

APPENDIX F

Beazer IDW Analysis and Disposal Manifests

F1: Lab Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-49828-1
Client Project/Site: Beazer Oak Creek - Wabash Alloys

For:
Tetra Tech GEO
175 N Corporate Drive
Suite 100
Brookfield, Wisconsin 53045

Attn: Michael Noel



Authorized for release by:
9/18/2012 4:08:22 PM

Sandie Fredrick
Project Manager I
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Job ID: 500-49828-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-49828-1

Comments

No additional comments.

Receipt

The samples were received on 9/1/2012 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

Except: 1 Jar broken for sample 2.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: The following sample was diluted due to the abundance of target and non-target analytes: Drum Water (500-49828-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: Drum Water (500-49828-1).

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8082: The following sample(s) required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: Drum Water (500-49828-1). The reagent lot number used was: K45N05.

Method(s) 8081A: The continuing calibration verification (CCV) for Endrin associated with batch 161942 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. Drum Soil (500-49828-2), Drum Water (500-49828-1)

Method(s) 8082: The following sample was diluted due to the abundance of non-target analytes: Drum Water (500-49828-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 9034: The following sample was improperly preserved in the field: 500-49828-1. The sample was preserved with Zn Acetate and NaOH in the laboratory.

Method(s) 9034: The sulfide matrix spike duplicate (MSD) recovery for sample Drum Soil (500-49828-2) in batch 162590 was outside control limits. The associated matrix spike (MS) and the laboratory control sample (LCS) recoveries met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Water

Lab Sample ID: 500-49828-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0		0.020	0.010	mg/L	20		8260B	TCLP
2-Methyl-phenol	32		5.0	2.5	mg/L	50		8270C	TCLP
3 & 4 Methylphenol - DL	120		20	10	mg/L	200		8270C	TCLP
Barium	0.21	J	0.50	0.010	mg/L	1		6010B	TCLP
Selenium	0.012	J	0.050	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40	40	Degrees F	1		1010	Total/NA
Sulfide	2.6		1.0	0.23	mg/L	1		9034	Total/NA
pH	7.05	HF	0.200	0.200	SU	1		9040B	Total/NA
TOC Dup	410		20	7.6	mg/L	20		9060	Total/NA

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	200		20	10	ug/L	20		8260B	TCLP
Benzene	31		20	10	ug/L	20		8260B	TCLP
Ethylbenzene	130		20	10	ug/L	20		8260B	TCLP
Isopropylbenzene	25		20	10	ug/L	20		8260B	TCLP
p-Isopropyltoluene	12	J	20	10	ug/L	20		8260B	TCLP
Styrene	30		20	10	ug/L	20		8260B	TCLP
Toluene	170		20	10	ug/L	20		8260B	TCLP
Xylenes, Total	420		40	20	ug/L	20		8260B	TCLP
Naphthalene - DL	16000		200	100	ug/L	200		8260B	TCLP
2,4-Dimethylphenol	220		100	50	ug/L	1		8270C	TCLP
2-Methylnaphthalene	240		100	50	ug/L	1		8270C	TCLP
2-Methylphenol	130		100	50	ug/L	1		8270C	TCLP
3 & 4 Methylphenol	370		100	50	ug/L	1		8270C	TCLP
Acenaphthene	59	J	100	50	ug/L	1		8270C	TCLP
Carbazole	50	J	100	50	ug/L	1		8270C	TCLP
Phenanthrene	50	J	100	50	ug/L	1		8270C	TCLP
Phenol	78	J	100	50	ug/L	1		8270C	TCLP
Naphthalene - DL	2500		500	250	ug/L	5		8270C	TCLP
Barium	0.52		0.50	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		40	40	Degrees F	1		1010	Total/NA
pH	9.38		0.200	0.200	SU	1		9045C	Total/NA
TOC Dup	3700		130	25	mg/Kg	1		Lloyd Kahn	Total/NA

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8151A	Herbicides (GC)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
335.2	Cyanide, Total	MCAWW	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9040B	pH	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9060	Organic Carbon, Total (TOC)	SW846	TAL CHI
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-49828-1	Drum Water	Ground Water	08/30/12 12:00	09/01/12 09:05
500-49828-2	Drum Soil	Solid	08/30/12 14:05	09/01/12 09:05

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Client Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Water

Lab Sample ID: 500-49828-1

Date Collected: 08/30/12 12:00

Matrix: Ground Water

Date Received: 09/01/12 09:05

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
Benzene	1.0		0.020	0.010	mg/L			09/07/12 14:18	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
Chloroform	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			09/07/12 14:18	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
Trichloroethene	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			09/07/12 14:18	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 131					09/07/12 14:18	20
4-Bromofluorobenzene (Surr)	100		79 - 120					09/07/12 14:18	20
Dibromofluoromethane	105		74 - 123					09/07/12 14:18	20
Toluene-d8 (Surr)	107		80 - 120					09/07/12 14:18	20

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<2.5		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
2,4,5-Trichlorophenol	<13		25	13	mg/L		09/06/12 17:30	09/07/12 23:01	50
2,4,6-Trichlorophenol	<2.5		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
2,4-Dinitrotoluene	<2.5		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
2-Methyl-phenol	32		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
Hexachloro-1,3-butadiene	<2.5		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
Hexachlorobenzene	<2.5		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
Hexachloroethane	<2.5		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
Nitrobenzene	<2.5		5.0	2.5	mg/L		09/06/12 17:30	09/07/12 23:01	50
Pentachlorophenol	<13		25	13	mg/L		09/06/12 17:30	09/07/12 23:01	50
Pyridine	<5.0		10	5.0	mg/L		09/06/12 17:30	09/07/12 23:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	0	D	50 - 129				09/06/12 17:30	09/07/12 23:01	50
2-Fluorobiphenyl	0	D	48 - 110				09/06/12 17:30	09/07/12 23:01	50
2-Fluorophenol	0	D	20 - 100				09/06/12 17:30	09/07/12 23:01	50
Nitrobenzene-d5	0	D	41 - 110				09/06/12 17:30	09/07/12 23:01	50
Phenol-d5	0	D	20 - 100				09/06/12 17:30	09/07/12 23:01	50
Terphenyl-d14	0	D	44 - 132				09/06/12 17:30	09/07/12 23:01	50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	120		20	10	mg/L		09/06/12 17:30	09/11/12 17:56	200

Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 16:38	1
Endrin	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:38	1
gamma-BHC (Lindane)	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:38	1
Heptachlor	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:38	1
Heptachlor epoxide	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:38	1
Methoxychlor	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 16:38	1
Toxaphene	<0.025		0.050	0.025	mg/L		09/06/12 17:38	09/07/12 16:38	1

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Water

Lab Sample ID: 500-49828-1

Date Collected: 08/30/12 12:00

Matrix: Ground Water

Date Received: 09/01/12 09:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		30 - 133	09/06/12 17:38	09/07/12 16:38	1
Tetrachloro-m-xylene	79		43 - 120	09/06/12 17:38	09/07/12 16:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.5		4.8	1.5	ug/L		09/07/12 18:13	09/11/12 13:56	10
PCB-1221	<2.3		4.8	2.3	ug/L		09/07/12 18:13	09/11/12 13:56	10
PCB-1232	<0.83		4.8	0.83	ug/L		09/07/12 18:13	09/11/12 13:56	10
PCB-1242	<1.2		4.8	1.2	ug/L		09/07/12 18:13	09/11/12 13:56	10
PCB-1248	<0.98		4.8	0.98	ug/L		09/07/12 18:13	09/11/12 13:56	10
PCB-1254	<0.97		4.8	0.97	ug/L		09/07/12 18:13	09/11/12 13:56	10
PCB-1260	<1.0		4.8	1.0	ug/L		09/07/12 18:13	09/11/12 13:56	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		50 - 120	09/07/12 18:13	09/11/12 13:56	10
DCB Decachlorobiphenyl	60		29 - 126	09/07/12 18:13	09/11/12 13:56	10

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.050		0.10	0.050	mg/L		09/07/12 10:15	09/11/12 20:35	1
Silvex (2,4,5-TP)	<0.050		0.10	0.050	mg/L		09/07/12 10:15	09/11/12 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	85		30 - 129	09/07/12 10:15	09/11/12 20:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		09/06/12 18:00	09/08/12 03:11	1
Barium	0.21	J	0.50	0.010	mg/L		09/06/12 18:00	09/08/12 03:11	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		09/06/12 18:00	09/08/12 03:11	1
Chromium	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/08/12 03:11	1
Copper	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/08/12 03:11	1
Lead	<0.0050		0.050	0.0050	mg/L		09/06/12 18:00	09/08/12 03:11	1
Nickel	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/08/12 03:11	1
Selenium	0.012	J	0.050	0.010	mg/L		09/06/12 18:00	09/08/12 03:11	1
Silver	<0.0050		0.025	0.0050	mg/L		09/06/12 18:00	09/08/12 03:11	1
Zinc	<0.020		0.10	0.020	mg/L		09/06/12 18:00	09/08/12 03:11	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		09/07/12 15:00	09/10/12 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40	40	Degrees F			09/10/12 12:53	1
Cyanide, Total	<0.0033		0.010	0.0033	mg/L		09/06/12 10:00	09/06/12 16:55	1
Sulfide	2.6		1.0	0.23	mg/L			09/06/12 00:26	1
pH	7.05	HF	0.200	0.200	SU			09/01/12 10:25	1
TOC Dup	410		20	7.6	mg/L			09/12/12 08:59	20

Client Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Date Collected: 08/30/12 14:05

