	U	110000			
Benzo(b)fluoranthene	1,100	2,100	150	J	140	J	380		350	U	180	J	280	U	620		330	U	290	U	480	U	250	J	280	U	280	U	740		280	U	680	U	140000			
Benzo(k)fluoranthene	1,100	21,000	290	U	320	U	130	J	350	U	70	J	280	U	230	J	330	U	290	U	480	U	360	U	280	U	280	U	240	J	280	U	220	J	17000			
Benzo(a)pyrene	61	210	90	J	71	J	230	J	350	U	110	J	280	U	440		330	U	290	U	480	U	360	U	280	U	280	U	540		280	U	520	U	110000			
Dibenzo(a,h)anthracene	14	210	290	U	320	U	310	U	350	U	340	U	280	U	79	J	330	U	290	U	480	U	360	U	280	U	280	U	89	J	280	U	87	J	9900			
Indeo(1,2,3-cd)pyrene	3,200	2,100	81	J	78	J	230	J	350	U	100	J	280	U	310		330	U	290	U	480	U	250	J	280	U	280	U	420		280	U	420	U	55000			
Benzo(g,h,i)perylene	50,000	NA	69	J	66	J	210	J	350	U	95	J	280	U	280	J	69	J	290	U	480	U	290	J	280	U	280	U	370		280	U	400	U	53000			
² Benzo(a)pyrene TEQ	10,000	NA	418.3		425.8		630.1		812		494.2		649.6		678.3		765.6		672.8		1113.6		813.1		649.6		649.6		815		649.6		781.1		154670			
ICP Metals (mg/Kg - dry)																																						
Arsenic	8.24	1.6	12.1		9.52		10.5		10.7		10.2		5.8	J	10.9		7.37	J	7.52		11.8		9.77		8.33		7.75		10.9		8.33		15.2		7.49			
Barium	300	67,000	38.1		73.1		50.6		241		48.9		37.6		80.1		73.8		72.5		79.1		86.5		156		147		115		71.2		116		226			
Cadmium	2.3	450	0.121	J	0.761	U	0.132	J	0.0479	J	0.1	J	0.655	U	0.0784	J	0.785	U	0.731	U	1.14	U	0.999		0.242	J	0.117	J	0.2	J	0.718	U	0.826	U	0.631	U		
Chromium	29	450	14.5		31.6		17		44.3		17.7		8.95		16.8		18.1		18.9		22.1		24.9		15.9		14		19		20.6		31.2		58.9			
Copper	29.6	41,000	23		17.5		27.9		25.7		23.9		17.4		31.9		16.5		17.5		16.8		117		20		11.9		24.4		27.3		22.3		32.3			
Lead	400	800	41.2		54.1		48.6		34		31.1		6.43		48.7		13.4		10.4		20.1		66.1		236		39.2		42.5		14.4		35.9		29.8			
Selenium	2	5,100	12.4	J	13.3	J	16.3	J	15.8	J	18.5	J	5.6	J	11.9	J	3.93	J	5.22	J	27.3	U	11.9	J	2.45	J	4.16	J	7.62	J	5.79	J	11.8	J	3.44	J		
Silver	0.763	5,100	0.278	J	2.13	U	0.316	J	2.34	U	2.35	U	1.84	U	2.16	U	2.2	U	2.05		0.455	J	8.12		1.07	J	0.976	J	0.295	J	2.01	U	0.436	J	1.77	U		
Zinc	108.9	100,000	56.7		75.6		62.8		118		74.7		54.9		62.5		62		77.4		72.9		241		116		63		83.7		72.2		100		84.7			
Mercury (mg/Kg - dry)																																						
Mercury	0.13	310	0.0226	J	0.0892		0.0716		0.117		0.0344	J	0.0134	J	0.0407	J	0.0306	J	0.0322	J	0.053	J	3.14	J	0.0715		0.0639		0.0985		0.0385		0.0843		0.146			

Table A-5
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Post-Excavation Soil Samples Remaining On Site After All Phases of Excavation

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹ (mg/kg)	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil)	SEAD5-FX-SS-05-FS2		SEAD5-FX-SS-05-FS3		SEAD5-PX-SS-065-FS		SEAD5-FX-SS-66-FS		SEAD5-PX-SS-066-FS		SEAD5-FX-SS-67-FS		SEAD5-FX-SS-68-FS		SEAD5-FX-SS-69-FS		SEAD5-PX-SS-70-FS		SEAD5-PX-SS-71-FS		SEAD5-FX-SS-72-FS		SEAD5-PX-SS-73-FS		SEAD5-PX-SS-74-FS		SEAD5-PX-SS-75-FS		SEAD5-PX-SS-75-FS2		SEAD5-PX-SS-75-FS3		SEAD5-PX-SS-76-FS			
			6" - 12"	12" - 18"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"		
Sampling Depth			6" - 12"	12" - 18"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"		
Sampling Date			7/21/2005	7/21/2005	2/10/2005	5/18/2005	2/10/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005		
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Polyaromatic Hydrocarbons (ug/Kg - dry)																																						
Naphthalene	13,000	190,000	280	U	290	U	77	J	310	U	91	J	270	U	290	U	310	U	270	J	76	J	1700		300	U	290	U	74	J	80	J	100	J	450			
2-Methylnaphthalene	36400	NA	280	U	290	U	320	U	310	U	320	U	270	U	290	U	310	U	640		59	J	1100		300	U	290	U	320	U	60	J	86	J	440			
Acenaphthylene	41,000	NA	280	U	290	U	130	J	310	U	320	U	100	J	75	J	310	U	840		400		1400		300	U	290	U	280	J	520		580		1900			
Acenaphthene	50,000	29,000,000	280	U	290	U	320	U	76	J	75	J	270	U	290	U	310	U	280	J	190	J	3300		300	U	290	U	170	J	240		340		2700			
Fluorene	50,000	26,000,000	280	U	290	U	320	U	100	J	84	J	270	U	290	U	310	U	380		240	J	6000		300	U	290	U	220	J	440		710		7000			
Phenanthrene	50,000	NA	280	U	290	U	330		140	J	640		190	J	380		310	U	2500		2100		54000		90	J	81	J	1900		5700		7800		74000			
Anthracene	50,000	100,000,000	280	U	290	U	140	J	310	U	200	J	64	J	99	J	310	U	1000		660		14000		300	U	290	U	570		1500		2200		19000			
Fluoranthene	50,000	22,000,000	280	U	290	U	740		310	U	800		390		790		92	J	3700		3500		70000		230	J	190	J	3200		8600		11000		92000			
Pyrene	50,000	29,000,000	280	U	290	U	760		310	U	760		340		640		72	J	3600		2900		51000		200	J	160	J	2500		7500		9500		68000			
Benz(a)anthracene	224	2,100	280	U	290	U	480		310	U	430		220	J	390		310	U	2000		1700		31000		130	J	110	J	1600		4300		5600		40000			
Chrysene	400	210,000	280	U	290	U	550		310	U	380		220	J	390		310	U	1900		1600		25000		130	J	120	J	1400		4000		5000		32000			
Benzo(b)fluoranthene	1,100	2,100	280	U	290	U	720		310	U	460		91	J	350		310	U	2900		2100		33000		300	U	290	U	2000		5500		6500		42000			
Benzo(k)fluoranthene	1,100	21,000	280	U	290	U	200	J	310	U	170	J	270	U	290	U	310	U	700		440		7400		300	U	290	U	460		1900		2300		14000			
Benzo(a)pyrene	61	210	280	U	290	U	500		310	U	330		270	U	150	J	310	U	2300		1500		25000		300	U	290	U	1300		4100		5000		32000			
Dibenzo(a,h)anthracene	14	210	280	U	290	U	92	J	310	U	320	U	270	U	82	J	310	U	470		340		4800		300	U	290	U	290		280		350		5600			
Indeo(1,2,3-cd)pyrene	3,200	2,100	280	U	290	U	390		310	U	260	J	150	J	280	J	310	U	1600		1100		15000		98	J	94	J	990		2600		2900		19000			
Benzo(g,h,i)perylene	50,000	NA	280	U	290	U	350		310	U	240	J	180	J	290		310	U	1900		1200		15000		110	J	92	J	1000		3300		3700		19000			
^h Benzo(a)pyrene TEQ	10,000	NA	649.6		672.8		758.5		719.2		770.5		591		340.8		719.2		3446		2350.4		38024		657.1		633.5		2067.6		5679		6923		48160			
ICP Metals (mg/Kg - dry)																																						
Arsenic	8.24	1.6	6.93	J	9.2		15.3		8.23		19.5		6.63		7.94		7.99		7.2		8.01		6.1	J	6.94	J	8.16		9.5		9.74		7.98		5.81			
Barium	300	67,000	113		110		119		162		161		51		69.2		119		97.4		86.6		57.5		36.1		189		119		86.4		66.1		61.1			
Cadmium	2.3	450	0.0981	J	0.18	J	0.801	U	0.791	U	0.112	J	0.622	U	0.179	J	0.0873	J	0.679	U	0.0873	J	0.625		0.722	U	0.72	U	0.825	U	0.351	J	0.39	J	0.0337	J		
Chromium	29	450	16.1		14.4		30		24.5		123		19		18.1		20.7		21.8		21.9		16.7		10.6		58.8		19.9		18		21.4		11.4			
Copper	29.6	41,000	13.7		16		19.3		18.9		71.3		25.8		26.3		22.7		26.8		45.9		18.1		19.2		40.2		30.9		29.5		25.7		17.9			
Lead	400	800	19.6		17.9		64.2		13.8		1470		25.4		31.9		20.8		43.1		30.5		469		17.2		25.9		70.4		93.3		74.3		37.8			
Selenium	2	5,100	5.2	J	4.95	J	6.41	J	5.36	J	15.7	J	3.13		7.33	J	6.01	J	6.47	J	8.97	J	15	U	9.47	J	5.39	J	7.83	J	16.1		16.9		5.41			
Silver	0.763	5,100	1.06	J	1.2	J	0.335	J	2.22	U	1.24	J	1.74	U	1.97		2.07	U	1.9	U	1.99		1.75	U	2.02	U	2.02	U	2.31	U	2.15		2.03		0.211			
Zinc	108.9	100,000	69.9		61.2		93.7		94.4		158		64.2		95.8		76.6		93.9		110		61.9		57.3		122		88.5		74.8		70.9		57.3			
Mercury (mg/Kg - dry)																																						
Mercury	0.13	310	0.0773	J	0.0784	J	0.0747		0.0686		0.0933		0.0368		0.12		0.111		0.203		0.471		0.0696		0.0512		0.0731		0.172		0.455		0.448		0.0829			

