

Appendix D

CHEMICAL ANALYTICAL REPORT
AND
CHAIN OF CUSTODY FORMS

Submitted to:

U.S. Army Corps of Engineers

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APCL Analytical Report

Service ID #: 801-036230

Collected by: BV/TC

Collected on: 11/19/03

Received: 11/20/03

Extracted: 11/24/03

Tested: 11/20-12/02/03

Reported: 12/10/03

Sample Description: Soil from Hamilton AAF

Project Description: Northwest Alleged Disposal Area

Analysis of Soil Samples

Component Analyzed	Method	Unit	Analysis Result				
			PQL	MDL	HAAF-ADA-21-14	HAAF-ADA-201-06	HAAF-ADA-201-14
					03-06230-1	03-06230-2	03-06230-3
MOISTURE	ASTM-D2216	%Moisture	0.5	0.10	46.6	49.8	45.3
PH	9045C	pH unit	0.01	0.01	7.66	7.27	7.93
TTLC 17 METALS							
Dilution Factor					1	1	1
ANTIMONY	SW6010B	mg/kg	3	0.11	<5.6	<6.0	<5.5
ARSENIC	SW6010B	mg/kg	5	0.099	5.4J	9.8J	5.9J
BARIUM	SW6010B	mg/kg	100	0.074	43.5J	43.6J	43.3J
BERYLLIUM	SW6010B	mg/kg	0.5	0.004	<0.94	<1.0	0.10J
CADMIUM	SW6010B	mg/kg	0.5	0.011	0.11J	0.25J	0.12J
CHROMIUM	SW6010B	mg/kg	10	0.051	82.9	91.0	76.9
COBALT	SW6010B	mg/kg	10	0.020	18.1J	19.4J	17.2J
COPPER	SW6010B	mg/kg	10	0.088	33.7	38.0	37.1
LEAD	SW6010B	mg/kg	20	0.050	9.2J	9.7J	10.8J
MERCURY	SW7471A	mg/kg	0.1	0.007	0.10J	0.13J	0.11J
MOLYBDENUM	SW6010B	mg/kg	2	0.040	<3.7	<4.0	<3.7
NICKEL	SW6010B	mg/kg	10	0.056	81.7	90.3	80.1
SELENIUM	SW6010B	mg/kg	0.5	0.069	2.7	2.3	0.77J
SILVER	SW6010B	mg/kg	0.5	0.030	<0.94	<1.0	<0.91
THALLIUM	SW6010B	mg/kg	10	0.062	<19	<20	<18
VANADIUM	SW6010B	mg/kg	10	0.028	69.8	74.9	65.7
ZINC	SW6010B	mg/kg	10	0.14	80.0	88.4	80.7
Dilution Factor					1.11	1.85	1.51
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.03J	0.07J	0.05J
Dilution Factor					1	1	1
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	3J (a)	4J (a)	4J (a)

APCL Analytical Report

Analysis Result

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-21-14 03-06230-1	HAAF-ADA-201-06 03-06230-2	HAAF-ADA-201-14 03-06230-3
VOLATILE ORGANICS							
Dilution Factor					1.1	1.68	1.61
ACETONE	SW8260B	µg/kg	50	6.8	25J	72J	44J
BENZENE	SW8260B	µg/kg	5	0.21	<10	<17	<15
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	<10	<17	<15
BROMOFORM	SW8260B	µg/kg	5	0.40	<10	<17	<15
BROMOMETHANE	SW8260B	µg/kg	5	0.59	<10	<17	<15
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	<210	13J	<290
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	8J	<17	6J
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	<10	<17	<15
CHLOROBENZENE	SW8260B	µg/kg	5	0.28	<10	<17	<15
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	<10	<17	<15
CHLOROETHANE	SW8260B	µg/kg	5	0.75	<10	<17	<15
CHLOROFORM	SW8260B	µg/kg	5	0.46	<10	<17	<15
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	<10	<17	<15
1,2-DICHLOROENZENE	SW8260B	µg/kg	5	0.19	<10	<17	<15
1,3-DICHLOROENZENE	SW8260B	µg/kg	5	0.29	<10	<17	<15
1,4-DICHLOROENZENE	SW8260B	µg/kg	5	0.20	<10	<17	<15
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	<10	<17	<15
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.30	<10	<17	<15
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	<10	<17	<15
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	<10	<17	<15
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	<10	<17	<15
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	<10	<17	<15
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	<10	<17	<15
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	<10	<17	<15
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	<10	<17	<15
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	<10	<17	<15
2-HEXANONE	SW8260B	µg/kg	10	0.25	<21	<33	<29
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	6J	9J	9J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	<100	<170	<150
STYRENE	SW8260B	µg/kg	5	0.25	<10	<17	<15
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	<10	<17	<15
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	<10	<17	<15
TOLUENE	SW8260B	µg/kg	5	0.57	<10	<17	<15
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	<10	<17	<15
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	<10	<17	<15
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	<10	<17	<15
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	<10	<17	<15
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	<21	<33	<29
VINYL ACETATE	SW8260B	µg/kg	10	0.98	<21	<33	<29
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	<10	<17	<15
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	<31	<50	<44

APCL Analytical Report

Analysis Result

Component Analyzed	Method	Unit	PQL	MDL	HAAF-ADA-21-14	HAAF-ADA-201-06	HAAF-ADA-201-14
					03-06230-1	03-06230-2	03-06230-3

SEMI-VOC COMPOUNDS

					1	1	1
Dilution Factor							
ACENAPHTHENE	SW8270C	µg/kg	330	25	< 620	< 660	< 600
ACENAPHTHYLENE	SW8270C	µg/kg	330	22	< 620	< 660	< 600
ANTHRACENE	SW8270C	µg/kg	330	28	< 620	< 660	< 600
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	21	< 620	< 660	< 600
BENZO(A)PYRENE	SW8270C	µg/kg	330	24	< 620	< 660	< 600
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	25	< 620	< 660	< 600
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	37	< 620	< 660	< 600
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	27	< 620	< 660	< 600
BENZYL ALCOHOL	SW8270C	µg/kg	28 ^(b)	28	< 52	< 56	< 51
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	330	24	< 620	< 660	< 600
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	39	< 620	< 660	< 600
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	25	< 620	< 660	< 600
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	27	< 620	< 660	< 600
4-BROMOPHENYL-PHENYLETHER	SW8270C	µg/kg	330	33	< 620	< 660	< 600
BUTYLBENZYLPHTHALATE	SW8270C	µg/kg	330	23	< 620	< 660	< 600
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	25	< 620	< 660	< 600
4-CHLOROANILINE	SW8270C	µg/kg	100 ^(b)	101	< 190	< 200	< 180
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	32	< 620	< 660	< 600
2-CHLOROPHENOL	SW8270C	µg/kg	330	29	< 620	< 660	< 600
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	28	< 620	< 660	< 600
CHRYSENE	SW8270C	µg/kg	330	26	< 620	< 660	< 600
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	34	< 620	< 660	< 600
DI-N-OCTYLPHTHALATE	SW8270C	µg/kg	330	25	< 620	< 660	< 600
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	31	< 620	< 660	< 600
DIBENZOFURAN	SW8270C	µg/kg	330	25	< 620	< 660	< 600
1,2-DICHLOROENZENE	SW8270C	µg/kg	330	26	< 620	< 660	< 600
1,3-DICHLOROENZENE	SW8270C	µg/kg	330	22	< 620	< 660	< 600
1,4-DICHLOROENZENE	SW8270C	µg/kg	330	18	< 620	< 660	< 600
3,3'-DICHLOROENZIDINE	SW8270C	µg/kg	130 ^(b)	130	< 240	< 260	< 240
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	18	< 620	< 660	< 600
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	25	< 620	< 660	< 600
DIETHYL PHTHALATE	SW8270C	µg/kg	330	33	< 620	< 660	< 600
DIMETHYLPHTHALATE	SW8270C	µg/kg	330	35	< 620	< 660	< 600
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	20	< 620	< 660	< 600
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	93	< 3100	< 3300	< 3000
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	131	< 3100	< 3300	< 3000
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	24	< 620	< 660	< 600
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	27	< 620	< 660	< 600
FLUORANTHENE	SW8270C	µg/kg	330	27	< 620	< 660	< 600
FLUORENE	SW8270C	µg/kg	330	28	< 620	< 660	< 600
HEXACHLOROENZENE	SW8270C	µg/kg	330	33	< 620	< 660	< 600
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	27	< 620	< 660	< 600

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-21-14	HAAF-ADA-201-06	HAAF-ADA-201-14
					03-06230-1	03-06230-2	03-06230-3
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	140 ^(b)	140	< 260	< 280	< 260
HEXACHLOROETHANE	SW8270C	µg/kg	330	28	< 620	< 660	< 600
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	31	< 620	< 660	< 600
ISOPHORONE	SW8270C	µg/kg	330	29	< 620	< 660	< 600
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	25	< 620	< 660	< 600
3/4-METHYLPHENOL	SW8270C	µg/kg	330	36	< 620	< 660	< 600
2-METHYLPHENOL	SW8270C	µg/kg	330	28	< 620	< 660	< 600
NAPHTHALENE	SW8270C	µg/kg	330	22	< 620	< 660	< 600
2-NITROANILINE	SW8270C	µg/kg	3300	111	< 6200	< 6600	< 6000
3-NITROANILINE	SW8270C	µg/kg	1700	109	< 3100	< 3300	< 3000
4-NITROANILINE	SW8270C	µg/kg	1700	122	< 3100	< 3300	< 3000
NITROBENZENE	SW8270C	µg/kg	330	23	< 620	< 660	< 600
2-NITROPHENOL	SW8270C	µg/kg	330	18	< 620	< 660	< 600
4-NITROPHENOL	SW8270C	µg/kg	1700	161	< 3100	< 3300	< 3000
N-NITROSODI-N-PROPYLAMINE	SW8270C	µg/kg	330	32	< 620	< 660	< 600
N-NITroso-DIPHENYLAMINE	SW8270C	µg/kg	160 ^(b)	162	< 300	< 320	< 300
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	65	< 3100	< 3300	< 3000
PHENANTHRENE	SW8270C	µg/kg	330	25	< 620	< 660	< 600
PHENOL	SW8270C	µg/kg	330	23	< 620	< 660	< 600
PYRENE	SW8270C	µg/kg	330	25	< 620	< 660	< 600
1,2,4-TRICHLOROBEZENE	SW8270C	µg/kg	330	28	< 620	< 660	< 600
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	31	< 620	< 660	< 600
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	34	< 620	< 660	< 600
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	< 9.4	< 10	< 9.1
BETA-BHC	SW8081A	µg/kg	5	0.086	< 9.4	< 10	< 9.1
ALPHA-BHC	SW8081A	µg/kg	5	0.014	< 9.4	< 10	< 9.1
DELTA-BHC	SW8081A	µg/kg	5	0.051	< 9.4	< 10	< 9.1
GAMMA-BHC	SW8081A	µg/kg	5	0.036	< 9.4	< 10	< 9.1
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	< 9.4	< 10	< 9.1
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	< 9.4	< 10	< 9.1
4,4'-DDD	SW8081A	µg/kg	5	0.10	< 9.4	10J	60
4,4'-DDE	SW8081A	µg/kg	5	0.064	< 9.4	2J	8J
4,4'-DDT	SW8081A	µg/kg	5	0.024	< 9.4	45	339 ^(c)
DIELDRIN	SW8081A	µg/kg	5	0.034	< 9.4	< 10	< 9.1
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	< 9.4	< 10	< 9.1
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	< 9.4	< 10	< 9.1
ENDOSULFAN SULFATE	SW8081A	µg/kg	5	0.35	< 9.4	< 10	< 9.1
ENDRIN	SW8081A	µg/kg	5	0.026	< 9.4	< 10	< 9.1
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	< 9.4	< 10	< 9.1
HEPTACHLOR	SW8081A	µg/kg	5	0.063	< 9.4	< 10	< 9.1
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	< 9.4	< 10	< 9.1
METHOXYCHLOR	SW8081A	µg/kg	17	0.068	< 32	< 34	< 31
TOXAPHENE	SW8081A	µg/kg	100	18	< 190	< 200	< 180

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-202-02	HAAF-ADA-202-14	HAAF-ADA-205-06
					03-06230-4	03-06230-5	03-06230-6
MOISTURE	ASTM-D2216	%Moisture	0.5	0.10	38.4	16.8	23.2
PH	9045C	pH unit	0.01	0.01	6.26	7.72	6.08
TTLIC 17 METALS							
Dilution Factor					1	1	1
ANTIMONY	SW6010B	mg/kg	3	0.11	<4.9	<3.6	<3.9
ARSENIC	SW6010B	mg/kg	5	0.099	12.1	1.0J	3.3J
BARIUM	SW6010B	mg/kg	100	0.074	60.7J	108J	22.1J
BERYLLIUM	SW6010B	mg/kg	0.5	0.004	0.20J	0.19J	<0.65
CADMIUM	SW6010B	mg/kg	0.5	0.011	0.030J	<0.60	0.056J
CHROMIUM	SW6010B	mg/kg	10	0.051	104	18.1	23.0
COBALT	SW6010B	mg/kg	10	0.020	12.8J	5.6J	3.3J
COPPER	SW6010B	mg/kg	10	0.088	36.6	4.8J	9.6J
LEAD	SW6010B	mg/kg	20	0.050	11.0J	9.7J	6.3J
MERCURY	SW7471A	mg/kg	0.1	0.007	0.081J	0.059J	0.043J
MOLYBDENUM	SW6010B	mg/kg	2	0.040	3.8	<2.4	2.5J
NICKEL	SW6010B	mg/kg	10	0.056	69.2	10.3J	12.2J
SELENIUM	SW6010B	mg/kg	0.5	0.069	2.7	0.98	0.49J
SILVER	SW6010B	mg/kg	0.5	0.030	<0.81	<0.60	<0.65
THALLIUM	SW6010B	mg/kg	10	0.062	<16	<12	<13
VANADIUM	SW6010B	mg/kg	10	0.028	90.5	27.2	28.9
ZINC	SW6010B	mg/kg	10	0.14	93.4	14.5	21.4
Dilution Factor					1	0.85	0.85
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.03J	0.02J	0.02J
Dilution Factor					1	1	1
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	6J (a)	<120	<130
VOLATILE ORGANICS							
Dilution Factor					0.96	0.87	1.2
ACETONE	SW8260B	µg/kg	50	6.8	<78	11J	<78
BENZENE	SW8260B	µg/kg	5	0.21	<7.8	<5.2	<7.8
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	<7.8	<5.2	<7.8
BROMOFORM	SW8260B	µg/kg	5	0.40	<7.8	<5.2	<7.8
BROMOMETHANE	SW8260B	µg/kg	5	0.59	<7.8	<5.2	<7.8
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	<160	<100	<160
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	<7.8	2J	<7.8
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	<7.8	<5.2	<7.8
CHLOROBENZENE	SW8260B	µg/kg	5	0.28	<7.8	<5.2	<7.8
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	<7.8	<5.2	<7.8
CHLOROETHANE	SW8260B	µg/kg	5	0.75	<7.8	<5.2	<7.8
CHLOROFORM	SW8260B	µg/kg	5	0.46	<7.8	<5.2	<7.8
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	<7.8	<5.2	<7.8
1,2-DICHLOROBENZENE	SW8260B	µg/kg	5	0.19	<7.8	<5.2	<7.8