Matrix: Solid

Date Received: 09/01/12 09:05

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<10		20	10	ug/L			09/13/12 16:24	20
1,1,1-Trichloroethane	<10		20	10	ug/L			09/13/12 16:24	20
1,1,2,2-Tetrachloroethane	<10		20	10	ug/L			09/13/12 16:24	20
1,1,2-Trichloroethane	<10		20	10	ug/L			09/13/12 16:24	20
1,1-Dichloroethane	<10		20	10	ug/L			09/13/12 16:24	20
1,1-Dichloroethene	<10		20	10	ug/L			09/13/12 16:24	20
1,1-Dichloropropene	<10		20	10	ug/L			09/13/12 16:24	20
1,2,3-Trichlorobenzene	<10		20	10	ug/L			09/13/12 16:24	20
1,2,3-Trichloropropane	<10		20	10	ug/L			09/13/12 16:24	20
1,2,4-Trichlorobenzene	<10		20	10	ug/L			09/13/12 16:24	20
1,2,4-Trimethylbenzene	200		20	10	ug/L			09/13/12 16:24	20
1,2-Dibromo-3-Chloropropane	<10		20	10	ug/L			09/13/12 16:24	20
1,2-Dibromoethane	<10		20	10	ug/L			09/13/12 16:24	20
1,2-Dichlorobenzene	<10		20	10	ug/L			09/13/12 16:24	20
1,2-Dichloroethane	<10		20	10	ug/L			09/13/12 16:24	20
1,2-Dichloropropane	<10		20	10	ug/L			09/13/12 16:24	20
1,3,5-Trimethylbenzene	<10		20	10	ug/L			09/13/12 16:24	20
1,3-Dichlorobenzene	<10		20	10	ug/L			09/13/12 16:24	20
1,3-Dichloropropane	<10		20	10	ug/L			09/13/12 16:24	20
1,4-Dichlorobenzene	<10		20	10	ug/L			09/13/12 16:24	20
2,2-Dichloropropane	<10		20	10	ug/L			09/13/12 16:24	20
2-Chlorotoluene	<10		20	10	ug/L			09/13/12 16:24	20
4-Chlorotoluene	<10		20	10	ug/L			09/13/12 16:24	20
Benzene	31		20	10	ug/L			09/13/12 16:24	20
Bromobenzene	<10		20	10	ug/L			09/13/12 16:24	20
Bromochloromethane	<10		20	10	ug/L			09/13/12 16:24	20
Bromodichloromethane	<10		20	10	ug/L			09/13/12 16:24	20
Bromoform	<10		20	10	ug/L			09/13/12 16:24	20
Bromomethane	<10		20	10	ug/L			09/13/12 16:24	20
Carbon tetrachloride	<10		20	10	ug/L			09/13/12 16:24	20
Chlorobenzene	<10		20	10	ug/L			09/13/12 16:24	20
Chloroethane	<10		20	10	ug/L			09/13/12 16:24	20
Chloroform	<10		20	10	ug/L			09/13/12 16:24	20
Chloromethane	<10		20	10	ug/L			09/13/12 16:24	20
cis-1,2-Dichloroethene	<10		20	10	ug/L			09/13/12 16:24	20
cis-1,3-Dichloropropene	<10		20	10	ug/L			09/13/12 16:24	20
Dibromochloromethane	<10		20	10	ug/L			09/13/12 16:24	20
Dibromomethane	<10		20	10	ug/L			09/13/12 16:24	20
Dichlorodifluoromethane	<10		20	10	ug/L			09/13/12 16:24	20
Ethylbenzene	130		20	10	ug/L			09/13/12 16:24	20
Hexachlorobutadiene	<10		20	10	ug/L			09/13/12 16:24	20
Isopropyl ether	<10		20	10	ug/L			09/13/12 16:24	20
Isopropylbenzene	25		20	10	ug/L			09/13/12 16:24	20
Methyl tert-butyl ether	<10		20	10	ug/L			09/13/12 16:24	20
Methylene Chloride	<50		100	50	ug/L			09/13/12 16:24	20
n-Butylbenzene	<10		20	10	ug/L			09/13/12 16:24	20
N-Propylbenzene	<10		20	10	ug/L			09/13/12 16:24	20
p-Isopropyltoluene	12 J		20	10	ug/L			09/13/12 16:24	20
sec-Butylbenzene	<10		20	10	ug/L			09/13/12 16:24	20
Styrene	30		20	10	ug/L			09/13/12 16:24	20
tert-Butylbenzene	<10		20	10	ug/L			09/13/12 16:24	20

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Date Collected: 08/30/12 14:05

Matrix: Solid

Date Received: 09/01/12 09:05

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<10		20	10	ug/L			09/13/12 16:24	20
Toluene	170		20	10	ug/L			09/13/12 16:24	20
trans-1,2-Dichloroethene	<10		20	10	ug/L			09/13/12 16:24	20
trans-1,3-Dichloropropene	<10		20	10	ug/L			09/13/12 16:24	20
Trichloroethene	<10		20	10	ug/L			09/13/12 16:24	20
Trichlorofluoromethane	<10		20	10	ug/L			09/13/12 16:24	20
Vinyl chloride	<10		20	10	ug/L			09/13/12 16:24	20
Xylenes, Total	420		40	20	ug/L			09/13/12 16:24	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 131					09/13/12 16:24	20
4-Bromofluorobenzene (Surr)	98		79 - 120					09/13/12 16:24	20
Dibromofluoromethane	101		74 - 123					09/13/12 16:24	20
Toluene-d8 (Surr)	100		80 - 120					09/13/12 16:24	20

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1600		200	100	ug/L			09/17/12 12:47	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 131					09/17/12 12:47	200
4-Bromofluorobenzene (Surr)	99		79 - 120					09/17/12 12:47	200
Dibromofluoromethane	98		74 - 123					09/17/12 12:47	200
Toluene-d8 (Surr)	99		80 - 120					09/17/12 12:47	200

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
1,2-Dichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
1,3-Dichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
1,4-Dichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,2'-oxybis[1-chloropropane]	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,4,5-Trichlorophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,4,6-Trichlorophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,4-Dichlorophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,4-Dimethylphenol	220		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,4-Dinitrophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,4-Dinitrotoluene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2,6-Dinitrotoluene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2-Chloronaphthalene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2-Chlorophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2-Methylnaphthalene	240		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2-Methylphenol	130		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
2-Nitroaniline	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
2-Nitrophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
3 & 4 Methylphenol	370		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
3,3'-Dichlorobenzidine	<100		200	100	ug/L		09/06/12 17:30	09/07/12 19:28	1
3-Nitroaniline	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
4,6-Dinitro-2-methylphenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
4-Bromophenyl phenyl ether	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
4-Chloro-3-methylphenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
4-Chloroaniline	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Date Collected: 08/30/12 14:05

Matrix: Solid

Date Received: 09/01/12 09:05

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
4-Nitroaniline	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
4-Nitrophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
Acenaphthene	59	J	100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Acenaphthylene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Anthracene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Benzo[a]anthracene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Benzo[a]pyrene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Benzo[b]fluoranthene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Benzo[g,h,i]perylene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Benzo[k]fluoranthene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Benzoic acid	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
Benzyl alcohol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Bis(2-chloroethoxy)methane	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Bis(2-chloroethyl)ether	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Bis(2-ethylhexyl) phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Butyl benzyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Carbazole	50	J	100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Chrysene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Dibenz(a,h)anthracene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Dibenzofuran	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Diethyl phthalate	<100		100	100	ug/L		09/06/12 17:30	09/07/12 19:28	1
Dimethyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Di-n-butyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Di-n-octyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Fluoranthene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Fluorene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Hexachlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Hexachlorobutadiene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Hexachlorocyclopentadiene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Hexachloroethane	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Indeno[1,2,3-cd]pyrene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Isophorone	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Nitrobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
N-Nitrosodi-n-propylamine	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
N-Nitrosodiphenylamine	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Pentachlorophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 19:28	1
Phenanthrene	50	J	100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Phenol	78	J	100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1
Pyrene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		50 - 129	09/06/12 17:30	09/07/12 19:28	1
2-Fluorobiphenyl	72		48 - 110	09/06/12 17:30	09/07/12 19:28	1
2-Fluorophenol	38		20 - 100	09/06/12 17:30	09/07/12 19:28	1
Nitrobenzene-d5	80		41 - 110	09/06/12 17:30	09/07/12 19:28	1
Phenol-d5	28		20 - 100	09/06/12 17:30	09/07/12 19:28	1
Terphenyl-d14	87		44 - 132	09/06/12 17:30	09/07/12 19:28	1

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Date Collected: 08/30/12 14:05

Matrix: Solid

Date Received: 09/01/12 09:05

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2500		500	250	ug/L		09/06/12 17:30	09/07/12 22:18	5

Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 16:59	1
Endrin	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:59	1
Heptachlor	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:59	1
Heptachlor epoxide	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:59	1
gamma-BHC (Lindane)	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:59	1
Methoxychlor	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 16:59	1
Toxaphene	<0.025		0.050	0.025	mg/L		09/06/12 17:38	09/07/12 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		30 - 133	09/06/12 17:38	09/07/12 16:59	1
Tetrachloro-m-xylene	83		43 - 120	09/06/12 17:38	09/07/12 16:59	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.8		16	5.8	ug/Kg		09/09/12 05:15	09/12/12 13:30	1
PCB-1221	<7.2		16	7.2	ug/Kg		09/09/12 05:15	09/12/12 13:30	1
PCB-1232	<7.1		16	7.1	ug/Kg		09/09/12 05:15	09/12/12 13:30	1
PCB-1242	<5.4		16	5.4	ug/Kg		09/09/12 05:15	09/12/12 13:30	1
PCB-1248	<6.4		16	6.4	ug/Kg		09/09/12 05:15	09/12/12 13:30	1
PCB-1254	<3.5		16	3.5	ug/Kg		09/09/12 05:15	09/12/12 13:30	1
PCB-1260	<8.0		16	8.0	ug/Kg		09/09/12 05:15	09/12/12 13:30	1
Polychlorinated biphenyls, Total	<3.1		16	3.1	ug/Kg		09/09/12 05:15	09/12/12 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		50 - 116	09/09/12 05:15	09/12/12 13:30	1
DCB Decachlorobiphenyl	69		48 - 142	09/09/12 05:15	09/12/12 13:30	1

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<50		100	50	ug/L		09/07/12 10:15	09/11/12 20:58	1
Silvex (2,4,5-TP)	<50		100	50	ug/L		09/07/12 10:15	09/11/12 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	60		30 - 129	09/07/12 10:15	09/11/12 20:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		09/06/12 18:00	09/12/12 01:38	1
Barium	0.52		0.50	0.010	mg/L		09/06/12 18:00	09/12/12 01:38	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		09/06/12 18:00	09/12/12 01:38	1
Chromium	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/12/12 01:38	1
Copper	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/12/12 01:38	1
Lead	<0.0050		0.050	0.0050	mg/L		09/06/12 18:00	09/12/12 01:38	1
Nickel	0.021	J	0.025	0.010	mg/L		09/06/12 18:00	09/12/12 01:38	1
Selenium	<0.010		0.050	0.010	mg/L		09/06/12 18:00	09/12/12 01:38	1
Silver	<0.0050		0.025	0.0050	mg/L		09/06/12 18:00	09/12/12 01:38	1
Zinc	0.021	J	0.10	0.020	mg/L		09/06/12 18:00	09/12/12 01:38	1

Client Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Date Collected: 08/30/12 14:05

Matrix: Solid

Date Received: 09/01/12 09:05

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		09/06/12 16:00	09/07/12 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		40	40	Degrees F			09/10/12 13:27	1
Cyanide, Total	<0.16		0.49	0.16	mg/Kg		09/06/12 11:01	09/06/12 17:42	1
Sulfide	<4.0		25	4.0	mg/Kg		09/12/12 14:15	09/13/12 15:15	1
pH	9.38		0.200	0.200	SU			09/08/12 14:21	1
TOC Dup	3700		130	25	mg/Kg			09/07/12 11:54	1

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

GC/MS VOA

Leach Batch: 161785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	1311	
LB3 500-161785/1-A LB3	Method Blank	TCLP	Water	1311	

Analysis Batch: 161915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	8260B	161785
LB3 500-161785/1-A LB3	Method Blank	TCLP	Water	8260B	161785
LCS 500-161915/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-161915/6	Method Blank	Total/NA	Water	8260B	

Leach Batch: 162329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	1311	
500-49828-2 - DL	Drum Soil	TCLP	Solid	1311	
LB 500-162329/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 162547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	8260B	162329
LB 500-162329/1-A LB	Method Blank	TCLP	Solid	8260B	162329
LCS 500-162547/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-162547/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 162829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2 - DL	Drum Soil	TCLP	Solid	8260B	162329
LCS 500-162829/9	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-162829/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 161733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	1311	
500-49828-2 - DL	Drum Soil	TCLP	Solid	1311	
LB 500-161733/1-C LB	Method Blank	TCLP	Solid	1311	

Leach Batch: 161784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	1311	
500-49828-1 - DL	Drum Water	TCLP	Ground Water	1311	
LB3 500-161784/1-B LB3	Method Blank	TCLP	Water	1311	

Prep Batch: 161870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	3510C	161784
500-49828-1 - DL	Drum Water	TCLP	Ground Water	3510C	161784
500-49828-2	Drum Soil	TCLP	Solid	3510C	161733
500-49828-2 - DL	Drum Soil	TCLP	Solid	3510C	161733
LB 500-161733/1-C LB	Method Blank	TCLP	Solid	3510C	161733
LB3 500-161784/1-B LB3	Method Blank	TCLP	Water	3510C	161784
LCS 500-161870/2-A	Lab Control Sample	Total/NA	Water	3510C	

QC Association Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

GC/MS Semi VOA (Continued)

