	CONTACTOR SUBMITTAL	Date 4/19/11

PROJECT NAME: **San Jacinto Waste Pits**

CONTRACTOR:	**USA Environment LP**	Subcontract No.		Sub.No.	**22**

To:	**John LaPlante**	**References:**	Processed Concrete - Chemistry
		Drawing/Spec:	
Subject:	**Natural Stone –Analytical**	**Detail/Section:**	
		Discipline:	

Response Requested By:		**High Priority:**	☒	**Low Priority:**	☐
Potential Impact:	**Capping of Eastern Cell**	**Cost:**	☐	**Schedule:**	☒

Attached are the results of the second sample submitted for analysis on the processed concrete from HPP.

Routing:	**Date Sent**	**Date Received**	**COMMENTS**
	4/19/11		

Reply:

☒ Conforms to design concept
☐ Conforms to design concept with revisions shown
☐ Revise and resubmit
☐ For information only
Comments:

Addressee: Sign and return original to:	**Approved By:**
	Name:
Cesar Garcia	**Title:**
	Date:

This submittal has been reviewed for general conformance to design concept only. This review does not relieve the contractor or supplier of full responsibility for adhering to the contract document and satisfactory completion of all work.

By: John P. [illegible] Date: 05-05-11
Anchor QEA, LLC

90023807

SUBMITTAL 22

Table 1
Armored Cap Material Analyte List

Parameter	Analytical Method	Reporting Limit (mg/kg)	TCEQ Tier I Residential Soil PCLs[1] (mg/kg)	TRRP Tier 1 Sediment PCLs [4] (mg/kg)	TCEQ Marine PEL[5] (mg/kg)	Required Fill Chemical Concentration Criteria (mg/kg)	San Jacinto Concrete #2 (mg/kg)	Qualifier
Metals								
Aluminum	6010B/6020	10	6.4E+04	150000	NL	63709	10000	
Antimony	6010B/6020	0.5	2.7E+00	83	NL	2.71	0.35	J
Arsenic	6010B/6020	5.0	2.5E+00	110	41.6	41.60	3.4	
Cadmium	6010B/6020	0.50	7.5E-01	1100	4.21	4.21	0.17	J
Chromium	6010B/6020	0.50	1.2E+03	36000	160.4	160.40	38	
Copper	6010B/6020	1.00	5.2E+02	21000	108.2	108.20	23	
Lead	6010B/6020	2.0	1.5E+00	500	112.18	112.18	13	
Mercury	7471A	0.020	3.9E-03	34	0.696	0.70	0.016	U
Nickel	6010B/6020	2.0	7.9E+01	1400	42.8	42.80	15	
Silver	6010B/6020	0.50	2.4E-01	350	1.77	1.77	0.078	
Zinc	6010B/6020	5.0	1.2E+03	76000	271	271.00	40	
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	8270C	0.10	2.4E+00	1500	--	2.40	0.16	U
1,2-Dichlorobenzene	8270C	0.10	8.9E+00	66000	--	8.94	0.16	U
1,3-Dichlorobenzene	8270C	0.10	3.4E+00	22000	--	3.37	0.16	U
1,4-Dichlorobenzene	8270C	0.10	1.1E+00	2300	--	1.05	0.16	U
2,4-Dimethylphenol	8270C	0.10	1.6E+00	3100	--	1.62	0.16	U
2-Methylnaphthalene	8270C	0.10	8.5E+00	2500	NL	8.53	--	
2-Methylphenol	8270C	0.10	3.6E+00	7700	--	3.56	0.16	U
4-Methylphenol	8270C	0.10	3.2E-01	770	--	0.32	0.16	U
Acenaphthene	8270C	0.01	1.2E+02	7400	0.0889	0.09	0.024	
Acenaphthylene	8270C	0.10	2.0E+02	7400	0.12787	0.13	0.016	U
Anthracene	8270C	0.10	3.4E+03	37000	0.245	0.25	0.043	
Benz[a]anthracene	8270C	0.10	5.6E+00	16	0.69253	0.69	0.24	
Benzo[a]pyrene	8270C	0.10	5.6E-01	1.6	0.76322	0.56	0.18	
Benzo[b]fluoranthene	8270C	0.10	5.7E+00	16	--	5.71	0.17	
Benzo[g,h,i]perylene	8270C	0.10	1.8E+03	3700	--	1780.34	0.11	
Benzo[k]fluoranthene	8270C	0.10	5.7E+01	160	--	57.21	0.15	
Benzoic acid	8270C	0.60	9.5E+01	610000	NL	94.65	0.82	U
Benzyl alcohol	8270C	0.10	2.9E+00	46000	NL	2.93	0.16	U
Bis[2-ethylhexyl]phthalate	8270C	0.10	4.3E+01	240	--	43.16	0.16	U
Butyl benzyl phthalate	8270C	0.10	1.3E+02	31000	--	132.49	0.16	U
Chrysene	8270C	0.10	5.6E+02	1600	0.84598	0.85	0.22	
Dibenz[a,h]anthracene	8270C	0.10	5.5E-01	1.6	0.13461	0.13	0.036	
Diethyl phthalate	8270C	0.10	7.8E+01	120000	--	77.93	0.16	U
Dimethyl phthalate	8270C	0.10	3.1E+01	120000	--	31.10	0.16	U
Di-n-butyl phthalate	8270C	0.10	1.7E+03	15000	--	1658.75	0.16	U
Di-n-octyl phthalate	8270C	0.10	1.3E+03	3100	--	1282.52	0.16	U
Fluoranthene	8270C	0.10	9.6E+02	4900	1.49354	1.49	0.39	
Fluorene	8270C	0.10	1.5E+02	4900	0.14435	0.14	0.013	J
Hexachlorobenzene	8270C	0.10	5.6E-01	8.9	NL	0.56	0.16	U
Hexachlorobutadiene	8270C	0.10	1.6E+00	31	--	1.64	0.16	U
Hexachloroethane	8270C	0.10	9.2E-01	150	--	0.92	0.16	U
Indeno[1,2,3-c,d]pyrene	8270C	0.10	5.7E+00	16	--	5.72	0.09	
Naphthalene	8270C	0.10	1.6E+01	2500	0.39064	0.39	0.016	U
N-nitrosodiphenylamine	8270C	0.10	1.4E+00	900	--	1.41	0.16	U
Pentachlorophenol	8270C	0.20	9.2E-03	56	--	0.01	0.82	U
Phenanthrene	8270C	0.10	2.1E+02	3700	0.54353	0.54	0.16	
Phenol	8270C	0.10	9.6E+00	92000	--	9.57	0.16	U
Pyrene	8270C	0.10	5.6E+02	3700	1.3976	1.40	0.41	
Volatile Organic Compounds (VOCs)								
1,1,1,2-Tetrachloroethane	8260B	0.0050	7.1E-01	2100	NL	0.71	0.006	U
1,1,1-Trichloroethane	8260B	0.0050	8.1E-01	150000	--	0.81	0.006	U
1,1,2,2-Tetrachloroethane	8260B	0.0050	1.2E-02	270	--	0.01	0.006	U
1,1,2-Trichloroethane	8260B	0.0050	1.0E-02	960	--	0.01	0.006	U

Table 1
Armored Cap Material Analyte List

Parameter	Analytical Method	Reporting Limit (mg/kg)	TCEQ Tier I Residential Soil PCLs[1] (mg/kg)	TRRP Tier 1 Sediment PCLs [4] (mg/kg)	TCEQ Marine PEL[5] (mg/kg)	Required Fill Chemical Concentration Criteria (mg/kg)	San Jacinto Concrete #2 (mg/kg)	Qualifier
1,1-Dichloroethane	8260B	0.0050	9.2E+00	73000	--	9.25	0.006	U
1,1-Dichloroethene	8260B	0.0050	2.5E-02	91	--	0.03	0.006	U
1,1-Dichloropropene	8260B	0.0050	6.7E-02	540	NL	0.07	0.006	U
1,2,3-Trichlorobenzene	8260B	0.0050	1.3E+01	460	NL	13.14	0.006	U
1,2,3-Trichloropropane	8260B	0.0050	2.7E-04	7.8	NL	0.00027	0.006	U
1,2,4-Trimethylbenzene	8260B	0.0050	4.9E+00	37000	NL	4.85	0.006	U
1,2-Dibromo-3-chloropropane	8260B	0.0100	8.7E-04	10	NL	0.00087	0.012	U
1,2-Dichloroethane	8260B	0.0050	6.9E-03	600	--	0.01	0.006	U
1,2-Dichloropropane	8260B	0.0050	1.1E-02	800	--	0.01	0.006	U
1,3,5-Trimethylbenzene	8260B	0.0050	2.7E+01	37000	NL	26.60	0.006	U
1,3-Dichloropropane	8260B	0.0050	3.2E-02	540	NL	0.03	0.006	U
1,4-Dichlorobenzene	8260B	0.0050	1.1E+00	2300	NL	1.05	0.006	U
2,2-Dichloropropane	8260B	0.0050	6.0E-02	800	NL	0.06	0.006	U
2-Butanone	8260B	0.0250	1.5E+01	440000	NL	14.64	0.03	U
2-Chlorotoluene	8260B	0.0050	4.5E+00	3100	NL	4.53	0.006	U
2-Hexanone	8260B	0.0250	1.6E-01	44000	NL	0.16	0.03	U
4-Chlorotoluene	8260B	0.0050	2.5E+00	15000	NL	2.47	0.006	U
4-Isopropyltoluene	8260B	0.0050	NL	NL	NL		0.006	U
4-Methyl-2-Pentanone	8260B	0.0250	2.5E+00	59000	NL	2.47	0.03	U
Acetone	8260B	0.0500	2.1E+01	73000	NL	21.37	0.9	
Benzene	8260B	0.0050	1.3E-02	990	--	0.01	0.006	U
Bromobenzene	8260B	0.0050	1.2E+00	15000	NL	1.16	0.006	U
Bromochloromethane	8260B	0.0050	1.5E+00	29000	NL	1.52	0.006	U
Bromodichloromethane	8260B	0.0050	3.3E-02	880	NL	0.03	0.006	U
Bromoethane	8260B	0.0100	NL	NL	NL		0.006	U
Bromoform	8260B	0.0050	3.2E-01	6900	--	0.32	0.006	U
Bromomethane	8260B	0.0100	6.5E-02	1000	--	0.07	0.012	U
Carbon Disulfide	8260B	0.0050	6.8E+00	73000	NL	6.79	0.006	U
Carbon Tetrachloride	8260B	0.0050	3.1E-02	420	--	0.03	0.006	U
Chlorobenzene	8260B	0.0050	5.5E-01	15000	--	0.55	0.006	U
Chloroethane	8260B	0.0100	1.5E+01	290000	--	15.45	0.012	U
Chloroform	8260B	0.0050	5.1E-01	7300	--	0.51	0.006	U
Chloromethane	8260B	0.0100	2.0E-01	4200	--	0.20	0.012	U
cis-1,2-Dichloroethene	8260B	0.0050	1.2E-01	7300	NL	0.12	0.006	U
cis-1,3-Dichloropropene	8260B	0.0050	3.3E-03	73	--	0.0033	0.006	U
Dibromochloromethane	8260B	0.0050	2.5E-02	650	--	0.02	0.006	U
Dibromomethane	8260B	0.0050	5.6E-01	7300	NL	0.56	0.006	U
Dichlorodifluoromethane	8260B	0.0050	1.2E+02	150000	NL	119.75	0.006	U
Ethylbenzene	8260B	0.0050	3.8E+00	73000	--	3.82	0.006	U
Ethylene Dibromide	8260B	0.0050	1.0E-04	0.64	NL	0.000103	0.006	U
Isopropylbenzene	8260B	0.0050	1.7E+02	73000	NL	173.71	0.006	U
m,p-Xylene	8260B	0.0100	5.3E+01	1000000	--	52.62	0.012	U
Methyl tert-Butyl Ether	8260B	0.0500	3.1E-01	7300	NL	0.31	0.06	U
Methylene Chloride	8260B	0.0050	6.5E-03	7300	--	0.01	0.016	
Naphthalene	8260B	0.0050	1.6E+01	2500	NL	15.62	0.006	U
n-Butylbenzene	8260B	0.0050	6.1E+01	6100	NL	60.67	0.006	U
n-Propylbenzene	8260B	0.0050	2.2E+01	29000	NL	22.41	0.006	U
o-Xylene	8260B	0.0050	3.5E+01	1000000	--	35.36	0.006	U
sec-Butylbenzene	8260B	0.0050	4.2E+01	29000	NL	42.41	0.006	U
Styrene	8260B	0.0050	1.6E+00	150000	NL	1.63	0.006	U
tert-Butylbenzene	8260B	0.0050	5.0E+01	29000	NL	49.99	0.006	U
Tetrachloroethene	8260B	0.0050	2.5E-02	1000	--	0.03	0.006	U
Toluene	8260B	0.0050	4.1E+00	150000	--	4.11	0.006	U
trans-1,2-Dichloroethene	8260B	0.0050	2.5E-01	15000	--	0.25	0.006	U
trans-1,3-Dichloropropene	8260B	0.0050	1.8E-02	540	--	0.02	0.006	U
Trichloroethene	8260B	0.0050	1.7E-02	4400	--	0.02	0.006	U

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Armored Cap Material Analyte List