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-202-02	HAAF-ADA-202-14	HAAF-ADA-205-06
					03-06230-4	03-06230-5	03-06230-6
1,3-DICHLOROBENZENE	SW8260B	µg/kg	5	0.29	< 7.8	< 5.2	< 7.8
1,4-DICHLOROBENZENE	SW8260B	µg/kg	5	0.20	< 7.8	< 5.2	< 7.8
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	< 7.8	< 5.2	< 7.8
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.30	< 7.8	< 5.2	< 7.8
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	< 7.8	< 5.2	< 7.8
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	< 7.8	< 5.2	< 7.8
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	< 7.8	< 5.2	< 7.8
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	< 7.8	< 5.2	< 7.8
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	< 7.8	< 5.2	< 7.8
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	< 7.8	< 5.2	< 7.8
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	< 7.8	< 5.2	< 7.8
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	< 7.8	< 5.2	< 7.8
2-HEXANONE	SW8260B	µg/kg	10	0.25	< 16	< 10	< 16
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	5J	3J	5J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	< 7.8	< 5.2	< 7.8
STYRENE	SW8260B	µg/kg	5	0.25	< 7.8	< 5.2	< 7.8
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	< 7.8	< 5.2	< 7.8
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	< 7.8	< 5.2	< 7.8
TOLUENE	SW8260B	µg/kg	5	0.57	< 7.8	< 5.2	< 7.8
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	< 7.8	< 5.2	< 7.8
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	< 7.8	< 5.2	< 7.8
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	< 7.8	< 5.2	< 7.8
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	< 7.8	< 5.2	< 7.8
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	< 16	< 10	< 16
VINYL ACETATE	SW8260B	µg/kg	10	0.98	< 16	< 10	< 16
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	< 7.8	< 5.2	< 7.8
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	< 23	< 16	< 23
SEMI-VOC COMPOUNDS							
Dilution Factor					1	1	1
ACENAPHTHENE	SW8270C	µg/kg	330	25	< 540	< 400	< 430
ACENAPHTHYLENE	SW8270C	µg/kg	330	22	< 540	< 400	< 430
ANTHRACENE	SW8270C	µg/kg	330	28	< 540	< 400	< 430
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	21	< 540	< 400	< 430
BENZO(A)PYRENE	SW8270C	µg/kg	330	24	< 540	< 400	< 430
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	25	< 540	< 400	< 430
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	37	< 540	< 400	< 430
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	27	< 540	< 400	< 430
BENZYL ALCOHOL	SW8270C	µg/kg	28 ^(b)	28	< 45	< 34	< 36
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	330	24	< 540	< 400	< 430
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	39	< 540	< 400	< 430
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	25	< 540	< 400	< 430
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	27	< 540	< 400	< 430
4-BROMOPHENYL-PHENYLETHER	SW8270C	µg/kg	330	33	< 540	< 400	< 430
BUTYLBENZYLPHTHALATE	SW8270C	µg/kg	330	23	< 540	< 400	< 430
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	25	< 540	< 400	< 430
4-CHLOROANILINE	SW8270C	µg/kg	100 ^(b)	101	< 160	< 120	< 130
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	32	< 540	< 400	< 430

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-202-02	HAAF-ADA-202-14	HAAF-ADA-205-06
					03-06230-4	03-06230-5	03-06230-6
2-CHLOROPHENOL	SW8270C	µg/kg	330	29	< 540	< 400	< 430
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	28	< 540	< 400	< 430
CHRYSENE	SW8270C	µg/kg	330	26	< 540	< 400	< 430
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	34	< 540	< 400	< 430
DI-N-OCTYL PHTHALATE	SW8270C	µg/kg	330	25	< 540	< 400	< 430
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	31	< 540	< 400	< 430
DIBENZOFURAN	SW8270C	µg/kg	330	25	< 540	< 400	< 430
1,2-DICHLOROBENZENE	SW8270C	µg/kg	330	26	< 540	< 400	< 430
1,3-DICHLOROBENZENE	SW8270C	µg/kg	330	22	< 540	< 400	< 430
1,4-DICHLOROBENZENE	SW8270C	µg/kg	330	18	< 540	< 400	< 430
3,3'-DICHLOROBENZIDINE	SW8270C	µg/kg	130 ^(b)	130	< 210	< 160	< 170
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	18	< 540	< 400	< 430
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	25	< 540	< 400	< 430
DIETHYL PHTHALATE	SW8270C	µg/kg	330	33	< 540	< 400	< 430
DIMETHYL PHTHALATE	SW8270C	µg/kg	330	35	< 540	< 400	< 430
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	20	< 540	< 400	< 430
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	93	< 2700	< 2000	< 2100
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	131	< 2700	< 2000	< 2100
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	24	< 540	< 400	< 430
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	27	< 540	< 400	< 430
FLUORANTHENE	SW8270C	µg/kg	330	27	< 540	< 400	< 430
FLUORENE	SW8270C	µg/kg	330	28	< 540	< 400	< 430
HEXACHLOROBENZENE	SW8270C	µg/kg	330	33	< 540	< 400	< 430
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	27	< 540	< 400	< 430
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	140 ^(b)	140	< 230	< 170	< 180
HEXACHLOROETHANE	SW8270C	µg/kg	330	28	< 540	< 400	< 430
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	31	< 540	< 400	< 430
ISOPHORONE	SW8270C	µg/kg	330	29	< 540	< 400	< 430
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	25	< 540	< 400	< 430
3/4-METHYLPHENOL	SW8270C	µg/kg	330	36	< 540	< 400	< 430
2-METHYLPHENOL	SW8270C	µg/kg	330	28	< 540	< 400	< 430
NAPHTHALENE	SW8270C	µg/kg	330	22	< 540	< 400	< 430
2-NITROANILINE	SW8270C	µg/kg	3300	111	< 5400	< 4000	< 4300
3-NITROANILINE	SW8270C	µg/kg	1700	109	< 2700	< 2000	< 2100
4-NITROANILINE	SW8270C	µg/kg	1700	122	< 2700	< 2000	< 2100
NITROBENZENE	SW8270C	µg/kg	330	23	< 540	< 400	< 430
2-NITROPHENOL	SW8270C	µg/kg	330	18	< 540	< 400	< 430
4-NITROPHENOL	SW8270C	µg/kg	1700	161	< 2700	< 2000	< 2100
N-NITROSODI-N-PROPYLAMINE	SW8270C	µg/kg	330	32	< 540	< 400	< 430
N-NITROSO-DIPHENYLAMINE	SW8270C	µg/kg	160 ^(b)	162	< 260	< 190	< 210
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	65	< 2700	< 2000	< 2100
PHENANTHRENE	SW8270C	µg/kg	330	25	< 540	< 400	< 430
PHENOL	SW8270C	µg/kg	330	23	< 540	< 400	< 430
PYRENE	SW8270C	µg/kg	330	25	< 540	< 400	< 430
1,2,4-TRICHLOROBENZENE	SW8270C	µg/kg	330	28	< 540	< 400	< 430
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	31	< 540	< 400	< 430
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	34	< 540	< 400	< 430

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-202-02 03-06230-4	HAAF-ADA-202-14 03-06230-5	HAAF-ADA-205-06 03-06230-6
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	-	<6.0	<6.5
BETA-BHC	SW8081A	µg/kg	5	0.086	-	<6.0	<6.5
ALPHA-BHC	SW8081A	µg/kg	5	0.014	-	<6.0	<6.5
DELTA-BHC	SW8081A	µg/kg	5	0.051	-	<6.0	<6.5
GAMMA-BHC	SW8081A	µg/kg	5	0.036	-	<6.0	<6.5
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	-	<6.0	<6.5
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	-	<6.0	<6.5
4,4'-DDD	SW8081A	µg/kg	5	0.10	-	<6.0	0.5J
4,4'-DDE	SW8081A	µg/kg	5	0.064	-	<6.0	0.3J
4,4'-DDT	SW8081A	µg/kg	5	0.024	-	<6.0	0.9J
DIELDRIN	SW8081A	µg/kg	5	0.034	-	<6.0	<6.5
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	-	<6.0	<6.5
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	-	<6.0	<6.5
ENDOSULFAN SULPATE	SW8081A	µg/kg	5	0.35	-	<6.0	<6.5
ENDRIN	SW8081A	µg/kg	5	0.026	-	<6.0	<6.5
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	-	<6.0	<6.5
HEPTACHLOR	SW8081A	µg/kg	5	0.063	-	<6.0	<6.5
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	-	<6.0	<6.5
METHOXYCHLOR	SW8081A	µg/kg	17	0.068	-	<20	<22
TOXAPHENE	SW8081A	µg/kg	100	18	-	<120	<130

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-205-14 03-06230-7	HAAF-ADA-207-05 03-06230-8	HAAF-ADA-207-14 03-06230-9
MOISTURE	ASTM-D2216	%Moisture	0.5	0.10	19.3	47.3	17.5
PH	9045C	pH unit	0.01	0.01	7.36	5.27	7.18
TTLIC 17 METALS							
Dilution Factor					1	1	1
ANTIMONY	SW6010B	mg/kg	3	0.11	<3.7	<5.7	<3.6
ARSENIC	SW6010B	mg/kg	5	0.099	2.8J	13.6	8.3
BARIUM	SW6010B	mg/kg	100	0.074	62.1J	128J	63.4J
BERYLLIUM	SW6010B	mg/kg	0.5	0.004	0.48J	1.9	0.37J
CADMIUM	SW6010B	mg/kg	0.5	0.011	<0.62	<0.95	<0.61
CHROMIUM	SW6010B	mg/kg	10	0.051	19.8	61.6	35.4
COBALT	SW6010B	mg/kg	10	0.020	8.6J	12.7J	7.9J
COPPER	SW6010B	mg/kg	10	0.088	9.9J	48.4	20.2
LEAD	SW6010B	mg/kg	20	0.050	7.6J	20.4J	16.2J
MERCURY	SW7471A	mg/kg	0.1	0.007	0.10J	0.36	0.088J
MOLYBDENUM	SW6010B	mg/kg	2	0.040	<2.5	1.7J	<2.4
NICKEL	SW6010B	mg/kg	10	0.056	16.1	105	37.4
SELENIUM	SW6010B	mg/kg	0.5	0.069	0.59J	<0.95	2.0
SILVER	SW6010B	mg/kg	0.5	0.030	<0.62	<0.95	<0.61
THALLIUM	SW6010B	mg/kg	10	0.062	<12	<19	<12
VANADIUM	SW6010B	mg/kg	10	0.028	37.0	55.8	48.0
ZINC	SW6010B	mg/kg	10	0.14	19.7	79.1	40.6
Dilution Factor					0.77	1.25	0.89
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.02J	0.04J	0.02J
Dilution Factor					1	1	1
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	<120	4J (a)	<120

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-205-14	HAAF-ADA-207-05	HAAF-ADA-207-14
					03-06230-7	03-06230-8	03-06230-9
VOLATILE ORGANICS							
Dilution Factor					1.02	1.51	0.9
ACETONE	SW8260B	µg/kg	50	6.8	14J	<140	16J
BENZENE	SW8260B	µg/kg	5	0.21	<6.3	<14	<5.5
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	<6.3	<14	<5.5
BROMOFORM	SW8260B	µg/kg	5	0.40	<6.3	<14	<5.5
BROMOMETHANE	SW8260B	µg/kg	5	0.59	<6.3	<14	<5.5
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	<130	<290	<110
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	<6.3	<14	<5.5
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	<6.3	<14	<5.5
CHLORO BENZENE	SW8260B	µg/kg	5	0.28	<6.3	<14	<5.5
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	<6.3	<14	<5.5
CHLOROETHANE	SW8260B	µg/kg	5	0.75	<6.3	<14	<5.5
CHLOROFORM	SW8260B	µg/kg	5	0.46	<6.3	<14	<5.5
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	<6.3	<14	<5.5
1,2-DICHLORO BENZENE	SW8260B	µg/kg	5	0.19	<6.3	<14	<5.5
1,3-DICHLORO BENZENE	SW8260B	µg/kg	5	0.29	<6.3	<14	<5.5
1,4-DICHLORO BENZENE	SW8260B	µg/kg	5	0.20	<6.3	<14	<5.5
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	<6.3	<14	<5.5
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.30	<6.3	<14	<5.5
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	<6.3	<14	<5.5
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	<6.3	<14	<5.5
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	<6.3	<14	<5.5
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	<6.3	<14	<5.5
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	<6.3	<14	<5.5
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	<6.3	<14	<5.5
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	<6.3	<14	<5.5
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	<6.3	<14	<5.5
2-HEXANONE	SW8260B	µg/kg	10	0.25	<13	<29	<11
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	4J	9J	4J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	<6.3	<140	<5.5
STYRENE	SW8260B	µg/kg	5	0.25	<6.3	<14	<5.5
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	<6.3	<14	<5.5
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	<6.3	<14	<5.5
TOLUENE	SW8260B	µg/kg	5	0.57	<6.3	<14	<5.5
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	<6.3	<14	<5.5
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	<6.3	<14	<5.5
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	<6.3	<14	<5.5
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	<6.3	<14	<5.5
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	<13	<29	<11
VINYL ACETATE	SW8260B	µg/kg	10	0.98	<13	<29	<11
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	<6.3	<14	<5.5
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	<19	<43	<16

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Analysis Result

Component Analyzed	Method	Unit	PQL	MDL	HAAF-ADA-205-14	HAAF-ADA-207-05	HAAF-ADA-207-14
					03-06230-7	03-06230-8	03-06230-9
SEMI-VOC COMPOUNDS							
Dilution Factor					1	1	1
ACENAPHTHENE	SW8270C	µg/kg	330	25	< 410	< 630	< 400
ACENAPHTHYLENE	SW8270C	µg/kg	330	22	< 410	< 630	< 400
ANTHRACENE	SW8270C	µg/kg	330	28	< 410	< 630	< 400
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	21	< 410	< 630	< 400
BENZO(A)PYRENE	SW8270C	µg/kg	330	24	< 410	< 630	< 400
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	25	< 410	< 630	< 400
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	37	< 410	< 630	< 400
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	27	< 410	< 630	< 400
BENZYL ALCOHOL	SW8270C	µg/kg	28 ^(b)	28	< 35	< 53	< 34
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	380	24	< 410	< 630	< 400
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	39	< 410	< 630	< 400
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	25	< 410	< 630	< 400
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	27	< 410	< 630	< 400
4-BROMOPHENYL-PHENYLETHER	SW8270C	µg/kg	330	33	< 410	< 630	< 400
BUTYLBENZYLPHTHALATE	SW8270C	µg/kg	330	23	< 410	< 630	< 400
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	25	< 410	< 630	< 400
4-CHLOROANILINE	SW8270C	µg/kg	100 ^(b)	101	< 130	< 190	< 120
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	32	< 410	< 630	< 400
2-CHLOROPHENOL	SW8270C	µg/kg	330	29	< 410	< 630	< 400
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	28	< 410	< 630	< 400
CHRYSENE	SW8270C	µg/kg	330	26	< 410	< 630	< 400
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	34	< 410	< 630	< 400
DI-N-OCTYLPHTHALATE	SW8270C	µg/kg	330	25	< 410	< 630	< 400
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	31	< 410	< 630	< 400
DIBENZOFURAN	SW8270C	µg/kg	330	25	< 410	< 630	< 400
1,2-DICHLOROBENZENE	SW8270C	µg/kg	330	26	< 410	< 630	< 400
1,3-DICHLOROBENZENE	SW8270C	µg/kg	330	22	< 410	< 630	< 400
1,4-DICHLOROBENZENE	SW8270C	µg/kg	330	18	< 410	< 630	< 400
3,3'-DICHLOROBENZIDINE	SW8270C	µg/kg	130 ^(b)	130	< 160	< 250	< 160
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	18	< 410	< 630	< 400
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	25	< 410	< 630	< 400
DIETHYL PHTHALATE	SW8270C	µg/kg	330	33	< 410	< 630	< 400
DIMETHYLPHTHALATE	SW8270C	µg/kg	330	35	< 410	< 630	< 400
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	20	< 410	< 630	< 400
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	93	< 2000	< 3100	< 2000
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	131	< 2000	< 3100	< 2000
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	24	< 410	< 630	< 400
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	27	< 410	< 630	< 400
FLUORANTHENE	SW8270C	µg/kg	330	27	< 410	< 630	< 400
FLUORENE	SW8270C	µg/kg	330	28	< 410	< 630	< 400
HEXACHLOROBENZENE	SW8270C	µg/kg	330	33	< 410	< 630	< 400
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	27	< 410	< 630	< 400