Prep Batch: 161870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-161870/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 161959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	8270C	161870
500-49828-2	Drum Soil	TCLP	Solid	8270C	161870
500-49828-2 - DL	Drum Soil	TCLP	Solid	8270C	161870
LB 500-161733/1-C LB	Method Blank	TCLP	Solid	8270C	161870
LB3 500-161784/1-B LB3	Method Blank	TCLP	Water	8270C	161870
LCS 500-161870/2-A	Lab Control Sample	Total/NA	Water	8270C	161870
MB 500-161870/1-A	Method Blank	Total/NA	Water	8270C	161870

Analysis Batch: 162318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1 - DL	Drum Water	TCLP	Ground Water	8270C	161870

GC Semi VOA

Leach Batch: 161733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	1311	
LB 500-161733/1-D LB	Method Blank	TCLP	Solid	1311	
LB 500-161733/1-F LB	Method Blank	TCLP	Solid	1311	

Leach Batch: 161784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	1311	
LB3 500-161784/1-E LB3	Method Blank	TCLP	Water	1311	
LB3 500-161784/1-F LB3	Method Blank	TCLP	Water	1311	

Prep Batch: 161871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	3510C	161784
500-49828-2	Drum Soil	TCLP	Solid	3510C	161733
LB 500-161733/1-D LB	Method Blank	TCLP	Solid	3510C	161733
LB3 500-161784/1-E LB3	Method Blank	TCLP	Water	3510C	161784
LCS 500-161871/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-161871/3-A	Lab Control Sample	Total/NA	Water	3510C	
MB 500-161871/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 161942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	8081A	161871
500-49828-2	Drum Soil	TCLP	Solid	8081A	161871
LB 500-161733/1-D LB	Method Blank	TCLP	Solid	8081A	161871
LB3 500-161784/1-E LB3	Method Blank	TCLP	Water	8081A	161871
LCS 500-161871/2-A	Lab Control Sample	Total/NA	Water	8081A	161871
LCS 500-161871/3-A	Lab Control Sample	Total/NA	Water	8081A	161871
MB 500-161871/1-A	Method Blank	Total/NA	Water	8081A	161871

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

GC Semi VOA (Continued)

Prep Batch: 161971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	8151A	161784
500-49828-2	Drum Soil	TCLP	Solid	8151A	161733
LB 500-161733/1-F LB	Method Blank	TCLP	Solid	8151A	161733
LB3 500-161784/1-F LB3	Method Blank	TCLP	Water	8151A	161784
LCS 500-161971/2-A	Lab Control Sample	Total/NA	Water	8151A	
MB 500-161971/1-A	Method Blank	Total/NA	Water	8151A	

Prep Batch: 162046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	3510C	
LCS 500-162046/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-162046/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-162046/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 162120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	3541	
LCS 500-162120/3-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-162120/4-A	Lab Control Sample Dup	Total/NA	Solid	3541	
MB 500-162120/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 162130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	8151A	161971
500-49828-2	Drum Soil	TCLP	Solid	8151A	161971
LB 500-161733/1-F LB	Method Blank	TCLP	Solid	8151A	161971
LB3 500-161784/1-F LB3	Method Blank	TCLP	Water	8151A	161971
LCS 500-161971/2-A	Lab Control Sample	Total/NA	Water	8151A	161971
MB 500-161971/1-A	Method Blank	Total/NA	Water	8151A	161971

Analysis Batch: 162163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	8082	162046
LCS 500-162046/2-A	Lab Control Sample	Total/NA	Water	8082	162046
LCS 500-162046/3-A	Lab Control Sample Dup	Total/NA	Water	8082	162046
MB 500-162046/1-A	Method Blank	Total/NA	Water	8082	162046

Analysis Batch: 162390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	8082	162120
LCS 500-162120/3-A	Lab Control Sample	Total/NA	Solid	8082	162120
LCS 500-162120/4-A	Lab Control Sample Dup	Total/NA	Solid	8082	162120
MB 500-162120/1-A	Method Blank	Total/NA	Solid	8082	162120

Metals

Leach Batch: 161733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	1311	
500-49828-2 DU	Drum Soil	TCLP	Solid	1311	
500-49828-2 MS	Drum Soil	TCLP	Solid	1311	
LB 500-161733/1-B LB	Method Blank	TCLP	Solid	1311	

QC Association Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Metals (Continued)

Leach Batch: 161733 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-161733/1-E LB	Method Blank	TCLP	Solid	1311	

Leach Batch: 161784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	1311	
LB3 500-161784/1-C LB3	Method Blank	TCLP	Water	1311	
LB3 500-161784/1-G LB3	Method Blank	TCLP	Water	1311	

Prep Batch: 161851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	7470A	161733
500-49828-2 DU	Drum Soil	TCLP	Solid	7470A	161733
500-49828-2 MS	Drum Soil	TCLP	Solid	7470A	161733
LB 500-161733/1-B LB	Method Blank	TCLP	Solid	7470A	161733
LCS 500-161851/8-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-161851/7-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 161878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	3010A	161784
LB3 500-161784/1-C LB3	Method Blank	TCLP	Water	3010A	161784
LCS 500-161878/3-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 161882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	3010A	161733
LB 500-161733/1-E LB	Method Blank	TCLP	Solid	3010A	161733
LCS 500-161882/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 161982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	7470A	161851
500-49828-2 DU	Drum Soil	TCLP	Solid	7470A	161851
500-49828-2 MS	Drum Soil	TCLP	Solid	7470A	161851
LB 500-161733/1-B LB	Method Blank	TCLP	Solid	7470A	161851
LCS 500-161851/8-A	Lab Control Sample	Total/NA	Solid	7470A	161851
MB 500-161851/7-A	Method Blank	Total/NA	Solid	7470A	161851

Prep Batch: 161996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	7470A	161784
LB3 500-161784/1-G LB3	Method Blank	TCLP	Water	7470A	161784
LCS 500-161996/8-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-161996/7-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 162054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	6010B	161878
LB3 500-161784/1-C LB3	Method Blank	TCLP	Water	6010B	161878
LCS 500-161878/3-A	Lab Control Sample	Total/NA	Water	6010B	161878

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Metals (Continued)

Analysis Batch: 162157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	TCLP	Ground Water	7470A	161996
LB3 500-161784/1-G LB3	Method Blank	TCLP	Water	7470A	161996
LCS 500-161996/8-A	Lab Control Sample	Total/NA	Water	7470A	161996
MB 500-161996/7-A	Method Blank	Total/NA	Water	7470A	161996

Analysis Batch: 162368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	TCLP	Solid	6010B	161882
LB 500-161733/1-E LB	Method Blank	TCLP	Solid	6010B	161882
LCS 500-161882/3-A	Lab Control Sample	Total/NA	Solid	6010B	161882

General Chemistry

Analysis Batch: 161455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	Moisture	

Analysis Batch: 161680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	9040B	
500-49828-1 DU	Drum Water	Total/NA	Ground Water	9040B	

Analysis Batch: 161765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	9034	
500-49828-1 MS	Drum Water	Total/NA	Ground Water	9034	
500-49828-1 MSD	Drum Water	Total/NA	Ground Water	9034	
LCS 500-161765/2	Lab Control Sample	Total/NA	Water	9034	
MB 500-161765/1	Method Blank	Total/NA	Water	9034	

Prep Batch: 161809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	Distill/CN	
LCS 500-161809/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MB 500-161809/1-A	Method Blank	Total/NA	Water	Distill/CN	

Prep Batch: 161815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	9010B	
500-49828-2 MS	Drum Soil	Total/NA	Solid	9010B	
500-49828-2 MSD	Drum Soil	Total/NA	Solid	9010B	
LCS 500-161815/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-161815/1-A	Method Blank	Total/NA	Solid	9010B	

Analysis Batch: 161925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	9014	161815
500-49828-2 MS	Drum Soil	Total/NA	Solid	9014	161815
500-49828-2 MSD	Drum Soil	Total/NA	Solid	9014	161815
LCS 500-161815/2-A	Lab Control Sample	Total/NA	Solid	9014	161815
MB 500-161815/1-A	Method Blank	Total/NA	Solid	9014	161815

QC Association Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

General Chemistry (Continued)

Analysis Batch: 161930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	335.2	161809
LCS 500-161809/2-A	Lab Control Sample	Total/NA	Water	335.2	161809
MB 500-161809/1-A	Method Blank	Total/NA	Water	335.2	161809

Analysis Batch: 162009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	Lloyd Kahn	
LCS 500-162009/3	Lab Control Sample	Total/NA	Solid	Lloyd Kahn	
MB 500-162009/2	Method Blank	Total/NA	Solid	Lloyd Kahn	

Analysis Batch: 162121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	9045C	

Analysis Batch: 162151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	1010	
500-49828-2	Drum Soil	Total/NA	Solid	1010	

Prep Batch: 162448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	9030B	
500-49828-2 MS	Drum Soil	Total/NA	Solid	9030B	
500-49828-2 MSD	Drum Soil	Total/NA	Solid	9030B	
LCS 500-162448/2-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 500-162448/1-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 162457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-1	Drum Water	Total/NA	Ground Water	9060	
LCS 500-162457/4	Lab Control Sample	Total/NA	Water	9060	
MB 500-162457/3	Method Blank	Total/NA	Water	9060	

Analysis Batch: 162590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-49828-2	Drum Soil	Total/NA	Solid	9034	162448
500-49828-2 MS	Drum Soil	Total/NA	Solid	9034	162448
500-49828-2 MSD	Drum Soil	Total/NA	Solid	9034	162448
LCS 500-162448/2-A	Lab Control Sample	Total/NA	Solid	9034	162448
MB 500-162448/1-A	Method Blank	Total/NA	Solid	9034	162448

Surrogate Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
500-49828-1	Drum Water	105	100	105	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
LCS 500-162547/4	Lab Control Sample	98	100	102	106
LCS 500-162829/9	Lab Control Sample	111	110	108	111
MB 500-162547/6	Method Blank	96	94	103	103
MB 500-162829/6	Method Blank	105	104	105	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
500-49828-2	Drum Soil	94	98	101	100
500-49828-2 - DL	Drum Soil	97	99	98	99
LB 500-162329/1-A LB	Method Blank	95	93	100	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
LCS 500-161915/4	Lab Control Sample	98	100	101	104
MB 500-161915/6	Method Blank	100	96	102	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
LB3 500-161785/1-A LB3	Method Blank	109	101	107	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (50-129)	FBP (48-110)	2FP (20-100)	NBZ (41-110)	PHL (20-100)	TPH (44-132)
500-49828-1	Drum Water	0 D	0 D	0 D	0 D	0 D	0 D
500-49828-1 - DL	Drum Water	0 D	0 D	0 D	0 D	0 D	0 D

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPH = Terphenyl-d14

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (50-129)	FBP (48-110)	2FP (20-100)	NBZ (41-110)	PHL (20-100)	TPH (44-132)
500-49828-2	Drum Soil	85	72	38	80	28	87
500-49828-2 - DL	Drum Soil	94	77	36	77	27	78
LB 500-161733/1-C LB	Method Blank	91	79	41	80	31	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPH = Terphenyl-d14

Surrogate Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (50-129)	FBP (48-110)	2FP (20-100)	NBZ (41-110)	PHL (20-100)	TPH (44-132)
LCS 500-161870/2-A	Lab Control Sample	94	79	40	81	31	94
MB 500-161870/1-A	Method Blank	79	85	42	85	31	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPH = Terphenyl-d14

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (50-129)	FBP (48-110)	2FP (20-100)	NBZ (41-110)	PHL (20-100)	TPH (44-132)
LB3 500-161784/1-B LB3	Method Blank	81	77	37	78	28	78