Parameter	Analytical Method	Reporting Limit (mg/kg)	TCEQ Tier I Residential Soil PCLs[1] (mg/kg)	TRRP Tier 1 Sediment PCLs [4] (mg/kg)	TCEQ Marine PEL[5] (mg/kg)	Required Fill Chemical Concentration Criteria (mg/kg)	San Jacinto Concrete #2 (mg/kg)	Qualifier
Trichlorofluoromethane	8260B	0.0050	6.4E+01	220000	NL	63.99	0.006	U
Vinyl Chloride	8260B	0.0100	1.1E-02	36	--	0.011	0.012	U
Organochlorine Pesticides								
DDD	8081A	0.0050	6.5E+00	120	--	6.48	0.004	U
DDE	8081A	0.0050	5.9E+00	87	--	5.89	0.004	U
DDT	8081A	0.0050	5.4E+00	87	0.0517	0.05	0.004	U
Aldrin	8081A	0.0050	5.0E-02	0.84	--	0.05	0.0021	U
Dieldrin	8081A	0.0010	2.4E-02	0.89	0.0043	0.00430	0.004	U
alpha-BHC	8081A	0.0005	4.0E-03	4.1	--	0.00396	0.0021	U
beta-BHC	8081A	0.0050	1.4E-02	14	--	0.01	0.0021	U
delta-BHC	8081A	0.0050	8.7E-02	14	--	0.09	0.0021	U
gamma-BHC (Lindane)	8081A	0.0005	4.6E-03	20	0.00099	0.0010	0.0021	U
alpha-Chlordane	8081A	0.0050	1.3E+01	41	NL	12.77	0.0021	U
gamma-Chlordane	8081A	0.0050	7.3E+00	73	NL	7.33	0.0021	U
alpha-Endosulfan	8081A	0.0050	2.3E+00	310	--	2.31	0.0021	U
beta-Endosulfan	8081A	0.0050	2.3E+00	920	--	2.31	0.004	U
Endosulfan sulfate	8081A	0.0050	3.8E+02	920	--	384.52	0.004	U
Endrin	8081A	0.0050	3.8E-01	46	--	0.38	0.004	U
Endrin aldehyde	8081A	0.0050	1.9E+01	46	NL	19.37	0.004	U
Endrin ketone	8081A	0.0050	1.9E+01	46	NL	18.59	0.004	U
Heptachlor	8081A	0.0050	9.4E-02	3.2	--	0.09	0.0021	U
Heptachlor epoxide	8081A	0.0050	2.9E-02	1.6	--	0.03	0.0021	U
Methoxychlor	8081A	0.010	6.2E+01	770	--	62.14	0.021	U
Mirex	8081A	0.0050	1.3E+01	NL	--	13.31	0.021	U
cis-Nonachlor	8081A	0.0050	5.6E+00	41	NL	5.59	0.0021	U
Oxychlordane	8081A	0.0050	5.6E+00	41	NL	5.59	0.0021	U
Toxaphene	8081A	0.20	1.2E+00	13	--	1.24	0.21	U
Trans-Nonachlor	8081A	0.0050	5.6E+00	41	NL	5.59	0.0021	U
Chlorinated Herbicides								
2,4,5-T	8151	0.020	NL	NL	--		0.01	U
2,4-D	8151	0.050	NL	2500	--	2500.00	0.01	U
2,4-DB	8151	0.20	NL	2500	--	2500.00	0.01	U
Dalapon	8151	0.500	2.9E-01	4600	NL	0.29	2.4	U
Dicamba	8151	0.020	7.3E-01	4600	NL	0.73	0.024	U
Dichlorprop	8151	0.050	2.3E-01	1500	NL	0.23	0.12	U
Dinoseb	8151	0.025	1.8E-01	150	NL	0.18	0.12	U
MCPA	8151	1	1.2E-02	77	NL	0.01	2.4	U
MCPP	8151	1	2.3E-02	150	NL	0.02	2.4	U
Silvex	8151	0.020	2.6E+00	1200	NL	2.65	0.01	U
Polychlorinated Biphenyls (PCBs)								
Total PCBs	8082	0.070	1.1E+00	2.3	0.1887	0.19	0.081	U
Dioxin/Furans, ng/kg								
Dioxins		ng/kg [2]	ng/kg [2]	ng/kg [2]	ng/kg [2]	ng/kg [2]		
2,3,7,8-TCDD	1613B	1.0	(3)	(3)	NL	(3)	0.41	U
1,2,3,7,8-PeCDD	1613B	5.0	(3)	(3)	NL	(3)	0.84	U
1,2,3,4,7,8-HxCDD	1613B	5.0	(3)	(3)	NL	(3)	0.5	U
1,2,3,6,7,8-HxCDD	1613B	5.0	(3)	(3)	NL	(3)	0.46	U
1,2,3,7,8,9-HxCDD	1613B	5.0	(3)	(3)	NL	(3)	0.4	U
1,2,3,4,6,7,8-HpCDD	1613B	5.0	(3)	(3)	NL	(3)	21	
OCDD	1613B	10	(3)	(3)	NL	(3)	310	
Furans								
2,3,7,8-TCDF	1613B	1.0	(3)	(3)	NL	(3)	0.72	U
1,2,3,7,8-PeCDF	1613B	5.0	(3)	(3)	NL	(3)	1.2	U
2,3,4,7,8,-PeCDF	1613B	5.0	(3)	(3)	NL	(3)	1.3	U
1,2,3,4,7,8-HxCDF	1613B	5.0	(3)	(3)	NL	(3)	0.44	U

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1,2,3,6,7,8-HxCDF	1613B	5.0	(3)	(3)	NL	(3)	0.37	U
1,2,3,7,8,9-HxCDF	1613B	5.0	(3)	(3)	NL	(3)	0.47	U
2,3,4,6,7,8-HxCDF	1613B	5.0	(3)	(3)	NL	(3)	0.36	U
1,2,3,4,6,7,8-HpCDF	1613B	5.0	(3)	(3)	NL	(3)	1.7	U
1,2,3,4,7,8,9-HpCDF	1613B	5.0	(3)	(3)	NL	(3)	0.56	U
OCDF	1613B	10	(3)	(3)	NL	(3)	5.6	U
TEQ (U=1/2)							1.34	

Notes:

1. TCEQ TRRP Tier I Residential Soil PCL Values, 30-acre source area, includes Total Soil Combined and GW Soil Ingestion (Class 1) exposure routes.
2. Dioxin/furan concentrations expressed in ng/kg. All other concentrations in table expressed in mg/kg.
3. Acceptable dioxin/furan concentration is less than 0.45 ng/kg of 2,3,7,8-TCDD and 5 ng/kg TEQ based on WHO 2005[6] TEFs.
4. TCEQ TRRP Tier 1 Sediment PCL Values, includes ingestion and dermal pathways
5. TCEQ Guidance for Assessing Texas Surface and Finished Drinking Water Quality Data, 2004
6. Van den Berg et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicological Sciences 93(2): 223-241.
7. This result reflects only 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT accordingly.

U Not detected
J Estimated value
NL Not Listed
-- No value given

ANALYTICAL REPORT

Job Number: 700-56993-1

SDG Number: 700-56993-1

Job Description: Pesticides in Soils

For:
USA Environment,LP
PO BOX 87687
Houston, TX 77287

Attention: Mr. Ed Fendley

Approved for release.
Suzy Lindblom
Project Manager I
4/19/2011 11:30 AM

Suzy Lindblom
Project Manager I
suzy.lindblom@testamericainc.com
04/19/2011

This statement certifies, to the best of the laboratory's knowledge, all test results meet the requirements of NELAC, except where noted in the case narrative. TestAmerica Mobile Certifications and Approvals: Alabama (Micro & DW - #40030); Arkansas (NPW - #09-028-0); Florida (DW, NPW, SCM, BT – E87089); Georgia (DW - #952); Louisiana (NPW, SCM, BT - #01992); Louisiana (DW LA090026); Mississippi (DW-CERT LETTER); North Carolina (NPW - #395); South Carolina (NPW - #75002); Tennessee (DW - #TN02979); Texas (T104704460-09A-TX); USDA (Permit # P330-08-00039); Washington (C1918).

Job Narrative
700-56993-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample(s) was diluted due to the nature of the sample matrix: dark thick liquid. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 98891 recovered outside acceptance criteria, low biased, for benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthtacene, and benzo(g,h,i)perylene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Only the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) were analyzed and met the criteria limits. Therefore, the data has been reported.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B/8082A: Internal standard (ISTD) response for the following sample(s) was outside control limits: SS - 8 (700-56934-1), SS - 8 MS (700-56934-1 MS), SS - 8 MSD (700-56934-1 MSD). The sample(s) was re-analyzed with concurring results. The original set of data has been reported.

Method(s) 8081B/8082A: there are two surrogates : One passed and one failed which is allowable in the Test America Mobile Quality Assurance Manual.

Method(s) 8081B/8082A: The surrogate Tetrachloro-m-xylene fail but surrogate DCB pass.

Method(s) 8081B/8082A: The (LCS and MS) and / or (LCSD and MSD) for batch 98622 exceeded control limits for the following analytes: 4,4-DDT and methoxyclor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8151A: Surrogate recovery for the following sample(s) was outside the upper control limit: (MB 700-98601/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals
Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 98658 were outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries met acceptance criteria.

A post digestion spike (PDS) was performed and recovered at 80% (75-125%).

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL MOB	SW846 8260C	
Purge and Trap	TAL MOB		SW846 5030C
Semivolatile Organic Compounds (GC/MS)	TAL MOB	SW846 8270D	
Ultrasonic Extraction	TAL MOB		SW846 3550C
Semivolatile Organic Compounds by GC/MS - Low Level	TAL MOB	SW846 8270D LL	
Ultrasonic Extraction	TAL MOB		SW846 3550C
Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	TAL MOB	SW846 8081B/8082A	
Ultrasonic Extraction	TAL MOB		SW846 3550C
Herbicides (GC)	TAL MOB	SW846 8151A	
Extraction (Herbicides)	TAL MOB		SW846 8151A
Metals (ICP/MS)	TAL MOB	SW846 6020	
Preparation, Metals	TAL MOB		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL MOB	SW846 7471B	
Preparation, Mercury	TAL MOB		SW846 7471B
Percent Moisture	TAL MOB	EPA Moisture	
EPA 1613B Dioxin	TAL WSC	EPA 1613B	

Lab References:

TAL MOB = TestAmerica Mobile

TAL WSC = TestAmerica West Sacramento

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method	Analyst	Analyst ID
SW846 8260C	Var, Kerry	KBV
SW846 8270D	Polk, LanHuong N	LNP
SW846 8270D LL	Polk, LanHuong N	LNP
SW846 8081B/8082A	Tran, Luther	LT
SW846 8151A	Tran, Luther	LT
SW846 6020	Thompson, Cheri D	CDT
SW846 7471B	Phothisat, Phukham N	PNP
EPA Moisture	Bolivar, Maria E	MEB

SAMPLE SUMMARY

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-56993-4	Composite	Solid	03/31/2011 0000	04/01/2011 0830

SAMPLE RESULTS

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	700-98841	Instrument ID:	VMG
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G040617.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Analysis Date:	04/06/2011 1702			Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1702				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		6.0	U	1.4	6.0
1,1,1-Trichloroethane		6.0	U	1.8	6.0
1,1,2,2-Tetrachloroethane		6.0	U	2.0	6.0
1,1,2-Trichloroethane		6.0	U	1.4	6.0
1,1-Dichloroethane		6.0	U	1.2	6.0
1,1-Dichloroethene		6.0	U	1.6	6.0
1,1-Dichloropropene		6.0	U	1.7	6.0
1,2,3-Trichlorobenzene		6.0	U	2.4	6.0
1,2,3-Trichloropropane		6.0	U	3.1	6.0
1,2,4-Trimethylbenzene		6.0	U	0.79	6.0
1,2-Dibromo-3-Chloropropane		12	U	3.6	12
1,2-Dichloroethane		6.0	U	2.4	6.0
1,2-Dichloropropane		6.0	U	1.4	6.0
1,3,5-Trimethylbenzene		6.0	U	0.72	6.0
1,3-Dichloropropane		6.0	U	1.6	6.0
1,4-Dichlorobenzene		6.0	U	0.98	6.0
2,2-Dichloropropane		6.0	U	1.7	6.0
2-Butanone (MEK)		30	U	13	30
2-Chlorotoluene		6.0	U	1.3	6.0
2-Hexanone		30	U	13	30
4-Chlorotoluene		6.0	U	0.88	6.0
4-Isopropyltoluene		6.0	U	1.2	6.0
4-Methyl-2-pentanone (MIBK)		30	U	13	30
Acetone		900	B	6.1	60
Benzene		6.0	U	1.3	6.0
Bromobenzene		6.0	U	2.1	6.0
Bromoform		6.0	U	1.3	6.0
Bromomethane		12	U	4.3	12
Carbon disulfide		6.0	U	0.93	6.0
Carbon tetrachloride		6.0	U	1.7	6.0
Chlorobenzene		6.0	U	1.3	6.0
Chlorobromomethane		6.0	U	1.4	6.0
Chlorodibromomethane		6.0	U	1.4	6.0
Chloroethane		12	U	1.8	12
Chloroform		6.0	U	0.98	6.0
Chloromethane		12	U	2.7	12
cis-1,2-Dichloroethene		6.0	U	1.1	6.0
cis-1,3-Dichloropropene		6.0	U	1.2	6.0
Dibromomethane		6.0	U	0.41	6.0
Dichlorobromomethane		6.0	U	1.4	6.0
Dichlorodifluoromethane		6.0	U	1.4	6.0
Ethylbenzene		6.0	U	2.1	6.0
Ethylene Dibromide		6.0	U	1.4	6.0
Isopropylbenzene		6.0	U	0.93	6.0
Methyl tert-butyl ether		60	U	3.8	60
Methylene Chloride		16		1.9	6.0