Table A-6
Seneca Army Depot Activities
Summary of SEAD 5 Delineation Sampling Results - July 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-FX-SS-63-FS2	SEAD5-FX-SS-63-FS3	SEAD5-FX-SS-65-FS2	SEAD5-FX-SS-65-FS3	SEAD5-PX-SS-75-FS2	SEAD5-PX-SS-75-FS3	SEAD5-PX-SS-76-FS2	SEAD5-PX-SS-76-FS3	SEAD5-PX-SS-77-FS1	SEAD5-PX-SS-77-FS2
Sample Depth		6" - 12"	12" - 18"	6" - 12"	12" - 18"	6" - 12"	12" - 18"	6" - 12"	12" - 18"	0" - 6"	6" - 12"
Sampling Date		7/21/2005	7/21/2005	7/21/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/21/2005	7/21/2005	7/22/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)											
Naphthalene	13,000	280 U	280 U	280 U	290 U	80 J	100 J	260 U	260	280 U	68 J
2-Methylnaphthalene	36,400	280 U	280 U	280 U	290 U	60 J	86 J	260 U	260	280 U	60 J
Acenaphthylene	41,000	280 U	280 U	280 U	290 U	520	580	72 J	260	100 J	180 J
Acenaphthene	50,000	280 U	280 U	280 U	290 U	240	340	260 U	260	130 J	230 J
Fluorene	50,000	280 U	280 U	280 U	290 U	440	710	260 U	260	170 J	400
Phenanthrene	50,000	280 U	280 U	280 U	290 U	5700	7800	230 J	350	2100	4200
Anthracene	50,000	280 U	280 U	280 U	290 U	1500	2200	80 J	100 J	560	970
Fluoranthene	50,000	280 U	280 U	280 U	290 U	8600	11000	470	580	3500	5800
Pyrene	50,000	280 U	280 U	280 U	290 U	7500	9500	430	490	3100	5100
Benzo(a)anthracene	224	280 U	280 U	280 U	290 U	4300	5600	260	300	1700	2800
Chrysene	400	280 U	280 U	280 U	290 U	4000	5000	270	300	1700	2600
Benzo(b)fluoranthene	1,100	280 U	280 U	280 U	290 U	5500	6500	360	440	2200	3500
Benzo(k)fluoranthene	1,100	280 U	280 U	280 U	290 U	1900	2300	140 J	110 J	900	1000
Benzo(a)pyrene	61	280 U	280 U	280 U	290 U	4100	5000	250 J	290	1600	2500
Dibenzo(a,h)anthracene	14	280 U	280 U	280 U	290 U	280	350	260 U	63 J	340	480
Indeo(1,2,3-cd)pyrene	3,200	280 U	280 U	280 U	290 U	2600	2900	170 J	190 J	1000	1500
Benzo(g,h,i)perylene	50,000	280 U	280 U	280 U	290 U	3300	3700	200 J	250 J	1300	1900
² Benzo(a)pyrene TEQ	10,000	650	650	650	673	5,679	6,923	593	450	2,456	3,796
ICP Metals (mg/Kg - dry)											
Arsenic	8.24	8.33	7.75	6.93 J	9.2	9.74	7.98	9.59	6.63	9.34	9.44
Barium	300	156	147	113	110	86.4	66.1	67.3	51	79.2	71.2
Cadmium	2.3	0.242 J	0.117 J	0.0981 J	0.18 J	0.351 J	0.39 J	0.0269 J	0.622 U	0.198 J	0.11 J
Chromium	29	15.9	14	16.1	14.4	18	21.4	17.9	19	17	20.4
Copper	29.6	20	11.9	13.7	16	29.5	25.7	24.7	25.8	29	32.4
Lead	400	236	39.2	19.6	17.9	93.3	74.3	38.7	25.4	41	44.6
Selenium	2	2.45 J	4.16 J	5.2 J	4.95 J	16.1	16.9	9.12 J	3.13	12 J	10.3 J
Silver	0.763	1.07 J	0.976 J	1.06 J	1.2 J	2.15	2.03	1.2 J	1.74 U	1.08 J	0.738 J
Zinc	108.9	116	63	69.9	61.2	74.8	70.9	88.8	64.2	81.8	63.4
Mercury (mg/Kg - dry)											
Mercury	0.13	0.0715	0.0639	0.0773 J	0.0784 J	0.455	0.448	0.0921	0.0368	0.231	0.0757

Table A-6
Seneca Army Depot Activities
Summary of SEAD 5 Delineation Sampling Results - July 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-77-FS3	SEAD5-PX-SS-78-FS1	SEAD5-PX-SS-78-FS2	SEAD5-PX-SS-78-FS3	SEAD5-PX-SS-79-FS1	SEAD5-PX-SS-79-FS2	SEAD5-PX-SS-79-FS3	SEAD5-PX-SS-80-FS1	SEAD5-PX-SS-80-FS2	SEAD5-PX-SS-80-FS3
Sample Depth		12" - 18"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"
Sampling Date		7/22/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)											
Naphthalene	13,000	280 U	270 U	100 J	300	64 J	290 U	310 U	290 U	99 J	240 J
2-Methylnaphthalene	36,400	280 U	270 U	120 J	230 J	290 U	290 U	310 U	290 U	100 J	300 J
Acenaphthylene	41,000	110 J	180 J	350	820	210 J	75 J	310 U	290 U	130 J	210 J
Acenaphthene	50,000	120 J	110 J	310	1200	150 J	290 U	310 U	290 U	180 J	280 J
Fluorene	50,000	190 J	140 J	530	2400	140 J	290 U	310 U	290 U	190 J	360
Phenanthrene	50,000	2400	2100	7100	24000	1400	380	310 U	81 J	1800	4000
Anthracene	50,000	470	580	1700	6500	440	99 J	310 U	290 U	490	1300
Fluoranthene	50,000	3500	3900	11000	29000	2500	790	92 J	190 J	3000	5800
Pyrene	50,000	3100	3400	9300	25000	2400	640	72 J	160 J	2600	5200
Benzo(a)anthracene	224	1600	2100	5000	14000	1400	390	310 U	110 J	1500	3400
Chrysene	400	1700	1900	4900	12000	1400	390	310 U	120 J	1500	2800
Benzo(b)fluoranthene	1,100	2000	2900	6000	14000	1800	350	310 U	290 U	2000	3700
Benzo(k)fluoranthene	1,100	830	880	2600	4600	650	290 U	310 U	290 U	780	1100
Benzo(a)pyrene	61	1500	2100	4700	12000	1400	150 J	310 U	290 U	150	2800
Dibenzo(a,h)anthracene	14	320	150	980	2400	280	82 J	310 U	290 U	260	530
Indeo(1,2,3-cd)pyrene	3,200	920	1300	2800	6800	850	280 J	310 U	94 J	960	1500
Benzo(g,h,i)perylene	50,000	1200	1700	3500	8300	1100	290	310 U	92 J	1200	1900
² Benzo(a)pyrene TEQ	10,000	2,297	2,908	7,135	18,046	2,106	341	719	634	879	4,229
ICP Metals (mg/Kg - dry)											
Arsenic	8.24	9.83	8.14	9.36	9.91	9.09	9.6	11.7	8.16	7.72	7.77
Barium	300	69.6	101	115	130	95.5	88.1	99.2	63.2	66.5	62.4
Cadmium	2.3	0.072 J	0.107 J	0.201 J	0.112 J	0.213 J	0.165 J	0.079 J	0.157 J	0.104 J	0.0488 J
Chromium	29	20.6	17	19.2	20.3	16	20.1	44.6	17.4	13.1	16.3
Copper	29.6	34.3	23	23.5	27.8	35.1	31.5	28.3	25.9	22.1	20.3
Lead	400	37	33.6	32.4	43.2	150	85.9	66.3	36.6	33.6	30.3
Selenium	2	16.2 J	10.6 J	14.3 J	14.5 J	13.2 J	17 J	14.6 J	12.8 J	18.1	19.2 J
Silver	0.763	0.644 J	1.21 J	1.08 J	1.02 U	1.17 J	1.41 J	1.26 J	1.44 J	1.18 J	1.12 U
Zinc	108.9	63.6	84.4	80.7	79.4 J	82.3	78.4	75.3	100	86.2	69.6
Mercury (mg/Kg - dry)											
Mercury	0.13	0.0829	0.0927	0.0794	0.0576	0.089	0.0963	0.094	0.176	0.0884	0.0607

Table A-6
Seneca Army Depot Activities
Summary of SEAD 5 Delineation Sampling Results - July 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-80-DUP	SEAD5-PX-SS-81-FS1	SEAD5-PX-SS-81-FS2	SEAD5-PX-SS-81-FS3	SEAD5-PX-SS-82-FS1	SEAD5-PX-SS-82-FS2	SEAD5-PX-SS-82-FS3	SEAD5-PX-SS-83-FS1	SEAD5-PX-SS-83-FS2	SEAD5-PX-SS-83-FS3
Sample Depth		0" - 6"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"
Sampling Date		7/21/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)											
Naphthalene	13,000	260 U	300 U	260 U	140 J	110 J	120 J	750	200 J	270 U	110 J
2-Methylnaphthalene	36,400	210 U	300 U	260 U	62 J	120 J	110 J	730	150 J	270 U	120 J
Acenaphthylene	41,000	3600 U	120 J	170 J	210 J	1300	1300	1700	1100	620	880
Acenaphthene	50,000	990 U	300 U	130 J	280	180 J	220 J	640	280	270 U	110 J
Fluorene	50,000	34000 U	300 U	130 J	280	250 J	290	1100	360	65 J	81 J
Phenanthrene	50,000	12000 U	280 J	1400	2200	1700	2300	7400	2400	690	1200
Anthracene	50,000	50000 U	94 J	500	760	1400	1500	3200	1400	550	810
Fluoranthene	50,000	41000 J	480	2500	3100	4000	5000	9500	3900	2000	2500
Pyrene	50,000	28000 J	450	2200	2700	4300	5200	10000	4100	2300	3000
Benzo(a)anthracene	224	23000 U	260 J	1500	1800	2700	3100	5600	2500	1500	1800
Chrysene	400	27000 U	250 J	1300	1600	2700	2900	5300	2400	1300	1600
Benzo(b)fluoranthene	1,100	10000 U	320	1900	2500	4400	4600	6900	3600	2200	2600
Benzo(k)fluoranthene	1,100	22000 U	130 J	610	920	1600	1600	2500	1200	630	890
Benzo(a)pyrene	61	4100 U	260 J	1400	1800	3700	3800	5800	3000	1800	2200
Dibenzo(a,h)anthracene	14	12000 U	64 J	250	340	600	590	790	480	130 J	160 J
Indeo(1,2,3-cd)pyrene	3,200	14000 U	190 J	800	980	2200	2200	2800	1700	1100	150
Benzo(g,h,i)perylene	50,000	310 U	310	1000	1300	2800	2900	3500	2300	1600	2100
² Benzo(a)pyrene TEQ	10,000	21,290	405	2,089	2,693	5,273	5,425	8,198	4,296	2,429	2,840
ICP Metals (mg/Kg - dry)											
Arsenic	8.24	7.35	8.23	7.11	8.73	8.28	8.24	10	8.56	8.31	8.43
Barium	300	45.7	90.1	90.8	80.8	115	79.1	92.5	79	92.1	77.5
Cadmium	2.3	0.179 J	0.237 J	0.237 J	0.155 J	0.319 J	0.246 J	2.3	0.161 J	0.0997 J	0.206 J
Chromium	29	9.69	16.2	13.2	11.4	18.1	23.7	26.2	23.4	19.5	20
Copper	29.6	19.4	36.5	28.9	26.1	26.6	24	60.8	26.6	25.6	23.7
Lead	400	27.5	32.5	31.6	26.5	52	41.1	997	79.3	36.1	31.5
Selenium	2	17.8 J	8.5 J	15.3	16.4 J	14.5 J	15.1 J	10.7 J	12.5 J	12 J	14 J
Silver	0.763	0.815	2.08	1.54 J	1.25 J	0.99 J	0.946	1.03 J	0.933 J	1.16 J	1.07 J
Zinc	108.9	60.9	107	72.8	63.6	107	86.1	119	125	111	97.7
Mercury (mg/Kg - dry)											
Mercury	0.13	0.147	0.59	0.543	0.361	0.149	0.0966	0.0796	0.275	0.172	0.158