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-205-14	HAAF-ADA-207-05	HAAF-ADA-207-14
					03-06230-7	03-06230-8	03-06230-9
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	140 ^(b)	140	< 170	< 270	< 170
HEXACHLOROETHANE	SW8270C	µg/kg	330	28	< 410	< 630	< 400
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	31	< 410	< 630	< 400
ISOPHORONE	SW8270C	µg/kg	330	29	< 410	< 630	< 400
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	25	< 410	< 630	< 400
3/4-METHYLPHENOL	SW8270C	µg/kg	330	36	< 410	< 630	< 400
2-METHYLPHENOL	SW8270C	µg/kg	330	28	< 410	< 630	< 400
NAPHTHALENE	SW8270C	µg/kg	330	22	< 410	< 630	< 400
2-NITROANILINE	SW8270C	µg/kg	3300	111	< 4100	< 6300	< 4000
3-NITROANILINE	SW8270C	µg/kg	1700	109	< 2000	< 3100	< 2000
4-NITROANILINE	SW8270C	µg/kg	1700	122	< 2000	< 3100	< 2000
NITROBENZENE	SW8270C	µg/kg	330	23	< 410	< 630	< 400
2-NITROPHENOL	SW8270C	µg/kg	330	18	< 410	< 630	< 400
4-NITROPHENOL	SW8270C	µg/kg	1700	161	< 2000	< 3100	< 2000
N-NITROSODI-N-PROPYLAMINE	SW8270C	µg/kg	330	32	< 410	< 630	< 400
N-NITROSO-DIPHENYLAMINE	SW8270C	µg/kg	160 ^(b)	162	< 200	< 310	< 200
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	65	< 2000	< 3100	< 2000
PHENANTHRENE	SW8270C	µg/kg	330	25	< 410	< 630	< 400
PHENOL	SW8270C	µg/kg	330	23	< 410	< 630	< 400
PYRENE	SW8270C	µg/kg	330	25	< 410	< 630	< 400
1,2,4-TRICHLOROBENZENE	SW8270C	µg/kg	330	28	< 410	< 630	< 400
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	31	< 410	< 630	< 400
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	34	< 410	< 630	< 400
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	< 6.2	< 9.5	< 6.1
BETA-BHC	SW8081A	µg/kg	5	0.086	< 6.2	< 9.5	< 6.1
ALPHA-BHC	SW8081A	µg/kg	5	0.014	< 6.2	< 9.5	< 6.1
DELTA-BHC	SW8081A	µg/kg	5	0.051	< 6.2	< 9.5	< 6.1
GAMMA-BHC	SW8081A	µg/kg	5	0.036	< 6.2	< 9.5	< 6.1
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	< 6.2	< 9.5	< 6.1
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	< 6.2	< 9.5	< 6.1
4,4'-DDD	SW8081A	µg/kg	5	0.10	< 6.2	< 9.5	< 6.1
4,4'-DDE	SW8081A	µg/kg	5	0.064	< 6.2	< 9.5	< 6.1
4,4'-DDT	SW8081A	µg/kg	5	0.024	< 6.2	< 9.5	< 6.1
DIELDRIN	SW8081A	µg/kg	5	0.034	< 6.2	< 9.5	< 6.1
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	< 6.2	< 9.5	< 6.1
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	< 6.2	< 9.5	< 6.1
ENDOSULFAN SULFATE	SW8081A	µg/kg	5	0.35	< 6.2	< 9.5	< 6.1
ENDRIN	SW8081A	µg/kg	5	0.026	< 6.2	< 9.5	< 6.1
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	< 6.2	< 9.5	< 6.1
HEPTACHLOR	SW8081A	µg/kg	5	0.063	< 6.2	< 9.5	< 6.1
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	< 6.2	< 9.5	< 6.1
METHOXYCHLOR	SW8081A	µg/kg	17	0.068	< 21	< 32	< 21
TOXAPHENE	SW8081A	µg/kg	100	18	< 120	< 190	< 120

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-209-04	HAAF-ADA-209-14	HAAF-ADA-210-02
					03-06230-10	03-06230-11	03-06230-12
MOISTURE	ASTM-D2216	%Moisture	0.5	0.10	43.3	41.9	32.9
PH	9045C	pH unit	0.01	0.01	4.12	6.63	5.10
TTLC 17 METALS							
Dilution Factor					1	1	1
ANTIMONY	SW6010B	mg/kg	3	0.11	<5.3	<5.2	<4.5
ARSENIC	SW6010B	mg/kg	5	0.099	7.7J	4.2J	6.1J
BARIUM	SW6010B	mg/kg	100	0.074	46.8J	41.6J	83.0J
BERYLLIUM	SW6010B	mg/kg	0.5	0.004	<0.88	<0.86	0.35J
CADMIUM	SW6010B	mg/kg	0.5	0.011	<0.88	0.057J	<0.74
CHROMIUM	SW6010B	mg/kg	10	0.031	95.3	81.1	110
COBALT	SW6010B	mg/kg	10	0.020	10.5J	17.0J	17.6
COPPER	SW6010B	mg/kg	10	0.088	31.4	31.7	33.1
LEAD	SW6010B	mg/kg	20	0.050	6.9J	8.1J	8.7J
MERCURY	SW7471A	mg/kg	0.1	0.007	0.097J	0.079J	0.22
MOLYBDENUM	SW6010B	mg/kg	2	0.040	<3.5	<3.4	<3.0
NICKEL	SW6010B	mg/kg	10	0.056	54.1	77.2	84.2
SELENIUM	SW6010B	mg/kg	0.5	0.069	0.72J	<0.86	0.95
SILVER	SW6010B	mg/kg	0.5	0.020	<0.88	<0.86	<0.74
THALLIUM	SW6010B	mg/kg	10	0.062	<18	<17	<15
VANADIUM	SW6010B	mg/kg	10	0.028	74.3	67.8	78.4
ZINC	SW6010B	mg/kg	10	0.14	70.6	75.4	111
Dilution Factor					1.28	1	1.15
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.05J	0.04J	0.03J
Dilution Factor					1	1	1
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	3J (a)	2J (a)	9J (a)
VOLATILE ORGANICS							
Dilution Factor					1.24	1.35	1.17
ACETONE	SW8260B	µg/kg	50	6.8	<110	27J	<87
BENZENE	SW8260B	µg/kg	5	0.21	<11	<12	<8.7
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	<11	<12	<8.7
BROMOFORM	SW8260B	µg/kg	5	0.40	<11	<12	<8.7
BROMOMETHANE	SW8260B	µg/kg	5	0.59	<11	<12	<8.7
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	<220	<230	<170
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	<11	7J	<8.7
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	<11	<12	<8.7
CHLOROENZENE	SW8260B	µg/kg	5	0.28	<11	<12	<8.7
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	<11	<12	<8.7
CHLOROETHANE	SW8260B	µg/kg	5	0.75	<11	<12	<8.7
CHLOROFORM	SW8260B	µg/kg	5	0.46	<11	<12	<8.7
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	<11	<12	<8.7
1,2-DICHLOROBENZENE	SW8260B	µg/kg	5	0.19	<11	<12	<8.7

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-209-04	HAAF-ADA-209-14	HAAF-ADA-210-02
					03-06230-10	03-06230-11	03-06230-12
1,3-DICHLOROENZENE	SW8260B	µg/kg	5	0.29	<11	<12	<8.7
1,4-DICHLOROENZENE	SW8260B	µg/kg	5	0.20	<11	<12	<8.7
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	<11	<12	<8.7
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.30	<11	<12	<8.7
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	<11	<12	<8.7
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	<11	<12	<8.7
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	<11	<12	<8.7
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	<11	<12	<8.7
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	<11	<12	<8.7
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	<11	<12	<8.7
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	<11	<12	<8.7
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	<11	<12	<8.7
2-HEXANONE	SW8260B	µg/kg	10	0.25	<22	<23	<17
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	7J	8J	5J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	<110	<120	<87
STYRENE	SW8260B	µg/kg	5	0.25	<11	<12	<8.7
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	<11	<12	<8.7
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	<11	<12	<8.7
TOLUENE	SW8260B	µg/kg	5	0.57	<11	<12	<8.7
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	<11	<12	<8.7
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	<11	<12	<8.7
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	<11	<12	<8.7
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	<11	<12	<8.7
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	<22	<23	<17
VINYL ACETATE	SW8260B	µg/kg	10	0.98	<22	<23	<17
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	<11	<12	<8.7
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	<33	<35	<26
SEMI-VOC COMPOUNDS							
Dilution Factor					1	1	1
ACENAPHTHENE	SW8270C	µg/kg	330	25	<580	<570	<490
ACENAPHTHYLENE	SW8270C	µg/kg	330	22	<580	<570	<490
ANTHRACENE	SW8270C	µg/kg	330	28	<580	<570	<490
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	21	<580	<570	<490
BENZO(A)PYRENE	SW8270C	µg/kg	330	24	<580	<570	<490
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	25	<580	<570	<490
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	37	<580	<570	<490
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	27	<580	<570	<490
BENZYL ALCOHOL	SW8270C	µg/kg	28 ^(b)	28	<49	<48	<42
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	330	24	<580	<570	<490
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	39	<580	<570	<490
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	25	<580	<570	<490
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	27	<580	<570	<490
4-BROMOPHENYL-PHENYLETHER	SW8270C	µg/kg	330	33	<580	<570	<490
BUTYLBENZYLPHTHALATE	SW8270C	µg/kg	330	23	<580	<570	<490
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	25	<580	<570	<490
4-CHLOROANILINE	SW8270C	µg/kg	100 ^(b)	101	<180	<170	<150
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	32	<580	<570	<490

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-209-04	HAAF-ADA-209-14	HAAF-ADA-210-02
					03-06230-10	03-06230-11	03-06230-12
2-CHLOROPHENOL	SW8270C	µg/kg	330	29	< 580	< 570	< 490
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	28	< 580	< 570	< 490
CHRYSENE	SW8270C	µg/kg	330	26	< 580	< 570	< 490
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	34	< 580	< 570	< 490
DI-N-OCTYLPHTHALATE	SW8270C	µg/kg	330	25	< 580	< 570	< 490
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	31	< 580	< 570	< 490
DIBENZOFURAN	SW8270C	µg/kg	330	25	< 580	< 570	< 490
1,2-DICHLOROBENZENE	SW8270C	µg/kg	330	26	< 580	< 570	< 490
1,3-DICHLOROBENZENE	SW8270C	µg/kg	330	22	< 580	< 570	< 490
1,4-DICHLOROBENZENE	SW8270C	µg/kg	330	18	< 580	< 570	< 490
3,3'-DICHLOROBENZIDINE	SW8270C	µg/kg	130 ^(b)	130	< 230	< 220	< 190
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	18	< 580	< 570	< 490
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	25	< 580	< 570	< 490
DIETHYL PHTHALATE	SW8270C	µg/kg	330	33	< 580	< 570	< 490
DIMETHYLPHTHALATE	SW8270C	µg/kg	330	35	< 580	< 570	< 490
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	20	< 580	< 570	< 490
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	93	< 2900	< 2800	< 2500
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	131	< 2900	< 2800	< 2500
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	24	< 580	< 570	< 490
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	27	< 580	< 570	< 490
FLUORANTHENE	SW8270C	µg/kg	330	27	< 580	< 570	< 490
FLUORENE	SW8270C	µg/kg	330	28	< 580	< 570	< 490
HEXACHLOROBENZENE	SW8270C	µg/kg	330	33	< 580	< 570	< 490
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	27	< 580	< 570	< 490
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	140 ^(b)	140	< 250	< 240	< 210
HEXACHLOROETHANE	SW8270C	µg/kg	330	28	< 580	< 570	< 490
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	31	< 580	< 570	< 490
ISOPHORONE	SW8270C	µg/kg	330	29	< 580	< 570	< 490
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	25	< 580	< 570	< 490
3/4-METHYLPHENOL	SW8270C	µg/kg	330	36	< 580	< 570	< 490
2-METHYLPHENOL	SW8270C	µg/kg	330	28	< 580	< 570	< 490
NAPHTHALENE	SW8270C	µg/kg	330	22	< 580	< 570	< 490
2-NITROANILINE	SW8270C	µg/kg	3300	111	< 5800	< 5700	< 4900
3-NITROANILINE	SW8270C	µg/kg	1700	109	< 2900	< 2800	< 2500
4-NITROANILINE	SW8270C	µg/kg	1700	122	< 2900	< 2800	< 2500
NITROBENZENE	SW8270C	µg/kg	330	23	< 580	< 570	< 490
2-NITROPHENOL	SW8270C	µg/kg	330	18	< 580	< 570	< 490
4-NITROPHENOL	SW8270C	µg/kg	1700	161	< 2900	< 2800	< 2500
N-NITROSODI-N-PROPYLAMINE	SW8270C	µg/kg	330	32	< 580	< 570	< 490
N-NITROSO-DIPHENYLAMINE	SW8270C	µg/kg	160 ^(b)	162	< 290	< 280	< 240
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	65	< 2900	< 2800	< 2500
PHENANTHRENE	SW8270C	µg/kg	330	25	< 580	< 570	< 490
PHENOL	SW8270C	µg/kg	330	23	< 580	< 570	< 490
PYRENE	SW8270C	µg/kg	330	25	< 580	< 570	< 490
1,2,4-TRICHLOROBENZENE	SW8270C	µg/kg	330	28	< 580	< 570	< 490
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	31	< 580	< 570	< 490
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	34	< 580	< 570	< 490