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	700-98841	Instrument ID:	VMG
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G040617.D
Dilution:	1.0			Initial Weight/Volume:	5.06 g
Analysis Date:	04/06/2011 1702			Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1702				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
m-Xylene & p-Xylene		12	U	0.88	12
Naphthalene		6.0	U	4.2	6.0
n-Butylbenzene		6.0	U	1.6	6.0
N-Propylbenzene		6.0	U	0.67	6.0
o-Xylene		6.0	U	0.72	6.0
sec-Butylbenzene		6.0	U	0.82	6.0
Styrene		6.0	U	0.73	6.0
tert-Butylbenzene		6.0	U	0.81	6.0
Tetrachloroethene		6.0	U	1.1	6.0
Toluene		6.0	U	1.2	6.0
trans-1,2-Dichloroethene		6.0	U	1.2	6.0
trans-1,3-Dichloropropene		6.0	U	1.2	6.0
Trichloroethene		6.0	U	1.1	6.0
Trichlorofluoromethane		6.0	U	1.6	6.0
Vinyl chloride		12	U	1.9	12
Xylenes, Total		12	U	1.6	12
Bromoethane		6.0	U	3.8	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		30 - 126
Dibromofluoromethane	79		30 - 140
Toluene-d8 (Surr)	97		42 - 130

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	700-98842	Instrument ID:	SMC
Prep Method:	3550C	Prep Batch:	700-98662	Lab File ID:	C040722.D
Dilution:	2.0			Initial Weight/Volume:	30.0 g
Analysis Date:	04/07/2011 2217			Final Weight/Volume:	1.0 mL
Prep Date:	04/05/2011 1000			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		160	U	53	160
1,2-Dichlorobenzene		160	U	87	160
1,3-Dinitrobenzene		160	U	160	160
1,4-Dichlorobenzene		160	U	34	160
2,4-Dimethylphenol		160	U	130	160
2-Methylphenol		160	U	140	160
3 & 4 Methylphenol		160	U	87	160
Benzoic acid		820	U	77	820
Benzyl alcohol		160	U	87	160
Bis(2-ethylhexyl) phthalate		160	U	120	160
Butyl benzyl phthalate		160	U	87	160
Diethyl phthalate		160	U	87	160
Dimethyl phthalate		160	U	100	160
Di-n-butyl phthalate		160	U	82	160
Di-n-octyl phthalate		160	U	82	160
Hexachlorobenzene		160	U	87	160
Hexachlorobutadiene		160	U	63	160
Hexachloroethane		160	U	68	160
N-Nitrosodiphenylamine		160	U	87	160
Pentachlorophenol		820	U *	68	820
Phenol		160	U	68	160

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	10		5.0 - 130
2-Fluorobiphenyl	68		31 - 130
2-Fluorophenol (Surr)	60		10 - 128
Nitrobenzene-d5 (Surr)	64		35 - 130
Phenol-d5 (Surr)	64		29 - 130
Terphenyl-d14 (Surr)	91		37 - 149

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

8270D LL Semivolatile Organic Compounds by GC/MS - Low Level

Analysis Method:	8270D LL	Analysis Batch:	700-98881	Instrument ID:	SMG
Prep Method:	3550C	Prep Batch:	700-98662	Lab File ID:	G040721.D
Dilution:	2.0			Initial Weight/Volume:	30.0 g
Analysis Date:	04/07/2011 1910			Final Weight/Volume:	1.0 mL
Prep Date:	04/05/2011 1000			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1-Methylnaphthalene		4.4	J	4.1	16
Acenaphthene		24		7.5	16
Acenaphthylene		16	U	4.3	16
Anthracene		43		11	16
Benzo[k]fluoranthene		150		6.3	16
Benzo[g,h,i]perylene		110		6.0	16
Benzo[b]fluoranthene		170		6.8	16
Benzo[a]pyrene		180		7.7	16
Benzo[a]anthracene		240		5.1	16
Chrysene		220		4.6	16
Dibenz(a,h)anthracene		36		9.9	16
Fluoranthene		390		4.3	16
Fluorene		13	J	6.8	16
Naphthalene		16	U	8.2	16
Phenanthrene		160		5.3	16
Pyrene		410		4.1	16
Indeno[1,2,3-cd]pyrene		90		7.2	16

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5 (Surr)	64		30 - 130
Terphenyl-d14 (Surr)	99		30 - 149
2-Fluorobiphenyl	69		31 - 130

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analysis Method:	8081B/8082A	Analysis Batch:	700-98659	Instrument ID:	SGZ
Prep Method:	3550C	Prep Batch:	700-98622	Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Analysis Date:	04/04/2011 2221			Injection Volume:	2 uL
Prep Date:	04/04/2011 1201			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Chlordane (technical)		21	U	1.8	21
beta-BHC		2.1	U	0.14	2.1
alpha-Chlordane		2.1	U	0.12	2.1
alpha-BHC		2.1	U	0.14	2.1
Aldrin		2.1	U	0.35	2.1
4,4'-DDT		4.0	U *	0.65	4.0
4,4'-DDE		4.0	U	0.36	4.0
4,4'-DDD		4.0	U	0.41	4.0
2,4'-DDT		4.0	U	0.65	4.0
2,4'-DDE		4.0	U	0.36	4.0
2,4'-DDD		4.0	U	0.41	4.0
delta-BHC		2.1	U	0.30	2.1
Dieldrin		4.0	U	0.31	4.0
Endosulfan, alpha		2.1	U	0.14	2.1
Endosulfan, beta		4.0	U	0.47	4.0
Endosulfan sulfate		4.0	U	0.41	4.0
Endrin		4.0	U	0.46	4.0
Endrin aldehyde		4.0	U	0.46	4.0
Endrin ketone		4.0	U	0.36	4.0
gamma-BHC (Lindane)		2.1	U	0.13	2.1
gamma-Chlordane		2.1	U	0.12	2.1
Heptachlor		2.1	U	0.23	2.1
Heptachlor epoxide		2.1	U	0.16	2.1
Methoxychlor		21	U *	0.34	21
Mirex		21	U	21	21
Toxaphene		210	U	13	210
cis-Nonachlor		2.1	U	0.025	2.1
oxy-Chlordane		2.1	U	0.021	2.1
trans-Nonachlor		2.1	U	0.049	2.1

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	32		30 - 150
Tetrachloro-m-xylene	31		30 - 150

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

8081B/8082A Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analysis Method:	8081B/8082A	Analysis Batch:	700-98688	Instrument ID:	SGZ
Prep Method:	3550C	Prep Batch:	700-98622	Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Analysis Date:	04/05/2011 0542			Injection Volume:	2 uL
Prep Date:	04/04/2011 1201			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		40	U	3.6	40
PCB-1221		81	U	2.2	81
PCB-1232		40	U	4.5	40
PCB-1242		40	U	3.4	40
PCB-1248		40	U	5.2	40
PCB-1254		40	U	3.7	40
PCB-1260		40	U	3.1	40

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	700-98743	Instrument ID:	SGY
Prep Method:	8151A	Prep Batch:	700-98601	Initial Weight/Volume:	50.0 g
Dilution:	4.0			Final Weight/Volume:	5.0 mL
Analysis Date:	04/06/2011 0039			Injection Volume:	0.5 uL
Prep Date:	04/04/2011 1000			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4,5-T		10	U	1.6	10
2,4-D		10	U	3.5	10
2,4-DB		10	U	5.8	10
Dalapon		2400	U	1.1	2400
Dicamba		24	U	1.9	24
Dichlorprop		120	U	1.6	120
Dinoseb		120	U	1.9	120
MCPA		2400	U	58	2400
MCPP		2400	U	110	2400
Silvex (2,4,5-TP)		10	U	2.1	10

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	47		10 - 135

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid
% Moisture: 17.1

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	700-98782	Instrument ID:	ICPMS
Prep Method:	3050B	Prep Batch:	700-98746	Lab File ID:	0406107.D#.raw
Dilution:	10			Initial Weight/Volume:	0.80 g
Analysis Date:	04/07/2011 1122			Final Weight/Volume:	50 mL
Prep Date:	04/06/2011 1050				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Ag		0.078		0.0075	0.075
As		3.4		0.083	0.38
Cd		0.17	J	0.15	0.38
Cr		38		0.14	0.38
Cu		23		0.30	0.75
Ni		15		0.12	0.38
Pb		13		0.056	0.19
Sb		0.35	J	0.091	0.38
Zn		40		1.5	3.0

Analysis Method:	6020	Analysis Batch:	700-99152	Instrument ID:	ICPMS
Prep Method:	3050B	Prep Batch:	700-98746	Lab File ID:	0414064.D#.raw
Dilution:	20			Initial Weight/Volume:	0.80 g
Analysis Date:	04/14/2011 2231			Final Weight/Volume:	50 mL
Prep Date:	04/06/2011 1050				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Al		10000		6.3	7.5

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analysis Method:	7471B	Analysis Batch:	700-98647	Instrument ID:	LEEMAN HYDRA
Prep Method:	7471B	Prep Batch:	700-98658	Lab File ID:	04042011.CSV
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	04/05/2011 1205			Final Weight/Volume:	40 mL
Prep Date:	04/05/2011 0910				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	U	0.0096	0.016

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

General Chemistry

Client Sample ID: **Composite**

Lab Sample ID: 700-56993-4
Client Matrix: Solid

Date Sampled: 03/31/2011 0000
Date Received: 04/01/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-98864	Analysis Date: 04/08/2011 0943						DryWt Corrected: N
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-98864	Analysis Date: 04/08/2011 0943						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
	X	Surrogate is outside control limits
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98841

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 700-98841/13	Analysis Batch:	700-98841	Instrument ID:	VMG
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G040615.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/06/2011 1600	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1600				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	5.0	U	1.2	5.0
1,1,1-Trichloroethane	5.0	U	1.5	5.0
1,1,2,2-Tetrachloroethane	5.0	U	1.7	5.0
1,1,2-Trichloroethane	5.0	U	1.2	5.0
1,1-Dichloroethane	5.0	U	1.0	5.0
1,1-Dichloroethene	5.0	U	1.3	5.0
1,1-Dichloropropene	5.0	U	1.4	5.0
1,2,3-Trichlorobenzene	5.0	U	2.0	5.0
1,2,3-Trichloropropane	5.0	U	2.6	5.0
1,2,4-Trimethylbenzene	5.0	U	0.66	5.0
1,2-Dibromo-3-Chloropropane	10	U	3.0	10
1,2-Dichloroethane	5.0	U	2.0	5.0
1,2-Dichloropropane	5.0	U	1.2	5.0
1,3,5-Trimethylbenzene	5.0	U	0.60	5.0
1,3-Dichloropropane	5.0	U	1.3	5.0
1,4-Dichlorobenzene	5.0	U	0.82	5.0
2,2-Dichloropropane	5.0	U	1.4	5.0
2-Butanone (MEK)	25	U	11	25
2-Chlorotoluene	5.0	U	1.1	5.0
2-Hexanone	25	U	11	25
4-Chlorotoluene	5.0	U	0.74	5.0
4-Isopropyltoluene	5.0	U	1.0	5.0
4-Methyl-2-pentanone (MIBK)	25	U	11	25
Acetone	6.00	J	5.1	50
Benzene	5.0	U	1.1	5.0
Bromobenzene	5.0	U	1.8	5.0
Bromoform	5.0	U	1.1	5.0
Bromomethane	10	U	3.6	10
Carbon disulfide	5.0	U	0.78	5.0
Carbon tetrachloride	5.0	U	1.4	5.0
Chlorobenzene	5.0	U	1.1	5.0
Chlorobromomethane	5.0	U	1.2	5.0
Chlorodibromomethane	5.0	U	1.2	5.0
Chloroethane	10	U	1.5	10
Chloroform	5.0	U	0.82	5.0
Chloromethane	10	U	2.3	10
cis-1,2-Dichloroethene	5.0	U	0.96	5.0
cis-1,3-Dichloropropene	5.0	U	1.0	5.0
Dibromomethane	5.0	U	0.34	5.0
Dichlorobromomethane	5.0	U	1.2	5.0
Dichlorodifluoromethane	5.0	U	1.2	5.0
Ethylbenzene	5.0	U	1.8	5.0
Ethylene Dibromide	5.0	U	1.2	5.0
Isopropylbenzene	5.0	U	0.78	5.0
Methyl tert-butyl ether	50	U	3.2	50

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98841

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 700-98841/13	Analysis Batch:	700-98841	Instrument ID:	VMG
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G040615.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/06/2011 1600	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1600				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Methylene Chloride	5.0	U	1.6	5.0
m-Xylene & p-Xylene	10	U	0.74	10
Naphthalene	5.0	U	3.5	5.0
n-Butylbenzene	5.0	U	1.3	5.0
N-Propylbenzene	5.0	U	0.56	5.0
o-Xylene	5.0	U	0.60	5.0
sec-Butylbenzene	5.0	U	0.69	5.0
Styrene	5.0	U	0.61	5.0
tert-Butylbenzene	5.0	U	0.68	5.0
Tetrachloroethene	5.0	U	0.90	5.0
Toluene	5.0	U	1.0	5.0
trans-1,2-Dichloroethene	5.0	U	0.99	5.0
trans-1,3-Dichloropropene	5.0	U	0.97	5.0
Trichloroethene	5.0	U	0.90	5.0
Trichlorofluoromethane	5.0	U	1.3	5.0
Vinyl chloride	10	U	1.6	10
Xylenes, Total	10	U	1.3	10
Bromoethane	5.0	U	3.2	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	30 - 126
Dibromofluoromethane	98	30 - 140
Toluene-d8 (Surr)	99	42 - 130

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Reporting Limit Check - Batch: 700-98841