Surrogate Legend

TBP = 2,4,6-Tribromophenol
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol
 NBZ = Nitrobenzene-d5
 PHL = Phenol-d5
 TPH = Terphenyl-d14

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Ground Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (30-133)	TCX2 (43-120)
500-49828-1	Drum Water	103	79

Surrogate Legend

DCB = DCB Decachlorobiphenyl
 TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (30-133)	TCX2 (43-120)
500-49828-2	Drum Soil	100	83
LB 500-161733/1-D LB	Method Blank	98	86

Surrogate Legend

DCB = DCB Decachlorobiphenyl
 TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB2 (30-133)	TCX2 (43-120)
LCS 500-161871/2-A	Lab Control Sample	93	81
LCS 500-161871/3-A	Lab Control Sample	63	83
MB 500-161871/1-A	Method Blank	87	72

Surrogate Legend
 DCB = DCB Decachlorobiphenyl
 TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB2 (30-133)	TCX2 (43-120)
LB3 500-161784/1-E LB3	Method Blank	56	73

Surrogate Legend
 DCB = DCB Decachlorobiphenyl
 TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (50-120)	DCB1 (29-126)
500-49828-1	Drum Water	100	60

Surrogate Legend
 TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-49828-2	Drum Soil	61	69
LCS 500-162120/3-A	Lab Control Sample	93	97
LCSD 500-162120/4-A	Lab Control Sample Dup	84	92
MB 500-162120/1-A	Method Blank	86	89

Surrogate Legend
 TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (50-120)	DCB1 (29-126)
LCS 500-162046/2-A	Lab Control Sample	77	64
LCS 500-162046/3-A	Lab Control Sample Dup	81	80
MB 500-162046/1-A	Method Blank	85	93

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Ground Water

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (30-129)
500-49828-1	Drum Water	85

Surrogate Legend

DCPA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (30-129)
500-49828-2	Drum Soil	60
LB 500-161733/1-F LB	Method Blank	70

Surrogate Legend

DCPA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (30-129)
LCS 500-161971/2-A	Lab Control Sample	87
MB 500-161971/1-A	Method Blank	101

Surrogate Legend

DCPA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (30-129)
LB3 500-161784/1-F LB3	Method Blank	82

Surrogate Legend

DCPA = DCAA

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-161915/6

Matrix: Water

Analysis Batch: 161915

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			09/07/12 09:53	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Benzene	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Chloroform	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			09/07/12 09:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 131		09/07/12 09:53	1
4-Bromofluorobenzene (Surr)	96		79 - 120		09/07/12 09:53	1
Dibromofluoromethane	102		74 - 123		09/07/12 09:53	1
Toluene-d8 (Surr)	104		80 - 120		09/07/12 09:53	1

Lab Sample ID: LCS 500-161915/4

Matrix: Water

Analysis Batch: 161915

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0522		mg/L		104	58 - 115
Methyl Ethyl Ketone	0.0500	0.0547		mg/L		109	53 - 140
1,2-Dichloroethane	0.0500	0.0460		mg/L		92	76 - 117
Benzene	0.0500	0.0515		mg/L		103	74 - 115
Carbon tetrachloride	0.0500	0.0454		mg/L		91	72 - 124
Chlorobenzene	0.0500	0.0466		mg/L		93	80 - 120
Chloroform	0.0500	0.0488		mg/L		98	76 - 117
Tetrachloroethene	0.0500	0.0456		mg/L		91	71 - 120
Trichloroethene	0.0500	0.0488		mg/L		98	75 - 120
Vinyl chloride	0.0500	0.0499		mg/L		100	51 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 131
4-Bromofluorobenzene (Surr)	100		79 - 120
Dibromofluoromethane	101		74 - 123
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: MB 500-162547/6

Matrix: Solid

Analysis Batch: 162547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,1,1,2,2-Tetrachloroethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,1,1,2-Trichloroethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,1-Dichloroethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-162547/6

Matrix: Solid

Analysis Batch: 162547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,1-Dichloropropene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2,3-Trichlorobenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2,3-Trichloropropane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2,4-Trichlorobenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2,4-Trimethylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2-Dibromo-3-Chloropropane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2-Dibromoethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2-Dichlorobenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,2-Dichloropropane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,3,5-Trimethylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,3-Dichlorobenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,3-Dichloropropane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
1,4-Dichlorobenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
2,2-Dichloropropane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
2-Chlorotoluene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
4-Chlorotoluene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Benzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Bromobenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Bromochloromethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Bromodichloromethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Bromoform	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Bromomethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Chlorobenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Chloroethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Chloroform	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Chloromethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
cis-1,2-Dichloroethene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
cis-1,3-Dichloropropene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Dibromochloromethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Dibromomethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Dichlorodifluoromethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Ethylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Hexachlorobutadiene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Isopropyl ether	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Isopropylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Methyl tert-butyl ether	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			09/13/12 13:36	1
Naphthalene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
n-Butylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
N-Propylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
p-Isopropyltoluene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
sec-Butylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Styrene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
tert-Butylbenzene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Tetrachloroethene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Toluene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
trans-1,2-Dichloroethene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-162547/6

Matrix: Solid

Analysis Batch: 162547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Trichloroethene	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Trichlorofluoromethane	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			09/13/12 13:36	1
Xylenes, Total	<1.0		2.0	1.0	ug/L			09/13/12 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 131		09/13/12 13:36	1
4-Bromofluorobenzene (Surr)	94		79 - 120		09/13/12 13:36	1
Dibromofluoromethane	103		74 - 123		09/13/12 13:36	1
Toluene-d8 (Surr)	103		80 - 120		09/13/12 13:36	1

Lab Sample ID: LCS 500-162547/4

Matrix: Solid

Analysis Batch: 162547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	43.5		ug/L		87	80 - 120
1,1,1-Trichloroethane	50.0	46.6		ug/L		93	77 - 117
1,1,1,2,2-Tetrachloroethane	50.0	44.6		ug/L		89	78 - 123
1,1,2-Trichloroethane	50.0	46.8		ug/L		94	78 - 121
1,1-Dichloroethane	50.0	47.3		ug/L		95	66 - 118
1,1-Dichloroethene	50.0	49.8		ug/L		100	58 - 115
1,1-Dichloropropene	50.0	46.7		ug/L		93	71 - 113
1,2,3-Trichlorobenzene	50.0	45.0		ug/L		90	74 - 126
1,2,3-Trichloropropane	50.0	42.3		ug/L		85	77 - 119
1,2,4-Trichlorobenzene	50.0	43.3		ug/L		87	70 - 118
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	40.0		ug/L		80	53 - 133
1,2-Dibromoethane	50.0	47.0		ug/L		94	79 - 120
1,2-Dichlorobenzene	50.0	44.9		ug/L		90	80 - 120
1,2-Dichloroethane	50.0	42.0		ug/L		84	76 - 117
1,2-Dichloropropane	50.0	48.5		ug/L		97	77 - 118
1,3,5-Trimethylbenzene	50.0	50.4		ug/L		101	83 - 120
1,3-Dichlorobenzene	50.0	45.7		ug/L		91	80 - 120
1,3-Dichloropropane	50.0	45.4		ug/L		91	79 - 114
1,4-Dichlorobenzene	50.0	44.4		ug/L		89	80 - 120
2,2-Dichloropropane	50.0	45.7		ug/L		91	70 - 117
2-Chlorotoluene	50.0	47.4		ug/L		95	80 - 120
4-Chlorotoluene	50.0	46.0		ug/L		92	80 - 120
Benzene	50.0	49.8		ug/L		100	74 - 115
Bromobenzene	50.0	44.6		ug/L		89	80 - 120
Bromochloromethane	50.0	48.5		ug/L		97	72 - 119
Bromodichloromethane	50.0	43.8		ug/L		88	79 - 117
Bromoform	50.0	42.6		ug/L		85	64 - 127
Bromomethane	50.0	45.3		ug/L		91	47 - 158
Carbon tetrachloride	50.0	42.8		ug/L		86	72 - 124
Chlorobenzene	50.0	45.4		ug/L		91	80 - 120
Chloroethane	50.0	51.5		ug/L		103	54 - 143

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-162547/4

Matrix: Solid

Analysis Batch: 162547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	46.7		ug/L		93	76 - 117
Chloromethane	50.0	41.4		ug/L		83	56 - 144
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	75 - 119
cis-1,3-Dichloropropene	53.8	48.4		ug/L		90	71 - 112
Dibromochloromethane	50.0	42.9		ug/L		86	73 - 120
Dibromomethane	50.0	44.5		ug/L		89	76 - 120
Dichlorodifluoromethane	50.0	32.0		ug/L		64	43 - 139
Ethylbenzene	50.0	49.4		ug/L		99	79 - 115
Hexachlorobutadiene	50.0	42.9		ug/L		86	71 - 128
Isopropylbenzene	50.0	41.6		ug/L		83	68 - 120
Methyl tert-butyl ether	50.0	50.0		ug/L		100	60 - 125
Methylene Chloride	50.0	50.4		ug/L		101	63 - 130
Naphthalene	50.0	46.2		ug/L		92	72 - 127
n-Butylbenzene	50.0	49.6		ug/L		99	78 - 119
N-Propylbenzene	50.0	48.3		ug/L		97	77 - 114
p-Isopropyltoluene	50.0	47.4		ug/L		95	77 - 120
sec-Butylbenzene	50.0	49.3		ug/L		99	79 - 117
Styrene	50.0	49.4		ug/L		99	80 - 120
tert-Butylbenzene	50.0	48.1		ug/L		96	80 - 120
Tetrachloroethene	50.0	44.0		ug/L		88	71 - 120
Toluene	50.0	52.0		ug/L		104	80 - 120
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	74 - 119
trans-1,3-Dichloropropene	48.6	42.8		ug/L		88	66 - 116
Trichloroethene	50.0	47.6		ug/L		95	75 - 120
Trichlorofluoromethane	50.0	48.0		ug/L		96	66 - 126
Vinyl chloride	50.0	43.2		ug/L		86	51 - 149
Xylenes, Total	150	147		ug/L		98	78 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		75 - 131
4-Bromofluorobenzene (Surr)	100		79 - 120
Dibromofluoromethane	102		74 - 123
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: MB 500-162829/6

Matrix: Solid

Analysis Batch: 162829

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,1,1-Trichloroethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,1,1,2,2-Tetrachloroethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,1,2-Trichloroethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,1-Dichloroethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,1-Dichloroethene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,1-Dichloropropene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2,3-Trichlorobenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2,3-Trichloropropane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2,4-Trichlorobenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-162829/6

Matrix: Solid

Analysis Batch: 162829

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2-Dibromo-3-Chloropropane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2-Dibromoethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2-Dichlorobenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2-Dichloroethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,2-Dichloropropane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,3,5-Trimethylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,3-Dichlorobenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,3-Dichloropropane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
1,4-Dichlorobenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
2,2-Dichloropropane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
2-Chlorotoluene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
4-Chlorotoluene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Benzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Bromobenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Bromochloromethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Bromodichloromethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Bromoform	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Bromomethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Carbon tetrachloride	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Chlorobenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Chloroethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Chloroform	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Chloromethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
cis-1,2-Dichloroethene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
cis-1,3-Dichloropropene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Dibromochloromethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Dibromomethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Dichlorodifluoromethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Ethylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Hexachlorobutadiene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Isopropyl ether	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Isopropylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Methyl tert-butyl ether	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Methylene Chloride	<2.5		5.0	2.5	ug/L			09/17/12 12:22	1
Naphthalene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
n-Butylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
N-Propylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
p-Isopropyltoluene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
sec-Butylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Styrene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
tert-Butylbenzene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Tetrachloroethene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Toluene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
trans-1,2-Dichloroethene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
trans-1,3-Dichloropropene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Trichloroethene	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Trichlorofluoromethane	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Vinyl chloride	<0.50		1.0	0.50	ug/L			09/17/12 12:22	1
Xylenes, Total	<1.0		2.0	1.0	ug/L			09/17/12 12:22	1