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-209-04 03-06230-10	HAAF-ADA-209-14 03-06230-11	HAAF-ADA-210-02 03-06230-12
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	<8.8	<8.6	-
BETA-BHC	SW8081A	µg/kg	5	0.086	<8.8	<8.6	-
ALPHA-BHC	SW8081A	µg/kg	5	0.014	<8.8	<8.6	-
DELTA-BHC	SW8081A	µg/kg	5	0.051	<8.8	<8.6	-
GAMMA-BHC	SW8081A	µg/kg	5	0.036	<8.8	<8.6	-
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	<8.8	<8.6	-
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	<8.8	<8.6	-
4,4'-DDD	SW8081A	µg/kg	5	0.10	<8.8	0.6J	-
4,4'-DDE	SW8081A	µg/kg	5	0.064	<8.8	0.4J	-
4,4'-DDT	SW8081A	µg/kg	5	0.024	<8.8	0.2J	-
DIELDRIN	SW8081A	µg/kg	5	0.034	<8.8	<8.6	-
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	<8.8	<8.6	-
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	<8.8	<8.6	-
ENDOSULFAN SULFATE	SW8081A	µg/kg	5	0.35	<8.8	<8.6	-
ENDRIN	SW8081A	µg/kg	5	0.026	<8.8	<8.6	-
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	<8.8	<8.6	-
HEPTACHLOR	SW8081A	µg/kg	5	0.063	<8.8	<8.6	-
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	<8.8	<8.6	-
METHOXYCHLOR	SW8081A	µg/kg	17	0.068	<30	<29	-
TOXAPHENE	SW8081A	µg/kg	100	18	<180	<170	-

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-210-14 03-06230-13	HAAF-ADA-211-06 03-06230-14	HAAF-ADA-211-14 03-06230-15
MOISTURE	ASTM-D2216	%Moisture	0.5	0.10	22.1	44.8	10.1
PH	9045C	pH unit	0.01	0.01	6.32	4.55	6.28
TTLIC 17 METALS							
Dilution Factor					1	1	1
ANTIMONY	SW6010B	mg/kg	3	0.11	<3.9	<5.4	<3.3
ARSENIC	SW6010B	mg/kg	5	0.099	1.9J	4.5J	2.7J
BARIUM	SW6010B	mg/kg	100	0.074	23.9J	43.6J	83.7J
BERYLLIUM	SW6010B	mg/kg	0.5	0.004	<0.64	<0.91	0.92
CADMIUM	SW6010B	mg/kg	0.5	0.011	<0.64	<0.91	<0.56
CHROMIUM	SW6010B	mg/kg	10	0.051	27.3	89.0	9.1J
COBALT	SW6010B	mg/kg	10	0.020	4.5J	12.3J	5.9J
COPPER	SW6010B	mg/kg	10	0.088	9.3J	27.5	4.8J
LEAD	SW6010B	mg/kg	20	0.050	6.4J	4.8J	10J
MERCURY	SW7471A	mg/kg	0.1	0.007	0.41	0.098J	0.64
MOLYBDENUM	SW6010B	mg/kg	2	0.040	<2.6	<3.6	<2.2
NICKEL	SW6010B	mg/kg	10	0.056	19.0	64.6	12.2
SELENIUM	SW6010B	mg/kg	0.5	0.069	1.1	0.58J	0.84
SILVER	SW6010B	mg/kg	0.5	0.030	<0.64	<0.91	<0.56
THALLIUM	SW6010B	mg/kg	10	0.062	<13	<18	<11
VANADIUM	SW6010B	mg/kg	10	0.028	39.5	69.8	30.6
ZINC	SW6010B	mg/kg	10	0.14	16.5	76.0	25.0
Dilution Factor					1.34	1.17	0.9
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.04J	0.05J	0.03J
Dilution Factor					1	1	1
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	<130	4J (a)	<110

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-210-14	HAAF-ADA-211-06	HAAF-ADA-211-14
					03-06230-13	03-06230-14	03-06230-15
VOLATILE ORGANICS							
Dilution Factor					0.94	1.38	0.86
ACETONE	SW8260B	µg/kg	50	6.8	19J	97J	<48
BENZENE	SW8260B	µg/kg	5	0.21	<6.0	<13	<4.8
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	<6.0	<13	<4.8
BROMOFORM	SW8260B	µg/kg	5	0.40	<6.0	<13	<4.8
BROMOMETHANE	SW8260B	µg/kg	5	0.59	<6.0	<13	<4.8
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	<120	<250	<96
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	<6.0	20	<4.8
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	<6.0	<13	<4.8
CHLOROENZENE	SW8260B	µg/kg	5	0.28	<6.0	<13	<4.8
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	<6.0	<13	<4.8
CHLOROETHANE	SW8260B	µg/kg	5	0.75	<6.0	<13	<4.8
CHLOROFORM	SW8260B	µg/kg	5	0.46	<6.0	<13	<4.8
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	<6.0	<13	<4.8
1,2-DICHLOROENZENE	SW8260B	µg/kg	5	0.19	<6.0	<13	<4.8
1,3-DICHLOROENZENE	SW8260B	µg/kg	5	0.29	<6.0	<13	<4.8
1,4-DICHLOROENZENE	SW8260B	µg/kg	5	0.20	<6.0	<13	<4.8
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	<6.0	<13	<4.8
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.90	<6.0	<13	<4.8
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	<6.0	<13	<4.8
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	<6.0	<13	<4.8
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	<6.0	<13	<4.8
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	<6.0	<13	<4.8
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	<6.0	<13	<4.8
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	<6.0	<13	<4.8
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	<6.0	<13	<4.8
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	<6.0	<13	<4.8
2-HEXANONE	SW8260B	µg/kg	10	0.25	<12	<25	<9.6
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	4J	7J	3J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	<60	<130	<48
STYRENE	SW8260B	µg/kg	5	0.25	<6.0	<13	<4.8
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	<6.0	<13	<4.8
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	<6.0	<13	<4.8
TOLUENE	SW8260B	µg/kg	5	0.57	<6.0	<13	<4.8
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	<6.0	<13	<4.8
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	<6.0	<13	<4.8
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	<6.0	<13	<4.8
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	<6.0	<13	<4.8
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	<12	<25	<9.6
VINYL ACETATE	SW8260B	µg/kg	10	0.98	<12	<25	<9.6
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	<6.0	<13	<4.8
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	<18	<38	<14

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-210-14 03-06230-13	HAAF-ADA-211-06 03-06230-14	HAAF-ADA-211-14 03-06230-15
SEMI-VOC COMPOUNDS							
Dilution Factor					1	1	1
ACENAPHTHENE	SW8270C	µg/kg	330	25	< 420	< 600	< 370
ACENAPHTHYLENE	SW8270C	µg/kg	330	22	< 420	< 600	< 370
ANTHRACENE	SW8270C	µg/kg	330	28	< 420	< 600	< 370
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	21	< 420	< 600	< 370
BENZO(A)PYRENE	SW8270C	µg/kg	330	24	< 420	< 600	< 370
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	25	< 420	< 600	< 370
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	37	< 420	< 600	< 370
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	27	< 420	< 600	< 370
BENZYL ALCOHOL	SW8270C	µg/kg	28 ^(b)	28	< 36	< 51	< 31
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	330	24	< 420	< 600	< 370
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	39	< 420	< 600	< 370
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	25	< 420	< 600	< 370
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	27	< 420	< 600	< 370
4-BROMOPHENYL-PHENYLETHER	SW8270C	µg/kg	330	33	< 420	< 600	< 370
BUTYLBENZYLPHTHALATE	SW8270C	µg/kg	330	23	< 420	< 600	< 370
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	25	< 420	< 600	< 370
4-CHLOROANILINE	SW8270C	µg/kg	100 ^(b)	101	< 130	< 180	< 110
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	32	< 420	< 600	< 370
2-CHLOROPHENOL	SW8270C	µg/kg	330	29	< 420	< 600	< 370
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	28	< 420	< 600	< 370
CHRYSENE	SW8270C	µg/kg	330	26	< 420	< 600	< 370
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	34	< 420	< 600	< 370
DI-N-OCTYLPHTHALATE	SW8270C	µg/kg	330	25	< 420	< 600	< 370
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	31	< 420	< 600	< 370
DIBENZOFURAN	SW8270C	µg/kg	330	25	< 420	< 600	< 370
1,2-DICHLOROBENZENE	SW8270C	µg/kg	330	26	< 420	< 600	< 370
1,3-DICHLOROBENZENE	SW8270C	µg/kg	330	22	< 420	< 600	< 370
1,4-DICHLOROBENZENE	SW8270C	µg/kg	330	18	< 420	< 600	< 370
3,3'-DICHLOROBENZIDINE	SW8270C	µg/kg	130 ^(b)	130	< 170	< 240	< 140
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	18	< 420	< 600	< 370
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	25	< 420	< 600	< 370
DIETHYL PHTHALATE	SW8270C	µg/kg	330	33	< 420	< 600	< 370
DIMETHYLPHTHALATE	SW8270C	µg/kg	330	35	< 420	< 600	< 370
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	20	< 420	< 600	< 370
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	93	< 2100	< 3000	< 1800
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	131	< 2100	< 3000	< 1800
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	24	< 420	< 600	< 370
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	27	< 420	< 600	< 370
FLUORANTHENE	SW8270C	µg/kg	330	27	< 420	< 600	< 370
FLUORENE	SW8270C	µg/kg	330	28	< 420	< 600	< 370
HEXACHLOROBENZENE	SW8270C	µg/kg	330	33	< 420	< 600	< 370
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	27	< 420	< 600	< 370
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	140 ^(b)	140	< 180	< 250	< 160
HEXACHLOROETHANE	SW8270C	µg/kg	330	28	< 420	< 600	< 370
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	31	< 420	< 600	< 370
ISOPHORONE	SW8270C	µg/kg	330	29	< 420	< 600	< 370
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	25	< 420	< 600	< 370
3/4-METHYLPHENOL	SW8270C	µg/kg	330	36	< 420	< 600	< 370
2-METHYLPHENOL	SW8270C	µg/kg	330	28	< 420	< 600	< 370
NAPHTHALENE	SW8270C	µg/kg	330	22	< 420	< 600	< 370

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-210-14 03-06230-13	HAAF-ADA-211-06 03-06230-14	HAAF-ADA-211-14 03-06230-15
2-NITROANILINE	SW8270C	µg/kg	3300	111	< 4200	< 6000	< 3700
3-NITROANILINE	SW8270C	µg/kg	1700	109	< 2100	< 3000	< 1800
4-NITROANILINE	SW8270C	µg/kg	1700	122	< 2100	< 3000	< 1800
NITROBENZENE	SW8270C	µg/kg	330	23	< 420	< 600	< 370
2-NITROPHENOL	SW8270C	µg/kg	330	18	< 420	< 600	< 370
4-NITROPHENOL	SW8270C	µg/kg	1700	161	< 2100	< 3000	< 1800
N-NITROSODI-N-PROPYLAMINE	SW8270C	µg/kg	330	32	< 420	< 600	< 370
N-NITROSO-DIPHENYLAMINE	SW8270C	µg/kg	160 ^(b)	162	< 210	< 290	< 180
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	65	< 2100	< 3000	< 1800
PHENANTHRENE	SW8270C	µg/kg	330	25	< 420	< 600	< 370
PHENOL	SW8270C	µg/kg	330	23	< 420	< 600	< 370
PYRENE	SW8270C	µg/kg	330	25	< 420	< 600	< 370
1,2,4-TRICHLOROBENZENE	SW8270C	µg/kg	330	28	< 420	< 600	< 370
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	31	< 420	< 600	< 370
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	34	< 420	< 600	< 370
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	< 6.4	< 9.1	< 5.6
BETA-BHC	SW8081A	µg/kg	5	0.086	< 6.4	< 9.1	< 5.6
ALPHA-BHC	SW8081A	µg/kg	5	0.014	< 6.4	< 9.1	< 5.6
DELTA-BHC	SW8081A	µg/kg	5	0.051	< 6.4	< 9.1	< 5.6
GAMMA-BHC	SW8081A	µg/kg	5	0.036	< 6.4	< 9.1	< 5.6
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	< 6.4	< 9.1	< 5.6
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	< 6.4	< 9.1	< 5.6
4,4'-DDD	SW8081A	µg/kg	5	0.10	< 6.4	< 9.1	< 5.6
4,4'-DDE	SW8081A	µg/kg	5	0.064	< 6.4	< 9.1	< 5.6
4,4'-DDT	SW8081A	µg/kg	5	0.024	< 6.4	< 9.1	< 5.6
DIELDRIN	SW8081A	µg/kg	5	0.034	< 6.4	< 9.1	< 5.6
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	< 6.4	< 9.1	< 5.6
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	< 6.4	< 9.1	< 5.6
ENDOSULFAN SULFATE	SW8081A	µg/kg	5	0.35	< 6.4	< 9.1	< 5.6
ENDRIN	SW8081A	µg/kg	5	0.026	< 6.4	< 9.1	< 5.6
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	< 6.4	< 9.1	< 5.6
HEPTACHLOR	SW8081A	µg/kg	5	0.063	< 6.4	< 9.1	< 5.6
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	< 6.4	< 9.1	< 5.6
METHOXYCHLOR	SW8081A	µg/kg	17	0.068	< 22	< 31	< 19
TOXAPHENE	SW8081A	µg/kg	100	18	< 130	< 180	< 110

PQL: Practical Quantitation Limit. MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

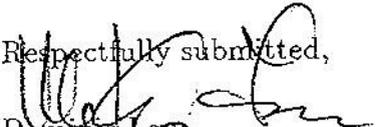
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Unknown mixture in Diesel range.

(b) MDL reported.

(c) Analyzed with a dilution factor of 10.

Respectfully submitted,


 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

CHAIN OF CUSTODY RECORD



**US ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT**
Environmental Engineering Branch
SPK-ED-E
1325 J Street
Sacramento, California
95814-2922

Project Name: Northwest Alleged Disposal Area
Project Location: Hanilton AAF
Project Coordinator: Carlotta Fong
Phone: (916) 557-7513 FAX: (916) 557-5307
Sampler: Van Ethen, Tim Cravett Phone:

Laboratory: APCL
Address: 13760 Magnolia
Chino, CA 91710
Contact: Eric Wendland
Phone: (909) 590-1828

ANALYSIS REQUESTED →

Field	SAMPLE IDENTIFICATION	Laboratory	GRAB	COMP	DATE	TIME	ANALYSIS REQUESTED							MS/MSD	TURN AROUND TIME (DAYS)	MATRIX CODE	NUMBER OF							
							EPA 2015 B-D	EPA 2015 B-E	EPA 8260 B	EPA 8270 C	EPA 9310	EPA 8081	EPA 6610				EPA 7471	PLASTIC	GLASS	VOA	SLEEVE	ENCORE	PRESERVATIVE CODE	
HAAE-ADA-211-06	APCL		X		11/19/03	0900	X	X	X	X	X	X	X				3	3						
HAAE-ADA-211-14							X	X	X	X	X	X	X				3	3						
HAAE-ADA-202-02							X	X	X	X	X	X	X				3	3						
HAAE-ADA-202-14							X	X	X	X	X	X	X				3	3						
HAAE-ADA-210-02							X	X	X	X	X	X	X				3	3						
HAAE-ADA-210-14							X	X	X	X	X	X	X				3	3						
HAAE-ADA-201-06							X	X	X	X	X	X	X				3	3						
HAAE-ADA-201-14							X	X	X	X	X	X	X				3	3						
HAAE-ADA-209-04							X	X	X	X	X	X	X				3	3						
HAAE-ADA-209-14							X	X	X	X	X	X	X				3	3						

COMMENTS/SPECIAL INSTRUCTIONS:
TEMP. BLANK INCLUDED

QUESTIONS:
PRESERVATIVE CODES:
C = HCl N = HNO₃ S = H₂SO₄
SAMPLE DISPOSAL:
 Hold Dispose Return

RELINQUISHED BY: KRS DATE/TIME: 11/19/03 1400 RECEIVED BY: [Signature] DATE/TIME: 11/20/03 1000

MATRIX CODES:
W = Water SI = Sludge SP = Solid Product
S = Soil A = Air LP = Liquid Product
Sd = Sediment