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MRL 700-98841/10	Analysis Batch:	700-98841	Instrument ID:	VMG
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G040612.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/06/2011 1426	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1426				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	1.00	5.0	89	50 - 150	U
1,1,1-Trichloroethane	1.00	5.0	124	50 - 150	U
1,1,2,2-Tetrachloroethane	1.00	5.0	120	50 - 150	U
1,1,2-Trichloroethane	1.00	1.30	130	50 - 150	J
1,1-Dichloroethane	1.00	1.19	119	50 - 150	J
1,1-Dichloroethene	1.00	1.52	152	50 - 150	J ^
1,1-Dichloropropene	1.00	5.0	113	50 - 150	U
1,2,3-Trichlorobenzene	1.00	5.0	138	50 - 150	U
1,2-Dibromo-3-Chloropropane	1.00	10	127	1 - 150	U
1,2-Dichloroethane	1.00	5.0	128	50 - 150	U
1,2-Dichloropropane	1.00	5.0	117	50 - 150	U
1,3,5-Trimethylbenzene	1.00	1.11	111	50 - 150	J
1,3-Dichloropropane	1.00	5.0	125	50 - 150	U
1,4-Dichlorobenzene	1.00	1.32	132	50 - 150	J
2,2-Dichloropropane	1.00	5.0	133	50 - 150	U
2-Chlorotoluene	1.00	5.0	104	50 - 150	U
2-Hexanone	5.00	25	134	50 - 200	U
4-Chlorotoluene	1.00	1.06	106	50 - 150	J
4-Isopropyltoluene	1.00	5.0	99	50 - 150	U
4-Methyl-2-pentanone (MIBK)	5.00	25	145	50 - 150	U
Acetone	5.00	8.97	179	50 - 200	J
Benzene	1.00	1.21	121	50 - 150	J
Bromobenzene	1.00	5.0	115	50 - 150	U
Bromoform	1.00	5.0	78	50 - 150	U
Bromomethane	1.00	10	120	50 - 150	U
Carbon disulfide	1.00	1.14	114	1 - 200	J
Carbon tetrachloride	1.00	5.0	132	50 - 200	U
Chlorobenzene	1.00	1.22	122	50 - 150	J
Chlorobromomethane	1.00	1.24	124	50 - 150	J
Chlorodibromomethane	1.00	5.0	84	50 - 150	U
Chloroethane	1.00	10	144	50 - 150	U
Chloroform	1.00	1.22	122	50 - 150	J
Chloromethane	1.00	10	99	50 - 150	U
cis-1,2-Dichloroethene	1.00	1.19	119	50 - 150	J
cis-1,3-Dichloropropene	1.00	1.09	109	50 - 150	J
Dibromomethane	1.00	1.40	140	50 - 150	J
Dichlorobromomethane	1.00	5.0	103	50 - 150	U
Dichlorodifluoromethane	1.00	5.0	118	50 - 150	U
Ethylbenzene	1.00	5.0	114	50 - 150	U
Ethylene Dibromide	1.00	5.0	107	50 - 150	U
Isopropylbenzene	1.00	1.08	108	50 - 150	J
Methyl tert-butyl ether	1.00	50	109	50 - 150	U
Methylene Chloride	1.00	1.73	173	50 - 150	J ^
m-Xylene & p-Xylene	2.00	2.27	113	50 - 150	J
Naphthalene	1.00	5.0	128	50 - 150	U
n-Butylbenzene	1.00	5.0	118	50 - 150	U

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Reporting Limit Check - Batch: 700-98841

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MRL 700-98841/10	Analysis Batch:	700-98841	Instrument ID:	VMG
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G040612.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/06/2011 1426	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1426				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
o-Xylene	1.00	1.07	107	50 - 150	J
Styrene	1.00	0.830	83	50 - 150	J
tert-Butylbenzene	1.00	0.962	96	50 - 150	J
Tetrachloroethene	1.00	1.26	126	50 - 150	J
Toluene	1.00	1.46	146	50 - 150	J
trans-1,2-Dichloroethene	1.00	1.22	122	50 - 150	J
trans-1,3-Dichloropropene	1.00	1.20	120	50 - 150	J
Trichloroethene	1.00	1.36	136	50 - 150	J
Trichlorofluoromethane	1.00	5.0	111	50 - 150	U
Vinyl chloride	1.00	10	102	50 - 150	U
Bromoethane	1.00	5.0	184	50 - 150	U ^

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	97	50 - 150
Dibromofluoromethane	98	50 - 150
Toluene-d8 (Surr)	98	50 - 150

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98841

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 700-98841/11	Analysis Batch:	700-98841	Instrument ID:	VMG
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G040613.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/06/2011 1458	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1458				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 700-98841/12	Analysis Batch:	700-98841	Instrument ID:	VMG
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G040614.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/06/2011 1529	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/06/2011 1529				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	81	83	48 - 154	2	46		
Benzene	85	87	69 - 137	2	42		
Chlorobenzene	81	88	70 - 138	8	34		
Toluene	91	91	66 - 141	0	32		
Trichloroethene	89	93	68 - 138	5	34		
Bromoethane	100	104	70 - 130	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	102	107	30 - 126
Dibromofluoromethane	103	98	30 - 140
Toluene-d8 (Surr)	100	98	42 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98841

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 700-98841/11	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 700-98841/12
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/06/2011 1458			Analysis Date:	04/06/2011 1529
Prep Date:	04/06/2011 1458			Prep Date:	04/06/2011 1529
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1-Dichloroethene	25.0	25.0	20.3	20.7
Benzene	25.0	25.0	21.3	21.8
Chlorobenzene	25.0	25.0	20.3	22.0
Toluene	25.0	25.0	22.8	22.8
Trichloroethene	25.0	25.0	22.2	23.2
Bromoethane	24.9	24.9	24.9	25.9

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98662

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 700-98662/1-A	Analysis Batch:	700-98755	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	700-98662	Lab File ID:	C040510.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/05/2011 1929	Units:	ug/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	04/05/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,2,4-Trichlorobenzene	66	U	22	66
1,2-Dichlorobenzene	66	U	36	66
1,4-Dichlorobenzene	66	U	14	66
2,4-Dimethylphenol	66	U	54	66
2-Methylphenol	66	U	58	66
3 & 4 Methylphenol	66	U	36	66
Benzoic acid	340	U	32	340
Benzyl alcohol	66	U	36	66
Bis(2-ethylhexyl) phthalate	66	U	48	66
Butyl benzyl phthalate	66	U	36	66
Diethyl phthalate	66	U	36	66
Dimethyl phthalate	66	U	42	66
Di-n-butyl phthalate	66	U	34	66
Di-n-octyl phthalate	66	U	34	66
Hexachlorobenzene	66	U	36	66
Hexachlorobutadiene	66	U	26	66
Hexachloroethane	66	U	28	66
N-Nitrosodiphenylamine	66	U	36	66
Pentachlorophenol	340	U	28	340
Phenol	66	U	28	66

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	64	5.0 - 130
2-Fluorobiphenyl	89	31 - 130
2-Fluorophenol (Surr)	72	10 - 128
Nitrobenzene-d5 (Surr)	66	35 - 130
Phenol-d5 (Surr)	72	29 - 130
Terphenyl-d14 (Surr)	79	37 - 149

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98662

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 700-98662/6-A	Analysis Batch:	700-98755	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	700-98662	Lab File ID:	C040511.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/05/2011 1959	Units:	ug/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	04/05/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 700-98662/7-A	Analysis Batch:	700-98755	Instrument ID:	SMC
Client Matrix:	Solid	Prep Batch:	700-98662	Lab File ID:	C040512.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/05/2011 2029	Units:	ug/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	04/05/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	64	66	34 - 130	2	22		
1,4-Dichlorobenzene	60	60	30 - 130	0	31		
Pentachlorophenol	31	45	34 - 133	39	55	*	
Phenol	55	57	32 - 130	3	39		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	66	74	5.0 - 130
2-Fluorobiphenyl	76	79	31 - 130
2-Fluorophenol (Surr)	67	70	10 - 128
Nitrobenzene-d5 (Surr)	64	70	35 - 130
Phenol-d5 (Surr)	68	75	29 - 130
Terphenyl-d14 (Surr)	84	93	37 - 149

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98662

Method: 8270D
Preparation: 3550C

LCS Lab Sample ID:	LCS 700-98662/6-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 700-98662/7-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	2.0			Dilution:	2.0
Analysis Date:	04/05/2011 1959			Analysis Date:	04/05/2011 2029
Prep Date:	04/05/2011 1000			Prep Date:	04/05/2011 1000
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual
1,2,4-Trichlorobenzene	1670	1670	1070		1100
1,4-Dichlorobenzene	1670	1670	1000		1010
Pentachlorophenol	3330	3330	1020	*	1510
Phenol	3330	3330	1840		1890

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98662

Method: 8270D LL
Preparation: 3550C

Lab Sample ID:	MB 700-98662/1-A	Analysis Batch:	700-98881	Instrument ID:	SMG
Client Matrix:	Solid	Prep Batch:	700-98662	Lab File ID:	G040717.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/07/2011 1720	Units:	ug/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	04/05/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1-Methylnaphthalene	6.7	U	1.7	6.7
Acenaphthene	6.7	U	3.1	6.7
Acenaphthylene	6.7	U	1.8	6.7
Anthracene	6.7	U	4.4	6.7
Benzo[k]fluoranthene	6.7	U	2.6	6.7
Benzo[g,h,i]perylene	6.7	U	2.5	6.7
Benzo[b]fluoranthene	6.7	U	2.8	6.7
Benzo[a]pyrene	6.7	U	3.2	6.7
Benzo[a]anthracene	6.7	U	2.1	6.7
Chrysene	6.7	U	1.9	6.7
Dibenz(a,h)anthracene	6.7	U	4.1	6.7
Fluoranthene	6.7	U	1.8	6.7
Fluorene	6.7	U	2.8	6.7
Naphthalene	6.7	U	3.4	6.7
Phenanthrene	6.7	U	2.2	6.7
Pyrene	6.7	U	1.7	6.7
Indeno[1,2,3-cd]pyrene	6.7	U	3.0	6.7

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5 (Surr)	81	30 - 130
Terphenyl-d14 (Surr)	99	30 - 149
2-Fluorobiphenyl	83	31 - 130

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Reporting Limit Check - Batch: 700-98891

Method: 8270D LL
Preparation: N/A

Lab Sample ID:	MRL 700-98891/3	Analysis Batch:	700-98891	Instrument ID:	SMG
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G040803.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/08/2011 1449	Units:	ug/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1-Methylnaphthalene	200	226	113	50 - 150	
Acenaphthene	200	214	107	50 - 150	
Acenaphthylene	200	194	97	50 - 150	
Anthracene	200	217	108	50 - 150	
Benzo[k]fluoranthene	200	170	85	50 - 150	
Benzo[g,h,i]perylene	200	136	68	50 - 150	
Benzo[b]fluoranthene	200	138	69	50 - 150	
Benzo[a]pyrene	200	134	67	50 - 150	
Benzo[a]anthracene	200	199	100	50 - 150	
Chrysene	200	228	114	50 - 150	
Dibenz(a,h)anthracene	200	132	66	50 - 150	
Fluoranthene	200	199	100	50 - 150	
Fluorene	200	204	102	50 - 150	
Naphthalene	200	209	105	50 - 150	
Phenanthrene	200	201	101	50 - 150	
Pyrene	200	247	123	50 - 150	
Indeno[1,2,3-cd]pyrene	200	125	63	50 - 150	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5 (Surr)	84	50 - 150
Terphenyl-d14 (Surr)	120	50 - 150
2-Fluorobiphenyl	100	50 - 150

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98622

Method: 8081B/8082A
Preparation: 3550C

Lab Sample ID:	MB 700-98622/1-A	Analysis Batch:	700-98659	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-98622	Lab File ID:	Z040409.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/04/2011 1913	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/04/2011 1201			Injection Volume:	2 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	17	U	1.5	17
beta-BHC	1.7	U	0.12	1.7
alpha-Chlordane	1.7	U	0.097	1.7
alpha-BHC	1.7	U	0.12	1.7
Aldrin	1.7	U	0.29	1.7
4,4'-DDT	3.3	U	0.54	3.3
4,4'-DDE	3.3	U	0.30	3.3
4,4'-DDD	3.3	U	0.34	3.3
2,4'-DDT	3.3	U	0.54	3.3
2,4'-DDE	3.3	U	0.30	3.3
2,4'-DDD	3.3	U	0.34	3.3
delta-BHC	1.7	U	0.25	1.7
Dieldrin	3.3	U	0.26	3.3
Endosulfan, alpha	1.7	U	0.12	1.7
Endosulfan, beta	3.3	U	0.39	3.3
Endosulfan sulfate	3.3	U	0.34	3.3
Endrin	3.3	U	0.38	3.3
Endrin aldehyde	3.3	U	0.38	3.3
Endrin ketone	3.3	U	0.30	3.3
gamma-BHC (Lindane)	1.7	U	0.11	1.7
gamma-Chlordane	1.7	U	0.10	1.7
Heptachlor	1.7	U	0.19	1.7
Heptachlor epoxide	1.7	U	0.13	1.7
Methoxychlor	17	U	0.28	17
Mirex	17	U	17	17
PCB-1016	33	U	3.0	33
Toxaphene	170	U	11	170
PCB-1221	67	U	1.8	67
PCB-1232	33	U	3.7	33
PCB-1242	33	U	2.8	33
PCB-1248	33	U	4.3	33
PCB-1254	33	U	3.1	33
PCB-1260	33	U	2.6	33
cis-Nonachlor	1.7	U	0.021	1.7
oxy-Chlordane	1.7	U	0.017	1.7
trans-Nonachlor	1.7	U	0.041	1.7

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	43	30 - 150
Tetrachloro-m-xylene	31	30 - 150

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98622

Method: 8081B/8082A
Preparation: 3550C

Lab Sample ID:	MB 700-98622/2-A	Analysis Batch:	700-98688	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-98622	Lab File ID:	Z040418.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/04/2011 2355	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/04/2011 1201			Injection Volume:	2 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	33	U	3.0	33
PCB-1221	67	U	1.8	67
PCB-1232	33	U	3.7	33
PCB-1242	33	U	2.8	33
PCB-1248	33	U	4.3	33
PCB-1254	33	U	3.1	33
PCB-1260	33	U	2.6	33