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-162829/6

Matrix: Solid

Analysis Batch: 162829

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 131		09/17/12 12:22	1
4-Bromofluorobenzene (Surr)	104		79 - 120		09/17/12 12:22	1
Dibromofluoromethane	105		74 - 123		09/17/12 12:22	1
Toluene-d8 (Surr)	104		80 - 120		09/17/12 12:22	1

Lab Sample ID: LCS 500-162829/9

Matrix: Solid

Analysis Batch: 162829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/L		108	80 - 120
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	77 - 117
1,1,1,2,2-Tetrachloroethane	50.0	55.2		ug/L		110	78 - 123
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	78 - 121
1,1-Dichloroethane	50.0	49.3		ug/L		99	66 - 118
1,1-Dichloroethene	50.0	48.2		ug/L		96	58 - 115
1,1-Dichloropropene	50.0	50.1		ug/L		100	71 - 113
1,2,3-Trichlorobenzene	50.0	53.1		ug/L		106	74 - 126
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	77 - 119
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	70 - 118
1,2,4-Trimethylbenzene	50.0	53.9		ug/L		108	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/L		101	53 - 133
1,2-Dibromoethane	50.0	55.0		ug/L		110	79 - 120
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	52.2		ug/L		104	76 - 117
1,2-Dichloropropane	50.0	50.4		ug/L		101	77 - 118
1,3,5-Trimethylbenzene	50.0	54.6		ug/L		109	83 - 120
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120
1,3-Dichloropropane	50.0	52.1		ug/L		104	79 - 114
1,4-Dichlorobenzene	50.0	51.5		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 117
2-Chlorotoluene	50.0	52.4		ug/L		105	80 - 120
4-Chlorotoluene	50.0	51.7		ug/L		103	80 - 120
Benzene	50.0	50.6		ug/L		101	74 - 115
Bromobenzene	50.0	53.8		ug/L		108	80 - 120
Bromochloromethane	50.0	57.7		ug/L		115	72 - 119
Bromodichloromethane	50.0	53.5		ug/L		107	79 - 117
Bromoform	50.0	57.3		ug/L		115	64 - 127
Bromomethane	50.0	40.7		ug/L		81	47 - 158
Carbon tetrachloride	50.0	53.6		ug/L		107	72 - 124
Chlorobenzene	50.0	51.5		ug/L		103	80 - 120
Chloroethane	50.0	44.5		ug/L		89	54 - 143
Chloroform	50.0	51.7		ug/L		103	76 - 117
Chloromethane	50.0	38.1		ug/L		76	56 - 144
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	75 - 119
cis-1,3-Dichloropropene	53.8	56.6		ug/L		105	71 - 112
Dibromochloromethane	50.0	57.7		ug/L		115	73 - 120
Dibromomethane	50.0	51.2		ug/L		102	76 - 120
Dichlorodifluoromethane	50.0	33.1		ug/L		66	43 - 139

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-162829/9

Matrix: Solid

Analysis Batch: 162829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	52.5		ug/L		105	79 - 115
Hexachlorobutadiene	50.0	52.8		ug/L		106	71 - 128
Isopropylbenzene	50.0	46.3		ug/L		93	68 - 120
Methyl tert-butyl ether	50.0	57.9		ug/L		116	60 - 125
Methylene Chloride	50.0	50.0		ug/L		100	63 - 130
Naphthalene	50.0	52.8		ug/L		106	72 - 127
n-Butylbenzene	50.0	54.6		ug/L		109	78 - 119
N-Propylbenzene	50.0	52.9		ug/L		106	77 - 114
p-Isopropyltoluene	50.0	50.7		ug/L		101	77 - 120
sec-Butylbenzene	50.0	54.0		ug/L		108	79 - 117
Styrene	50.0	53.2		ug/L		106	80 - 120
tert-Butylbenzene	50.0	53.8		ug/L		108	80 - 120
Tetrachloroethene	50.0	51.5		ug/L		103	71 - 120
Toluene	50.0	50.8		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	74 - 119
trans-1,3-Dichloropropene	48.6	53.7		ug/L		111	66 - 116
Trichloroethene	50.0	51.5		ug/L		103	75 - 120
Trichlorofluoromethane	50.0	50.5		ug/L		101	66 - 126
Vinyl chloride	50.0	45.5		ug/L		91	51 - 149
Xylenes, Total	150	154		ug/L		103	78 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		75 - 131
4-Bromofluorobenzene (Surr)	110		79 - 120
Dibromofluoromethane	108		74 - 123
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: LB3 500-161785/1-A LB3

Matrix: Water

Analysis Batch: 161915

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB3 LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			09/07/12 13:30	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Benzene	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Chloroform	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Trichloroethene	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			09/07/12 13:30	20

Surrogate	LB3 LB3		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		75 - 131		09/07/12 13:30	20
4-Bromofluorobenzene (Surr)	101		79 - 120		09/07/12 13:30	20
Dibromofluoromethane	107		74 - 123		09/07/12 13:30	20
Toluene-d8 (Surr)	108		80 - 120		09/07/12 13:30	20

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-162329/1-A LB

Matrix: Solid

Analysis Batch: 162547

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<10		20	10	ug/L			09/13/12 14:00	20
1,1,1-Trichloroethane	<10		20	10	ug/L			09/13/12 14:00	20
1,1,2,2-Tetrachloroethane	<10		20	10	ug/L			09/13/12 14:00	20
1,1,2-Trichloroethane	<10		20	10	ug/L			09/13/12 14:00	20
1,1-Dichloroethane	<10		20	10	ug/L			09/13/12 14:00	20
1,1-Dichloroethene	<10		20	10	ug/L			09/13/12 14:00	20
1,1-Dichloropropene	<10		20	10	ug/L			09/13/12 14:00	20
1,2,3-Trichlorobenzene	<10		20	10	ug/L			09/13/12 14:00	20
1,2,3-Trichloropropane	<10		20	10	ug/L			09/13/12 14:00	20
1,2,4-Trichlorobenzene	<10		20	10	ug/L			09/13/12 14:00	20
1,2,4-Trimethylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
1,2-Dibromo-3-Chloropropane	<10		20	10	ug/L			09/13/12 14:00	20
1,2-Dibromoethane	<10		20	10	ug/L			09/13/12 14:00	20
1,2-Dichlorobenzene	<10		20	10	ug/L			09/13/12 14:00	20
1,2-Dichloroethane	<10		20	10	ug/L			09/13/12 14:00	20
1,2-Dichloropropane	<10		20	10	ug/L			09/13/12 14:00	20
1,3,5-Trimethylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
1,3-Dichlorobenzene	<10		20	10	ug/L			09/13/12 14:00	20
1,3-Dichloropropane	<10		20	10	ug/L			09/13/12 14:00	20
1,4-Dichlorobenzene	<10		20	10	ug/L			09/13/12 14:00	20
2,2-Dichloropropane	<10		20	10	ug/L			09/13/12 14:00	20
2-Chlorotoluene	<10		20	10	ug/L			09/13/12 14:00	20
4-Chlorotoluene	<10		20	10	ug/L			09/13/12 14:00	20
Benzene	<10		20	10	ug/L			09/13/12 14:00	20
Bromobenzene	<10		20	10	ug/L			09/13/12 14:00	20
Bromochloromethane	<10		20	10	ug/L			09/13/12 14:00	20
Bromodichloromethane	<10		20	10	ug/L			09/13/12 14:00	20
Bromoform	<10		20	10	ug/L			09/13/12 14:00	20
Bromomethane	<10		20	10	ug/L			09/13/12 14:00	20
Carbon tetrachloride	<10		20	10	ug/L			09/13/12 14:00	20
Chlorobenzene	<10		20	10	ug/L			09/13/12 14:00	20
Chloroethane	<10		20	10	ug/L			09/13/12 14:00	20
Chloroform	<10		20	10	ug/L			09/13/12 14:00	20
Chloromethane	<10		20	10	ug/L			09/13/12 14:00	20
cis-1,2-Dichloroethene	<10		20	10	ug/L			09/13/12 14:00	20
cis-1,3-Dichloropropene	<10		20	10	ug/L			09/13/12 14:00	20
Dibromochloromethane	<10		20	10	ug/L			09/13/12 14:00	20
Dibromomethane	<10		20	10	ug/L			09/13/12 14:00	20
Dichlorodifluoromethane	<10		20	10	ug/L			09/13/12 14:00	20
Ethylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
Hexachlorobutadiene	<10		20	10	ug/L			09/13/12 14:00	20
Isopropyl ether	<10		20	10	ug/L			09/13/12 14:00	20
Isopropylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
Methyl tert-butyl ether	<10		20	10	ug/L			09/13/12 14:00	20
Methylene Chloride	<50		100	50	ug/L			09/13/12 14:00	20
Naphthalene	<10		20	10	ug/L			09/13/12 14:00	20
n-Butylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
N-Propylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
p-Isopropyltoluene	<10		20	10	ug/L			09/13/12 14:00	20

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-162329/1-A LB
Matrix: Solid
Analysis Batch: 162547

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
Styrene	<10		20	10	ug/L			09/13/12 14:00	20
tert-Butylbenzene	<10		20	10	ug/L			09/13/12 14:00	20
Tetrachloroethene	<10		20	10	ug/L			09/13/12 14:00	20
Toluene	<10		20	10	ug/L			09/13/12 14:00	20
trans-1,2-Dichloroethene	<10		20	10	ug/L			09/13/12 14:00	20
trans-1,3-Dichloropropene	<10		20	10	ug/L			09/13/12 14:00	20
Trichloroethene	<10		20	10	ug/L			09/13/12 14:00	20
Trichlorofluoromethane	<10		20	10	ug/L			09/13/12 14:00	20
Vinyl chloride	<10		20	10	ug/L			09/13/12 14:00	20
Xylenes, Total	<20		40	20	ug/L			09/13/12 14:00	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 131		09/13/12 14:00	20
4-Bromofluorobenzene (Surr)	93		79 - 120		09/13/12 14:00	20
Dibromofluoromethane	100		74 - 123		09/13/12 14:00	20
Toluene-d8 (Surr)	98		80 - 120		09/13/12 14:00	20

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-161870/1-A
Matrix: Water
Analysis Batch: 161959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
1,2-Dichlorobenzene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
1,3-Dichlorobenzene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
1,4-Dichlorobenzene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,2'-oxybis[1-chloropropane]	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,4,5-Trichlorophenol	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,4,6-Trichlorophenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,4-Dichlorophenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,4-Dimethylphenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,4-Dinitrophenol	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,4-Dinitrotoluene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2,6-Dinitrotoluene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2-Chloronaphthalene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2-Chlorophenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Pyridine	<0.010		0.020	0.010	mg/L		09/06/12 17:30	09/07/12 13:04	1
2-Methylnaphthalene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2-Methylphenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2-Methyl-phenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
2-Nitroaniline	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
2-Nitrophenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
3 & 4 Methylphenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
3,3'-Dichlorobenzidine	<10		20	10	ug/L		09/06/12 17:30	09/07/12 13:04	1
3-Nitroaniline	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
4,6-Dinitro-2-methylphenol	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-161870/1-A

Matrix: Water

Analysis Batch: 161959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161870