SHIPPING:
Fed Ex Courier Hand Deliver
Airbill Number: 83860225 3650

CHAIN OF CUSTODY RECORD



US ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
 Environmental Engineering Branch
 SPK-ED-E
 1325 J Street
 Sacramento, California
 95814-2922

Project Name: Northwest Alleged Disposal Area
 Project Location: Hamilton AFE
 Project Coordinator: Carleton Fong
 Phone: (916) 557-2511 FAX: (916) 557-5307
 Sampler: Van Eter, Tim Crummett
 Phone: (909) 590-1828

Laboratory: APCL
 Address: 13760 Magnolia
 Chino, CA 91710
 Contact: Eric Wendland
 Phone: (909) 590-1828

ANALYSIS REQUESTED →

Field	SAMPLE IDENTIFICATION	Laboratory	GRAB	COMP	DATE	TIME	ANALYSIS REQUESTED							MS/MSD	TURN AROUND TIME (DAYS)	MATRIX CODE	NUMBER OF						
							EPA 8015 B-P	EPA 8015 B-E	EPA 8260 B	EPA 8270 C	EPA 9310	EPA 8081	EPA 6016				EPA 7471	PLASTIC	GLASS	VOA	SLEEVE	ENCORE	PRESERVATIVE CODE
HAAE-ADDA-207-05	APCL		X		11/19/03	12:35	X	X	X	X	X	X	X				3						
HAAE-ADDA-207-14			X		11/19/03	12:45	X	X	X	X	X	X	X				3						
HAAE-ADDA-205-06			X		11/19/03	08:30	X	X	X	X	X	X	X				3						
HAAE-ADDA-205-14			X		11/19/03	08:40	X	X	X	X	X	X	X				3						
HAAE-ADDA-210-14			X		11/19/03	10:45	X	X	X	X	X	X	X				9						
HAAE-ADDA-21-14			X		11/19/03	12:15	X	X	X	X	X	X	X				3						

6230

COMMENTS/SPECIAL INSTRUCTIONS:

TEMP. BLANK INCLUDED

CHECKED BY: [Signature]

PRESERVATIVE CODES: C = HCl, N = HNO₃, S = H₂SO₄

SAMPLE DISPOSAL: Hold Dispose Return

RELINQUISHED BY

DATE/TIME

RECEIVED BY

DATE/TIME

Tim Crummett

11/19/03 1600

FED EX

11/20/03 1000

MATRIX CODES: W = Water, SI = Sludge, SP = Solid Product, S = Soil, A = Air, LP = Liquid Product, Sd = Sediment

SHIPPING: Courier Hand Deliver
 Fed Ex
 Airbill Number: 8386 0625 3650

005192

CHAIN OF CUSTODY RECORD

Page 2 of 2

US ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
 Environmental Engineering Branch
 SPK-ED-E
 1325 J Street
 Sacramento, California
 95814-2922

Project Name: *Northwest Allegood Disposal Area*
 Project Location: *Han, Han ARE*
 Project Coordinator: *Carlotta Fong*
 Phone: (916) 557-2573 FAX: (916) 557-5307
 Sampler: *B. VanEtten, Tim Crum* Phone:
 Laboratory: *APCL*
 Address: *13260 Magnolia*
China, CA 91718
 Contact: *Eric Woodland*
 Phone: (909) 590-1828

ANALYSIS REQUESTED →

SAMPLE IDENTIFICATION		GRAB	COMP	DATE	TIME	NUMBER OF		PRESERVATIVE CODE		
Field	Laboratory					PLASTIC	GLASS	VOA	SLEEVE	ENCORE
HAAE-ADA-210-14	APCL			11/19/03	12:05					
HAAE-ADA-210-14	APCL	X		11/19/03	12:05	X				
HAAE-ADA-205-06		X			12:30	X				
HAAE-ADA-207-05		X			12:35	X				
HAAE-ADA-210-14		X			12:35	X				
HAAE-ADA-207-14		X			12:35	X				
HAAE-ADA-205-14		X			08:40	X				
					08:40	X				

6230

COMMENTS/SPECIAL INSTRUCTIONS:

CHECKED BY: *TC*
 PRESERVATIVE CODES: C = HCl N = HNO₃ S = H₂SO₄
 SAMPLE DISPOSAL: Hold Dispose Return

RELINQUISHED BY: *TC* DATE/TIME: *11/19/03 1400* RECEIVED BY: *[Signature]* DATE/TIME: *11/20/03 1000*

MATRIX CODES: W = Water SI = Sludge SP = Solid Product
 S = Soil A = Air LP = Liquid Product
 Sd = Sediment

SHIPPING: Fed Ex Courier Hand Deliver
 Airbill Number: *B38606253658*

Submitted to:

U.S. Army Corps of Engineers

Attention: Carleton Fong.

1325 J Street

Sacramento CA 95814-2922

Tel: (916)557-7646 Fax: (916)557-5307

APCL Analytical Report

Service ID #: 801-036205

Received: 11/19/03

Collected by: BV/TC

Extracted: 11/21/03

Collected on: 11/18/03

Tested: 11/20-24/03

Reported: 12/10/03

Sample Description: Soil from Hamilton AAF

Project Description: Northwest Alleged Disposal Area

Analysis of Soil Samples

Component Analyzed	Method	Unit	Analysis Result					
			PQL	MDL	HAAF-ADA-203-00		HAAF-ADA-204-06	
					03-06205-1	03-06205-2	03-06205-3	03-06205-3
MOISTURE	ASTM-D22216	%Moisture	0.5	0.10	26.2	47.7	46.5	
PH	9045C	pH unit	0.01	0.01	7.13	7.54	7.32	
TTLC 17 METALS								
Dilution Factor					1	1	1	
ANTIMONY	SW6010B	mg/kg	3	0.12	<4.1	<5.7	<5.6	
ARSENIC	SW6010B	mg/kg	5	0.078	5.7J	8.8J	9.0J	
BARIUM	SW6010B	mg/kg	100	0.050	207	49.5J	43.7J	
BERYLLIUM	SW6010B	mg/kg	0.5	0.002	0.47J	<0.96	<0.93	
CADMIUM	SW6010B	mg/kg	0.5	0.022	<0.68	<0.96	<0.93	
CHROMIUM	SW6010B	mg/kg	10	0.043	43.7	94.3	97.6	
COBALT	SW6010B	mg/kg	10	0.031	9.6J	17.6J	18.3J	
COPPER	SW6010B	mg/kg	10	0.060	20.3	35.4	38.4	
LEAD	SW6010B	mg/kg	20	0.062	18.2J	9.5J	9.2J	
MERCURY	SW7471A	mg/kg	0.1	0.007	0.19	0.085J	0.088J	
MOLYBDENUM	SW6010B	mg/kg	2	0.063	1.1J	<3.8	<3.7	
NICKEL	SW6010B	mg/kg	10	0.042	44.2	90.6	95.4	
SELENIUM	SW6010B	mg/kg	0.5	0.11	<0.68	<0.96	<0.93	
SILVER	SW6010B	mg/kg	0.5	0.029	<0.68	<0.96	<0.93	
THALLIUM	SW6010B	mg/kg	10	0.070	<14	<19	<19	
VANADIUM	SW6010B	mg/kg	10	0.024	46.1	74.4	75.3	
ZINC	SW6010B	mg/kg	10	0.19	57.7	91.1	95.5	
Dilution Factor					0.96	1.36	1.83	
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.1J	0.2J	0.2J	
Dilution Factor					1	1	1	
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	13J (a)	6J (a)	5J (a)	

APCL Analytical Report

Analysis Result

Component Analyzed	Method	Unit	PQL	MDL	HAAF-ADA-203-00	HAAF-ADA-203-06	HAAF-ADA-204-06
					03-06205-1	03-06205-2	03-06205-3
VOLATILE ORGANICS							
Dilution Factor					1.19	1.2	1.14
ACETONE	SW8260B	µg/kg	50	6.8	<8.1	87J	86J
BENZENE	SW8260B	µg/kg	5	0.21	<8.1	<11	<11
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	<8.1	<11	<11
BROMOFORM	SW8260B	µg/kg	5	0.40	<8.1	<11	<11
BROMOMETHANE	SW8260B	µg/kg	5	0.59	<8.1	<11	<11
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	<160	15J	16J
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	<8.1	7J	10
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	<8.1	<11	<11
CHLOROBENZENE	SW8260B	µg/kg	5	0.28	<8.1	<11	<11
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	<8.1	<11	<11
CHLOROETHANE	SW8260B	µg/kg	5	0.75	<8.1	<11	<11
CHLOROFORM	SW8260B	µg/kg	5	0.46	<8.1	<11	<11
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	<8.1	<11	<11
1,2-DICHLOROBENZENE	SW8260B	µg/kg	5	0.19	<8.1	<11	<11
1,3-DICHLOROBENZENE	SW8260B	µg/kg	5	0.29	<8.1	<11	<11
1,4-DICHLOROBENZENE	SW8260B	µg/kg	5	0.20	<8.1	<11	<11
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	<8.1	<11	<11
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.30	<8.1	<11	<11
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	<8.1	<11	<11
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	<8.1	<11	<11
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	<8.1	<11	<11
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	<8.1	<11	<11
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	<8.1	<11	<11
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	<8.1	<11	<11
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	<8.1	<11	<11
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	<8.1	<11	<11
2-HEXANONE	SW8260B	µg/kg	10	0.25	<16	<23	<21
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	5J	7J	6J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	<8.1	<110	<110
STYRENE	SW8260B	µg/kg	5	0.25	<8.1	<11	<11
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	<8.1	<11	<11
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	<8.1	<11	<11
TOLUENE	SW8260B	µg/kg	5	0.57	<8.1	<11	<11
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	<8.1	<11	<11
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	<8.1	<11	<11
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	<8.1	<11	<11
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	<8.1	<11	<11
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	<16	<23	<21
VINYL ACETATE	SW8260B	µg/kg	10	0.98	<16	<23	<21
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	<8.1	<11	<11
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	<24	<34	<32

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-203-00	HAAF-ADA-203-06	HAAF-ADA-204-06
					03-06205-1	03-06205-2	03-06205-3
SEMI-VOC COMPOUNDS							
Dilution Factor					1	1	1
ACENAPHTHENE	SW8270C	µg/kg	330	20	< 450	< 630	< 620
ACENAPHTHYLENE	SW8270C	µg/kg	330	21	< 450	< 630	< 620
ANTHRACENE	SW8270C	µg/kg	330	20	< 450	< 630	< 620
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	17	< 450	< 630	< 620
BENZO(A)PYRENE	SW8270C	µg/kg	330	26	< 450	< 630	< 620
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	28	< 450	< 630	< 620
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	32	< 450	< 630	< 620
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	63	< 450	< 630	< 620
BENZYL ALCOHOL	SW8270C	µg/kg	32 ^(b)	32	< 43	< 61	< 60
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	330	20	< 450	< 630	< 620
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	49	< 450	< 630	< 620
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	37	< 450	< 630	< 620
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	18	< 450	< 630	< 620
4-BROMOPHENYL-PHENYLETHER	SW8270C	µg/kg	330	16	< 450	< 630	< 620
BUTYLBENZYL PHTHALATE	SW8270C	µg/kg	330	18	< 450	< 630	< 620
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	29	< 450	< 630	< 620
4-CHLOROANILINE	SW8270C	µg/kg	110 ^(b)	110	< 150	< 210	< 210
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	29	< 450	< 630	< 620
2-CHLOROPHENOL	SW8270C	µg/kg	330	34	< 450	< 630	< 620
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	18	< 450	< 630	< 620
CHRYSENE	SW8270C	µg/kg	330	12	< 450	< 630	< 620
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	28	< 450	< 630	< 620
DI-N-OCTYL PHTHALATE	SW8270C	µg/kg	330	32	< 450	< 630	< 620
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	23	< 450	< 630	< 620
DIBENZOFURAN	SW8270C	µg/kg	330	24	< 450	< 630	< 620
1,2-DICHLOROBENZENE	SW8270C	µg/kg	330	34	< 450	< 630	< 620
1,3-DICHLOROBENZENE	SW8270C	µg/kg	330	32	< 450	< 630	< 620
1,4-DICHLOROBENZENE	SW8270C	µg/kg	330	32	< 450	< 630	< 620
3,3'-DICHLOROBENZIDINE	SW8270C	µg/kg	66 ^(b)	66	< 89	< 130	< 120
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	27	< 450	< 630	< 620
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	26	< 450	< 630	< 620
DIETHYL PHTHALATE	SW8270C	µg/kg	330	19	< 450	< 630	< 620
DIMETHYL PHTHALATE	SW8270C	µg/kg	330	20	< 450	< 630	< 620
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	26	< 450	< 630	< 620
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	125	< 2200	< 3200	< 3100
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	49	< 2200	< 3200	< 3100
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	19	< 450	< 630	< 620
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	23	< 450	< 630	< 620
FLUORANTHENE	SW8270C	µg/kg	330	16	< 450	< 630	< 620
FLUORENE	SW8270C	µg/kg	330	24	< 450	< 630	< 620
HEXACHLOROBENZENE	SW8270C	µg/kg	330	18	< 450	< 630	< 620
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	32	< 450	< 630	< 620

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-203-00	HAAF-ADA-203-06	HAAF-ADA-204-06
					03-06205-1	03-06205-2	03-06205-3
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	340 ^(b)	342	< 460	< 650	< 640
HEXACHLOROETHANE	SW8270C	µg/kg	330	30	< 450	< 630	< 620
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	27	< 450	< 630	< 620
ISOPHORONE	SW8270C	µg/kg	330	29	< 450	< 630	< 620
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	22	< 450	< 630	< 620
3/4-METHYLPHENOL	SW8270C	µg/kg	330	32	< 450	< 630	< 620
2-METHYLPHENOL	SW8270C	µg/kg	330	35	< 450	< 630	< 620
NAPHTHALENE	SW8270C	µg/kg	330	29	< 450	< 630	< 620
2-NITROANILINE	SW8270C	µg/kg	3300	105	< 4500	< 6300	< 6200
3-NITROANILINE	SW8270C	µg/kg	1700	91	< 2200	< 3200	< 3100
4-NITROANILINE	SW8270C	µg/kg	1700	85	< 2200	< 3200	< 3100
NITROBENZENE	SW8270C	µg/kg	330	29	< 450	< 630	< 620
2-NITROPHENOL	SW8270C	µg/kg	330	25	< 450	< 630	< 620
4-NITROPHENOL	SW8270C	µg/kg	1700	123	< 2200	< 3200	< 3100
N-NITROSDI-N-PROPYLAMINE	SW8270C	µg/kg	330	39	< 450	< 630	< 620
N-NITROSO-DIPHENYLAMINE	SW8270C	µg/kg	110 ^(b)	111	< 150	< 210	< 210
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	121	< 2200	< 3200	< 3100
PHENANTHRENE	SW8270C	µg/kg	330	17	< 450	< 630	< 620
PHENOL	SW8270C	µg/kg	330	34	< 450	< 630	< 620
PYRENE	SW8270C	µg/kg	330	19	< 450	< 630	< 620
1,2,4-TRICHLOROBENZENE	SW8270C	µg/kg	330	31	< 450	< 630	< 620
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	13	< 450	< 630	< 620
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	17	< 450	< 630	< 620
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	-	< 9.6	< 9.3
BETA-BHC	SW8081A	µg/kg	5	0.086	-	< 9.6	< 9.3
ALPHA-BHC	SW8081A	µg/kg	5	0.014	-	< 9.6	< 9.3
DELTA-BHC	SW8081A	µg/kg	5	0.051	-	< 9.6	< 9.3
GAMMA-BHC	SW8081A	µg/kg	5	0.036	-	< 9.6	< 9.3
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	-	< 9.6	< 9.3
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	-	< 9.6	< 9.3
4,4'-DDD	SW8081A	µg/kg	5	0.10	-	< 9.6	< 9.3
4,4'-DDE	SW8081A	µg/kg	5	0.064	-	< 9.6	< 9.3
4,4'-DDT	SW8081A	µg/kg	5	0.024	-	< 9.6	< 9.3
DIELDRIN	SW8081A	µg/kg	5	0.034	-	< 9.6	< 9.3
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	-	< 9.6	< 9.3
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	-	< 9.6	< 9.3
ENDOSULFAN SULFATE	SW8081A	µg/kg	5	0.35	-	< 9.6	< 9.3
ENDRIN	SW8081A	µg/kg	5	0.026	-	< 9.6	< 9.3
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	-	< 9.6	< 9.3
HEPTACHLOR	SW8081A	µg/kg	5	0.063	-	< 9.6	< 9.3
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	-	< 9.6	< 9.3
METHOXYCHLOR	SW8081A	µg/kg	17	0.068	-	< 33	< 32
TOXAPHENE	SW8081A	µg/kg	100	18	-	< 190	< 190