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	45	30 - 150
Tetrachloro-m-xylene	31	30 - 150

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98622

Method: 8081B/8082A
Preparation: 3550C

LCS Lab Sample ID:	LCS 700-98622/3-A	Analysis Batch:	700-98659	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-98622	Lab File ID:	Z040410.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/04/2011 1945	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/04/2011 1201			Injection Volume:	2 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 700-98622/4-A	Analysis Batch:	700-98659	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-98622	Lab File ID:	Z040411.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/04/2011 2016	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/04/2011 1201			Injection Volume:	2 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
beta-BHC	60	52	12 - 148	14	40		
alpha-BHC	43	42	20 - 130	3	40		
Aldrin	45	39	25 - 130	13	38		
4,4'-DDT	204	186	24 - 148	9	30	*	*
4,4'-DDE	50	44	20 - 130	14	30		J
4,4'-DDD	70	62	13 - 148	12	50		
delta-BHC	54	49	10 - 146	9	47		
Dieldrin	59	52	22 - 145	13	30		
Endosulfan, alpha	46	40	17 - 199	15	40		
Endosulfan, beta	48	43	10 - 146	12	65	J	J
Endosulfan sulfate	56	50	10 - 166	10	50		
Endrin	60	53	26 - 140	12	32		
Endrin aldehyde	52	47	14 - 135	11	86		J
Endrin ketone	87	78	24 - 145	11	31		
gamma-BHC (Lindane)	53	47	20 - 130	13	37		
Heptachlor	62	55	19 - 139	13	38		
Heptachlor epoxide	58	51	38 - 130	13	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	47	43	30 - 150
Tetrachloro-m-xylene	31	30	30 - 150

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98622

Method: 8081B/8082A
Preparation: 3550C

LCS Lab Sample ID:	LCS 700-98622/5-A	Analysis Batch:	700-98688	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-98622	Lab File ID:	Z040419.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/05/2011 0027	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/04/2011 1201			Injection Volume:	2 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 700-98622/6-A	Analysis Batch:	700-98688	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-98622	Lab File ID:	Z040420.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/05/2011 0058	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/04/2011 1201			Injection Volume:	2 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
PCB-1016	39	45	33 - 130	14	44		
PCB-1260	53	61	39 - 134	15	30		

Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	40		46	30 - 150
Tetrachloro-m-xylene	24	X	31	30 - 150

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98622

Method: 8081B/8082A
Preparation: 3550C

LCS Lab Sample ID:	LCS 700-98622/3-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 700-98622/4-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	5.0			Dilution:	5.0
Analysis Date:	04/04/2011 1945			Analysis Date:	04/04/2011 2016
Prep Date:	04/04/2011 1201			Prep Date:	04/04/2011 1201
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
beta-BHC	6.67	6.67	3.99		3.49	
alpha-BHC	6.67	6.67	2.85		2.77	
Aldrin	6.67	6.67	2.98		2.61	
4,4'-DDT	6.67	6.67	13.6	*	12.4	*
4,4'-DDE	6.67	6.67	3.35		2.92	J
4,4'-DDD	6.67	6.67	4.68		4.14	
delta-BHC	6.67	6.67	3.59		3.30	
Dieldrin	6.67	6.67	3.94		3.46	
Endosulfan, alpha	6.67	6.67	3.09		2.65	
Endosulfan, beta	6.67	6.67	3.20	J	2.85	J
Endosulfan sulfate	6.67	6.67	3.72		3.36	
Endrin	6.67	6.67	3.99		3.53	
Endrin aldehyde	6.67	6.67	3.48		3.12	J
Endrin ketone	6.67	6.67	5.77		5.18	
gamma-BHC (Lindane)	6.67	6.67	3.55		3.11	
Heptachlor	6.67	6.67	4.16		3.66	
Heptachlor epoxide	6.67	6.67	3.87		3.40	

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98622

Method: 8081B/8082A
Preparation: 3550C

LCS Lab Sample ID:	LCS 700-98622/5-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 700-98622/6-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	5.0			Dilution:	5.0
Analysis Date:	04/05/2011 0027			Analysis Date:	04/05/2011 0058
Prep Date:	04/04/2011 1201			Prep Date:	04/04/2011 1201
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
PCB-1016	333	333	131	150
PCB-1260	333	333	176	205

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98601

Method: 8151A
Preparation: 8151A

Lab Sample ID:	MB 700-98601/1-A	Analysis Batch:	700-98743	Instrument ID:	SGY
Client Matrix:	Solid	Prep Batch:	700-98601	Lab File ID:	Y040512.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 g
Analysis Date:	04/05/2011 2023	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/03/2011 0700			Injection Volume:	0.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
2,4,5-T	8.3	U	1.3	8.3
2,4-D	8.3	U	2.9	8.3
2,4-DB	8.3	U	4.8	8.3
Dalapon	2000	U	0.92	2000
Dicamba	20	U	1.6	20
Dichlorprop	100	U	1.3	100
Dinoseb	100	U	1.6	100
MCPA	2000	U	48	2000
MCPP	2000	U	92	2000
Silvex (2,4,5-TP)	8.3	U	1.7	8.3

Surrogate	% Rec		Acceptance Limits
2,4-Dichlorophenylacetic acid	138	X	10 - 135

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98601

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID:	LCS 700-98601/2-A	Analysis Batch:	700-98743	Instrument ID:	SGY
Client Matrix:	Solid	Prep Batch:	700-98601	Lab File ID:	Y040513.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 g
Analysis Date:	04/05/2011 2106	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/03/2011 0700			Injection Volume:	0.7 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 700-98601/3-A	Analysis Batch:	700-98743	Instrument ID:	SGY
Client Matrix:	Solid	Prep Batch:	700-98601	Lab File ID:	Y040514.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 g
Analysis Date:	04/05/2011 2148	Units:	ug/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	04/03/2011 0700			Injection Volume:	0.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4,5-T	83	81	19 - 121	2	40		
2,4-D	90	70	16 - 141	25	106		
2,4-DB	67	46	10 - 157	37	68		
Dalapon	62	49	10 - 271	23	190	J	J
Dicamba	117	67	11 - 133	54	50		J *
Dichlorprop	28	20	10 - 138	34	46	J	J
Dinoseb	31	21	10 - 190	37	312	J	J
MCPA	74	59	10 - 114	23	178	J	J
MCPP	60	61	10 - 108	1	109	J	J
Silvex (2,4,5-TP)	97	85	29 - 120	13	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	88	54	10 - 135

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98601

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID:	LCS 700-98601/2-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 700-98601/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	4.0			Dilution:	4.0
Analysis Date:	04/05/2011 2106			Analysis Date:	04/05/2011 2148
Prep Date:	04/03/2011 0700			Prep Date:	04/03/2011 0700
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
2,4,5-T	20.0	20.0	16.6		16.2	
2,4-D	20.0	20.0	18.1		14.1	
2,4-DB	20.0	20.0	13.4		9.24	
Dalapon	20.0	20.0	12.3	J	9.80	J
Dicamba	20.0	20.0	23.4		13.5	J *
Dichlorprop	20.0	20.0	5.66	J	4.02	J
Dinoseb	20.0	20.0	6.17	J	4.22	J
MCPA	2000	2000	1480	J	1170	J
MCPP	2000	2000	1200	J	1210	J
Silvex (2,4,5-TP)	20.0	20.0	19.4		17.0	

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98746

Method: 6020
Preparation: 3050B

Lab Sample ID:	MB 700-98746/1-A	Analysis Batch:	700-98782	Instrument ID:	ICPMS
Client Matrix:	Solid	Prep Batch:	700-98746	Lab File ID:	0406106.D#.raw
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	04/07/2011 1113	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/06/2011 1050				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ag	0.10	U	0.010	0.10
Al	5.0	U	4.2	5.0
As	0.50	U	0.11	0.50
Cd	0.50	U	0.20	0.50
Cr	0.50	U	0.19	0.50
Cu	1.0	U	0.40	1.0
Ni	0.50	U	0.16	0.50
Pb	0.25	U	0.074	0.25
Sb	0.50	U	0.12	0.50
Zn	4.0	U	2.0	4.0

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98746

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 700-98746/2-A	Analysis Batch:	700-98782	Instrument ID:	ICPMS
Client Matrix:	Solid	Prep Batch:	700-98746	Lab File ID:	0406122.D#.raw
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	04/07/2011 1324	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/06/2011 1050				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 700-98746/3-A	Analysis Batch:	700-98782	Instrument ID:	ICPMS
Client Matrix:	Solid	Prep Batch:	700-98746	Lab File ID:	0406123.D#.raw
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	04/07/2011 1340	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/06/2011 1050				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ag	110	110	75 - 125	0	20		
As	108	108	75 - 125	0	20		
Cd	106	105	75 - 125	0	20		
Cr	105	104	75 - 125	1	20		
Cu	114	117	75 - 125	3	20		
Ni	103	103	75 - 125	0	20		
Pb	106	107	75 - 125	0	20		
Sb	103	104	75 - 125	1	20		
Zn	105	106	75 - 125	1	20		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98746

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 700-98746/2-A	Analysis Batch:	700-99152	Instrument ID:	ICPMS
Client Matrix:	Solid	Prep Batch:	700-98746	Lab File ID:	0414073.D#.raw
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	04/14/2011 2345	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/06/2011 1050				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 700-98746/3-A	Analysis Batch:	700-99152	Instrument ID:	ICPMS
Client Matrix:	Solid	Prep Batch:	700-98746	Lab File ID:	0414074.D#.raw
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	04/15/2011 0000	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/06/2011 1050				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Al	114	112	75 - 125	1	20		

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98746

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 700-98746/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 700-98746/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	20			Dilution:	20
Analysis Date:	04/07/2011 1324			Analysis Date:	04/07/2011 1340
Prep Date:	04/06/2011 1050			Prep Date:	04/06/2011 1050
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ag	100	100	110	110
As	100	100	108	108
Cd	100	100	106	105
Cr	100	100	105	104
Cu	100	100	114	117
Ni	100	100	103	103
Pb	100	100	106	107
Sb	100	100	103	104
Zn	100	100	105	106

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98746

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 700-98746/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 700-98746/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	20			Dilution:	20
Analysis Date:	04/14/2011 2345			Analysis Date:	04/15/2011 0000
Prep Date:	04/06/2011 1050			Prep Date:	04/06/2011 1050
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Al	100	100	114	112

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Method Blank - Batch: 700-98658

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 700-98658/1-A	Analysis Batch:	700-98647	Instrument ID:	LEEMAN HYDRA
Client Matrix:	Solid	Prep Batch:	700-98658	Lab File ID:	04042011.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/05/2011 1158	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	04/05/2011 0910				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.014	U	0.0082	0.014

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-98658

Method: 7471B
Preparation: 7471B

LCS Lab Sample ID:	LCS 700-98658/2-A	Analysis Batch:	700-98647	Instrument ID:	LEEMAN HYDRA
Client Matrix:	Solid	Prep Batch:	700-98658	Lab File ID:	04042011.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/05/2011 1200	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	04/05/2011 0910				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 700-98658/3-A	Analysis Batch:	700-98647	Instrument ID:	LEEMAN HYDRA
Client Matrix:	Solid	Prep Batch:	700-98658	Lab File ID:	04042011.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/05/2011 1202	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	04/05/2011 0910				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	103	99	80 - 120	4	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-98658

Method: 7471B
Preparation: 7471B

LCS Lab Sample ID:	LCS 700-98658/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 700-98658/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/05/2011 1200			Analysis Date:	04/05/2011 1202
Prep Date:	04/05/2011 0910			Prep Date:	04/05/2011 0910
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.267	0.267	0.274	0.264

Client: USA Environment,LP

Job Number: 700-56993-1
Sdg Number: 700-56993-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-98658

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	700-56993-4	Analysis Batch:	700-98647	Instrument ID:	LEEMAN HYDRA
Client Matrix:	Solid	Prep Batch:	700-98658	Lab File ID:	04042011.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	04/05/2011 1208			Final Weight/Volume:	40 mL
Prep Date:	04/05/2011 0910				
Leach Date:	N/A				

MSD Lab Sample ID:	700-56993-4	Analysis Batch:	700-98647	Instrument ID:	LEEMAN HYDRA
Client Matrix:	Solid	Prep Batch:	700-98658	Lab File ID:	04042011.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	04/05/2011 1214			Final Weight/Volume:	40 mL
Prep Date:	04/05/2011 0910				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	36	32	80 - 120	11	20	F	F

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-98658

Method: 7471B
Preparation: 7471B

MS Lab Sample ID:	700-56993-4	Units:	mg/Kg	MSD Lab Sample ID:	700-56993-4
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/05/2011 1208			Analysis Date:	04/05/2011 1214
Prep Date:	04/05/2011 0910			Prep Date:	04/05/2011 0910
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS		MSD	
Analyte	Result/Qual		Amount	Amount	Result/Qual		Result/Qual	
Mercury	0.016	U	0.195	0.195	0.0696	F	0.0621	F