Table A-7a
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results (0" to 6" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-84-FS1	SEAD5-PX-SS-85-FS1	SEAD5-PX-SS-85-DUP1	SEAD5-PX-SS-86-FS1	SEAD5-PX-SS-87-FS1	SEAD5-PX-SS-88-FS1	SEAD5-PX-SS-89-FS1	SEAD5-PX-SS-90-FS1	SEAD5-PX-SS-90-DUP1	SEAD5-PX-SS-91-FS1	SEAD5-PX-SS-92-FS1
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Date		10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)												
Naphthalene	13,000	340 U	310 U	310 U	300 U	330 U	290 U	290 U	290 U	1100	390 U	280 U
2-Methylnaphthalene	36,400	340 U	310 U	310 U	300 U	330 U	290 U	290 U	290 U	400	390 U	280 U
Acenaphthylene	41,000	200 J	110 J	82 J	300 U	330 U	290 U	250 J	290 U	83 J	390 U	280 U
Acenaphthene	50,000	110 J	96 J	76 J	300 U	330 U	290 U	180 J	290 U	1000	390 U	280 U
Fluorene	50,000	120 J	100 J	73 J	300 U	330 U	290 U	310	290 U	1100	390 U	280 U
Phenanthrene	50,000	1200	1100	680	300 U	80 J	290 U	3700	470	8100	150 J	280 U
Anthracene	50,000	390	380	210 J	300 U	330 U	290 U	1100	140 J	2100	390 U	280 U
Fluoranthene	50,000	2300	2700	1200	300 U	180 J	290 U	6700	850	9300	340 J	62 J
Pyrene	50,000	2000	2500	1200	300 U	170 J	290 U	5600	760	7800	320 J	280 U
Benzo(a)anthracene	224	1200	1800	740	300 U	93 J	290 U	3400	490	4800	190 J	280 U
Chrysene	400	1300	1800	660	300 U	110 J	290 U	2900	460	4000	210 J	280 U
Benzo(b)fluoranthene	1,100	2100	3200	1000	300 U	140 J	290 U	4200	560	4800	270 J	58 J
Benzo(k)fluoranthene	1,100	550	870	290 J	300 U	65 J	290 U	1300	270 J	1900	110 J	280 U
Benzo(a)pyrene	61	1500	2400	700	300 U	110 J	290 U	3100	470	3800	200 J	280 U
Dibenzo(a,h)anthracene	14	290	480	140 J	300 U	330 U	290 U	540	80 J	730	390 U	280 U
Indeo(1,2,3-cd)pyrene	3,200	890	1300	430	300 U	69 J	290 U	1800	280 J	2000	120 J	280 U
Benzo(g,h,i)perylene	50,000	970	1500	450	300 U	78 J	290 U	1800	290	2000	150 J	280 U
² Benzo(a)pyrene TEQ	10,000	2,228	3,537	1,067	696	472	673	4,622	690	5,749	651	627
ICP Metals (mg/Kg - dry)												
Arsenic	8.24	7.41	9.9	8.88	8.28	8.1 J	6.31 J	7.17	8.55	7.93	7.35 J	7.37
Barium	300	78.9	111	95.1	97.2	91	82.3	64.4	90.9	75.5	91.3	85.3
Cadmium	2.3	0.119 J	0.111 J	0.0929 J	0.75 U	0.836 U	0.698 U	0.0551 J	0.0209 J	0.699 U	0.934 U	0.708 U
Chromium	29	17.2	23.6	20.8	22.6	21.6	16.4	17.2	17.2	22.3	16.3	22.8
Copper	29.6	30.8	34.8	31.7	20.3	25.6	20.4	19.4	25.7	26.3	26.8	20.3
Lead	400	46.4	112	113	18.1	55.3	50.1	36	33.8	43.3	78.3	21.6
Selenium	2	29.1	32.1	3.99 J	16.2 J	37.2	30.4	2.66 J	28.7	28.4	35.7	23.9
Silver	0.763	1.79 U	2.18 U	2.03 U	0.244 J	2.34 U	1.95 U	0.405 J	1.95 U	1.96 U	2.61 U	1.98 U
Zinc	108.9	100	105	94.7	89.5	97.3	79	80.4	80.4	83.8	82.2	75.2
Mercury (mg/Kg - dry)												
Mercury	0.13	0.439	0.169	0.135	0.0699	0.138	0.111	0.0669	0.125	0.146	0.164	0.0848

Table A-7a
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results (0" to 6" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-93-FS1	SEAD5-PX-SS-94-FS1	SEAD5-PX-SS-95-FS1	SEAD5-PX-SS-96-FS1	SEAD5-PX-SS-97-FS1	SEAD5-PX-SS-98-FS1	SEAD5-PX-SS-99-FS1	SEAD5-PX-SS-100-FS1	SEAD5-PX-SS-101-FS1
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"
Sampling Date		10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)										
Naphthalene	13,000	340 U	270 U	82 J	290 U	370 U	290 U	130 J	230 J	320 U
2-Methylnaphthalene	36,400	340 U	270 U	130 J	290 U	370 U	290 U	120 J	340	320 U
Acenaphthylene	41,000	340 U	180 J	98 J	72 J	86 J	290 U	440	980	130 J
Acenaphthene	50,000	340 U	110 J	300 U	290 U	370 U	290 U	72 J	1500	100 J
Fluorene	50,000	340 U	140 J	300 U	62 J	370 U	290 U	89 J	2200	110 J
Phenanthrene	50,000	68 J	2100	490	480	250 J	290 U	730	24000	1300
Anthracene	50,000	340 U	580	150 J	150 J	94 J	290 U	390	6700	360
Fluoranthene	50,000	130 J	3900	960	650	570	290 U	1500	36000	2700
Pyrene	50,000	120 J	3400	890	570	520	290 U	1600	29000	2300
Benzo(a)anthracene	224	81 J	2100	550	350	340	290 U	1000	17000	1400
Chrysene	400	86 J	1900	530	300	300 J	290 U	960	13000	1300
Benzo(b)fluoranthene	1,100	100 J	2900	730	450	430	290 U	1500	17000	1900
Benzo(k)fluoranthene	1,100	340 U	880	260 J	130 J	180 J	290 U	630	5500	600
Benzo(a)pyrene	61	340 U	2100	550	320	340 J	290 U	1300	13000	1300
Dibenzo(a,h)anthracene	14	340 U	150	110 J	88 J	370 U	290 U	210	2600	220 J
Indeo(1,2,3-cd)pyrene	3,200	340 U	1300	310	190 J	200 J	290 U	860	6300	750
Benzo(g,h,i)perylene	50,000	74 J	1700	330	210 J	220 J	290 U	1000	6200	800
² Benzo(a)pyrene TEQ	10,000	736	2,908	827	511	812	673	1,862	19,815	1,944
ICP Metals (mg/Kg - dry)										
Arsenic	8.24	9.89	8.2	8.31	5.53 J	8.46 J	6.41	7.97	8.33	9.31
Barium	300	129	74.6	77.3	62	93.7	95.6	102	93.7	104
Cadmium	2.3	0.162 J	0.0773 J	0.723 U	0.749 U	0.905 U	0.702 U	0.0665 J	0.761 U	0.0393 J
Chromium	29	25.4	20.2	23.3	22.3	22.6	19.9	20.8	20.2	21.9
Copper	29.6	23.9	33.8	24.9	25.7	29.9	13.7	28.6	19.4	23.9
Lead	400	61.1	37.2	44.5	114	67.7	15.4	44.1	38.1	52.2
Selenium	2	40.4	38.9	32.4	26.7	42.8	33.3	14.2 J	28.5	38.3
Silver	0.763	2.28 U	2.28 U	2.02 U	2.1 U	2.53 U	1.97 U	2.04 U	2.13 U	2.31 U
Zinc	108.9	116	124	87.7	105 J	123	60.7	122	93.4	105
Mercury (mg/Kg - dry)										
Mercury	0.13	0.153	0.49	0.103	0.0572	0.0777	0.0607	0.241	0.0925	0.0846

Table A-7a
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results (0" to 6" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-102-FS1	SEAD5-PX-SS-103-FS1	SEAD5-PX-SS-104-FS1	SEAD5-PX-SS-105-FS1	SEAD5-PX-SS-106-FS1	SEAD5-PX-SS-107-FS1	SEAD5-PX-SS-108-FS1			
Sample Depth		0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"	0" - 6"			
Sampling Date		10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/13/2005			
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Avg Result	Max Result	No. Exceedances
Polyaromatic Hydrocarbons (ug/Kg - dry)											
Naphthalene	13,000	92 J	310 U	120 J	320 U	300 U	56000	300 U	2,370	56,000	1
2-Methylnaphthalene	36,400	80 J	310 U	110 J	320 U	300 U	28000	300 U	1,312	28,000	0
Acenaphthylene	41,000	370	270 J	720 J	320 U	300 U	9500	65 J	621	9,500	0
Acenaphthene	50,000	280 J	89 J	290 J	320 U	300 U	110000	110 J	4,374	110,000	1
Fluorene	50,000	390	180	360	320 U	300 U	140000	96 J	5,523	140,000	1
Phenanthrene	50,000	5700	1800	3100	440	370	888000	1200	35,062	888,000	1
Anthracene	50,000	1400	480	1200	130 J	110 J	290000	320	11,430	290,000	1
Fluoranthene	50,000	8600	3200	4900	820	760	890000	2100	36,345	890,000	1
Pyrene	50,000	7100	2800	5000	730	680	740000	1800	30,297	740,000	1
Benzo(a)anthracene	224	4100	1600	2700	450	430	400000	1000	16,555	400,000	24
Chrysene	400	3600	1700	2500	460	410	350000	950	14,467	350,000	18
Benzo(b)fluoranthene	1,100	4900	2200	3800	660	510	400000	1400	16,877	400,000	13
Benzo(k)fluoranthene	1,100	1400	770	1100	200 J	260 J	130000	470	5,527	130,000	5
Benzo(a)pyrene	61	3400	1600	3000	460	400	310000	970	13,056	310,000	27
Dibenzo(a,h)anthracene	14	610	310	490	71 J	75 J	66000	190 J	2,814	66,000	27
Indeo(1,2,3-cd)pyrene	3,200	1900	910	1800	270 J	240 J	140000	580	6,074	140,000	2
Benzo(g,h,i)perylene	50,000	1900	950	2100	310 J	270 J	130000	620	5,744	130,000	1
² Benzo(a)pyrene TEQ	10,000	5,150	2,406	4,356	676	600	474,800	1,472	20,021	474,800	2
ICP Metals (mg/Kg - dry)											
Arsenic	8.24	9.26	8.25	7.02 J	7.91	8.23	9.58	10.3	8.2	10.3	13
Barium	300	94.2	107	73.6	90.2	73.5	63.9	68	88	129	0
Cadmium	2.3	0.749 U	0.0505 J	0.729 J	0.116 J	0.732 U	0.661 U	0.107 J	0.5	0.9	0
Chromium	29	21.7	22.5	19.6	17.9	17.2	20.3	19.1	20	25	0
Copper	29.6	24.5	25	23.7	25.2	22.4	25.3	26.5	25.1	34.8	5
Lead	400	47.3	63.1	61.6	46.7	43.7	39.6	60	53	114	0
Selenium	2	4.2 J	38	18.1 U	31.6	34.6	5.64 J	14	26	43	27
Silver	0.763	2.1 U	2.1	2.11 U	2.19 U	2.05 U	1.85 U	1.1	1.948	2.610	25
Zinc	108.9	93.1	111	96.3	93.8	76.4	75.7	74.8	93.5	124.0	5
Mercury (mg/Kg - dry)											
Mercury	0.13	0.0745	0.106	0.0295	0.0822	0.0632	0.0214	0.224	0.13	0.5	14