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-204-14	HAAF-ADA-206-01	HAAF-ADA-208-6
					03-06205-4	03-06205-5	03-06205-6
MOISTURE	ASTM-D2216	%Moisture	0.5	0.10	15.0	14.8	48.9
PH	9045C	pH unit	0.01	0.01	7.86	7.88	7.96
TTLC 17 METALS							
Dilution Factor					1	1	1
ANTIMONY	SW6010B	mg/kg	3	0.12	<3.5	<3.5	<5.9
ARSENIC	SW6010B	mg/kg	5	0.078	0.95J	3.7J	10.5
BARIUM	SW6010B	mg/kg	100	0.050	66.4J	147	47.3J
BERYLLIUM	SW6010B	mg/kg	0.5	0.002	0.17J	0.27J	<0.98
CADMIUM	SW6010B	mg/kg	0.5	0.022	0.25J	<0.59	<0.98
CHROMIUM	SW6010B	mg/kg	10	0.043	6.9J	9.6J	93.4
COBALT	SW6010B	mg/kg	10	0.031	9.6J	4.2J	18.1J
COPPER	SW6010B	mg/kg	10	0.060	4.2J	3.9J	37.8
LEAD	SW6010B	mg/kg	20	0.062	6.0J	8.3J	9.9J
MERCURY	SW7471A	mg/kg	0.1	0.007	0.34	0.68	0.10J
MOLYBDENUM	SW6010B	mg/kg	2	0.063	<2.4	<2.3	<3.9
NICKEL	SW6010B	mg/kg	10	0.042	4.1J	8.6J	89.9
SELENIUM	SW6010B	mg/kg	0.5	0.11	<0.59	<0.59	1.8
SILVER	SW6010B	mg/kg	0.5	0.029	0.30J	<0.59	<0.98
THALLIUM	SW6010B	mg/kg	10	0.070	<12	<12	<20
VANADIUM	SW6010B	mg/kg	10	0.024	12.2	26.8	74.0
ZINC	SW6010B	mg/kg	10	0.19	12.2	22.6	89.8
Dilution Factor					0.84	0.91	1.18
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.06J	0.06J	0.1J
Dilution Factor					1	1	1
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	<120 (a)	<120	7J (a)
VOLATILE ORGANICS							
Dilution Factor					0.78	0.87	1.62
ACETONE	SW8260B	µg/kg	50	6.8	8J	11J	50J
BENZENE	SW8260B	µg/kg	5	0.21	<4.6	<5.1	<16
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	<4.6	<5.1	<16
BROMOFORM	SW8260B	µg/kg	5	0.40	<4.6	<5.1	<16
BROMOMETHANE	SW8260B	µg/kg	5	0.59	<4.6	<5.1	<16
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	<92	<100	<320
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	<4.6	<5.1	10J
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	<4.6	<5.1	<16
CHLOROBENZENE	SW8260B	µg/kg	5	0.28	<4.6	<5.1	<16
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	<4.6	<5.1	<16
CHLOROETHANE	SW8260B	µg/kg	5	0.75	<4.6	<5.1	<16
CHLOROFORM	SW8260B	µg/kg	5	0.46	<4.6	<5.1	<16
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	<4.6	<5.1	<16
1,2-DICHLOROBENZENE	SW8260B	µg/kg	5	0.19	<4.6	<5.1	<16

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-204-14	HAAF-ADA-206-01	HAAF-ADA-208-6
					03-06205-4	03-06205-5	03-06205-6
1,3-DICHLOROBENZENE	SW8260B	µg/kg	5	0.29	<4.6	<5.1	<16
1,4-DICHLOROBENZENE	SW8260B	µg/kg	5	0.20	<4.6	<5.1	<16
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	<4.6	<5.1	<16
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.30	<4.6	<5.1	<16
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	<4.6	<5.1	<16
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	<4.6	<5.1	<16
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	<4.6	<5.1	<16
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	<4.6	<5.1	<16
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	<4.6	<5.1	<16
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	<4.6	<5.1	<16
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	<4.6	<5.1	<16
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	<4.6	<5.1	<16
2-HEXANONE	SW8260B	µg/kg	10	0.25	<9.2	<10	<32
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	3J	3J	9J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	<4.6	<5.1	<160
STYRENE	SW8260B	µg/kg	5	0.25	<4.6	<5.1	<16
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	<4.6	<5.1	<16
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	<4.6	<5.1	<16
TOLUENE	SW8260B	µg/kg	5	0.57	<4.6	<5.1	<16
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	<4.6	<5.1	<16
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	<4.6	<5.1	<16
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	<4.6	<5.1	<16
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	<4.6	<5.1	<16
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	<9.2	<10	<32
VINYL ACETATE	SW8260B	µg/kg	10	0.98	<9.2	<10	<32
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	<4.6	<5.1	<16
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	<14	<15	<48
SEMI-VOC COMPOUNDS							
Dilution Factor					1	1	1
ACENAPHTHENE	SW8270C	µg/kg	330	20	<390	<390	<650
ACENAPHTHYLENE	SW8270C	µg/kg	330	21	<390	<390	<650
ANTHRACENE	SW8270C	µg/kg	330	20	<390	<390	<650
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	17	<390	<390	<650
BENZO(A)PYRENE	SW8270C	µg/kg	330	26	<390	<390	<650
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	28	<390	<390	<650
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	32	<390	<390	<650
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	63	<390	<390	<650
BENZYL ALCOHOL	SW8270C	µg/kg	32 ^(b)	32	<38	<38	<63
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	330	20	<390	<390	<650
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	49	<390	<390	<650
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	37	<390	<390	<650
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	18	<390	<390	<650
4-BROMOPHENYL-PHENYLEETHER	SW8270C	µg/kg	330	16	<390	<390	<650
BUTYLBENZYLPHTHALATE	SW8270C	µg/kg	330	18	<390	<390	<650
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	29	<390	<390	<650
4-CHLOROANILINE	SW8270C	µg/kg	110 ^(b)	110	<130	<130	<220
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	29	<390	<390	<650

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-204-14	HAAF-ADA-206-01	HAAF-ADA-208-6
					03-06205-4	03-06205-5	03-06205-6
2-CHLOROPHENOL	SW8270C	µg/kg	330	34	< 390	< 390	< 650
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	18	< 390	< 390	< 650
CHRYSENE	SW8270C	µg/kg	330	12	< 390	< 390	< 650
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	28	< 390	< 390	< 650
DI-N-OCTYLPHTHALATE	SW8270C	µg/kg	330	32	< 390	< 390	< 650
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	23	< 390	< 390	< 650
DIBENZOFURAN	SW8270C	µg/kg	330	24	< 390	< 390	< 650
1,2-DICHLOROBENZENE	SW8270C	µg/kg	330	34	< 390	< 390	< 650
1,3-DICHLOROBENZENE	SW8270C	µg/kg	330	32	< 390	< 390	< 650
1,4-DICHLOROBENZENE	SW8270C	µg/kg	330	32	< 390	< 390	< 650
3,3'-DICHLOROBENZIDINE	SW8270C	µg/kg	66 ^(b)	66	< 78	< 77	< 130
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	27	< 390	< 390	< 650
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	26	< 390	< 390	< 650
DIETHYL PHTHALATE	SW8270C	µg/kg	330	19	< 390	< 390	< 650
DIMETHYLPHTHALATE	SW8270C	µg/kg	330	20	< 390	< 390	< 650
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	26	< 390	< 390	< 650
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	125	< 1900	< 1900	< 3200
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	49	< 1900	< 1900	< 3200
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	19	< 390	< 390	< 650
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	23	< 390	< 390	< 650
FLUORANTHENE	SW8270C	µg/kg	330	16	< 390	< 390	< 650
FLUORENE	SW8270C	µg/kg	330	24	< 390	< 390	< 650
HEXACHLOROBENZENE	SW8270C	µg/kg	330	18	< 390	< 390	< 650
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	32	< 390	< 390	< 650
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	340 ^(b)	342	< 400	< 400	< 670
HEXACHLOROETHANE	SW8270C	µg/kg	330	30	< 390	< 390	< 650
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	27	< 390	< 390	< 650
ISOPHORONE	SW8270C	µg/kg	330	29	< 390	< 390	< 650
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	22	< 390	< 390	< 650
3/4-METHYLPHENOL	SW8270C	µg/kg	330	32	< 390	< 390	< 650
2-METHYLPHENOL	SW8270C	µg/kg	330	35	< 390	< 390	< 650
NAPHTHALENE	SW8270C	µg/kg	330	29	< 390	< 390	< 650
2-NITROANILINE	SW8270C	µg/kg	3300	105	< 3900	< 3900	< 6500
3-NITROANILINE	SW8270C	µg/kg	1700	91	< 1900	< 1900	< 3200
4-NITROANILINE	SW8270C	µg/kg	1700	85	< 1900	< 1900	< 3200
NITROBENZENE	SW8270C	µg/kg	330	29	< 390	< 390	< 650
2-NITROPHENOL	SW8270C	µg/kg	330	25	< 390	< 390	< 650
4-NITROPHENOL	SW8270C	µg/kg	1700	123	< 1900	< 1900	< 3200
N-NITROSODI-N-PROPYLAMINE	SW8270C	µg/kg	330	39	< 390	< 390	< 650
N-NITROSO-DIPHENYLAMINE	SW8270C	µg/kg	110 ^(b)	111	< 130	< 130	< 220
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	121	< 1900	< 1900	< 3200
PHENANTHRENE	SW8270C	µg/kg	330	17	< 390	< 390	< 650
PHENOL	SW8270C	µg/kg	330	34	< 390	< 390	< 650
PYRENE	SW8270C	µg/kg	330	19	< 390	< 390	< 650
1,2,4-TRICHLOROBENZENE	SW8270C	µg/kg	330	31	< 390	< 390	< 650
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	13	< 390	< 390	< 650
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	17	< 390	< 390	< 650

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-204-14 03-06205-4	HAAF-ADA-206-01 03-06205-5	HAAF-ADA-208-6 03-06205-6
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	< 5.9	-	< 9.8
BETA-BHC	SW8081A	µg/kg	5	0.086	< 5.9	-	< 9.8
ALPHA-BHC	SW8081A	µg/kg	5	0.014	< 5.9	-	< 9.8
DELTA-BHC	SW8081A	µg/kg	5	0.051	< 5.9	-	< 9.8
GAMMA-BHC	SW8081A	µg/kg	5	0.036	< 5.9	-	< 9.8
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	< 5.9	-	< 9.8
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	< 5.9	-	< 9.8
4,4'-DDD	SW8081A	µg/kg	5	0.10	< 5.9	-	< 9.8
4,4'-DDE	SW8081A	µg/kg	5	0.064	< 5.9	-	< 9.8
4,4'-DDT	SW8081A	µg/kg	5	0.024	< 5.9	-	< 9.8
DIELDRIN	SW8081A	µg/kg	5	0.034	< 5.9	-	< 9.8
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	< 5.9	-	< 9.8
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	< 5.9	-	< 9.8
ENDOSULFAN SULFATE	SW8081A	µg/kg	5	0.35	< 5.9	-	< 9.8
ENDRIN	SW8081A	µg/kg	5	0.026	< 5.9	-	< 9.8
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	< 5.9	-	< 9.8
HEPTACHLOR	SW8081A	µg/kg	5	0.063	< 5.9	-	< 9.8
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	< 5.9	-	< 9.8
METHOXYCHLOR	SW8081A	µg/kg	17	0.063	< 20	-	< 33
TOXAPHENE	SW8081A	µg/kg	100	18	< 120	-	< 200

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-208-14 03-06205-7	HAAF-ADA-212-06 03-06205-8	HAAF-ADA-212-14 03-06205-9
MOISTURE	ASTM-D2216	%Moisture	0.5	0.10	15.9	42.4	14.9
PH	9045C	pH unit	0.01	0.01	7.91	5.87	7.01
TTLIC 17 METALS							
Dilution Factor					1	1	1
ANTIMONY	SW6010B	mg/kg	3	0.12	< 3.6	< 5.2	0.52J
ARSENIC	SW6010B	mg/kg	5	0.078	1.9J	9.5	3.3J
BARIUM	SW6010B	mg/kg	100	0.050	135	45.4J	28.3J
BERYLLIUM	SW6010B	mg/kg	0.5	0.002	0.20J	< 0.87	0.75
CADMIUM	SW6010B	mg/kg	0.5	0.022	< 0.59	< 0.87	< 0.59
CHROMIUM	SW6010B	mg/kg	10	0.043	14.3	78.6	18.0
COBALT	SW6010B	mg/kg	10	0.031	2.9J	15.5J	6.9J
COPPER	SW6010B	mg/kg	10	0.060	10.1J	31.4	4.2J
LEAD	SW6010B	mg/kg	20	0.062	4.7J	7.9J	15.3J
MERCURY	SW7471A	mg/kg	0.1	0.007	0.095J	0.080J	0.17
MOLYBDENUM	SW6010B	mg/kg	2	0.063	< 2.4	< 3.5	< 2.4
NICKEL	SW6010B	mg/kg	10	0.042	11.4J	77.5	14.9
SELENIUM	SW6010B	mg/kg	0.5	0.11	< 0.59	< 0.87	0.50J
SILVER	SW6010B	mg/kg	0.5	0.029	< 0.59	0.21J	< 0.59
THALLIUM	SW6010B	mg/kg	10	0.070	< 12	< 17	< 12
VANADIUM	SW6010B	mg/kg	10	0.024	17.1	62.3	30.4
ZINC	SW6010B	mg/kg	10	0.19	13.4	76.8	21.6
Dilution Factor					0.95	1.52	0.81
PHC AS GASOLINE(C6-C10)	SW8015B	mg/kg	5	0.015	0.05J	0.1J	0.04J
Dilution Factor					1	1	1
PHC AS DIESEL FUEL(C10-C28)	SW8015B	mg/kg	100	1.1	2J	5J	< 120