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Bromophenyl phenyl ether	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
4-Chloro-3-methylphenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
4-Chloroaniline	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
4-Chlorophenyl phenyl ether	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
4-Nitroaniline	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
4-Nitrophenol	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
Acenaphthene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Acenaphthylene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Anthracene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Benzo[a]anthracene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Benzo[a]pyrene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Benzo[b]fluoranthene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Benzo[g,h,i]perylene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Benzo[k]fluoranthene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Benzoic acid	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
Benzyl alcohol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Bis(2-chloroethoxy)methane	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Bis(2-chloroethyl)ether	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Bis(2-ethylhexyl) phthalate	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Butyl benzyl phthalate	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Carbazole	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Chrysene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Dibenz(a,h)anthracene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Dibenzofuran	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Diethyl phthalate	<10		10	10	ug/L		09/06/12 17:30	09/07/12 13:04	1
Dimethyl phthalate	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Di-n-butyl phthalate	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Di-n-octyl phthalate	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Fluoranthene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Fluorene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Hexachlorobenzene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Hexachloro-1,3-butadiene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Hexachlorobutadiene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Hexachlorocyclopentadiene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Hexachloroethane	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Indeno[1,2,3-cd]pyrene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Isophorone	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Naphthalene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Nitrobenzene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
N-Nitrosodi-n-propylamine	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
N-Nitrosodiphenylamine	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Pentachlorophenol	<25		50	25	ug/L		09/06/12 17:30	09/07/12 13:04	1
Phenanthrene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Phenol	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1
Pyrene	<5.0		10	5.0	ug/L		09/06/12 17:30	09/07/12 13:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	79		50 - 129	09/06/12 17:30	09/07/12 13:04	1
2-Fluorobiphenyl	85		48 - 110	09/06/12 17:30	09/07/12 13:04	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-161870/1-A
Matrix: Water
Analysis Batch: 161959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161870

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	42		20 - 100	09/06/12 17:30	09/07/12 13:04	1
Nitrobenzene-d5	85		41 - 110	09/06/12 17:30	09/07/12 13:04	1
Phenol-d5	31		20 - 100	09/06/12 17:30	09/07/12 13:04	1
Terphenyl-d14	88		44 - 132	09/06/12 17:30	09/07/12 13:04	1

Lab Sample ID: LCS 500-161870/2-A
Matrix: Water
Analysis Batch: 161959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,2,4-Trichlorobenzene	50.0	28.4		ug/L		57	39 - 110
1,2-Dichlorobenzene	50.0	26.2		ug/L		52	36 - 100
1,3-Dichlorobenzene	50.0	24.4		ug/L		49	34 - 100
1,4-Dichlorobenzene	50.0	25.2		ug/L		50	34 - 100
2,2'-oxybis[1-chloropropane]	50.0	29.2		ug/L		58	44 - 110
2,4,5-Trichlorophenol	50.0	39.5	J	ug/L		79	68 - 115
2,4,6-Trichlorophenol	50.0	38.3		ug/L		77	64 - 110
2,4-Dichlorophenol	50.0	37.9		ug/L		76	61 - 110
2,4-Dimethylphenol	50.0	35.3		ug/L		71	53 - 110
2,4-Dinitrophenol	50.0	41.2	J	ug/L		82	34 - 134
2,4-Dinitrotoluene	50.0	37.0		ug/L		74	68 - 121
2,6-Dinitrotoluene	50.0	36.8		ug/L		74	70 - 113
2-Chloronaphthalene	50.0	30.7		ug/L		61	52 - 110
2-Chlorophenol	50.0	32.9		ug/L		66	50 - 110
Pyridine	0.0500	0.0139	J	mg/L		28	10 - 110
2-Methylnaphthalene	50.0	33.8		ug/L		68	49 - 110
2-Methylphenol	50.0	27.0		ug/L		54	47 - 100
2-Methyl-phenol	50.0	27.0		ug/L		54	47 - 100
2-Nitroaniline	50.0	36.7	J	ug/L		73	61 - 131
2-Nitrophenol	50.0	36.3		ug/L		73	60 - 110
3 & 4 Methylphenol	50.0	32.8		ug/L		66	43 - 110
3,3'-Dichlorobenzidine	50.0	43.3		ug/L		87	67 - 113
3-Nitroaniline	50.0	39.7	J	ug/L		79	73 - 111
4,6-Dinitro-2-methylphenol	50.0	41.3	J	ug/L		83	64 - 123
4-Bromophenyl phenyl ether	50.0	40.2		ug/L		80	70 - 114
4-Chloro-3-methylphenol	50.0	37.6		ug/L		75	60 - 112
4-Chloroaniline	50.0	35.2		ug/L		70	54 - 110
4-Chlorophenyl phenyl ether	50.0	32.3		ug/L		65	63 - 110
4-Nitroaniline	50.0	42.7	J	ug/L		85	59 - 128
4-Nitrophenol	50.0	<25		ug/L		36	20 - 100
Acenaphthene	50.0	34.2		ug/L		68	60 - 110
Acenaphthylene	50.0	34.3		ug/L		69	62 - 110
Anthracene	50.0	38.2		ug/L		76	70 - 112
Benzo[a]anthracene	50.0	40.4		ug/L		81	74 - 115
Benzo[a]pyrene	50.0	39.6		ug/L		79	69 - 121
Benzo[b]fluoranthene	50.0	41.6		ug/L		83	66 - 121
Benzo[g,h,i]perylene	50.0	39.4		ug/L		79	70 - 131
Benzo[k]fluoranthene	50.0	34.4		ug/L		69	66 - 126
Benzoic acid	50.0	<25		ug/L		36	10 - 100

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-161870/2-A

Matrix: Water

Analysis Batch: 161959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl alcohol	50.0	27.9		ug/L		56	50 - 110
Bis(2-chloroethoxy)methane	50.0	35.3		ug/L		71	58 - 110
Bis(2-chloroethyl)ether	50.0	32.9		ug/L		66	41 - 110
Bis(2-ethylhexyl) phthalate	50.0	36.5		ug/L		73	73 - 120
Butyl benzyl phthalate	50.0	44.0		ug/L		88	74 - 122
Carbazole	50.0	44.6		ug/L		89	73 - 115
Chrysene	50.0	38.9		ug/L		78	75 - 115
Dibenz(a,h)anthracene	50.0	37.9		ug/L		76	66 - 131
Dibenzofuran	50.0	34.5		ug/L		69	61 - 110
Diethyl phthalate	50.0	38.8		ug/L		78	70 - 115
Dimethyl phthalate	50.0	36.0		ug/L		72	72 - 112
Di-n-butyl phthalate	50.0	40.1		ug/L		80	69 - 123
Di-n-octyl phthalate	50.0	39.1		ug/L		78	65 - 126
Fluoranthene	50.0	43.9		ug/L		88	71 - 122
Fluorene	50.0	40.4		ug/L		81	62 - 112
Hexachlorobenzene	50.0	37.5		ug/L		75	70 - 119
Hexachloro-1,3-butadiene	50.0	25.5		ug/L		51	32 - 110
Hexachlorobutadiene	50.0	25.5		ug/L		51	32 - 110
Hexachlorocyclopentadiene	50.0	17.2		ug/L		34	15 - 110
Hexachloroethane	50.0	24.4		ug/L		49	28 - 100
Indeno[1,2,3-cd]pyrene	50.0	36.6		ug/L		73	70 - 131
Isophorone	50.0	30.6		ug/L		61	54 - 110
Naphthalene	50.0	30.5		ug/L		61	48 - 110
Nitrobenzene	50.0	32.1		ug/L		64	54 - 110
N-Nitrosodi-n-propylamine	50.0	37.2		ug/L		74	54 - 110
N-Nitrosodiphenylamine	50.0	38.4		ug/L		77	72 - 117
Pentachlorophenol	50.0	41.2	J	ug/L		82	42 - 144
Phenanthrene	50.0	39.1		ug/L		78	69 - 116
Phenol	50.0	16.4		ug/L		33	21 - 100
Pyrene	50.0	40.4		ug/L		81	65 - 128

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	94		50 - 129
2-Fluorobiphenyl	79		48 - 110
2-Fluorophenol	40		20 - 100
Nitrobenzene-d5	81		41 - 110
Phenol-d5	31		20 - 100
Terphenyl-d14	94		44 - 132

Lab Sample ID: LB 500-161733/1-C LB

Matrix: Solid

Analysis Batch: 161959

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161870

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
1,2-Dichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
1,3-Dichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
1,4-Dichlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2,2'-oxybis[1-chloropropane]	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-161733/1-C LB

Matrix: Solid

Analysis Batch: 161959

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161870

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,5-Trichlorophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
2,4,6-Trichlorophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2,4-Dichlorophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2,4-Dimethylphenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2,4-Dinitrophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
2,4-Dinitrotoluene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2,6-Dinitrotoluene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2-Chloronaphthalene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2-Chlorophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2-Methylnaphthalene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2-Methylphenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
2-Nitroaniline	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
2-Nitrophenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
3 & 4 Methylphenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
3,3'-Dichlorobenzidine	<100		200	100	ug/L		09/06/12 17:30	09/07/12 14:08	1
3-Nitroaniline	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
4,6-Dinitro-2-methylphenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
4-Bromophenyl phenyl ether	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
4-Chloro-3-methylphenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
4-Chloroaniline	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
4-Chlorophenyl phenyl ether	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
4-Nitroaniline	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
4-Nitrophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
Acenaphthene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Acenaphthylene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Anthracene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Benzo[a]anthracene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Benzo[a]pyrene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Benzo[b]fluoranthene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Benzo[g,h,i]perylene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Benzo[k]fluoranthene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Benzoic acid	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
Benzyl alcohol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Bis(2-chloroethoxy)methane	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Bis(2-chloroethyl)ether	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Bis(2-ethylhexyl) phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Butyl benzyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Carbazole	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Chrysene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Dibenz(a,h)anthracene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Dibenzofuran	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Diethyl phthalate	<100		100	100	ug/L		09/06/12 17:30	09/07/12 14:08	1
Dimethyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Di-n-butyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Di-n-octyl phthalate	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Fluoranthene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Fluorene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Hexachlorobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Hexachlorobutadiene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Hexachlorocyclopentadiene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-161733/1-C LB
Matrix: Solid
Analysis Batch: 161959

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161870

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Indeno[1,2,3-cd]pyrene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Isophorone	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Naphthalene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Nitrobenzene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
N-Nitrosodi-n-propylamine	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
N-Nitrosodiphenylamine	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Pentachlorophenol	<250		500	250	ug/L		09/06/12 17:30	09/07/12 14:08	1
Phenanthrene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Phenol	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1
Pyrene	<50		100	50	ug/L		09/06/12 17:30	09/07/12 14:08	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		50 - 129	09/06/12 17:30	09/07/12 14:08	1
2-Fluorobiphenyl	79		48 - 110	09/06/12 17:30	09/07/12 14:08	1
2-Fluorophenol	41		20 - 100	09/06/12 17:30	09/07/12 14:08	1
Nitrobenzene-d5	80		41 - 110	09/06/12 17:30	09/07/12 14:08	1
Phenol-d5	31		20 - 100	09/06/12 17:30	09/07/12 14:08	1
Terphenyl-d14	87		44 - 132	09/06/12 17:30	09/07/12 14:08	1

Lab Sample ID: LB3 500-161784/1-B LB3
Matrix: Water
Analysis Batch: 161959

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161870

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
2,4,5-Trichlorophenol	<0.25		0.50	0.25	mg/L		09/06/12 17:30	09/07/12 14:29	1
2,4,6-Trichlorophenol	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
2,4-Dinitrotoluene	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
Pyridine	<0.10		0.20	0.10	mg/L		09/06/12 17:30	09/07/12 14:29	1
2-Methyl-phenol	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
3 & 4 Methylphenol	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
Hexachlorobenzene	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
Hexachloro-1,3-butadiene	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
Hexachloroethane	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
Nitrobenzene	<0.050		0.10	0.050	mg/L		09/06/12 17:30	09/07/12 14:29	1
Pentachlorophenol	<0.25		0.50	0.25	mg/L		09/06/12 17:30	09/07/12 14:29	1