Client: USA Environment,LP

Job Number: 700-56993-1
SDG: 700-56993-1

Laboratory Chronicle

Lab ID: **700-56993-4** **Client ID:** **Composite**

Sample Date/Time: 03/31/2011 00:00 Received Date/Time: 04/01/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	700-56993-A-4		700-98841		04/06/2011 17:02	1	TAL MOB	KBV
A:8260C	700-56993-A-4		700-98841		04/06/2011 17:02	1	TAL MOB	KBV
P:3550C	700-56993-A-4-F		700-98842	700-98662	04/05/2011 10:00	2	TAL MOB	SDT
A:8270D	700-56993-A-4-F		700-98842	700-98662	04/07/2011 22:17	2	TAL MOB	LNP
P:3550C	700-56993-A-4-F		700-98881	700-98662	04/05/2011 10:00	2	TAL MOB	SDT
A:8270D LL	700-56993-A-4-F		700-98881	700-98662	04/07/2011 19:10	2	TAL MOB	LNP
P:3550C	700-56993-A-4-A		700-98659	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	700-56993-A-4-A		700-98659	700-98622	04/04/2011 22:21	5	TAL MOB	LT
P:3550C	700-56993-A-4-A		700-98688	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	700-56993-A-4-A		700-98688	700-98622	04/05/2011 05:42	5	TAL MOB	LT
P:8151A	700-56993-A-4-B		700-98743	700-98601	04/04/2011 10:00	4	TAL MOB	HHL
A:8151A	700-56993-A-4-B		700-98743	700-98601	04/06/2011 00:39	4	TAL MOB	LT
P:3050B	700-56993-A-4-G		700-98782	700-98746	04/06/2011 10:50	10	TAL MOB	NOP
A:6020	700-56993-A-4-G		700-98782	700-98746	04/07/2011 11:22	10	TAL MOB	CDT
P:3050B	700-56993-A-4-G ^20		700-99152	700-98746	04/06/2011 10:50	20	TAL MOB	NOP
A:6020	700-56993-A-4-G ^20		700-99152	700-98746	04/14/2011 22:31	20	TAL MOB	CDT
P:7471B	700-56993-A-4-C		700-98647	700-98658	04/05/2011 09:10	1	TAL MOB	PNP
A:7471B	700-56993-A-4-C		700-98647	700-98658	04/05/2011 12:05	1	TAL MOB	PNP
A:Moisture	700-56993-A-4		700-98864		04/08/2011 09:43	1	TAL MOB	MEB

Lab ID: **700-56993-4 MS** **Client ID:** **Composite**

Sample Date/Time: 03/31/2011 00:00 Received Date/Time: 04/01/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471B	700-56993-A-4-D MS		700-98647	700-98658	04/05/2011 09:10	1	TAL MOB	PNP
A:7471B	700-56993-A-4-D MS		700-98647	700-98658	04/05/2011 12:08	1	TAL MOB	PNP

Lab ID: **700-56993-4 MSD** **Client ID:** **Composite**

Sample Date/Time: 03/31/2011 00:00 Received Date/Time: 04/01/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471B	700-56993-A-4-E MSD		700-98647	700-98658	04/05/2011 09:10	1	TAL MOB	PNP
A:7471B	700-56993-A-4-E MSD		700-98647	700-98658	04/05/2011 12:14	1	TAL MOB	PNP

Client: USA Environment,LP

Job Number: 700-56993-1
SDG: 700-56993-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 700-98841/13		700-98841		04/06/2011 16:00	1	TAL MOB	KBV
A:8260C	MB 700-98841/13		700-98841		04/06/2011 16:00	1	TAL MOB	KBV
P:3550C	MB 700-98662/1-A		700-98755	700-98662	04/05/2011 10:00	1	TAL MOB	SDT
A:8270D	MB 700-98662/1-A		700-98755	700-98662	04/05/2011 19:29	1	TAL MOB	ES
P:3550C	MB 700-98662/1-A		700-98881	700-98662	04/05/2011 10:00	1	TAL MOB	SDT
A:8270D LL	MB 700-98662/1-A		700-98881	700-98662	04/07/2011 17:20	1	TAL MOB	LNP
P:3550C	MB 700-98622/1-A		700-98659	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	MB 700-98622/1-A		700-98659	700-98622	04/04/2011 19:13	5	TAL MOB	LT
P:3550C	MB 700-98622/2-A		700-98688	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	MB 700-98622/2-A		700-98688	700-98622	04/04/2011 23:55	5	TAL MOB	LT
P:8151A	MB 700-98601/1-A		700-98743	700-98601	04/03/2011 07:00	4	TAL MOB	HHL
A:8151A	MB 700-98601/1-A		700-98743	700-98601	04/05/2011 20:23	4	TAL MOB	LT
P:3050B	MB 700-98746/1-A		700-98782	700-98746	04/06/2011 10:50	10	TAL MOB	NOP
A:6020	MB 700-98746/1-A		700-98782	700-98746	04/07/2011 11:13	10	TAL MOB	CDT
P:7471B	MB 700-98658/1-A		700-98647	700-98658	04/05/2011 09:10	1	TAL MOB	PNP
A:7471B	MB 700-98658/1-A		700-98647	700-98658	04/05/2011 11:58	1	TAL MOB	PNP

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 700-98841/11		700-98841		04/06/2011 14:58	1	TAL MOB	KBV
A:8260C	LCS 700-98841/11		700-98841		04/06/2011 14:58	1	TAL MOB	KBV
P:3550C	LCS 700-98662/6-A		700-98755	700-98662	04/05/2011 10:00	2	TAL MOB	SDT
A:8270D	LCS 700-98662/6-A		700-98755	700-98662	04/05/2011 19:59	2	TAL MOB	ES
P:3550C	LCS 700-98622/3-A		700-98659	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	LCS 700-98622/3-A		700-98659	700-98622	04/04/2011 19:45	5	TAL MOB	LT
P:3550C	LCS 700-98622/5-A		700-98688	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	LCS 700-98622/5-A		700-98688	700-98622	04/05/2011 00:27	5	TAL MOB	LT
P:8151A	LCS 700-98601/2-A		700-98743	700-98601	04/03/2011 07:00	4	TAL MOB	HHL
A:8151A	LCS 700-98601/2-A		700-98743	700-98601	04/05/2011 21:06	4	TAL MOB	LT
P:3050B	LCS 700-98746/2-A		700-98782	700-98746	04/06/2011 10:50	20	TAL MOB	NOP
A:6020	LCS 700-98746/2-A		700-98782	700-98746	04/07/2011 13:24	20	TAL MOB	CDT
P:3050B	LCS 700-98746/2-A		700-99152	700-98746	04/06/2011 10:50	20	TAL MOB	NOP
A:6020	LCS 700-98746/2-A		700-99152	700-98746	04/14/2011 23:45	20	TAL MOB	CDT
P:7471B	LCS 700-98658/2-A		700-98647	700-98658	04/05/2011 09:10	1	TAL MOB	PNP
A:7471B	LCS 700-98658/2-A		700-98647	700-98658	04/05/2011 12:00	1	TAL MOB	PNP

Client: USA Environment,LP

Job Number: 700-56993-1
SDG: 700-56993-1

Laboratory Chronicle

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCSD 700-98841/12		700-98841		04/06/2011 15:29	1	TAL MOB	KBV
A:8260C	LCSD 700-98841/12		700-98841		04/06/2011 15:29	1	TAL MOB	KBV
P:3550C	LCSD 700-98662/7-A		700-98755	700-98662	04/05/2011 10:00	2	TAL MOB	SDT
A:8270D	LCSD 700-98662/7-A		700-98755	700-98662	04/05/2011 20:29	2	TAL MOB	ES
P:3550C	LCSD 700-98662/7-A		700-98891	700-98662	04/05/2011 10:00	5	TAL MOB	SDT
A:8270D LL	LCSD 700-98662/7-A		700-98891	700-98662	04/08/2011 15:43	5	TAL MOB	LNP
P:3550C	LCSD 700-98622/4-A		700-98659	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	LCSD 700-98622/4-A		700-98659	700-98622	04/04/2011 20:16	5	TAL MOB	LT
P:3550C	LCSD 700-98622/6-A		700-98688	700-98622	04/04/2011 12:01	5	TAL MOB	SDT
A:8081B/8082A	LCSD 700-98622/6-A		700-98688	700-98622	04/05/2011 00:58	5	TAL MOB	LT
P:8151A	LCSD 700-98601/3-A		700-98743	700-98601	04/03/2011 07:00	4	TAL MOB	HHL
A:8151A	LCSD 700-98601/3-A		700-98743	700-98601	04/05/2011 21:48	4	TAL MOB	LT
P:3050B	LCSD 700-98746/3-A		700-98782	700-98746	04/06/2011 10:50	20	TAL MOB	NOP
A:6020	LCSD 700-98746/3-A		700-98782	700-98746	04/07/2011 13:40	20	TAL MOB	CDT
P:3050B	LCSD 700-98746/3-A		700-99152	700-98746	04/06/2011 10:50	20	TAL MOB	NOP
A:6020	LCSD 700-98746/3-A		700-99152	700-98746	04/15/2011 00:00	20	TAL MOB	CDT
P:7471B	LCSD 700-98658/3-A		700-98647	700-98658	04/05/2011 09:10	1	TAL MOB	PNP
A:7471B	LCSD 700-98658/3-A		700-98647	700-98658	04/05/2011 12:02	1	TAL MOB	PNP

Lab ID: **MRL** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MRL 700-98841/10		700-98841		04/06/2011 14:26	1	TAL MOB	KBV
A:8260C	MRL 700-98841/10		700-98841		04/06/2011 14:26	1	TAL MOB	KBV
A:8270D LL	MRL 700-98891/3		700-98891		04/08/2011 14:49	1	TAL MOB	LNP

Lab References:
TAL MOB = TestAmerica Mobile

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

April 12, 2011

TestAmerica Project Number: G1D020440
PO/Contract: 700-56993

Suzy Lindblom
TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693

Dear Ms. Lindblom,

This report contains the analytical results for the sample received under chain of custody by TestAmerica on April 2, 2011. This sample is associated with your 700-56993 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4340.

Sincerely,

Bryanna Vandenberg

Bryanna Vandenberg
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G1D020440

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

SOLID, 1613B, Dioxins/Furans
Sample: 1
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

SOLID, D 2216-90, Percent Moisture
Sample: 1
- Sample Data Sheet
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G1D020440

There are no anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G1D020440

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
MGHM6	1	Composite (700-56993-4)	3/31/2011	4/2/2011 09:10 AM

Notes:

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as “ND” were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lindblom, Suzy	Carrier Tracking No(s):	COC No: 700-12086.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: suzy.lindblom@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		**Analysis Requested**		Job #: 700-56993-1
Address: 880 Riverside Parkway,	Due Date Requested: 5/2/2011			**Preservation Codes:**
City: West Sacramento	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
State, Zip: CA, 95605				M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Phone: 916-373-5600(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: Pesticides in Soils	Project #: 70004521			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT Dioxin Furan	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Composite (700-56993-4)	3/31/11	Central		Solid			X	1	

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 4/1/11	Company	Received by:	Date/Time: 4-2-11 930	Company TALWS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT TAL-Mobile PM BV LOG # 69998

LOT# (QUANTIMS ID) G1D020440 QUOTE# 38630 LOCATION W23C

Checked (✓)

DATE RECEIVED 4-2-11 TIME RECEIVED 910 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ OTHER

☐ GOLDENSTATE ☐ UPS ☐ EZ PARCEL

☐ TAL COURIER ☐ TAL SF ☐ CLIENT ☑

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☑ N/A ☑

CUSTODY SEAL #(S) _____

COC #(S) 700-12086.1 ☑

TEMPERATURE BLANK Observed: NA Corrected: _____

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 2 Average 2 Corrected Average 2

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☑ #5 ☐ ☐ OTHER _____ ☑

Initials: OK Date: 4-2-11

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY..... ☑

LABELS CHECKED BY..... ☑

PEER REVIEW _____ ☑ N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Initials: OK Date: 4-2-11

Notes _____

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G1D020440

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ	1																			
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

SOLID, 1613B, Dioxins/Furans

TestAmerica Mobile

Client Sample ID: Composite (700-56993-4)

Trace Level Organic Compounds

Lot-Sample #...: G1D020440-001 **Work Order #...:** MGHM61AD **Matrix.....:** SOLID
Date Sampled...: 03/31/11 **Date Received..:** 04/02/11
Prep Date.....: 04/04/11 **Analysis Date..:** 04/07/11
Prep Batch #...: 1094242
Dilution Factor: 0.99
Analyst ID.....: 001212 **Instrument ID..:** 9D5

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.41	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	0.84	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	0.50	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	ND	0.46	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDD	ND	0.40	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	**21**		**pg/g**	**EPA-5 1613B**
OCDD	**310**		**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	ND	0.72	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDF	ND	1.2	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	1.3	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	ND	0.44	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDF	ND	0.37	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	0.36	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	0.47	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	ND	1.7	pg/g	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	ND	0.56	pg/g	EPA-5 1613B
OCDF	ND	5.6	pg/g	EPA-5 1613B

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	59	(25 - 164)
13C-1,2,3,7,8-PeCDD	59	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	67	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	58	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	59	(23 - 140)
13C-OCDD	50	(17 - 157)
13C-2,3,7,8-TCDF	55	(24 - 169)
13C-1,2,3,7,8-PeCDF	58	(24 - 185)
13C-2,3,4,7,8-PeCDF	59	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	63	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	65	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	63	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	60	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	59	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	64	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	83	(35 - 197)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G1D020440

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	EPA-5 1613B		1094242	
	SOLID	ASTM D 2216-90		1094269	1094127

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G1D020440 **Work Order #...:** MGJD01AA **Matrix.....:** SOLID
MB Lot-Sample #: G1D040000-242

Prep Date.....: 04/04/11 **Instrument ID..:** 9D5
Analysis Date..: 04/06/11 **Prep Batch #...:** 1094242
Dilution Factor: 1

Analyst ID.....: 001212

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.42	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	0.74	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	0.38	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	ND	0.35	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDD	ND	0.30	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	ND	0.46	pg/g	EPA-5 1613B
OCDD	ND	0.72	pg/g	EPA-5 1613B
2,3,7,8-TCDF	ND	0.66	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDF	ND	0.99	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	1.1	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	ND	0.27	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDF	ND	0.24	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	0.24	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	0.33	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	ND	0.27	pg/g	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	ND	0.40	pg/g	EPA-5 1613B
OCDF	ND	0.46	pg/g	EPA-5 1613B