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Analysis Result

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-208-14 03-06205-7	HAAF-ADA-212-06 03-06205-8	HAAF-ADA-212-14 03-06205-9

VOLATILE ORGANICS

Component Analyzed	Method	Unit	PQL	MDL	HAAF-ADA-208-14 03-06205-7	HAAF-ADA-212-06 03-06205-8	HAAF-ADA-212-14 03-06205-9
Dilution Factor					0.9	1.55	0.85
ACETONE	SW8260B	µg/kg	50	6.8	12J	52J	10J
BENZENE	SW8260B	µg/kg	5	0.21	< 5.4	< 13	< 5.0
BROMODICHLOROMETHANE	SW8260B	µg/kg	5	0.94	< 5.4	< 13	< 5.0
BROMOFORM	SW8260B	µg/kg	5	0.40	< 5.4	< 13	< 5.0
BROMOMETHANE	SW8260B	µg/kg	5	0.59	< 5.4	< 13	< 5.0
2-BUTANONE (MEK)	SW8260B	µg/kg	100	3.6	< 110	< 270	< 100
CARBON DISULFIDE	SW8260B	µg/kg	5	0.21	< 5.4	69	< 5.0
CARBON TETRACHLORIDE	SW8260B	µg/kg	5	0.78	< 5.4	< 13	< 5.0
CHLOROENZENE	SW8260B	µg/kg	5	0.28	< 5.4	< 13	< 5.0
DIBROMOCHLOROMETHANE	SW8260B	µg/kg	5	0.43	< 5.4	< 13	< 5.0
CHLOROETHANE	SW8260B	µg/kg	5	0.75	< 5.4	< 13	< 5.0
CHLOROFORM	SW8260B	µg/kg	5	0.46	< 5.4	< 13	0.6J
CHLOROMETHANE	SW8260B	µg/kg	5	0.33	< 5.4	< 13	< 5.0
1,2-DICHLOROENZENE	SW8260B	µg/kg	5	0.19	< 5.4	< 13	< 5.0
1,3-DICHLOROENZENE	SW8260B	µg/kg	5	0.29	< 5.4	< 13	< 5.0
1,4-DICHLOROENZENE	SW8260B	µg/kg	5	0.20	< 5.4	< 13	< 5.0
DICHLORODIFLUOROMETHANE	SW8260B	µg/kg	5	0.77	< 5.4	< 13	< 5.0
1,1-DICHLOROETHANE	SW8260B	µg/kg	5	0.30	< 5.4	< 13	< 5.0
1,2-DICHLOROETHANE	SW8260B	µg/kg	5	0.39	< 5.4	< 13	< 5.0
1,1-DICHLOROETHENE	SW8260B	µg/kg	5	0.23	< 5.4	< 13	< 5.0
CIS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.51	< 5.4	< 13	< 5.0
TRANS-1,2-DICHLOROETHENE	SW8260B	µg/kg	5	0.40	< 5.4	< 13	< 5.0
1,2-DICHLOROPROPANE	SW8260B	µg/kg	5	0.52	< 5.4	< 13	< 5.0
CIS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.45	< 5.4	< 13	< 5.0
TRANS-1,3-DICHLOROPROPENE	SW8260B	µg/kg	5	0.28	< 5.4	< 13	< 5.0
ETHYLBENZENE	SW8260B	µg/kg	5	0.32	< 5.4	< 13	< 5.0
2-HEXANONE	SW8260B	µg/kg	10	0.25	< 11	< 27	< 10
METHYLENE CHLORIDE	SW8260B	µg/kg	5	0.52	3J	9J	4J
4-METHYL-2-PENTANONE (MIBK)	SW8260B	µg/kg	50	0.50	< 5.4	< 130	< 5.0
STYRENE	SW8260B	µg/kg	5	0.25	< 5.4	< 13	< 5.0
1,1,2,2-TETRACHLOROETHANE	SW8260B	µg/kg	5	0.47	< 5.4	< 13	< 5.0
TETRACHLOROETHENE	SW8260B	µg/kg	5	0.50	< 5.4	< 13	< 5.0
TOLUENE	SW8260B	µg/kg	5	0.57	< 5.4	< 13	< 5.0
1,1,1-TRICHLOROETHANE	SW8260B	µg/kg	5	0.78	< 5.4	< 13	< 5.0
1,1,2-TRICHLOROETHANE	SW8260B	µg/kg	5	0.60	< 5.4	< 13	< 5.0
TRICHLOROETHENE	SW8260B	µg/kg	5	0.47	< 5.4	< 13	< 5.0
TRICHLOROFLUOROMETHANE	SW8260B	µg/kg	5	0.40	< 5.4	< 13	< 5.0
1,1,2-TRICHLOROTRIFLUOROETHANE	SW8260B	µg/kg	10	0.88	< 11	< 27	< 10
VINYL ACETATE	SW8260B	µg/kg	10	0.98	< 11	< 27	< 10
VINYL CHLORIDE	SW8260B	µg/kg	5	0.52	< 5.4	< 13	< 5.0
XYLENES, TOTAL	SW8260B	µg/kg	15	0.39	< 16	< 40	< 15

APCL Analytical Report

Analysis Result

Component Analyzed	Method	Unit	PQL	MDL	HAAF-ADA-208-14	HAAF-ADA-212-06	HAAF-ADA-212-14
					03-06205-7	03-06205-8	03-06205-9
SEMI-VOC COMPOUNDS							
Dilution Factor					1	1	1
ACENAPHTHENE	SW8270C	µg/kg	330	20	<390	<570	<390
ACENAPHTHYLENE	SW8270C	µg/kg	330	21	<390	<570	<390
ANTHRACENE	SW8270C	µg/kg	330	20	<390	<570	<390
BENZO(A)ANTHRACENE	SW8270C	µg/kg	330	17	<390	<570	<390
BENZO(A)PYRENE	SW8270C	µg/kg	330	26	<390	<570	<390
BENZO(B)FLUORANTHENE	SW8270C	µg/kg	330	28	<390	<570	<390
BENZO(G,H,I)PERYLENE	SW8270C	µg/kg	330	32	<390	<570	<390
BENZO(K)FLUORANTHENE	SW8270C	µg/kg	330	63	<390	<570	<390
BENZYL ALCOHOL	SW8270C	µg/kg	32 ^(b)	32	<38	<56	<38
BIS(2-CHLOROETHOXY)METHANE	SW8270C	µg/kg	330	20	<390	<570	<390
BIS(2-CHLOROETHYL)ETHER	SW8270C	µg/kg	330	49	<390	<570	<390
BIS(2-CHLOROISOPROPYL)ETHER	SW8270C	µg/kg	330	37	<390	<570	<390
BIS(2-ETHYLHEXYL)PHTHALATE	SW8270C	µg/kg	330	18	<390	49J	<390
4-BROMOPHENYL-PHENYLETHER	SW8270C	µg/kg	330	16	<390	<570	<390
BUTYLBENZYLPHTHALATE	SW8270C	µg/kg	330	18	<390	<570	<390
4-CHLORO-3-METHYLPHENOL	SW8270C	µg/kg	330	29	<390	<570	<390
4-CHLOROANILINE	SW8270C	µg/kg	110 ^(b)	110	<130	<190	<130
2-CHLORONAPHTHALENE	SW8270C	µg/kg	330	29	<390	<570	<390
2-CHLOROPHENOL	SW8270C	µg/kg	330	34	<390	<570	<390
4-CHLOROPHENYL PHENYL ETHER	SW8270C	µg/kg	330	18	<390	<570	<390
CHRYSENE	SW8270C	µg/kg	330	12	<390	<570	<390
DI-N-BUTYL PHTHALATE	SW8270C	µg/kg	330	28	<390	<570	<390
DI-N-OCTYLPHTHALATE	SW8270C	µg/kg	330	32	<390	<570	<390
DIBENZ(A,H)ANTHRACENE	SW8270C	µg/kg	330	23	<390	<570	<390
DIBENZOFURAN	SW8270C	µg/kg	330	24	<390	<570	<390
1,2-DICHLOROBEZENE	SW8270C	µg/kg	330	34	<390	<570	<390
1,3-DICHLOROBEZENE	SW8270C	µg/kg	330	32	<390	<570	<390
1,4-DICHLOROBEZENE	SW8270C	µg/kg	330	32	<390	<570	<390
3,3'-DICHLOROBEZIDINE	SW8270C	µg/kg	66 ^(b)	66	<79	<110	<78
2,4-DICHLOROPHENOL	SW8270C	µg/kg	330	27	<390	<570	<390
2,6-DICHLOROPHENOL	SW8270C	µg/kg	330	26	<390	<570	<390
DIETHYL PHTHALATE	SW8270C	µg/kg	330	19	<390	<570	<390
DIMETHYLPHTHALATE	SW8270C	µg/kg	330	20	<390	<570	<390
2,4-DIMETHYLPHENOL	SW8270C	µg/kg	330	26	<390	<570	<390
4,6-DINITRO-2-METHYLPHENOL	SW8270C	µg/kg	1700	125	<2000	<2900	<1900
2,4-DINITROPHENOL	SW8270C	µg/kg	1700	49	<2000	<2900	<1900
2,4-DINITROTOLUENE	SW8270C	µg/kg	330	19	<390	<570	<390
2,6-DINITROTOLUENE	SW8270C	µg/kg	330	23	<390	<570	<390
FLUORANTHENE	SW8270C	µg/kg	330	16	<390	<570	<390
FLUORENE	SW8270C	µg/kg	330	24	<390	<570	<390
HEXACHLOROBEZENE	SW8270C	µg/kg	330	18	<390	<570	<390
HEXACHLOROBUTADIENE	SW8270C	µg/kg	330	32	<390	<570	<390
HEXACHLOROCYCLOPENTADIENE	SW8270C	µg/kg	340 ^(b)	342	<410	<590	<400
HEXACHLOROETHANE	SW8270C	µg/kg	330	30	<390	<570	<390
INDENO(1,2,3-C,D)PYRENE	SW8270C	µg/kg	330	27	<390	<570	<390
ISOPHORONE	SW8270C	µg/kg	330	29	<390	<570	<390
2-METHYLNAPHTHALENE	SW8270C	µg/kg	330	22	<390	<570	<390
3/4-METHYLPHENOL	SW8270C	µg/kg	330	32	<390	<570	<390
2-METHYLPHENOL	SW8270C	µg/kg	330	35	<390	<570	<390
NAPHTHALENE	SW8270C	µg/kg	330	29	<390	<570	<390

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Component Analyzed	Method	Unit	PQL	MDL	Analysis Result		
					HAAF-ADA-208-14 03-06205-7	HAAF-ADA-212-06 03-06205-8	HAAF-ADA-212-14 03-06205-9
2-NITROANILINE	SW8270C	µg/kg	3300	105	< 3900	< 5700	< 3900
3-NITROANILINE	SW8270C	µg/kg	1700	91	< 2000	< 2900	< 1900
4-NITROANILINE	SW8270C	µg/kg	1700	85	< 2000	< 2900	< 1900
NITROBENZENE	SW8270C	µg/kg	330	29	< 390	< 570	< 390
2-NITROPHENOL	SW8270C	µg/kg	330	25	< 390	< 570	< 390
4-NITROPHENOL	SW8270C	µg/kg	1700	123	< 2000	< 2900	< 1900
N-NITROSODI-N-PROPYLAMINE	SW8270C	µg/kg	330	39	< 390	< 570	< 390
N-NITROSO-DIPHENYLAMINE	SW8270C	µg/kg	110 ^(b)	111	< 130	< 190	< 130
PENTACHLOROPHENOL	SW8270C	µg/kg	1700	121	< 2000	< 2900	< 1900
PHENANTHRENE	SW8270C	µg/kg	330	17	< 390	< 570	< 390
PHENOL	SW8270C	µg/kg	330	34	< 390	< 570	< 390
PYRENE	SW8270C	µg/kg	330	19	< 390	< 570	< 390
1,2,4-TRICHLOROBENZENE	SW8270C	µg/kg	330	31	< 390	< 570	< 390
2,4,5-TRICHLOROPHENOL	SW8270C	µg/kg	330	13	< 390	< 570	< 390
2,4,6-TRICHLOROPHENOL	SW8270C	µg/kg	330	17	< 390	< 570	< 390
ORGANOCHLORINE PESTICIDES							
Dilution Factor					1	1	1
ALDRIN	SW8081A	µg/kg	5	0.18	< 5.9	< 8.7	< 5.9
BETA-BHC	SW8081A	µg/kg	5	0.036	< 5.9	< 8.7	< 5.9
ALPHA-BHC	SW8081A	µg/kg	5	0.014	< 5.9	< 8.7	< 5.9
DELTA-BHC	SW8081A	µg/kg	5	0.051	< 5.9	< 8.7	< 5.9
GAMMA-BHC	SW8081A	µg/kg	5	0.036	< 5.9	< 8.7	< 5.9
ALPHA-CHLORDANE	SW8081A	µg/kg	5	0.050	< 5.9	< 8.7	< 5.9
GAMMA-CHLORDANE	SW8081A	µg/kg	5	0.040	< 5.9	< 8.7	< 5.9
4,4'-DDD	SW8081A	µg/kg	5	0.10	< 5.9	< 8.7	< 5.9
4,4'-DDE	SW8081A	µg/kg	5	0.064	< 5.9	< 8.7	< 5.9
4,4'-DDT	SW8081A	µg/kg	5	0.024	< 5.9	< 8.7	< 5.9
DIELDRIN	SW8081A	µg/kg	5	0.034	< 5.9	< 8.7	< 5.9
ENDOSULFAN I	SW8081A	µg/kg	5	0.017	< 5.9	< 8.7	< 5.9
ENDOSULFAN II	SW8081A	µg/kg	5	0.12	< 5.9	< 8.7	< 5.9
ENDOSULFAN SULFATE	SW8081A	µg/kg	5	0.35	< 5.9	< 8.7	< 5.9
ENDRIN	SW8081A	µg/kg	5	0.026	< 5.9	< 8.7	< 5.9
ENDRIN ALDEHYDE	SW8081A	µg/kg	5	0.030	< 5.9	< 8.7	< 5.9
HEPTACHLOR	SW8081A	µg/kg	5	0.063	< 5.9	< 8.7	< 5.9
HEPTACHLOR EPOXIDE	SW8081A	µg/kg	5	0.016	< 5.9	< 8.7	< 5.9
METHOXYCHLOR	SW8081A	µg/kg	17	0.068	< 20	< 30	< 20
TOXAPHENE	SW8081A	µg/kg	100	18	< 120	< 170	< 120

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
 N.D.: Not Detected or less than the practical quantitation limit. "": Analysis is not required.

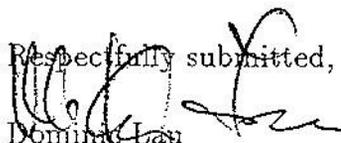
J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Unknown mixture in Diesel range.

(b) MDL reported.