Table A-7b
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results (6" to 12" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-84-FS2	SEAD5-PX-SS-85-FS2	SEAD5-PX-SS-86-FS2	SEAD5-PX-SS-87-FS2	SEAD5-PX-SS-88-FS2	SEAD5-PX-SS-89-FS2	SEAD5-PX-SS-90-FS2	SEAD5-PX-SS-91-FS2	SEAD5-PX-SS-92-FS2	SEAD5-PX-SS-93-FS2	SEAD5-PX-SS-94-FS2
Sample Depth		6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"
Sampling Date		10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)												
Naphthalene	13,000	310 U	87 J	320 U	290 U	280 U	810	130 J	330 U	330 U	330 U	160 J
2-Methylnaphthalene	36,400	310 U	300 U	320 U	290 U	280 U	450	270 U	330 U	330 U	330 U	72 J
Acenaphthylene	41,000	120 J	110 J	320 U	290 U	280 U	960	72 J	330 U	330 U	330 U	160 J
Acenaphthene	50,000	78 J	190 J	320 U	290 U	280 U	2100	220 J	330 U	330 U	330 U	330
Fluorene	50,000	100 J	210 J	320 U	290 U	280 U	3500	220 J	330 U	330 U	330 U	390
Phenanthrene	50,000	1100	1800	320 U	290 U	280 U	34000	2100	150 J	330 U	330 U	3200
Anthracene	50,000	280 J	500	320 U	290 U	280 U	9300	670	330 U	330 U	330 U	940
Fluoranthene	50,000	1900	2600	320 U	290 U	280 U	46000	3300	290 J	330 U	330 U	4100
Pyrene	50,000	1700	2400	320 U	290 U	280 U	33000	2900	240 J	330 U	330 U	3600
Benzo(a)anthracene	224	990	1500	320 U	290 U	280 U	20000	1800	160 J	330 U	330 U	2100
Chrysene	400	990	1200	320 U	290 U	280 U	17000	1600	160 J	330 U	330 U	1900
Benzo(b)fluoranthene	1,100	1500	1900	320 U	290 U	280 U	23000	2000	180 J	330 U	330 U	2700
Benzo(k)fluoranthene	1,100	430	580	320 U	290 U	280 U	6300	800	88 J	330 U	330 U	740
Benzo(a)pyrene	61	1100	1400	320 U	290 U	280 U	17000	1600	150 J	330 U	330 U	1900
Dibenzo(a,h)anthracene	14	180	250 J	320 U	290 U	280 U	3500	290	330 U	330 U	330 U	370
Indeo(1,2,3-cd)pyrene	3,200	600	770	320 U	290 U	280 U	9800	870	93 J	330 U	330 U	1100
Benzo(g,h,i)perylene	50,000	670	820	320 U	290 U	280 U	9500	900	96 J	330 U	330 U	1200
² Benzo(a)pyrene TEQ	10,000	1,603	2,085	742	673	650	26,013	2,381	526	766	766	2,886
ICP Metals (mg/Kg - dry)												
Arsenic	8.24	8.56	10	7.21 J	8.42	6.92 J	11.2	8.3	6.09 J	7.76 J	7.45 J	8.88
Barium	300	89.8	92.4	133	85.7	115	75.3	64.6	102	132	79.6	83
Cadmium	2.3	0.138 J	0.764 U	0.752 U	0.759 U	0.73 U	0.0151 J	0.683 U	0.0445 J	0.815 U	0.817 U	0.0212 J
Chromium	29	23.6	19.7	19.7	22.8	23.6	15.5	15.7	19.3	27.8	20.7	18
Copper	29.6	26.8	25.6	18.6	21	14.2	30	22.2	23.9	20	24.5	20.4
Lead	400	93	64.4	14.4	14	14.7	56.5	28.9	57.8	13.4	14.7	37.4
Selenium	2	31	18.1 J	11.7 J	12 J	38.9	21.2	15.3 J	31.9	44 J	40.7	15.9 U
Silver	0.763	2.14 U	2.14 U	0.194 J	0.215 J	2.04 U	1.93 U	1.91 U	2.29 U	2.28 U	2.29 J	1.85 U
Zinc	108.9	113	82.8	122	87.9	72.3	79.5	63.5	81.9	79.7	75.6	72.8
Mercury (mg/Kg - dry)												
Mercury	0.13	0.256	0.0961	0.0673	0.0479 J	0.0623	0.0567	0.0821	0.136	0.0743	0.0306	0.0807

Table A-7b
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results (6" to 12" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-94-DUP2	SEAD5-PX-SS-95-FS2	SEAD5-PX-SS-96-FS2	SEAD5-PX-SS-97-FS2	SEAD5-PX-SS-98-FS2	SEAD5-PX-SS-99-FS2	SEAD5-PX-SS-100-FS2	SEAD5-PX-SS-101-FS2	SEAD5-PX-SS-102-FS2	SEAD5-PX-SS-102-DUP2
Sample Depth		6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"
Sampling Date		10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)											
Naphthalene	13,000	87 J	290 U	300 U	280 U	290 U	100 J	2400	70 J	280 U	280 U
2-Methylnaphthalene	36,400	270 U	290 U	300 U	280 U	290 U	130 J	780	300 U	280 U	280 U
Acenaphthylene	41,000	260 J	110 J	300 U	280 U	290 U	860 U	220 J	200 J	110 J	280 U
Acenaphthene	50,000	300	290 U	300 U	280 U	290 U	270 J	2800	180 J	88 J	280 U
Fluorene	50,000	390	290 U	300 U	280 U	290 U	320	3000	200 J	90 J	280 U
Phenanthrene	50,000	3400	320	180 J	87 J	290 U	2400	20000	2000	700	130 J
Anthracene	50,000	1000	120 J	59 J	280 U	290 U	1100	5800	590	220 J	280 U
Fluoranthene	50,000	4900	770	350	170 J	290 U	4500	22000	4100	1200	260 J
Pyrene	50,000	4200	720	290 J	160 J	290 U	4600	19000	3700	1000	230 J
Benzo(a)anthracene	224	2700	480	200 J	120 J	290 U	2400	11000	2500	640	150 J
Chrysene	400	2100	430	190 J	110 J	290 U	2400	9400	2000	580	140 J
Benzo(b)fluoranthene	1,100	3100	700	280 J	150 J	290 U	3800	13000	2800	750	220 J
Benzo(k)fluoranthene	1,100	1100	180 J	82 J	64 J	290 U	1000	3600	1100	270 J	74 J
Benzo(a)pyrene	61	2300	470	190 J	110 J	290 U	3000	9900	2200	600	140 J
Dibenzo(a,h)anthracene	14	480	97 J	300 U	280 U	290 U	460	1700	400	120 J	280 U
Indeo(1,2,3-cd)pyrene	3,200	1400	280 J	110 J	85 J	290 U	1900	5200	1200	360	98 J
Benzo(g,h,i)perylene	50,000	1500	290	120 J	85 J	290 U	2100	5400	1200	360	100 J
² Benzo(a)pyrene TEQ	10,000	3,532	719	552	427	673	4,304	14,650	3,281	904	469
ICP Metals (mg/Kg - dry)											
Arsenic	8.24	8.41	4.72 J	8.72	8.35	8.17	7.36 J	8.87	10.2	8.6	9.76
Barium	300	76.5	43.2	76.1	60	88	96.1	96.4	118	85.6	80
Cadmium	2.3	0.0682 J	0.696 U	0.749 U	0.679 U	0.706 U	0.282 J	0.0826 J	0.0786 J	0.711 U	0.706 U
Chromium	29	18.8	9.88	19.8	19.9	18.7	17.7	22.2	23.7	21.8	20.3
Copper	29.6	20.4	6.7	23.2	17.4	20.4	32.5	22.3	22.5	20	20.6
Lead	400	37	17.4	48.6	28.4	13.1	47.7	33.3	42.5	32.2	29.7
Selenium	2	19.4	19.8 J	24.4	32	33	16.7 U	17.5 J	31.4	36.3 J	26.4
Silver	0.763	1.81 U	1.95 U	2.1 U	1.9 U	1.98 U	0.326 J	2.02 U	2.06 U	1.99 U	1.98 U
Zinc	108.9	77.8	33.7	82.9 J	105	68.4	101	82.9	101	102	84.8
Mercury (mg/Kg - dry)											
Mercury	0.13	0.0581	0.056	0.0585	0.0594	0.0266	0.0863	0.0377	0.0527	0.0346	0.0167

Table A-7b
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results (6" to 12" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-103-FS2	SEAD5-PX-SS-104-FS2	SEAD5-PX-SS-105-FS2	SEAD5-PX-SS-106-FS2	SEAD5-PX-SS-107-FS2	SEAD5-PX-SS-108-FS2			
Sample Depth		6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"	6" - 12"			
Sampling Date		10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/13/2005			
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Avg Result	Max Result	No. Exceedances
Polyaromatic Hydrocarbons (ug/Kg - dry)										
Naphthalene	13,000	58 J	65 J	290 U	300 U	950	290 U	360	2,400	0
2-Methylnaphthalene	36,400	280 U	290 U	290 U	300 U	380	290 U	308	780	0
Acenaphthylene	41,000	130 J	340	290 U	300 U	430	290 U	296	960	0
Acenaphthene	50,000	120 J	110 J	290 U	300 U	1300	290 U	455	2,800	0
Fluorene	50,000	140 J	130 J	290 U	300 U	1400	290 U	529	3,500	0
Phenanthrene	50,000	1300	900	200 J	350	12000	290	3,276	34,000	0
Anthracene	50,000	310	450	65	97 J	3300	83 J	1,023	9,300	0
Fluoranthene	50,000	2400 J	1800	460	530	16000	600	4,447	46,000	0
Pyrene	50,000	2100 J	2100	420	470	15000	510	3,710	33,000	0
Benzo(a)anthracene	224	1200	1300	250 J	290 J	8800	310	2,249	20,000	23
Chrysene	400	1300	1100	240 J	250 J	7300	300	1,946	17,000	14
Benzo(b)fluoranthene	1,100	1700	1800	380	370	11000	420	2,726	23,000	12
Benzo(k)fluoranthene	1,100	630 U	500	110 J	97	2800	150	835	6,300	3
Benzo(a)pyrene	61	1200	1400	250 J	250 J	7700	320	2,038	17,000	27
Dibenzo(a,h)anthracene	14	230 J	260 J	290 U	300 U	1100	62 J	486	3,500	27
Indeo(1,2,3-cd)pyrene	3,200	720	820	160 J	150 J	4200	200	1,184	9,800	3
Benzo(g,h,i)perylene	50,000	810	940	160 J	160 J	4200	190	1,209	9,500	0
² Benzo(a)pyrene TEQ	10,000	1,811	2,068	623	634	11,301	480	3,167	26,013	3
ICP Metals (mg/Kg - dry)										
Arsenic	8.24	8.44	8.33	7.28	8.92	6.9	8.6	8.2	11.2	17
Barium	300	68	81.8	86.2	81.1	71.5	65.7	86	133	0
Cadmium	2.3	0.7 U	0.715 U	0.708 U	0.728 U	0.114 J	0.0324 J	0.5	0.8	0
Chromium	29	20.5	20.9	21	19.1	17.9	21.3	20	28	0
Copper	29.6	22.2	26.9	22.1	22.2	27.2	28.9	22.3	32.5	2
Lead	400	72.5	35.5	37.7	39.7	28.3	47.5	37	93	0
Selenium	2	8.76 J	9.03 J	20.1	17.5 U	16.1 U	11.9 J	23	44	27
Silver	0.763	0.355 J	2 U	1.98 U	2.04 U	0.318 J	0.847 J	1.664	2.290	22
Zinc	108.9	102	90.3	86.8	75.9	79.7	71.6	84.3	122.0	2
Mercury (mg/Kg - dry)										
Mercury	0.13	0.0802	0.136	0.0501	0.104	0.0198	0.224	0.08	0.3	5