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		50 - 129	09/06/12 17:30	09/07/12 14:29	1
2-Fluorobiphenyl	77		48 - 110	09/06/12 17:30	09/07/12 14:29	1
2-Fluorophenol	37		20 - 100	09/06/12 17:30	09/07/12 14:29	1
Nitrobenzene-d5	78		41 - 110	09/06/12 17:30	09/07/12 14:29	1
Phenol-d5	28		20 - 100	09/06/12 17:30	09/07/12 14:29	1
Terphenyl-d14	78		44 - 132	09/06/12 17:30	09/07/12 14:29	1

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-161871/1-A

Matrix: Water

Analysis Batch: 161942

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.000050		0.00010	0.000050	mg/L		09/06/12 17:38	09/07/12 14:55	1
Endrin	<0.000025		0.000050	0.000025	mg/L		09/06/12 17:38	09/07/12 14:55	1
gamma-BHC (Lindane)	<0.000025		0.000050	0.000025	mg/L		09/06/12 17:38	09/07/12 14:55	1
Heptachlor	<0.000025		0.000050	0.000025	mg/L		09/06/12 17:38	09/07/12 14:55	1
Heptachlor epoxide	<0.000025		0.000050	0.000025	mg/L		09/06/12 17:38	09/07/12 14:55	1
Methoxychlor	<0.000050		0.00010	0.000050	mg/L		09/06/12 17:38	09/07/12 14:55	1
Toxaphene	<0.00025		0.00050	0.00025	mg/L		09/06/12 17:38	09/07/12 14:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		30 - 133	09/06/12 17:38	09/07/12 14:55	1
Tetrachloro-m-xylene	72		43 - 120	09/06/12 17:38	09/07/12 14:55	1

Lab Sample ID: LCS 500-161871/2-A

Matrix: Water

Analysis Batch: 161942

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.000100	0.0000966		mg/L		97	80 - 126
gamma-BHC (Lindane)	0.000100	0.0000920		mg/L		92	79 - 111
Heptachlor	0.000100	0.0000817		mg/L		82	61 - 111
Heptachlor epoxide	0.000100	0.000106		mg/L		106	78 - 110
Methoxychlor	0.00100	0.000925		mg/L		92	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	93		30 - 133
Tetrachloro-m-xylene	81		43 - 120

Lab Sample ID: LCS 500-161871/3-A

Matrix: Water

Analysis Batch: 161942

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	0.00950	0.0103		mg/L		109	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	63		30 - 133
Tetrachloro-m-xylene	83		43 - 120

Lab Sample ID: LB 500-161733/1-D LB

Matrix: Solid

Analysis Batch: 161942

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161871

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 15:57	1
Endrin	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 15:57	1
gamma-BHC (Lindane)	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 15:57	1
Heptachlor	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 15:57	1
Heptachlor epoxide	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 15:57	1
Methoxychlor	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 15:57	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 500-161733/1-D LB
Matrix: Solid
Analysis Batch: 161942

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161871

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.025		0.050	0.025	mg/L		09/06/12 17:38	09/07/12 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		30 - 133				09/06/12 17:38	09/07/12 15:57	1
Tetrachloro-m-xylene	86		43 - 120				09/06/12 17:38	09/07/12 15:57	1

Lab Sample ID: LB3 500-161784/1-E LB3
Matrix: Water
Analysis Batch: 161942

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161871

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 16:18	1
Endrin	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:18	1
gamma-BHC (Lindane)	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:18	1
Heptachlor	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:18	1
Heptachlor epoxide	<0.0025		0.0050	0.0025	mg/L		09/06/12 17:38	09/07/12 16:18	1
Methoxychlor	<0.0050		0.010	0.0050	mg/L		09/06/12 17:38	09/07/12 16:18	1
Toxaphene	<0.025		0.050	0.025	mg/L		09/06/12 17:38	09/07/12 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		30 - 133				09/06/12 17:38	09/07/12 16:18	1
Tetrachloro-m-xylene	73		43 - 120				09/06/12 17:38	09/07/12 16:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-162046/1-A
Matrix: Water
Analysis Batch: 162163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.16		0.50	0.16	ug/L		09/07/12 18:13	09/11/12 12:16	1
PCB-1221	<0.24		0.50	0.24	ug/L		09/07/12 18:13	09/11/12 12:16	1
PCB-1232	<0.086		0.50	0.086	ug/L		09/07/12 18:13	09/11/12 12:16	1
PCB-1242	<0.12		0.50	0.12	ug/L		09/07/12 18:13	09/11/12 12:16	1
PCB-1248	<0.10		0.50	0.10	ug/L		09/07/12 18:13	09/11/12 12:16	1
PCB-1254	<0.10		0.50	0.10	ug/L		09/07/12 18:13	09/11/12 12:16	1
PCB-1260	<0.11		0.50	0.11	ug/L		09/07/12 18:13	09/11/12 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		50 - 120				09/07/12 18:13	09/11/12 12:16	1
DCB Decachlorobiphenyl	93		29 - 126				09/07/12 18:13	09/11/12 12:16	1

Lab Sample ID: LCS 500-162046/2-A
Matrix: Water
Analysis Batch: 162163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	5.00	4.35		ug/L		87	64 - 110
PCB-1260	5.00	4.59		ug/L		92	51 - 110

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-162046/2-A
Matrix: Water
Analysis Batch: 162163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162046

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Tetrachloro-m-xylene</i>	77		50 - 120
<i>DCB Decachlorobiphenyl</i>	64		29 - 126

Lab Sample ID: LCSD 500-162046/3-A
Matrix: Water
Analysis Batch: 162163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 162046

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>		<i>RPD</i>	
							<i>Limits</i>	<i>RPD</i>	<i>Limit</i>	<i>Limit</i>
PCB-1016	5.00	4.33		ug/L		87	64 - 110	1	20	
PCB-1260	5.00	4.64		ug/L		93	51 - 110	1	20	

	LCSD	LCSD	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Tetrachloro-m-xylene</i>	81		50 - 120
<i>DCB Decachlorobiphenyl</i>	80		29 - 126

Lab Sample ID: MB 500-162120/1-A
Matrix: Solid
Analysis Batch: 162390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162120

<i>Analyte</i>	<i>MB MB</i>		<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>							
PCB-1016	<5.9		17	5.9	ug/Kg		09/09/12 05:15	09/12/12 11:28	1
PCB-1221	<7.3		17	7.3	ug/Kg		09/09/12 05:15	09/12/12 11:28	1
PCB-1232	<7.3		17	7.3	ug/Kg		09/09/12 05:15	09/12/12 11:28	1
PCB-1242	<5.5		17	5.5	ug/Kg		09/09/12 05:15	09/12/12 11:28	1
PCB-1248	<6.6		17	6.6	ug/Kg		09/09/12 05:15	09/12/12 11:28	1
PCB-1254	<3.6		17	3.6	ug/Kg		09/09/12 05:15	09/12/12 11:28	1
PCB-1260	<8.2		17	8.2	ug/Kg		09/09/12 05:15	09/12/12 11:28	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		09/09/12 05:15	09/12/12 11:28	1

<i>Surrogate</i>	<i>MB MB</i>		<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
<i>Tetrachloro-m-xylene</i>	86		50 - 116	09/09/12 05:15	09/12/12 11:28	1
<i>DCB Decachlorobiphenyl</i>	89		48 - 142	09/09/12 05:15	09/12/12 11:28	1

Lab Sample ID: LCS 500-162120/3-A
Matrix: Solid
Analysis Batch: 162390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162120

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	
							<i>Limits</i>	<i>Limit</i>
PCB-1016	167	149		ug/Kg		89	59 - 110	
PCB-1260	167	168		ug/Kg		101	69 - 120	

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Tetrachloro-m-xylene</i>	93		50 - 116
<i>DCB Decachlorobiphenyl</i>	97		48 - 142

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 500-162120/4-A

Matrix: Solid

Analysis Batch: 162390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 162120

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	167	145		ug/Kg		87	59 - 110	3	30
PCB-1260	167	164		ug/Kg		99	69 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	84		50 - 116
DCB Decachlorobiphenyl	92		48 - 142

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 500-161971/1-A

Matrix: Water

Analysis Batch: 162130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.00050		0.0010	0.00050	mg/L		09/07/12 10:15	09/11/12 11:38	1
Silvex (2,4,5-TP)	<0.00050		0.0010	0.00050	mg/L		09/07/12 10:15	09/11/12 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	101		30 - 129	09/07/12 10:15	09/11/12 11:38	1

Lab Sample ID: LCS 500-161971/2-A

Matrix: Water

Analysis Batch: 162130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.00400	0.00278		mg/L		70	20 - 115
Silvex (2,4,5-TP)	0.00400	0.00270		mg/L		67	32 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	87		30 - 129

Lab Sample ID: LB 500-161733/1-F LB

Matrix: Solid

Analysis Batch: 162130

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161971

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<50		100	50	ug/L		09/07/12 10:15	09/11/12 13:07	1
Silvex (2,4,5-TP)	<50		100	50	ug/L		09/07/12 10:15	09/11/12 13:07	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	70		30 - 129	09/07/12 10:15	09/11/12 13:07	1

Lab Sample ID: LB3 500-161784/1-F LB3

Matrix: Water

Analysis Batch: 162130

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161971

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.050		0.10	0.050	mg/L		09/07/12 10:15	09/11/12 13:29	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LB3 500-161784/1-F LB3
Matrix: Water
Analysis Batch: 162130

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161971

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	<0.050		0.10	0.050	mg/L		09/07/12 10:15	09/11/12 13:29	1

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	82		30 - 129	09/07/12 10:15	09/11/12 13:29	1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-161878/3-A
Matrix: Water
Analysis Batch: 162054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0881		mg/L		88	80 - 120
Barium	0.500	0.490	J	mg/L		98	80 - 120
Cadmium	0.0500	0.0469		mg/L		94	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Copper	0.250	0.244		mg/L		97	80 - 120
Lead	0.100	0.0976		mg/L		98	80 - 120
Nickel	0.500	0.476		mg/L		95	80 - 120
Selenium	0.100	0.0806		mg/L		81	80 - 120
Silver	0.0500	0.0463		mg/L		93	80 - 120
Zinc	0.500	0.460		mg/L		92	80 - 120

Lab Sample ID: LCS 500-161882/3-A
Matrix: Solid
Analysis Batch: 162368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0906		mg/L		91	80 - 120
Barium	0.500	0.477	J	mg/L		95	80 - 120
Cadmium	0.0500	0.0468		mg/L		94	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Copper	0.250	0.242		mg/L		97	80 - 120
Lead	0.100	0.0961		mg/L		96	80 - 120
Nickel	0.500	0.472		mg/L		94	80 - 120
Selenium	0.100	0.0831		mg/L		83	80 - 120
Silver	0.0500	0.0471		mg/L		94	80 - 120
Zinc	0.500	0.464		mg/L		93	80 - 120

Lab Sample ID: LB3 500-161784/1-C LB3
Matrix: Water
Analysis Batch: 162054

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161878

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		09/06/12 18:00	09/08/12 00:44	1
Barium	<0.010		0.50	0.010	mg/L		09/06/12 18:00	09/08/12 00:44	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		09/06/12 18:00	09/08/12 00:44	1
Chromium	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/08/12 00:44	1
Copper	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/08/12 00:44	1
Lead	<0.0050		0.050	0.0050	mg/L		09/06/12 18:00	09/08/12 00:44	1