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	61	(25 - 164)
13C-1,2,3,7,8-PeCDD	56	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	69	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	63	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	71	(23 - 140)
13C-OCDD	60	(17 - 157)
13C-2,3,7,8-TCDF	58	(24 - 169)
13C-1,2,3,7,8-PeCDF	58	(24 - 185)
13C-2,3,4,7,8-PeCDF	59	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	69	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	73	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	72	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	77	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	72	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	71	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	82	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G1D020440 **Work Order #...:** MGJD01AC **Matrix.....:** SOLID
LCS Lot-Sample#: G1D040000-242
Prep Date.....: 04/04/11 **Analysis Date..:** 04/06/11
Prep Batch #...: 1094242
Dilution Factor: 1 **Instrument ID..:** 9D5
Analyst ID.....: 001212

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	107	(67 - 158)	EPA-5 1613B
1,2,3,7,8-PeCDD	113	(70 - 142)	EPA-5 1613B
1,2,3,4,7,8-HxCDD	114	(70 - 164)	EPA-5 1613B
1,2,3,6,7,8-HxCDD	113	(76 - 134)	EPA-5 1613B
1,2,3,7,8,9-HxCDD	115	(64 - 162)	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	114	(70 - 140)	EPA-5 1613B
OCDD	127	(78 - 144)	EPA-5 1613B
2,3,7,8-TCDF	121	(75 - 158)	EPA-5 1613B
1,2,3,7,8-PeCDF	111	(80 - 134)	EPA-5 1613B
2,3,4,7,8-PeCDF	109	(68 - 160)	EPA-5 1613B
1,2,3,4,7,8-HxCDF	112	(72 - 134)	EPA-5 1613B
1,2,3,6,7,8-HxCDF	109	(84 - 130)	EPA-5 1613B
2,3,4,6,7,8-HxCDF	107	(70 - 156)	EPA-5 1613B
1,2,3,7,8,9-HxCDF	106	(78 - 130)	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	106	(82 - 122)	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	108	(78 - 138)	EPA-5 1613B
OCDF	131	(63 - 170)	EPA-5 1613B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G1D020440 **Work Order #...:** MGJD01AC **Matrix.....:** SOLID
LCS Lot-Sample#: G1D040000-242

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	63	(20 - 175)
13C-1,2,3,7,8-PeCDD	62	(21 - 227)
13C-1,2,3,4,7,8-HxCDD	67	(21 - 193)
13C-1,2,3,6,7,8-HxCDD	68	(25 - 163)
13C-1,2,3,4,6,7,8-HpCDD	70	(26 - 166)
13C-OCDD	60	(13 - 199)
13C-2,3,7,8-TCDF	61	(22 - 152)
13C-1,2,3,7,8-PeCDF	62	(21 - 192)
13C-2,3,4,7,8-PeCDF	64	(13 - 328)
13C-1,2,3,6,7,8-HxCDF	71	(21 - 159)
13C-2,3,4,6,7,8-HxCDF	74	(22 - 176)
13C-1,2,3,7,8,9-HxCDF	77	(17 - 205)
13C-1,2,3,4,6,7,8-HpCDF	76	(21 - 158)
13C-1,2,3,4,7,8,9-HpCDF	74	(20 - 186)
13C-1,2,3,4,7,8-HxCDF	73	(19 - 202)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	82	(31 - 191)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G1D020440 **Work Order #...:** MGJD01AC **Matrix.....:** SOLID
LCS Lot-Sample#: G1D040000-242
Prep Date.....: 04/04/11 **Analysis Date..:** 04/06/11
Prep Batch #...: 1094242
Dilution Factor: 1 **Instrument ID..:** 9D5
Analyst ID.....: 001212

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	20.0	21.4	pg/g	107	EPA-5 1613B
1,2,3,7,8-PeCDD	100	113	pg/g	113	EPA-5 1613B
1,2,3,4,7,8-HxCDD	100	114	pg/g	114	EPA-5 1613B
1,2,3,6,7,8-HxCDD	100	113	pg/g	113	EPA-5 1613B
1,2,3,7,8,9-HxCDD	100	115	pg/g	115	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	100	114	pg/g	114	EPA-5 1613B
OCDD	200	254	pg/g	127	EPA-5 1613B
2,3,7,8-TCDF	20.0	24.3	pg/g	121	EPA-5 1613B
1,2,3,7,8-PeCDF	100	111	pg/g	111	EPA-5 1613B
2,3,4,7,8-PeCDF	100	109	pg/g	109	EPA-5 1613B
1,2,3,4,7,8-HxCDF	100	112	pg/g	112	EPA-5 1613B
1,2,3,6,7,8-HxCDF	100	109	pg/g	109	EPA-5 1613B
2,3,4,6,7,8-HxCDF	100	107	pg/g	107	EPA-5 1613B
1,2,3,7,8,9-HxCDF	100	106	pg/g	106	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	100	106	pg/g	106	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	100	108	pg/g	108	EPA-5 1613B
OCDF	200	263	pg/g	131	EPA-5 1613B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G1D020440 **Work Order #...:** MGJD01AC **Matrix.....:** SOLID
LCS Lot-Sample#: G1D040000-242

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	63	(20 - 175)
13C-1,2,3,7,8-PeCDD	62	(21 - 227)
13C-1,2,3,4,7,8-HxCDD	67	(21 - 193)
13C-1,2,3,6,7,8-HxCDD	68	(25 - 163)
13C-1,2,3,4,6,7,8-HpCDD	70	(26 - 166)
13C-OCDD	60	(13 - 199)
13C-2,3,7,8-TCDF	61	(22 - 152)
13C-1,2,3,7,8-PeCDF	62	(21 - 192)
13C-2,3,4,7,8-PeCDF	64	(13 - 328)
13C-1,2,3,6,7,8-HxCDF	71	(21 - 159)
13C-2,3,4,6,7,8-HxCDF	74	(22 - 176)
13C-1,2,3,7,8,9-HxCDF	77	(17 - 205)
13C-1,2,3,4,6,7,8-HpCDF	76	(21 - 158)
13C-1,2,3,4,7,8,9-HpCDF	74	(20 - 186)
13C-1,2,3,4,7,8-HxCDF	73	(19 - 202)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	82	(31 - 191)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SOLID, D 2216-90, Percent Moisture

TestAmerica Mobile

Client Sample ID: Composite (700-56993-4)

General Chemistry

Lot-Sample #...: G1D020440-001 **Work Order #...:** MGHM6 **Matrix.....:** SOLID
Date Sampled...: 03/31/11 **Date Received..:** 04/02/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**13.9**	**0.10**	**%**	**ASTM D 2216-90**	**04/04-04/05/11**	**1094269**

Dilution Factor: 1 Analyst ID.....: 000193 Instrument ID..: NO INST

QC DATA ASSOCIATION SUMMARY

G1D020440

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	EPA-5 1613B		1094242	
	SOLID	ASTM D 2216-90		1094269	1094127

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G1D020440 **Work Order #...:** MGGXJ-SMP MGGXJ-DUP **Matrix.....:** SOLID

Date Sampled...: 03/03/11 **Date Received..:** 04/02/11

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G1D010564-001	
	14.8	13.8	%	7.5	(0-20)	ASTM D 2216-90	04/04-04/05/11	1094269

Dilution Factor: 1 Analyst ID.....: 000193 Instrument ID..: NO INST

Serial Number

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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: SAN JACINTO WASTE PITS
PROJECT NO.: 3841 - RC-H001
PROJECT LOCATION (STATE): TX
P. O. NUMBER:
CONTRACT NO.:
(LAB) PROJECT MANAGER: SUZY LINDBLOM
CLIENT (SITE) PM: CESAR GARCIA
CLIENT PHONE: 832-641-0265
CLIENT FAX: 832-425-6950
CLIENT NAME: USA ENVIRONMENT
CLIENT EMAIL: CGARCIA@USAENVIRO.COM
CLIENT ADDRESS: 10234 LUCORE ST, HOUSTON, TX 77017
COMPANY CONTRACTING THIS WORK (if applicable): USA ENVIRONMENT
SAMPLER'S SIGNATURE: Gabriel McCormick

PAGE ___ OF ___

STANDARD REPORT DELIVERY
DATE DUE ___
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE ___
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSES: SEE ATTACHED ANALYTE LIST

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-31-11	0830	Sample #1	/					1	
3-31-11	0833	Sample #2	/					1	
3-31-11	0835	Sample #3	/					1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Gabriel McCormick	3-31-11	0915						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[illegible]	03-31-11	0915						

EMPTY CONTAINERS

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[illegible]	4/1/11	8:20			700-56993	1.9°C #3509

Original - Return to Laboratory with Sample(s)

Table 1
Armored Cap Material Analyte List

Parameter	Analytical Method	Reporting Limit (mg/kg)	TCEQ Tier I Residential Soil PCLs[1] (mg/kg)	TRRP Tier 1 Sediment PCLs [4] (mg/kg)	TCEQ Marine PEL[5] (mg/kg)	Required Fill Chemical Concentration Criteria (mg/kg)
Metals						
Aluminum	6010B/6020	10	6.4E+04	1.5E+05	NL	6.4E+04
Antimony	6010B/6020	5.0	2.7E+00	8.3E+01	NL	2.7E+00
Arsenic	6010B/6020	5.0	2.5E+00	1.1E+02	4.2E-02	4.2E-02
Cadmium	6010B/6020	0.20	7.5E-01	1.1E+03	4.2E-03	4.2E-03
Chromium	6010B/6020	0.50	1.2E+03	3.6E+04	1.6E-01	1.6E-01
Copper	6010B/6020	0.50	5.2E+02	2.1E+04	1.1E-01	1.1E-01
Lead	6010B/6020	2.0	1.5E+00	5.0E+02	1.1E-01	1.1E-01
Mercury	7471A	0.005	3.9E-03	3.4E+01	7.0E-04	7.0E-04
Nickel	6010B/6020	2.0	7.9E+01	1.4E+03	4.3E-02	4.3E-02
Silver	6010B/6020	0.50	2.4E-01	3.5E+02	1.8E-03	1.8E-03
Zinc	6010B/6020	5.0	1.2E+03	7.6E+04	2.7E-01	2.7E-01
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	8270C	0.10	2.4E+00	1.5E+03	--	2.4E+00
1,2-Dichlorobenzene	8270C	0.10	8.9E+00	6.6E+04	--	8.9E+00
1,3-Dichlorobenzene	8270C	0.10	3.4E+00	2.2E+04	--	3.4E+00
1,4-Dichlorobenzene	8270C	0.10	1.1E+00	2.3E+03	--	1.1E+00
2,4-Dimethylphenol	8270C	0.10	1.6E+00	3.1E+03	--	1.6E+00
2-Methylnaphthalene	8270C	0.10	8.5E+00	2.5E+03	NL	8.5E+00
2-Methylphenol	8270C	0.10	3.6E+00	7.7E+03	--	3.6E+00
4-Methylphenol	8270C	0.10	3.2E-01	7.7E+02	--	3.2E-01
Acenaphthene	8270C	0.10	1.2E+02	7.4E+03	8.9E-02	8.9E-02
Acenaphthylene	8270C	0.10	2.0E+02	7.4E+03	1.3E-01	1.3E-01
Anthracene	8270C	0.10	3.4E+03	3.7E+04	2.5E-01	2.5E-01
Benz[a]anthracene	8270C	0.10	5.6E+00	1.6E+01	6.9E-01	6.9E-01
Benzo[a]pyrene	8270C	0.10	5.6E-01	1.6E+00	7.6E-01	5.6E-01
Benzo[b]fluoranthene	8270C	0.10	5.7E+00	1.6E+01	--	5.7E+00
Benzo[g,h,i]perylene	8270C	0.10	1.8E+03	3.7E+03	--	1.8E+03
Benzo[k]fluoranthene	8270C	0.10	5.7E+01	1.6E+02	--	5.7E+01
Benzoic acid	8270C	0.60	9.5E+01	6.1E+05	NL	9.5E+01
Benzyl alcohol	8270C	0.10	2.9E+00	4.6E+04	NL	2.9E+00
Bis[2-ethylhexyl]phthalate	8270C	0.10	4.3E+01	2.4E+02	--	4.3E+01
Butyl benzyl phthalate	8270C	0.10	1.3E+02	3.1E+04	--	1.3E+02
Chrysene	8270C	0.10	5.6E+02	1.6E+03	8.5E-01	8.5E-01
Dibenz[a,h]anthracene	8270C	0.10	5.5E-01	1.6E+00	1.3E-01	1.3E-01
Diethyl phthalate	8270C	0.10	7.8E+01	1.2E+05	--	7.8E+01
Dimethyl phthalate	8270C	0.10	3.1E+01	1.2E+05	--	3.1E+01
Di-n-butyl phthalate	8270C	0.10	1.7E+03	1.5E+04	--	1.7E+03
Di-n-octyl phthalate	8270C	0.10	1.3E+03	3.1E+03	--	1.3E+03
Fluoranthene	8270C	0.10	9.6E+02	4.9E+03	1.5E+00	1.5E+00
Fluorene	8270C	0.10	1.5E+02	4.9E+03	1.4E-01	1.4E-01
Hexachlorobenzene	8270C	0.10	5.6E-01	8.9E+00	NL	5.6E-01
Hexachlorobutadiene	8270C	0.10	1.6E+00	3.1E+01	--	1.6E+00
Hexachloroethane	8270C	0.10	9.2E-01	1.5E+02	--	9.2E-01
Indeno[1,2,3-c,d]pyrene	8270C	0.10	5.7E+00	1.6E+01	--	5.7E+00
Naphthalene	8270C	0.10	1.6E+01	2.5E+03	3.9E-01	3.9E-01
N-nitrosodiphenylamine	8270C	0.10	1.4E+00	9.0E+02	--	1.4E+00
Pentachlorophenol	8270C	0.20	9.2E-03	5.6E+01	--	9.2E-03