Table A-7c
Seneca Army Depot Activity
Summary of SEAD 5 Delineation Sampling Results (12" to 18" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-84-FS3	SEAD5-PX-SS-89-FS3	SEAD5-PX-SS-91-FS3	SEAD5-PX-SS-100-FS3	SEAD5-PX-SS-104-FS3	SEAD5-PX-SS-108-FS3	Avg Result	Max Result	No. Exceedances
Sample Depth		12" - 18"	12" - 18"	12" - 18"	12" - 18"	12" - 18"	12" - 18"			
Sampling Date		10/11/2005	10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005			
Matrix		Soil	Soil	Soil	Soil	Soil	Soil			
Polyaromatic Hydrocarbons (ug/Kg - dry)										
Naphthalene	13,000	110 J	540	300 U	5800	270 U	99 J	1,187	5,800	0
2-Methylnaphthalene	36,400	300 U	380	300 U	1800	270 U	75 J	521	1,800	0
Acenaphthylene	41,000	81 J	1400	64 J	590	270 U	360	461	1,400	0
Acenaphthene	50,000	200 J	1900	300 U	5900	270 U	390	1,493	5,900	0
Fluorene	50,000	180 J	5600	300 U	5100	270 U	480	1,988	5,600	0
Phenanthrene	50,000	1900	54000	100 J	44000	93 J	5800	17,649	54,000	1
Anthracene	50,000	420 J	15000	300 U	9900	270 U	1300	4,532	15,000	0
Fluoranthene	50,000	2900	55000	200 J	52000	130 J	9200	19,905	55,000	2
Pyrene	50,000	2500	45000	190 J	43000	120 J	7800	16,435	45,000	0
Benzo(a)anthracene	224	1400	24000	120 J	26000	77 J	4200	9,300	26,000	4
Chrysene	400	1400	18000	120 J	21000	67 J	4100	7,448	21,000	4
Benzo(b)fluoranthene	1,100	1700	26000	140 J	30000	91 J	5400	10,555	30,000	4
Benzo(k)fluoranthene	1,100	530	8500	70 J	12000	270 U	2300	3,945	12,000	3
Benzo(a)pyrene	61	1300	19000	130 J	24000	74 J	4100	8,101	24,000	6
Dibenzo(a,h)anthracene	14	280 J	3700 J	300 U	4900	270 U	840	1,715	4,900	6
Indeo(1,2,3-cd)pyrene	3,200	740	11000	65 J	13000	270 U	2500	4,596	13,000	2
Benzo(g,h,i)perylene	50,000	800	11000	96 J	14000	270 U	2600	4,794	14,000	0
² Benzo(a)pyrene TEQ	10,000	1,983	29,065	464	36,130	391	6,214	12,375	36,130	2
ICP Metals (mg/Kg - dry)										
Arsenic	8.24	10	11.5	9.29	13.1	12.1	11.1	11.2	13.1	6
Barium	300	84.9	89.3	64.6	236	67.4	97.9	107	236	0
Cadmium	2.3	0.339 J	0.31 J	0.247 J	2.35 J	0.181 J	0.321 J	0.6	2.4	1
Chromium	29	16.5	20.2	15.2	28.7	15.8	17	19	29	0
Copper	29.6	32.7	22.1	19.1	20.4	20.6	26.4	23.6	32.7	1
Lead	400	64.5	37.7	42.9	79.2	16.8	94	56	94	0
Selenium	2	1.5 U	1.5 U	1.5 U	1.4 U	1.4 U	1.5 U	1.5	1.5	0
Silver	0.763	0.783 J	0.558 J	0.427 J	0.669 J	0.803 J	0.659 J	0.650	0.803	2
Zinc	108.9	98.5	113	68.4	140	68.3	75.7	94.0	140.0	2
Mercury (mg/Kg - dry)										
Mercury	0.13	0.129	0.0702	0.0911	0.0579	0.0593	0.0879	0.1	0.1	1

Table A-7d
Seneca Army Depot Activity
Summary of SEAD5 Delineation Sampling Results (18" to 24" bgs) - October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	SEAD5-PX-SS-75-FS4	SEAD5-PX-SS-81-FS4	SEAD5-PX-SS-83-FS4	Avg Result	Max Result	No. Exceedances
		18" - 24"	18" -24"	18" - 24"			
		10/13/2005	10/13/2005	10/13/2005			
		Soil	Soil	Soil			
Polyaromatic Hydrocarbons (ug/Kg - dry)							
Naphthalene	13,000	480	260 U	250 J	330	480	0
2-Methylnaphthalene	36,400	460	260 U	250 J	323	460	0
Acenaphthylene	41,000	2300	61 J	320	894	2,300	0
Acenaphthene	50,000	3300	260 U	180 J	1,247	3,300	0
Fluorene	50,000	7800	260 U	260 J	2,773	7,800	0
Phenanthrene	50,000	60000	180 J	1400	20,527	60,000	1
Anthracene	50,000	17000	58 J	600	5,886	17,000	0
Fluoranthene	50,000	59000	330	1900	20,410	59,000	1
Pyrene	50,000	46000	300	1900	16,067	46,000	0
Benzo(a)anthracene	224	25000	150 J	1100	8,750	25,000	2
Chrysene	400	21000	250 J	1100	7,450	21,000	2
Benzo(b)fluoranthene	1,100	26000	260 J	1500	9,253	26,000	2
Benzo(k)fluoranthene	1,100	6100	98 J	450	2,216	6,100	1
Benzo(a)pyrene	61	18000	140 J	1200	6,447	18,000	3
Dibenzo(a,h)anthracene	14	3600	260 U	220 J	1,360	3,600	3
Indeo(1,2,3-cd)pyrene	3,200	9200	140 J	720	3,353	9,200	1
Benzo(g,h,i)perylene	50,000	8400	140 J	770	3,103	8,400	0
² Benzo(a)pyrene TEQ	10,000	27,891	458	1,768	10,039	27,891	1
ICP Metals (mg/Kg - dry)							
Arsenic	8.24	6.76	9.34 J	10.5	8.9	10.5	2
Barium	300	62.3	50.4	95.7	69	96	0
Cadmium	2.3	0.0618 J	0.648 U	0.168 J	0.3	0.6	0
Chromium	29	15.1	25.4	18.7	20	25	0
Copper	29.6	19.8	33.7	24.6	26.0	33.7	1
Lead	400	79.4	25.6	41.4	49	79	0
Selenium	2	16.8	10.6 J	13.9 J	14	17	3
Silver	0.763	0.35 U	0.356 J	0.482 J	0.396	0.482	0
Zinc	108.9	67.1	64.7	99.1	77.0	99.1	0
Mercury (mg/Kg - dry)							
Mercury	0.13	0.0424	0.0229	0.206	0.1	0.2	1

Table A-8
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Downgradient Delineation Samples - July and October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil) *	SEAD5-PX-SS-77-FS1	SEAD5-PX-SS-77-FS2	SEAD5-PX-SS-77-FS3	SEAD5-PX-SS-78-FS1	SEAD5-PX-SS-78-FS2	SEAD5-PX-SS-78-FS3	SEAD5-PX-SS-79-FS1	SEAD5-PX-SS-79-FS2	SEAD5-PX-SS-79-FS3	SEAD5-PX-SS-80-FS1	SEAD5-PX-SS-80-FS2	SEAD5-PX-SS-80-FS3	SEAD5-PX-SS-80-DUP												
Sampling Depth			0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"	0" - 6"												
Sampling Date			7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005												
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil												
Polyaromatic Hydrocarbons (ug/Kg - dry)																											
Naphthalene	13,000	190,000	280	U	68	J	280	U	270	U	100	J	300		64	J	290	U	310	U	290	U	99	J	240	J	260
2-Methylnaphthalene	36400	NA	280	U	60	J	280	U	270	U	120	J	230	J	290	U	290	U	310	U	290	U	100	J	300	J	210
Acenaphthylene	41,000	NA	100	J	180	J	110	J	180	J	350		820		210	J	75	J	310	U	290	U	130	J	210	J	3600
Acenaphthene	50,000	29,000,000	130	J	230	J	120	J	110	J	310		1200		150	J	290	U	310	U	290	U	180	J	280	J	990
Flourene	50,000	26,000,000	170	J	400		190	J	140	J	530		2400		140	J	290	U	310	U	290	U	190	J	360	J	34000
Phenanthrene	50,000	NA	2100		4200		2400		2100		7100		24000		1400		380		310	U	81	J	1800		4000		12000
Anthracene	50,000	100,000,000	560		970		470		580		1700		6500		440		99	J	310	U	290	U	490		1300		50000
Flouranthene	50,000	22,000,000	3500		5800		3500		3900		11000		29000		2500		790		92	J	190	J	3000		5800		41000
Pyrene	50,000	29000000	3100		5100		3100		3400		9300		25000		2400		640		72	J	160	J	2600		5200		28000
Benz(a)anthracene	224	2100	1700		2800		1600		2100		5000		14000		1400		390		310	U	110	J	1500		3400		23000
Chrysene	400	210,000	1700		2600		1700		1900		4900		12000		1400		390		310	U	120	J	1500		2800		27000
Benzo(b)fluoranthene	1,100	2,100	2200		3500		2000		2900		6000		14000		1800		350		310	U	290	U	2000		3700		10000
Benzo(k)fluoranthene	1,100	21,000	900		1000		830		880		2600		4600		650		290	U	310	U	290	U	780		1100		22000
Benzo(a)pyrene	61	210	1600		2500		1500		2100		4700		12000		1400		150	J	310	U	290	U	150		2800		4100
Dibenzo(a,h)anthracene	14	210	340		480		320		150		980		2400		280		82	J	310	U	290	U	260		530		12000
Indeo(1,2,3-cd)pyrene	3,200	2,100	1000		1500		920		1300		2800		6800		850		280	J	310	U	94	J	960		1500		14000
Benzo(g,h,i)perylene	50,000	NA	1300		1900		1200		1700		3500		8300		1100		290		310	U	92	J	1200		1900		310
¹ Bezo(a)pyrene TEQ	10,000	NA	2456		3796		2297.3		2907.8		7135		18046		2105.5		340.8		719.2		633.5		878.8		4229		21290
ICP Metals (mg/Kg - dry)																											
Arsenic	8.24	1.6	9.34		9.44		9.83		8.14		9.36		9.91		9.09		9.6		11.7		8.16		7.72		7.77		7.35
Barium	300	67,000	79.2		71.2		69.6		101		115		130		95.5		88.1		99.2		63.2		66.5		62.4		45.7
Cadmium	2.3	450	0.198	J	0.11	J	0.072	J	0.107	J	0.201	J	0.112	J	0.213	J	0.165	J	0.079	J	0.157	J	0.104	J	0.0488	J	0.179
Chromium	29	450	17		20.4		20.6		17		19.2		20.3		16		20.1		44.6		17.4		13.1		16.3		9.69
Copper	29.6	41,000	29		32.4		34.3		23		23.5		27.8		35.1		31.5		28.3		25.9		22.1		20.3		19.4
Lead	400	800	41		44.6		37		33.6		32.4		43.2		150		85.9		66.3		36.6		33.6		30.3		27.5
Selenium	2	5,100	12	J	10.3	J	16.2	J	10.6	J	14.3	J	14.5	J	13.2	J	17	J	14.6	J	12.8	J	18.1		19.2	J	17.8
Silver	0.763	5,100	1.08	J	0.738	J	0.644	J	1.21	J	1.08	J	1.02	U	1.17	J	1.41	J	1.26	J	1.44	J	1.18	J	1.12	U	0.815
Zinc	108.9	100,000	81.8		63.4		63.6		84.4		80.7		79.4	J	82.3		78.4		75.3		100		86.2		69.6		60.9
Mercury (mg/Kg - dry)																											
Mercury	0.13	310	0.231		0.0757		0.0829		0.0927		0.0794		0.0576		0.089		0.0963		0.094		0.176		0.0884		0.0607		0.147