Respectfully submitted,

 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

CHAIN OF CUSTODY RECORD

US ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
 Environmental Engineering Branch
 SPK-ED-E
 1325 J Street
 Sacramento, California
 95814-2922

Project Name: Northwest Alleged Disposal Area
 Project Location: Hanilton AAF
 Project Coordinator: Carolea Foug
 Phone: (916) 557-7515/FAK: (916) -557-5307
 Sampler: P. Vaststen, Tim Crummett Phone:

Laboratory: APCL
 Address: 13760 Magdalena
China, CA 91710
 Contact: Eric Wlandland
 Phone: (909) 570-1828

ANALYSIS REQUESTED →

Field	SAMPLE IDENTIFICATION	Laboratory	GRAB	COMP	DATE	TIME	ANALYSIS REQUESTED										MS/MSD	TURN AROUND TIME (DAYS)	MATRIX CODE	NUMBER OF					PRESERVATIVE CODE		
							EPA 8015B-P	EPA 8015B-F	EPA 8260 B	EPA 8270 C	EPA 9310	EPA 8081	EPA 6010	EPA 7471	PLASTIC	GLASS				VOA	SLEEVE	ENCORE					
HAAF-ADA-212-14	APCL		X		11/17/03	12:00		X		X	X	X	X	X	X	X			3								
HAAF-ADA-212-14			X		11/18/03	12:00		X		X	X	X	X	X	X	X			3								
HAAF-ADA-208-06			X		11/50			X		X	X	X	X	X	X	X			3								
HAAF-ADA-208-06			X		11/20			X		X	X	X	X	X	X	X			3								
HAAF-ADA-208-06			X		10/20			X		X	X	X	X	X	X	X			3								
HAAF-ADA-208-14			X		10/30			X		X	X	X	X	X	X	X			3								
HAAF-ADA-204-14			X		12/30			X		X	X	X	X	X	X	X			3								
HAAF-ADA-206-01			X		12/50			X		X	X	X	X	X	X	X			3								
HAAF-ADH-203-06			X		14/20			X		X	X	X	X	X	X	X			3								
HAAF-ADA-203-00			X		14/10			X		X	X	X	X	X	X	X			3								

6205

COMMENTS/SPECIAL INSTRUCTIONS:

CHECKED BY: TC
 PRESERVATIVE CODES: C = HCl N = HNO₃ S = H₂SO₄
 SAMPLE DISPOSAL: Hold Dispose Return

RELINQUISHED BY: Tim Krumwoltz DATE/TIME: 11/18/03 1600

RECEIVED BY: [Signature] DATE/TIME: 11/19/03 0900

MATRIX CODES: W = Water SI = Sludge SP = Solid Product
 S = Soil A = Air LP = Liquid Product
 Sd = Sediment

SHIPPING: Fed Ex Counter Hard Deliver
 Airbill Number: 8386 0625 3628

CHAIN OF CUSTODY RECORD



US ARMY CORPS OF ENGINEERS
SACRAMENTO DISTRICT
 Environmental Engineering Branch
 SPK-ED-E
 1325 J Street
 Sacramento, California
 95814-2922

Project Name: North West Alleged Disposal Area
 Project Location: Helm, Fern, AAP
 Project Coordinator: Carleton Fung
 Phone: 916 557-7573 FAX: (916) 557-5307
 Sampler: B. VanEtten, Tim Crumway Phone:

Laboratory: APCL
 Address: 13760 Magnolia
Chino, CA 91710
 Contact: Eric Whetland
 Phone: (909) 590-1828

ANALYSIS REQUESTED →

Field	SAMPLE IDENTIFICATION	Laboratory	GRAB	COMP	DATE	TIME	ANALYSIS REQUESTED							MS/MSD	TURN AROUND TIME (DAYS)	MATRIX CODE	NUMBER OF				PRESERVATIVE CODE		
							EPA 8015 B-P	EPA 8015 B-M	EPA 8260 B	EPA 8270 C	EPA 9310	EPA 8081	EPA 6010				EPA 7471	PLASTIC	GLASS	VOA		SLEEVE	ENCORE
HAAF-ADA-212-06	APCL		X		11/18/03	1150	X		X									6					
HAAF-ADA-208-14			X		"	1030	X		X									6					
HAAF-ADA-208-6			X			1020	X		X									6					
HAAF-ADA-206-01			X			1150	X		X									6					
HAAF-ADA-204-14			X			1230	X		X									6					
HAAF-ADA-204-06			X			1120	X		X									6					
HAAF-ADA-203-02			X			1410	X		X									6					
HAAF-ADA-203-06			X			1420	X		X									6					

COMMENTS/SPECIAL INSTRUCTIONS:

CHECKED BY: FL

PRESERVATIVE CODES: C = HCl N = HNO₃ S = H₂SO₄

SAMPLE DISPOSAL: Hold Dispose Return

MATRIX CODES: W = Water S = Sludge SP = Solid Product
 S = Soil A = Air LP = Liquid Product
 Sd = Sediment

RELINQUISHED BY: Tim Lewusts

DATE/TIME: 11/18/03 1600

RECEIVED BY: [Signature]

DATE/TIME: 11/19/03 0900

SHIPPING: Fed Ex Courier Hand Deliver
 Airbill Number: 838606253629

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Contact: Eric Wendland
Project: **(Level V)**

Report Date: January 21, 2004

Page 1 of 2

Client Sample ID: HAAF-ADA-207-5
Sample ID: 104815001
Matrix: Soil
Collect Date: 19-NOV-03 12:35
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		8.27	+/-2.04	1.72	4.00	pCi/g	ATH1 01/16/04	1518	303351	1
Beta		16.4	+/-1.97	1.94	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

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Certificate of Analysis

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Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-207-5
Sample ID: 104815001

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-207-14
Sample ID: 104815002
Matrix: Soil
Collect Date: 19-NOV-03 12:45
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		9.32	+/-2.07	1.93	4.00	pCi/g	ATH1 01/16/04	1518	303351	1
Beta		25.6	+/-2.24	1.78	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-207-14
Sample ID: 104815002

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-205-6
Sample ID: 104815003
Matrix: Soil
Collect Date: 19-NOV-03 08:30
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		7.11	+/-1.96	1.82	4.00	pCi/g	ATH1 01/16/04	1518	303351	1
Beta		10.7	+/-1.78	2.16	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- > Result is greater than amount reported.
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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-205-6
Sample ID: 104815003

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

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Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-205-14
Sample ID: 104815004
Matrix: Soil
Collect Date: 19-NOV-03 08:40
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		8.22	+/-1.99	1.67	4.00	pCi/g	ATH1 01/16/04	1518	303351	1
Beta		15.7	+/-1.87	1.73	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

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Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-205-14
Sample ID: 104815004

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-210-14
Sample ID: 104815005
Matrix: Soil
Collect Date: 19-NOV-03 10:45
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		11.9	+/-2.37	1.76	4.00	pCi/g	ATH1 01/16/04	1518	303351	1
Beta		13.8	+/-1.79	1.81	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- H Analytical holding time exceeded.
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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-210-14
Sample ID: 104815005

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-21-14
Sample ID: 104815006
Matrix: Soil
Collect Date: 19-NOV-03 12:15
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		6.60	+/-2.02	2.39	4.00	pCi/g	ATH1 01/16/04	1518	303351	1
Beta		14.2	+/-1.92	2.14	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-21-14
Sample ID: 104815006

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	-------------	------	-------	--------

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Applied P & Ch Laboratory
Address : 13760 Magnolia Ave.
Chino, California 91710

Contact: Eric Wendland
Project: (Level V)

Report Date: January 21, 2004

Page 1 of 2

Client Sample ID: HAAF-ADA-211-06
Sample ID: 104815007
Matrix: Soil
Collect Date: 19-NOV-03 09:00
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		6.82	+/-1.92	2.04	4.00	pCi/g	ATH1 01/16/04	1518	303351	1
Beta		10.7	+/-1.70	1.96	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

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Client Sample ID: HAAF-ADA-211-06
Sample ID: 104815007

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Chino, California 91710

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Contact: Eric Wendland

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Project: (Level V)

Client Sample ID: HAAF-ADA-211-14
Sample ID: 104815008
Matrix: Soil
Collect Date: 19-NOV-03 09:10
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		7.05	+/-1.97	2.34	4.00	pCi/g	ATH1 01/16/04	1907	303351	1
Beta		10.7	+/-1.63	1.90	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Client Sample ID: HAAF-ADA-211-14
Sample ID: 104815008

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: (Level V)

Report Date: January 21, 2004

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Client Sample ID: HAAF-ADA-202-02
Sample ID: 104815009
Matrix: Soil
Collect Date: 19-NOV-03 09:25
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		9.20	+/-2.13	1.70	4.00	pCi/g	ATH1 01/16/04	1907	303351	1
Beta		14.7	+/-1.87	1.92	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
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Client Sample ID: HAAF-ADA-202-02
Sample ID: 104815009

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: (Level V)

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Client Sample ID: HAAF-ADA-202-14
Sample ID: 104815010
Matrix: Soil
Collect Date: 19-NOV-03 09:45
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		6.54	+/-1.86	2.05	4.00	pCi/g	ATH1 01/16/04	1907	303351	1
Beta		11.9	+/-1.70	1.87	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Client Sample ID: HAAF-ADA-202-14
Sample ID: 104815010

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Contact: Eric Wendland
Project: (Level V)

Report Date: January 21, 2004

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Client Sample ID: HAAF-ADA-210-02
Sample ID: 104815011
Matrix: Soil
Collect Date: 19-NOV-03 10:15
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		9.44	+/-2.29	1.93	4.00	pCi/g	ATH1 01/16/04	1907	303351	1
Beta		14.7	+/-1.99	2.15	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Client Sample ID: HAAF-ADA-210-02
Sample ID: 104815011

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Page 1 of 2

Client Sample ID: HAAF-ADA-201-06
Sample ID: 104815012
Matrix: Soil
Collect Date: 19-NOV-03 11:00
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		5.57	+/-1.81	1.86	4.00	pCi/g	ATH1 01/16/04	1907	303351	1
Beta		13.0	+/-1.78	1.80	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1448	301917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
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Page 2 of 2

Client Sample ID: HAAF-ADA-201-06
Sample ID: 104815012

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-201-14
Sample ID: 104815013
Matrix: Soil
Collect Date: 19-NOV-03 11:30
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		7.24	+/-1.85	2.08	4.00	pCi/g	ATH1 01/17/04	0229	303354	1
Beta		17.6	+/-1.79	1.89	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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- UI Uncertain identification for gamma spectroscopy.
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Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-201-14
Sample ID: 104815013

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: (Level V)

Report Date: January 21, 2004

Page 1 of 2

Client Sample ID: HAAF-ADA-209-04
Sample ID: 104815014
Matrix: Soil
Collect Date: 19-NOV-03 12:00
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		9.45	+/-1.99	1.98	4.00	pCi/g	ATH1 01/17/04	0229	303354	1
Beta		15.3	+/-1.67	1.66	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
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Project: **(Level V)**

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Client Sample ID: HAAF-ADA-209-04
Sample ID: 104815014

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: (Level V)

Report Date: January 21, 2004

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Client Sample ID: HAAF-ADA-209-14
Sample ID: 104815015
Matrix: Soil
Collect Date: 19-NOV-03 12:10
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		6.46	+/-1.53	1.50	4.00	pCi/g	ATH1 01/17/04	0229	303354	1
Beta		11.1	+/-1.42	1.55	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- H Analytical holding time exceeded.
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- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
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Contact: Eric Wendland

Project: **(Level V)**

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Client Sample ID: HAAF-ADA-209-14
Sample ID: 104815015

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Contact: Eric Wendland
Project: (Level V)

Report Date: January 21, 2004

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Client Sample ID: HAAF-ADA-212-14
Sample ID: 104815016
Matrix: Soil
Collect Date: 18-NOV-03 12:00
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		5.61 +/-1.49	1.43	4.00	pCi/g		ATH1 01/17/04	0229	303354	1
Beta		9.60 +/-1.37	1.56	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
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- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
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Chino, California 91710

Report Date: January 21, 2004

Contact: Eric Wendland

Project: **(Level V)**

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Client Sample ID: HAAF-ADA-212-14
Sample ID: 104815016

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Contact: Eric Wendland
Project: (Level V)

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Client Sample ID: HAAF-ADA-212-06
Sample ID: 104815017
Matrix: Soil
Collect Date: 18-NOV-03 11:50
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		7.09	+/-1.70	1.63	4.00	pCi/g	ATH1 01/17/04	0229	303354	1
Beta		13.3	+/-1.55	1.60	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

Notes:

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Project: **(Level V)**

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Client Sample ID: HAAF-ADA-212-06
Sample ID: 104815017

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	-------------	------	-------	--------

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Project: (Level V)

Client Sample ID: HAAF-ADA-204-06
Sample ID: 104815018
Matrix: Soil
Collect Date: 18-NOV-03 11:20
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		4.71	+/-1.68	2.27	4.00	pCi/g	ATH1 01/17/04	0229	303354	1
Beta		15.0	+/-1.70	1.84	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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Project: **(Level V)**

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Client Sample ID: HAAF-ADA-204-06
Sample ID: 104815018

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: (Level V)

Client Sample ID: HAAF-ADA-208-06
Sample ID: 104815019
Matrix: Soil
Collect Date: 18-NOV-03 11:20
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		4.28	+/-1.37	1.61	4.00	pCi/g	ATH1 01/17/04	0229	303354	1
Beta		11.4	+/-1.51	1.77	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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Project: **(Level V)**

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Client Sample ID: HAAF-ADA-208-06
Sample ID: 104815019

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	-------------	------	-------	--------

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Project: (Level V)

Client Sample ID: HAAF-ADA-208-14
Sample ID: 104815020
Matrix: Soil
Collect Date: 18-NOV-03 10:30
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		6.60	+/-1.45	1.14	4.00	pCi/g	ATH1 01/17/04	0229	303354	1
Beta		10.2	+/-1.37	1.51	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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Project: **(Level V)**

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Client Sample ID: HAAF-ADA-208-14
Sample ID: 104815020

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-204-14
Sample ID: 104815021
Matrix: Soil
Collect Date: 18-NOV-03 12:30
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		3.81	+/-1.30	1.67	4.00	pCi/g	ATH1 01/18/04	1900	303354	1
Beta		7.94	+/-1.26	1.53	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-204-14
Sample ID: 104815021

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Page 1 of 2

Project: (Level V)

Client Sample ID: HAAF-ADA-206-01
Sample ID: 104815022
Matrix: Soil
Collect Date: 18-NOV-03 13:50
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		5.84	+/-1.55	1.63	4.00	pCi/g	ATH1 01/18/04	1900	303354	1
Beta		14.7	+/-1.61	1.63	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-206-01
Sample ID: 104815022

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: (Level V)

Page 1 of 2

Client Sample ID: HAAF-ADA-203-06
Sample ID: 104815023
Matrix: Soil
Collect Date: 18-NOV-03 14:20
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		7.91 +/-1.82	1.57	4.00	pCi/g		ATH1 01/18/04	1900	303354	1
Beta		14.1 +/-1.61	1.63	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-203-06
Sample ID: 104815023

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: (Level V)

Report Date: January 21, 2004

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Client Sample ID: HAAF-ADA-203-00
Sample ID: 104815024
Matrix: Soil
Collect Date: 18-NOV-03 14:10
Receive Date: 07-JAN-04
Collector: Client

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting										
<i>GFPC, Gross A/B, solid</i>										
Alpha		8.49	+/-1.79	1.57	4.00	pCi/g	ATH1 01/18/04	1901	303354	1
Beta		17.2	+/-1.71	1.61	10.0	pCi/g				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	01/08/04	1454	301918

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0 Modified	

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Project: **(Level V)**

Page 2 of 2

Client Sample ID: HAAF-ADA-203-00
Sample ID: 104815024

Project: APCL00201
Client ID: APCL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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