Table 1
Armored Cap Material Analyte List

Parameter	Analytical Method	Reporting Limit (mg/kg)	TCEQ Tier I Residential Soil PCLs[1] (mg/kg)	TRRP Tier 1 Sediment PCLs [4] (mg/kg)	TCEQ Marine PEL[5] (mg/kg)	Required Fill Chemical Concentration Criteria (mg/kg)
Phenanthrene	8270C	0.10	2.1E+02	3.7E+03	5.4E-01	5.4E-01
Phenol	8270C	0.10	9.6E+00	9.2E+04	--	9.6E+00
Pyrene	8270C	0.10	5.6E+02	3.7E+03	1.4E+00	1.4E+00
Volatile Organic Compounds (VOCs)						
1,1,1,2-Tetrachloroethane	8260B	0.0050	7.1E-01	2.1E+03	NL	7.1E-01
1,1,1-Trichloroethane	8260B	0.0050	8.1E-01	1.5E+05	--	8.1E-01
1,1,2,2-Tetrachloroethane	8260B	0.0050	1.2E-02	2.7E+02	--	1.2E-02
1,1,2-Trichloroethane	8260B	0.0050	1.0E-02	9.6E+02	--	1.0E-02
1,1-Dichloroethane	8260B	0.0050	9.2E+00	7.3E+04	--	9.2E+00
1,1-Dichloroethene	8260B	0.0050	2.5E-02	9.1E+01	--	2.5E-02
1,1-Dichloropropene	8260B	0.0050	6.7E-02	5.4E+02	NL	6.7E-02
1,2,3-Trichlorobenzene	8260B	0.0050	1.3E+01	4.6E+02	NL	1.3E+01
1,2,3-Trichloropropane	8260B	0.0050	2.7E-04	7.8E+00	NL	2.7E-04
1,2,4-Trimethylbenzene	8260B	0.0050	4.9E+00	3.7E+04	NL	4.9E+00
1,2-Dibromo-3-chloropropane	8260B	0.0050	8.7E-04	1.0E+01	NL	8.7E-04
1,2-Dichloroethane	8260B	0.0050	6.9E-03	6.0E+02	--	6.9E-03
1,2-Dichloropropane	8260B	0.0050	1.1E-02	8.0E+02	--	1.1E-02
1,3,5-Trimethylbenzene	8260B	0.0050	2.7E+01	3.7E+04	NL	2.7E+01
1,3-Dichloropropane	8260B	0.0050	3.2E-02	5.4E+02	NL	3.2E-02
1,4-Dichlorobenzene	8260B	0.0050	1.1E+00	2.3E+03	NL	1.1E+00
2,2-Dichloropropane	8260B	0.0050	6.0E-02	8.0E+02	NL	6.0E-02
2-Butanone	8260B	0.0050	1.5E+01	4.4E+05	NL	1.5E+01
2-Chlorotoluene	8260B	0.0050	4.5E+00	3.1E+03	NL	4.5E+00
2-Hexanone	8260B	0.0050	1.6E-01	4.4E+04	NL	1.6E-01
4-Chlorotoluene	8260B	0.0050	2.5E+00	1.5E+04	NL	2.5E+00
4-Isopropyltoluene	8260B	0.0050	NL	NL	NL	0.0E+00
4-Methyl-2-Pentanone	8260B	0.0050	2.5E+00	5.9E+04	NL	2.5E+00
Acetone	8260B	0.0050	2.1E+01	7.3E+04	NL	2.1E+01
Benzene	8260B	0.0050	1.3E-02	9.9E+02	--	1.3E-02
Bromobenzene	8260B	0.0050	1.2E+00	1.5E+04	NL	1.2E+00
Bromochloromethane	8260B	0.0050	1.5E+00	2.9E+04	NL	1.5E+00
Bromodichloromethane	8260B	0.0050	3.3E-02	8.8E+02	NL	3.3E-02
Bromoethane	8260B	0.0050	NL	NL	NL	0.0E+00
Bromoform	8260B	0.0050	3.2E-01	6.9E+03	--	3.2E-01
Bromomethane	8260B	0.0050	6.5E-02	1.0E+03	--	6.5E-02
Carbon Disulfide	8260B	0.0050	6.8E+00	7.3E+04	NL	6.8E+00
Carbon Tetrachloride	8260B	0.0050	3.1E-02	4.2E+02	--	3.1E-02
Chlorobenzene	8260B	0.0050	5.5E-01	1.5E+04	--	5.5E-01
Chloroethane	8260B	0.0050	1.5E+01	2.9E+05	--	1.5E+01
Chloroform	8260B	0.0050	5.1E-01	7.3E+03	--	5.1E-01
Chloromethane	8260B	0.0050	2.0E-01	4.2E+03	--	2.0E-01
cis-1,2-Dichloroethene	8260B	0.0050	1.2E-01	7.3E+03	NL	1.2E-01
cis-1,3-Dichloropropene	8260B	0.0050	3.3E-03	7.3E+01	--	3.3E-03
Dibromochloromethane	8260B	0.0050	2.5E-02	6.5E+02	--	2.5E-02
Dibromomethane	8260B	0.0050	5.6E-01	7.3E+03	NL	5.6E-01
Dichlorodifluoromethane	8260B	0.0050	1.2E+02	1.5E+05	NL	1.2E+02
Ethylbenzene	8260B	0.0050	3.8E+00	7.3E+04	--	3.8E+00
Ethylene Dibromide	8260B	0.0050	1.0E-04	6.4E-01	NL	1.0E-04

Table 1
Armored Cap Material Analyte List

Parameter	Analytical Method	Reporting Limit (mg/kg)	TCEQ Tier I Residential Soil PCLs[1] (mg/kg)	TRRP Tier 1 Sediment PCLs [4] (mg/kg)	TCEQ Marine PEL[5] (mg/kg)	Required Fill Chemical Concentration Criteria (mg/kg)
Isopropylbenzene	8260B	0.0050	1.7E+02	7.3E+04	NL	1.7E+02
m,p-Xylene	8260B	0.0050	5.3E+01	1.0E+06	--	5.3E+01
Methyl tert-Butyl Ether	8260B	0.0050	3.1E-01	7.3E+03	NL	3.1E-01
Methylene Chloride	8260B	0.0050	6.5E-03	7.3E+03	--	6.5E-03
Naphthalene	8260B	0.0050	1.6E+01	2.5E+03	NL	1.6E+01
n-Butylbenzene	8260B	0.0050	6.1E+01	6.1E+03	NL	6.1E+01
n-Propylbenzene	8260B	0.0050	2.2E+01	2.9E+04	NL	2.2E+01
o-Xylene	8260B	0.0050	3.5E+01	1.0E+06	--	3.5E+01
sec-Butylbenzene	8260B	0.0050	4.2E+01	2.9E+04	NL	4.2E+01
Styrene	8260B	0.0050	1.6E+00	1.5E+05	NL	1.6E+00
tert-Butylbenzene	8260B	0.0050	5.0E+01	2.9E+04	NL	5.0E+01
Tetrachloroethene	8260B	0.0050	2.5E-02	1.0E+03	--	2.5E-02
Toluene	8260B	0.0050	4.1E+00	1.5E+05	--	4.1E+00
trans-1,2-Dichloroethene	8260B	0.0050	2.5E-01	1.5E+04	--	2.5E-01
trans-1,3-Dichloropropene	8260B	0.0050	1.8E-02	5.4E+02	--	1.8E-02
Trichloroethene	8260B	0.0050	1.7E-02	4.4E+03	--	1.7E-02
Trichlorofluoromethane	8260B	0.0050	6.4E+01	2.2E+05	NL	6.4E+01
Vinyl Chloride	8260B	0.0050	1.1E-02	3.6E+01	--	1.1E-02
Organochlorine Pesticides						
DDD	8081A	0.0050	6.5E+00	1.2E+02	--	6.5E+00
DDE	8081A	0.0050	5.9E+00	8.7E+01	--	5.9E+00
DDT	8081A	0.0050	5.4E+00	8.7E+01	5.2E-02	5.2E-02
Aldrin	8081A	0.0050	5.0E-02	8.4E-01	--	5.0E-02
Dieldrin	8081A	0.0050	2.4E-02	8.9E-01	4.3E-03	4.3E-03
alpha-BHC	8081A	0.0050	4.0E-03	4.1E+00	--	4.0E-03
beta-BHC	8081A	0.0050	1.4E-02	1.4E+01	--	1.4E-02
delta-BHC	8081A	0.0050	8.7E-02	1.4E+01	--	8.7E-02
gamma-BHC (Lindane)	8081A	0.0050	4.6E-03	2.0E+01	9.9E-04	9.9E-04
alpha-Chlordane	8081A	0.0050	1.3E+01	4.1E+01	NL	1.3E+01
gamma-Chlordane	8081A	0.0050	7.3E+00	7.3E+01	NL	7.3E+00
alpha-Endosulfan	8081A	0.0050	2.3E+00	3.1E+02	--	2.3E+00
beta-Endosulfan	8081A	0.0050	2.3E+00	9.2E+02	--	2.3E+00
Endosulfan sulfate	8081A	0.0050	3.8E+02	9.2E+02	--	3.8E+02
Endrin	8081A	0.0050	3.8E-01	4.6E+01	--	3.8E-01
Endrin aldehyde	8081A	0.0050	1.9E+01	4.6E+01	NL	1.9E+01
Endrin ketone	8081A	0.0050	1.9E+01	4.6E+01	NL	1.9E+01
Heptachlor	8081A	0.0050	9.4E-02	3.2E+00	--	9.4E-02
Heptachlor epoxide	8081A	0.0050	2.9E-02	1.6E+00	--	2.9E-02
Methoxychlor	8081A	0.010	6.2E+01	7.7E+02	--	6.2E+01
Mirex	8081A	0.0050	1.3E+01	NL	--	1.3E+01
cis-Nonachlor	8081A	0.0050	5.6E+00	4.1E+01	NL	5.6E+00
Oxychlordane	8081A	0.0050	5.6E+00	4.1E+01	NL	5.6E+00
Toxaphene	8081A	0.20	1.2E+00	1.3E+01	--	1.2E+00
Trans-Nonachlor	8081A	0.0050	5.6E+00	4.1E+01	NL	5.6E+00
Chlorinated Herbicides						
2,4,5-T	8151	0.020	NL	NL	--	0.0E+00
2,4-D	8151	0.050	NL	2.5E+03	--	2.5E+03
2,4-D	8151	0.20	NL	2.5E+03	--	2.5E+03

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Armored Cap Material Analyte List

Parameter	Analytical Method	Reporting Limit (mg/kg)	TCEQ Tier I Residential Soil PCLs[1] (mg/kg)	TRRP Tier 1 Sediment PCLs [4] (mg/kg)	TCEQ Marine PEL[5] (mg/kg)	Required Fill Chemical Concentration Criteria (mg/kg)
Dalapon	8151	0.050	2.9E-01	4.6E+03	NL	2.9E-01
Dicamba	8151	0.020	7.3E-01	4.6E+03	NL	7.3E-01
Dichlorprop	8151	0.050	2.3E-01	1.5E+03	NL	2.3E-01
Dinoseb	8151	0.020	1.8E-01	1.5E+02	NL	1.8E-01
MCPA	8151	10	1.2E-02	7.7E+01	NL	1.2E-02
MCPP	8151	10	2.3E-02	1.5E+02	NL	2.3E-02
Silvex	8151	0.020	2.6E+00	1.2E+03	NL	2.6E+00
Polychlorinated Biphenyls (PCBs)						
Total PCBs	8082	0.010	1.1E+00	2.3E+00	1.9E-01	1.9E-01
Dioxin/Furans, ng/kg						
Dioxins		ng/kg [2]	ng/kg [2]	ng/kg [2]	ng/kg [2]	ng/kg [2]
2,3,7,8-TCDD	1613B	1.0	(3)	(3)	NL	(3)
1,2,3,7,8-PeCDD	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,4,7,8-HxCDD	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,6,7,8-HxCDD	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,7,8,9-HxCDD	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,4,6,7,8-HpCDD	1613B	5.0	(3)	(3)	NL	(3)
OCDD	1613B	10	(3)	(3)	NL	(3)
Furans						
2,3,7,8-TCDF	1613B	1.0	(3)	(3)	NL	(3)
1,2,3,7,8-PeCDF	1613B	5.0	(3)	(3)	NL	(3)
2,3,4,7,8,-PeCDF	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,4,7,8-HxCDF	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,6,7,8-HxCDF	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,7,8,9-HxCDF	1613B	5.0	(3)	(3)	NL	(3)
2,3,4,6,7,8-HxCDF	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,4,6,7,8-HpCDF	1613B	5.0	(3)	(3)	NL	(3)
1,2,3,4,7,8,9-HpCDF	1613B	5.0	(3)	(3)	NL	(3)
OCDF	1613B	10	(3)	(3)	NL	(3)

Notes:

1. TCEQ TRRP Tier I Residential Soil PCL Values, 30-acre source area, includes Total Soil Combined and GW Soil Ingestion (Class 1) exposure routes.
2. Dioxin/furan concentrations expressed in ng/kg. All other concentrations in table expressed in mg/kg.
3. Acceptable dioxin/furan concentration is less than 0.45 ng/kg of 2,3,7,8-TCDD and 5 ng/kg TEQ based on WHO 2005[6] TEFs
4. TCEQ TRRP Tier 1 Sediment PCL Values, includes ingestion and dermal pathways
5. TCEQ Guidance for Assessing Texas Surface and Finished Drinking Water Quality Data, 2004
6. Van den Berg et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicological Sciences 93(2): 223-241.

NL - Not Listed

-- No value given