Table A-8
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Downgradient Delineation Samples - July and October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil) *	SEAD5-PX-SS-81-FS1	SEAD5-PX-SS-81-FS2	SEAD5-PX-SS-81-FS3	SEAD5-PX-SS-81-FS4	SEAD5-PX-SS-82-FS1	SEAD5-PX-SS-82-FS2	SEAD5-PX-SS-82-FS3	SEAD5-PX-SS-83-FS1	SEAD5-PX-SS-83-FS2	SEAD5-PX-SS-83-FS3	SEAD5-PX-SS-83-FS4	SEAD5-PX-SS-84-FS1
Sampling Depth			0" - 6"	6" - 12"	12" - 18"	18" - 24"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	12" - 18"	18" - 24"	0" - 6"
Sampling Date			7/21/2005	7/22/2005	7/22/2005	10/13/2005	7/21/2005	7/22/2005	7/22/2005	7/21/2005	7/22/2005	7/22/2005	10/13/2005	10/11/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)														
Naphthalene	13,000	190,000	U 300	U 260	U 140	J 260	U 110	J 120	J 750	200	J 270	U 110	J 250	J 340
2-Methylnaphthalene	36400	NA	U 300	U 260	U 62	J 260	U 120	J 110	J 730	150	J 270	U 120	J 250	J 340
Acenaphthylene	41,000	NA	U 120	J 170	J 210	J 61	J 1300	1300	1700	1100	620	880	320	200
Acenaphthene	50,000	29,000,000	U 300	U 130	J 280	260	U 180	J 220	J 640	280	270	U 110	J 180	J 110
Flourene	50,000	26,000,000	U 300	U 130	J 280	260	U 250	J 290	1100	360	65	J 81	J 260	J 120
Phenanthrene	50,000	NA	U 280	J 1400	2200	180	J 1700	2300	7400	2400	690	1200	1400	1200
Anthracene	50,000	100,000,000	U 94	J 500	760	58	J 1400	1500	3200	1400	550	810	600	390
Flouranthene	50,000	22,000,000	J 480	2500	3100	330	4000	5000	9500	3900	2000	2500	1900	2300
Pyrene	50,000	29000000	J 450	2200	2700	300	4300	5200	10000	4100	2300	3000	1900	2000
Benz(a)anthracene	224	2100	U 260	J 1500	1800	150	J 2700	3100	5600	2500	1500	1800	1100	1200
Chrysene	400	210,000	U 250	J 1300	1600	250	J 2700	2900	5300	2400	1300	1600	1100	1300
Benzo(b)fluoranthene	1,100	2,100	U 320	1900	2500	260	J 4400	4600	6900	3600	2200	2600	1500	2100
Benzo(k)fluoranthene	1,100	21,000	U 130	J 610	920	98	J 1600	1600	2500	1200	630	890	450	550
Benzo(a)pyrene	61	210	U 260	J 1400	1800	140	J 3700	3800	5800	3000	1800	2200	1200	1500
Dibenzo(a,h)anthracene	14	210	U 64	J 250	340	260	U 600	590	790	480	130	J 160	J 220	J 290
Indeo(1,2,3-cd)pyrene	3,200	2,100	U 190	J 800	980	140	J 2200	2200	2800	1700	1100	150	720	890
Benzo(g,h,i)perylene	50,000	NA	U 310	1000	1300	140	J 2800	2900	3500	2300	1600	2100	770	970
^f Bezo(a)pyrene TEQ	10,000	NA	404.8	2089.1	2693.2	458.48	5273	5425	8198	4296	2429.3	2839.9	1767.5	2227.5
ICP Metals (mg/Kg - dry)														
Arsenic	8.24	1.6	8.23	7.11	8.73	9.34	J 8.28	8.24	10	8.56	8.31	8.43	10.5	7.41
Barium	300	67,000	90.1	90.8	80.8	50.4	115	79.1	92.5	79	92.1	77.5	95.7	78.9
Cadmium	2.3	450	J 0.237	J 0.237	J 0.155	J 0.648	U 0.319	J 0.246	J 2.3	0.161	J 0.0997	J 0.206	J 0.168	J 0.119
Chromium	29	450	16.2	13.2	11.4	25.4	18.1	23.7	26.2	23.4	19.5	20	18.7	17.2
Copper	29.6	41,000	36.5	28.9	26.1	33.7	26.6	24	60.8	26.6	25.6	23.7	24.6	30.8
Lead	400	800	32.5	31.6	26.5	25.6	52	41.1	997	79.3	36.1	31.5	41.4	46.4
Selenium	2	5,100	J 8.5	J 15.3	16.4	J 10.6	J 14.5	J 15.1	J 10.7	J 12.5	J 12	J 14	J 13.9	J 29.1
Silver	0.763	5,100	2.08	1.54	J 1.25	J 0.356	J 0.99	J 0.946	1.03	J 0.933	J 1.16	J 1.07	J 0.482	J 1.79
Zinc	108.9	100,000	107	72.8	63.6	64.7	107	86.1	119	125	111	97.7	99.1	100
Mercury (mg/Kg - dry)														
Mercury	0.13	310	0.59	0.543	0.361	0.0229	0.149	0.0966	0.0796	0.275	0.172	0.158	0.206	0.439

Table A-8
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Downgradient Delineation Samples - July and October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil) *	SEAD5-PX-SS-84-FS2	SEAD5-PX-SS-84-FS3	SEAD5-PX-SS-85-FS1	SEAD5-PX-SS-85-DUP1	SEAD5-PX-SS-85-FS2	SEAD5-PX-SS-86-FS1	SEAD5-PX-SS-86-FS2	SEAD5-PX-SS-87-FS1	SEAD5-PX-SS-87-FS2	SEAD5-PX-SS-88-FS1	SEAD5-PX-SS-88-FS2	SEAD5-PX-SS-89-FS1	SEAD5-PX-SS-89-FS2
Sampling Depth			6" - 12"	12" - 18"	0" - 6"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"
Sampling Date			10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)															
Naphthalene	13,000	190,000	310 U	110 J	310 U	310 U	87 J	300 U	320 U	330 U	290 U	290 U	280 U	290 U	810 U
2-Methylnaphthalene	36400	NA	310 U	300 U	310 U	310 U	300 U	300 U	320 U	330 U	290 U	290 U	280 U	290 U	450 U
Acenaphthylene	41,000	NA	120 J	81 J	110 J	82 J	110 J	300 U	320 U	330 U	290 U	290 U	280 U	250 J	960 U
Acenaphthene	50,000	29,000,000	78 J	200 J	96 J	76 J	190 J	300 U	320 U	330 U	290 U	290 U	280 U	180 J	2100 U
Flourene	50,000	26,000,000	100 J	180 J	100 J	73 J	210 J	300 U	320 U	330 U	290 U	290 U	280 U	310 U	3500 U
Phenanthrene	50,000	NA	1100	1900	1100	680	1800	300 U	320 U	80 J	290 U	290 U	280 U	3700	34000
Anthracene	50,000	100,000,000	280 J	420 J	380	210 J	500	300 U	320 U	330 U	290 U	290 U	280 U	1100	9300
Flouranthene	50,000	22,000,000	1900	2900	2700	1200	2600	300 U	320 U	180 J	290 U	290 U	280 U	6700	46000
Pyrene	50,000	29000000	1700	2500	2500	1200	2400	300 U	320 U	170 J	290 U	290 U	280 U	5600	33000
Benz(a)anthracene	224	2100	990	1400	1800	740	1500	300 U	320 U	93 J	290 U	290 U	280 U	3400	20000
Chrysene	400	210,000	990	1400	1800	660	1200	300 U	320 U	110 J	290 U	290 U	280 U	2900	17000
Benzo(b)fluoranthene	1,100	2,100	1500	1700	3200	1000	1900	300 U	320 U	140 J	290 U	290 U	280 U	4200	23000
Benzo(k)fluoranthene	1,100	21,000	430	530	870	290 J	580	300 U	320 U	65 J	290 U	290 U	280 U	1300	6300
Benzo(a)pyrene	61	210	1100	1300	2400	700	1400	300 U	320 U	110 J	290 U	290 U	280 U	3100	17000
Dibenzo(a,h)anthracene	14	210	180	280 J	480	140 J	250 J	300 U	320 U	330 U	290 U	290 U	280 U	540	3500
Indeo(1,2,3-cd)pyrene	3,200	2,100	600	740	1300	430	770	300 U	320 U	69 J	290 U	290 U	280 U	1800	9800
Benzo(g,h,i)perylene	50,000	NA	670	800	1500	450	820	300 U	320 U	78 J	290 U	290 U	280 U	1800	9500
Benzo(a)pyrene TEQ	10,000	NA	1603.2	1983.3	3536.7	1066.5	2084.8	696	742.4	471.95	672.8	672.8	649.6	4622	26013
ICP Metals (mg/Kg - dry)															
Arsenic	8.24	1.6	8.56	10	9.9	8.88	10	8.28	7.21 J	8.1 J	8.42	6.31 J	6.92 J	7.17	11.2
Barium	300	67,000	89.8	84.9	111	95.1	92.4	97.2	133	91	85.7	82.3	115	64.4	75.3
Cadmium	2.3	450	0.138 J	0.339 J	0.111 J	0.0929 J	0.764 U	0.75 U	0.752 U	0.836 U	0.759 U	0.698 U	0.73 U	0.0551 J	0.0151 J
Chromium	29	450	23.6	16.5	23.6	20.8	19.7	22.6	19.7	21.6	22.8	16.4	23.6	17.2	15.5
Copper	29.6	41,000	26.8	32.7	34.8	31.7	25.6	20.3	18.6	25.6	21	20.4	14.2	19.4	30
Lead	400	800	93	64.5	112	113	64.4	18.1	14.4	55.3	14	50.1	14.7	36	56.5
Selenium	2	5,100	31	1.5 U	32.1	3.99 J	18.1 J	16.2 J	11.7 J	37.2	12	30.4	38.9	2.66 J	21.2
Silver	0.763	5,100	2.14 U	0.783 J	2.18 U	2.03 U	2.14 U	0.244 J	0.194 J	2.34 U	0.215 J	1.95 U	2.04 U	0.405 J	1.93 U
Zinc	108.9	100,000	113	98.5	105	94.7	82.8	89.5	122	97.3	87.9	79	72.3	80.4	79.5
Mercury (mg/Kg - dry)															
Mercury	0.13	310	0.256	0.129	0.169	0.135	0.0961	0.0699	0.0673	0.138	0.0479 J	0.111	0.0623	0.0669	0.0567

Table A-8
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Downgradient Delineation Samples - July and October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil) *	SEAD5-PX-SS-89-FS3	SEAD5-PX-SS-90-FS1	SEAD5-PX-SS-90-DUP1	SEAD5-PX-SS-90-FS2	SEAD5-PX-SS-91-FS1	SEAD5-PX-SS-91-FS2	SEAD5-PX-SS-91-FS3	SEAD5-PX-SS-92-FS1	SEAD5-PX-SS-92-FS2	SEAD5-PX-SS-93-FS1	SEAD5-PX-SS-93-FS2	SEAD5-PX-SS-94-FS1
Sampling Depth			12" - 18"	0" - 6"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	12" - 18"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"
Sampling Date			10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)														
Naphthalene	13,000	190,000	540	290	U 1100	130	J 390	U 330	U 300	U 280	U 330	U 340	U 330	U 270
2-Methylnaphthalene	36400	NA	380	290	U 400	270	U 390	U 330	U 300	U 280	U 330	U 340	U 330	U 270
Acenaphthylene	41,000	NA	1400	290	U 83	J 72	J 390	U 330	U 64	J 280	U 330	U 340	U 330	U 180
Acenaphthene	50,000	29,000,000	1900	290	U 1000	220	J 390	U 330	U 300	U 280	U 330	U 340	U 330	U 110
Flourene	50,000	26,000,000	5600	290	U 1100	220	J 390	U 330	U 300	U 280	U 330	U 340	U 330	U 140
Phenanthrene	50,000	NA	54000	470	8100	2100	J 150	J 150	J 100	J 280	U 330	U 68	J 330	U 2100
Anthracene	50,000	100,000,000	15000	140	J 2100	670	J 390	U 330	U 300	U 280	U 330	U 340	U 330	U 580
Flouranthene	50,000	22,000,000	55000	850	9300	3300	J 340	J 290	J 200	J 62	J 330	U 130	J 330	U 3900
Pyrene	50,000	29000000	45000	760	7800	2900	J 320	J 240	J 190	J 280	U 330	U 120	J 330	U 3400
Benz(a)anthracene	224	2100	24000	490	4800	1800	J 190	J 160	J 120	J 280	U 330	U 81	J 330	U 2100
Chrysene	400	210,000	18000	460	4000	1600	J 210	J 160	J 120	J 280	U 330	U 86	J 330	U 1900
Benzo(b)fluoranthene	1,100	2,100	26000	560	4800	2000	J 270	J 180	J 140	J 58	J 330	U 100	J 330	U 2900
Benzo(k)fluoranthene	1,100	21,000	8500	270	J 1900	800	J 110	J 88	J 70	J 280	U 330	U 340	U 330	U 880
Benzo(a)pyrene	61	210	19000	470	3800	1600	J 200	J 150	J 130	J 280	U 330	U 340	U 330	U 2100
Dibenzo(a,h)anthracene	14	210	3700	J 80	J 730	290	J 390	U 330	U 300	U 280	U 330	U 340	U 330	U 150
Indeo(1,2,3-cd)pyrene	3,200	2,100	11000	280	J 2000	870	J 120	J 93	J 65	J 280	U 330	U 340	U 330	U 1300
Benzo(g,h,i)perylene	50,000	NA	11000	290	2000	900	J 150	J 96	J 96	J 280	U 330	U 74	J 330	U 1700
Bezo(a)pyrene TEQ	10,000	NA	29065	690.3	5749	2381	651.2	525.78	464.4	627.4	765.6	736.36	765.6	2907.8
ICP Metals (mg/Kg - dry)														
Arsenic	8.24	1.6	11.5	8.55	7.93	8.3	7.35	J 6.09	J 9.29	7.37	7.76	J 9.89	7.45	J 8.2
Barium	300	67,000	89.3	90.9	75.5	64.6	91.3	102	64.6	85.3	132	129	79.6	74.6
Cadmium	2.3	450	0.31	J 0.0209	J 0.699	U 0.683	U 0.934	U 0.0445	J 0.247	J 0.708	U 0.815	U 0.162	J 0.817	U 0.0773
Chromium	29	450	20.2	17.2	22.3	15.7	16.3	19.3	15.2	22.8	27.8	25.4	20.7	20.2
Copper	29.6	41,000	22.1	25.7	26.3	22.2	26.8	23.9	19.1	20.3	20	23.9	24.5	33.8
Lead	400	800	37.7	33.8	43.3	28.9	78.3	57.8	42.9	21.6	13.4	61.1	14.7	37.2
Selenium	2	5,100	1.5	U 28.7	28.4	15.3	J 35.7	31.9	1.5	U 23.9	44	J 40.4	40.7	38.9
Silver	0.763	5,100	0.558	J 1.95	U 1.96	U 1.91	U 2.61	U 2.29	U 0.427	J 1.98	U 2.28	U 2.28	U 2.29	J 2.28
Zinc	108.9	100,000	113	80.4	83.8	63.5	82.2	81.9	68.4	75.2	79.7	116	75.6	124
Mercury (mg/Kg - dry)														
Mercury	0.13	310	0.0702	0.125	0.146	0.0821	0.164	0.136	0.0911	0.0848	0.0743	0.153	0.0306	0.49

Table A-8
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Downgradient Delineation Samples - July and October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil) *	SEAD5-PX-SS-94-FS2	SEAD5-PX-SS-94-DUP2	SEAD5-PX-SS-95-FS1	SEAD5-PX-SS-95-FS2	SEAD5-PX-SS-96-FS1	SEAD5-PX-SS-96-FS2	SEAD5-PX-SS-97-FS1	SEAD5-PX-SS-97-FS2	SEAD5-PX-SS-98-FS1	SEAD5-PX-SS-98-FS2	SEAD5-PX-SS-99-FS1	SEAD5-PX-SS-99-FS2	SEAD5-PX-SS-100-FS1
Sampling Depth			6" - 12"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"
Sampling Date			10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/11/2005	10/12/2005	10/12/2005	10/12/2005
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polyaromatic Hydrocarbons (ug/Kg - dry)															
Naphthalene	13,000	190,000	160	J 87	J 82	J 290	U 290	U 300	U 370	U 280	U 290	U 290	U 130	J 100	J 230
2-Methylnaphthalene	36400	NA	72	J 270	U 130	J 290	U 290	U 300	U 370	U 280	U 290	U 290	U 120	J 130	J 340
Acenaphthylene	41,000	NA	160	J 260	J 98	J 110	J 72	J 300	U 86	J 280	U 290	U 290	U 440	860	U 980
Acenaphthene	50,000	29,000,000	330	300	300	U 290	U 290	U 300	U 370	U 280	U 290	U 290	U 72	J 270	J 1500
Flourene	50,000	26,000,000	390	390	300	U 290	U 62	J 300	U 370	U 280	U 290	U 290	U 89	J 320	2200
Phenanthrene	50,000	NA	3200	3400	490	320	480	180	J 250	J 87	J 290	U 290	U 730	2400	24000
Anthracene	50,000	100,000,000	940	1000	150	J 120	J 150	J 59	J 94	J 280	U 290	U 290	U 390	1100	6700
Flouranthene	50,000	22,000,000	4100	4900	960	770	650	350	570	170	J 290	U 290	U 1500	4500	36000
Pyrene	50,000	29000000	3600	4200	890	720	570	290	J 520	160	J 290	U 290	U 1600	4600	29000
Benz(a)anthracene	224	2100	2100	2700	550	480	350	200	J 340	120	J 290	U 290	U 1000	2400	17000
Chrysene	400	210,000	1900	2100	530	430	300	190	J 300	J 110	J 290	U 290	U 960	2400	13000
Benzo(b)fluoranthene	1,100	2,100	2700	3100	730	700	450	280	J 430	150	J 290	U 290	U 1500	3800	17000
Benzo(k)fluoranthene	1,100	21,000	740	1100	260	J 180	J 130	J 82	J 180	J 64	J 290	U 290	U 630	1000	5500
Benzo(a)pyrene	61	210	1900	2300	550	470	320	190	J 340	J 110	J 290	U 290	U 1300	3000	13000
Dibenzo(a,h)anthracene	14	210	370	480	110	J 97	J 88	J 300	U 370	U 280	U 290	U 290	U 210	460	2600
Indeo(1,2,3-cd)pyrene	3,200	2,100	1100	1400	310	280	J 190	J 110	J 200	J 85	J 290	U 290	U 860	1900	6300
Benzo(g,h,i)perylene	50,000	NA	1200	1500	330	290	210	J 120	J 220	J 85	J 290	U 290	U 1000	2100	6200
¹ Bezo(a)pyrene TEQ	10,000	NA	2886.4	3532	826.9	719.1	511.3	551.72	811.8	427.24	672.8	672.8	1861.9	4304	19815
ICP Metals (mg/Kg - dry)															
Arsenic	8.24	1.6	8.88	8.41	8.31	4.72	J 5.53	J 8.72	8.46	J 8.35	6.41	8.17	7.97	7.36	J 8.33
Barium	300	67,000	83	76.5	77.3	43.2	62	76.1	93.7	60	95.6	88	102	96.1	93.7
Cadmium	2.3	450	0.0212	J 0.0682	J 0.723	U 0.696	U 0.749	U 0.749	U 0.905	U 0.679	U 0.702	U 0.706	U 0.0665	J 0.282	J 0.761
Chromium	29	450	18	18.8	23.3	9.88	22.3	19.8	22.6	19.9	19.9	18.7	20.8	17.7	20.2
Copper	29.6	41,000	20.4	20.4	24.9	6.7	25.7	23.2	29.9	17.4	13.7	20.4	28.6	32.5	19.4
Lead	400	800	37.4	37	44.5	17.4	114	48.6	67.7	28.4	15.4	13.1	44.1	47.7	38.1
Selenium	2	5,100	15.9	U 19.4	32.4	19.8	J 26.7	24.4	42.8	32	33.3	33	14.2	J 16.7	U 28.5
Silver	0.763	5,100	1.85	U 1.81	U 2.02	U 1.95	U 2.1	U 2.1	U 2.53	U 1.9	U 1.97	U 1.98	U 2.04	U 0.326	J 2.13
Zinc	108.9	100,000	72.8	77.8	87.7	33.7	105	J 82.9	J 123	105	60.7	68.4	122	101	93.4
Mercury (mg/Kg - dry)															
Mercury	0.13	310	0.0807	0.0581	0.103	0.056	0.0572	0.0585	0.0777	0.0594	0.0607	0.0266	0.241	0.0863	0.0925

Table A-8
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Downgradient Delineation Samples - July and October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil) *		SEAD5-PX-SS-100-FS2	SEAD5-PX-SS-100-FS3	SEAD5-PX-SS-101-FS1	SEAD5-PX-SS-101-FS2	SEAD5-PX-SS-102-FS1	SEAD5-PX-SS-102-FS2	SEAD5-PX-SS-102-DUP2	SEAD5-PX-SS-103-FS1	SEAD5-PX-SS-103-FS2	SEAD5-PX-SS-104-FS1	SEAD5-PX-SS-104-FS2	SEAD5-PX-SS-104-FS3										
Sampling Depth				6" - 12"	12" - 18"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	12" - 18"										
Sampling Date				10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005										
Matrix				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil										
Polyaromatic Hydrocarbons (ug/Kg - dry)																									
Naphthalene	13,000	190,000	J	2400	5800	320	U	70	J	92	J	280	U	280	U	310	U	58	J	120	J	65	J	270	U
2-Methylnaphthalene	36400	NA		780	1800	320	U	300	U	80	J	280	U	280	U	310	U	280	U	110	J	290	U	270	U
Acenaphthylene	41,000	NA		220	590	130	J	200	J	370		110	J	280	U	270	J	130	J	720	J	340		270	U
Acenaphthene	50,000	29,000,000		2800	5900	100	J	180	J	280	J	88	J	280	U	89	J	120	J	290	J	110	J	270	U
Flourene	50,000	26,000,000		3000	5100	110	J	200	J	390		90	J	280	U	180		140	J	360		130	J	270	U
Phenanthrene	50,000	NA		20000	44000	1300		2000		5700		700		130	J	1800		1300		3100		900		93	J
Anthracene	50,000	100,000,000		5800	9900	360		590		1400		220	J	280	U	480		310		1200		450		270	U
Flouranthene	50,000	22,000,000		22000	52000	2700		4100		8600		1200		260	J	3200		2400	J	4900		1800		130	J
Pyrene	50,000	29000000		19000	43000	2300		3700		7100		1000		230	J	2800		2100	J	5000		2100		120	J
Benz(a)anthracene	224	2100		11000	26000	1400		2500		4100		640		150	J	1600		1200		2700		1300		77	J
Chrysene	400	210,000		9400	21000	1300		2000		3600		580		140	J	1700		1300		2500		1100		67	J
Benzo(b)fluoranthene	1,100	2,100		13000	30000	1900		2800		4900		750		220	J	2200		1700		3800		1800		91	J
Benzo(k)fluoranthene	1,100	21,000		3600	12000	600		1100		1400		270	J	74	J	770		630	U	1100		500		270	U
Benzo(a)pyrene	61	210		9900	24000	1300		2200		3400		600		140	J	1600		1200		3000		1400		74	J
Dibenzo(a,h)anthracene	14	210		1700	4900	220	J	400		610		120	J	280	U	310		230	J	490		260	J	270	U
Indeo(1,2,3-cd)pyrene	3,200	2,100		5200	13000	750		1200		1900		360		98	J	910		720		1800		820		270	U
Benzo(g,h,i)perylene	50,000	NA		5400	14000	800		1200		1900		360		100	J	950		810		2100		940		270	U
^f Bezo(a)pyrene TEQ	10,000	NA		14650	36130	1944		3281		5150		903.5		468.94		2405.7		1811.3		4356		2068		391.17	
ICP Metals (mg/Kg - dry)																									
Arsenic	8.24	1.6		8.87	13.1	9.31		10.2		9.26		8.6		9.76		8.25		8.44		7.02	J	8.33		12.1	
Barium	300	67,000		96.4	236	104		118		94.2		85.6		80		107		68		73.6		81.8		67.4	
Cadmium	2.3	450	U	0.0826	2.35	0.0393	J	0.0786	J	0.749	U	0.711	U	0.706	U	0.0505	J	0.7	U	0.729	J	0.715	U	0.181	J
Chromium	29	450		22.2	28.7	21.9		23.7		21.7		21.8		20.3		22.5		20.5		19.6		20.9		15.8	
Copper	29.6	41,000		22.3	20.4	23.9		22.5		24.5		20		20.6		25		22.2		23.7		26.9		20.6	
Lead	400	800		33.3	79.2	52.2		42.5		47.3		32.2		29.7		63.1		72.5		61.6		35.5		16.8	
Selenium	2	5,100		17.5	1.4	38.3	U	31.4	J	4.2	J	36.3	J	26.4		38		8.76	J	18.1	U	9.03	J	1.4	U
Silver	0.763	5,100	U	2.02	0.669	2.31	U	2.06	U	2.1	U	1.99	U	1.98	U	2.1		0.355	J	2.11	U	2	U	0.803	J
Zinc	108.9	100,000		82.9	140	105		101		93.1		102		84.8		111		102		96.3		90.3		68.3	
Mercury (mg/Kg - dry)																									
Mercury	0.13	310		0.0377	0.0579	0.0846		0.0527		0.0745		0.0346		0.0167		0.106		0.0802		0.0295		0.136		0.0593	

Table A-8
Seneca Army Depot Activity
Analytical Summary of SEAD 5 Downgradient Delineation Samples - July and October 2005

Analyte	Recommended Soil Cleanup Objective (NY TAGM) ¹	EPA Region 9 Preliminary Remediation Goals (PRGs) (Industrial Soil) *	SEAD5-PX-SS-105-FS1	SEAD5-PX-SS-105-FS2	SEAD5-PX-SS-106-FS1	SEAD5-PX-SS-106-FS2	SEAD5-PX-SS-107-FS1	SEAD5-PX-SS-107-FS2	SEAD5-PX-SS-108-FS1	SEAD5-PX-SS-108-FS2	SEAD5-PX-SS-108-FS3	Avg Result	Max Result	No. Exceedances (vs. NY TAGM)	No. Exceedances (vs. Region 9 PRGs)									
Sampling Depth			0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	0" - 6"	6" - 12"	12" - 18"													
Sampling Date			10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/12/2005	10/13/2005	10/13/2005	10/12/2005													
Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil													
Polyaromatic Hydrocarbons (ug/Kg - dry)																								
Naphthalene	13,000	190,000	320	U	290	U	300	U	300	U	56000	950	300	U	290	U	99	J	1029.0595	56000	1	0		
2-Methylnaphthalene	36400	NA	320	U	290	U	300	U	300	U	28000	380	300	U	290	U	75	J	625.22619	28000	0	0		
Acenaphthylene	41,000	NA	320	U	290	U	300	U	300	U	9500	430	65	J	290	U	360		498.44048	9500	0	0		
Acenaphthene	50,000	29,000,000	320	U	290	U	300	U	300	U	110000	1300	110	J	290	U	390		1747.4881	110000	1	0		
Flourene	50,000	26,000,000	320	U	290	U	300	U	300	U	140000	1400	96	J	290	U	480		2596.8571	140000	1	0		
Phenanthrene	50,000	NA	440		200	J	370		350		888000	12000	1200		290		5800		14571.774	888000	2	0		
Anthracene	50,000	100,000,000	130	J	65		110	J	97	J	290000	3300	320		83	J	1300		5214.1548	290000	1	0		
Flouranthene	50,000	22,000,000	820		460		760		530		890000	16000	2100		600		9200		16262.905	890000	3	0		
Pyrene	50,000	29000000	730		420		680		470		740000	15000	1800		510		7800		13587.286	740000	1	0		
Benz(a)anthracene	224	2100	450		250	J	430		290	J	400000	8800	1000		310		4200		7652.631	400000	73	24		
Chrysene	400	210,000	460		240	J	410		250	J	350000	7300	950		300		4100		6748.0119	350000	55	1		
Benzo(b)fluoranthene	1,100	2,100	660		380		510		370		400000	11000	1400		420		5400		8005.2262	400000	48	33		
Benzo(k)fluoranthene	1,100	21,000	200	J	110	J	260	J	97		130000	2800	470		150		2300		2884.5	130000	18	2		
Benzo(a)pyrene	61	210	460		250	J	400		250	J	310000	7700	970		320		4100		6129.0952	310000	84	73		
Dibenzo(a,h)anthracene	14	210	71	J	290	U	75	J	300	U	66000	1100	190	J	62	J	840		1448.6786	66000	84	66		
Indeo(1,2,3-cd)pyrene	3,200	2,100	270	J	160	J	240	J	150	J	140000	4200	580		200		2500		3200.2857	140000	9	14		
Benzo(g,h,i)perylene	50,000	NA	310	J	160	J	270	J	160	J	130000	4200	620		190		2600		3075.131	130000	1	0		
^f Bezo(a)pyrene TEQ	10,000	NA	675.6		622.5		599.7		634.47		474800	11301	1472.2		479.5		6214		9559.9132	474800	9	0		
ICP Metals (mg/Kg - dry)																								
Arsenic	8.24	1.6	7.91		7.28		8.23		8.92		9.58		6.9		10.3		8.6		11.1		8.6054762	13.1	52	84
Barium	300	67,000	90.2		86.2		73.5		81.1		63.9		71.5		68		65.7		97.9		87.636905	236	0	0
Cadmium	2.3	450	0.116	J	0.708	U	0.732	U	0.728	U	0.661	U	0.114	J	0.107	J	0.0324	J	0.321	J	0.4276024	2.35	1	0
Chromium	29	450	17.9		21		17.2		19.1		20.3		17.9		19.1		21.3		17		19.924643	44.6	1	0
Copper	29.6	41,000	25.2		22.1		22.4		22.2		25.3		27.2		26.5		28.9		26.4		25.145238	60.8	15	0
Lead	400	800	46.7		37.7		43.7		39.7		39.6		28.3		60		47.5		94		57.57381	997	1	1
Selenium	2	5,100	31.6		20.1		34.6		17.5	U	5.64	J	16.1	U	14		11.9	J	1.5	U	19.927143	44	78	0
Silver	0.763	5,100	2.19	U	1.98	U	2.05	U	2.04	U	1.85	U	0.318	J	1.1		0.847	J	0.659	J	1.5171071	2.61	69	0
Zinc	108.9	100,000	93.8		86.8		76.4		75.9		75.7		79.7		74.8		71.6		75.7		88.394048	140	12	0
Mercury (mg/Kg - dry)																								
Mercury	0.13	310	0.0822		0.0501		0.0632		0.104		0.0214		0.0198		0.224		0.224		0.0879		0.1216548	0.59	25	0