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB3 500-161784/1-C LB3
Matrix: Water
Analysis Batch: 162054

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161878

Analyte	LB3 LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/08/12 00:44	1
Selenium	<0.010		0.050	0.010	mg/L		09/06/12 18:00	09/08/12 00:44	1
Silver	<0.0050		0.025	0.0050	mg/L		09/06/12 18:00	09/08/12 00:44	1
Zinc	<0.020		0.10	0.020	mg/L		09/06/12 18:00	09/08/12 00:44	1

Lab Sample ID: LB 500-161733/1-E LB
Matrix: Solid
Analysis Batch: 162368

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 161882

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.010		0.050	0.010	mg/L		09/06/12 18:00	09/12/12 00:15	1
Barium	<0.010		0.50	0.010	mg/L		09/06/12 18:00	09/12/12 00:15	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		09/06/12 18:00	09/12/12 00:15	1
Chromium	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/12/12 00:15	1
Copper	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/12/12 00:15	1
Lead	<0.0050		0.050	0.0050	mg/L		09/06/12 18:00	09/12/12 00:15	1
Nickel	<0.010		0.025	0.010	mg/L		09/06/12 18:00	09/12/12 00:15	1
Selenium	<0.010		0.050	0.010	mg/L		09/06/12 18:00	09/12/12 00:15	1
Silver	<0.0050		0.025	0.0050	mg/L		09/06/12 18:00	09/12/12 00:15	1
Zinc	<0.020		0.10	0.020	mg/L		09/06/12 18:00	09/12/12 00:15	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-161851/7-A
Matrix: Solid
Analysis Batch: 161982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161851

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000020		0.00020	0.000020	mg/L		09/06/12 16:00	09/07/12 09:43	1

Lab Sample ID: LCS 500-161851/8-A
Matrix: Solid
Analysis Batch: 161982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: MB 500-161996/7-A
Matrix: Water
Analysis Batch: 162157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161996

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000020		0.00020	0.000020	mg/L		09/07/12 15:00	09/10/12 10:24	1

Lab Sample ID: LCS 500-161996/8-A
Matrix: Water
Analysis Batch: 162157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 500-161733/1-B LB
 Matrix: Solid
 Analysis Batch: 161982

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 161851

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		09/06/12 16:00	09/07/12 09:46	1

Lab Sample ID: 500-49828-2 MS
 Matrix: Solid
 Analysis Batch: 161982

Client Sample ID: Drum Soil
 Prep Type: TCLP
 Prep Batch: 161851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000020		0.00100	0.00104		mg/L		104	50 - 150

Lab Sample ID: 500-49828-2 DU
 Matrix: Solid
 Analysis Batch: 161982

Client Sample ID: Drum Soil
 Prep Type: TCLP
 Prep Batch: 161851

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.000020		<0.000020		mg/L		NC	20

Lab Sample ID: LB3 500-161784/1-G LB3
 Matrix: Water
 Analysis Batch: 162157

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 161996

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000205	J	0.00020	0.000020	mg/L		09/07/12 15:00	09/10/12 10:28	1

Method: 335.2 - Cyanide, Total

Lab Sample ID: MB 500-161809/1-A
 Matrix: Water
 Analysis Batch: 161930

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 161809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0033		0.010	0.0033	mg/L		09/06/12 10:00	09/06/12 16:45	1

Lab Sample ID: LCS 500-161809/2-A
 Matrix: Water
 Analysis Batch: 161930

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 161809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.106		mg/L		106	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-161815/1-A
 Matrix: Solid
 Analysis Batch: 161925

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 161815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		09/06/12 11:01	09/06/12 17:35	1

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-161815/2-A

Matrix: Solid

Analysis Batch: 161925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.29		mg/Kg		106	80 - 120

Lab Sample ID: 500-49828-2 MS

Matrix: Solid

Analysis Batch: 161925

Client Sample ID: Drum Soil

Prep Type: Total/NA

Prep Batch: 161815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	<0.16		1.74	1.87		mg/Kg		108	75 - 125

Lab Sample ID: 500-49828-2 MSD

Matrix: Solid

Analysis Batch: 161925

Client Sample ID: Drum Soil

Prep Type: Total/NA

Prep Batch: 161815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	<0.16		1.93	2.17		mg/Kg		112	75 - 125	15	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-161765/1

Matrix: Water

Analysis Batch: 161765

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			09/06/12 00:14	1

Lab Sample ID: LCS 500-161765/2

Matrix: Water

Analysis Batch: 161765

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	3.40	3.70		mg/L		109	80 - 120

Lab Sample ID: 500-49828-1 MS

Matrix: Ground Water

Analysis Batch: 161765

Client Sample ID: Drum Water

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	2.6		3.40	5.66		mg/L		91	75 - 125

Lab Sample ID: 500-49828-1 MSD

Matrix: Ground Water

Analysis Batch: 161765

Client Sample ID: Drum Water

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	2.6		3.40	5.96		mg/L		99	75 - 125	5	20

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: MB 500-162448/1-A
Matrix: Solid
Analysis Batch: 162590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162448

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.0		25	4.0	mg/Kg		09/12/12 14:15	09/13/12 15:00	1

Lab Sample ID: LCS 500-162448/2-A
Matrix: Solid
Analysis Batch: 162590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	168	170		mg/Kg		101	80 - 120

Lab Sample ID: 500-49828-2 MS
Matrix: Solid
Analysis Batch: 162590

Client Sample ID: Drum Soil
Prep Type: Total/NA
Prep Batch: 162448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	<4.0		164	137		mg/Kg		83	75 - 125

Lab Sample ID: 500-49828-2 MSD
Matrix: Solid
Analysis Batch: 162590

Client Sample ID: Drum Soil
Prep Type: Total/NA
Prep Batch: 162448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<4.0		162	119	F	mg/Kg		74	75 - 125	14	20

Method: 9040B - pH

Lab Sample ID: 500-49828-1 DU
Matrix: Ground Water
Analysis Batch: 161680

Client Sample ID: Drum Water
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.05	HF	7.030		SU		0.3	

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 500-162457/3
Matrix: Water
Analysis Batch: 162457

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Dup	<0.38		1.0	0.38	mg/L			09/12/12 08:26	1

Lab Sample ID: LCS 500-162457/4
Matrix: Water
Analysis Batch: 162457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	10.0	8.64		mg/L		86	80 - 120
TOC Result 2	10.0	8.64		mg/L		86	80 - 120
TOC Dup	10.0	8.64		mg/L		86	80 - 120

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 500-162009/2

Matrix: Solid

Analysis Batch: 162009

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Dup	<25		130	25	mg/Kg			09/07/12 11:02	1

Lab Sample ID: LCS 500-162009/3

Matrix: Solid

Analysis Batch: 162009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Dup	4110	5350		mg/Kg		130	33 - 167

Lab Chronicle

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Water

Lab Sample ID: 500-49828-1

Date Collected: 08/30/12 12:00

Matrix: Ground Water

Date Received: 09/01/12 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			161785	09/06/12 08:30	DB	TAL CHI
TCLP	Analysis	8260B		20	161915	09/07/12 14:18	BDA	TAL CHI
TCLP	Leach	1311			161784	09/06/12 08:29	DB	TAL CHI
TCLP	Prep	3510C			161870	09/06/12 17:30	NMW	TAL CHI
TCLP	Analysis	8270C		50	161959	09/07/12 23:01	DA	TAL CHI
TCLP	Leach	1311	DL		161784	09/06/12 08:29	DB	TAL CHI
TCLP	Prep	3510C	DL		161870	09/06/12 17:30	NMW	TAL CHI
TCLP	Analysis	8270C	DL	200	162318	09/11/12 17:56	GES	TAL CHI
TCLP	Leach	1311			161784	09/06/12 08:29	DB	TAL CHI
TCLP	Prep	3510C			161871	09/06/12 17:38	NMW	TAL CHI
TCLP	Analysis	8081A		1	161942	09/07/12 16:38	PMF	TAL CHI
TCLP	Prep	8151A			161971	09/07/12 10:15	DAK	TAL CHI
TCLP	Analysis	8151A		1	162130	09/11/12 20:35	PMF	TAL CHI
Total/NA	Prep	3510C			162046	09/07/12 18:13	NMW	TAL CHI
Total/NA	Analysis	8082		10	162163	09/11/12 13:56	PG	TAL CHI
TCLP	Leach	1311			161784	09/06/12 08:29	DB	TAL CHI
TCLP	Prep	3010A			161878	09/06/12 18:00	PJ	TAL CHI
TCLP	Analysis	6010B		1	162054	09/08/12 03:11	TDS	TAL CHI
TCLP	Prep	7470A			161996	09/07/12 15:00	BJB	TAL CHI
TCLP	Analysis	7470A		1	162157	09/10/12 10:32	BJB	TAL CHI
Total/NA	Analysis	9040B		1	161680		CLM	TAL CHI
						(Start) 09/01/12 10:25		
						(End) 09/01/12 10:27		
Total/NA	Analysis	9034		1	161765		CLB	TAL CHI
						(Start) 09/06/12 00:26		
						(End) 09/06/12 00:32		
Total/NA	Prep	Distill/CN			161809	09/06/12 10:00	EAT	TAL CHI
Total/NA	Analysis	335.2		1	161930		EAT	TAL CHI
						(Start) 09/06/12 16:55		
						(End) 09/06/12 16:56		
Total/NA	Analysis	1010		1	162151		APW	TAL CHI
						(Start) 09/10/12 12:53		
						(End) 09/10/12 13:27		
Total/NA	Analysis	9060		20	162457	09/12/12 08:59	KD	TAL CHI

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Date Collected: 08/30/12 14:05

Matrix: Solid

Date Received: 09/01/12 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			162329	09/11/12 15:55	DB	TAL CHI
TCLP	Analysis	8260B		20	162547	09/13/12 16:24	DJD	TAL CHI
TCLP	Leach	1311	DL		162329	09/11/12 15:55	DB	TAL CHI
TCLP	Analysis	8260B	DL	200	162829	09/17/12 12:47	LM	TAL CHI
TCLP	Leach	1311			161733	09/05/12 16:31	DB	TAL CHI
TCLP	Prep	3510C			161870	09/06/12 17:30	NMW	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Client Sample ID: Drum Soil

Lab Sample ID: 500-49828-2

Date Collected: 08/30/12 14:05

Matrix: Solid

Date Received: 09/01/12 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	8270C		1	161959	09/07/12 19:28	DA	TAL CHI
TCLP	Leach	1311	DL		161733	09/05/12 16:31	DB	TAL CHI
TCLP	Prep	3510C	DL		161870	09/06/12 17:30	NMW	TAL CHI
TCLP	Analysis	8270C	DL	5	161959	09/07/12 22:18	DA	TAL CHI
TCLP	Leach	1311			161733	09/05/12 16:31	DB	TAL CHI
TCLP	Prep	3510C			161871	09/06/12 17:38	NMW	TAL CHI
TCLP	Analysis	8081A		1	161942	09/07/12 16:59	PMF	TAL CHI
TCLP	Prep	8151A			161971	09/07/12 10:15	DAK	TAL CHI
TCLP	Analysis	8151A		1	162130	09/11/12 20:58	PMF	TAL CHI
Total/NA	Prep	3541			162120	09/09/12 05:15	DAK	TAL CHI
Total/NA	Analysis	8082		1	162390	09/12/12 13:30	PG	TAL CHI
TCLP	Leach	1311			161733	09/05/12 16:31	DB	TAL CHI
TCLP	Prep	7470A			161851	09/06/12 16:00	BJB	TAL CHI
TCLP	Analysis	7470A		1	161982	09/07/12 09:49	BJB	TAL CHI
TCLP	Prep	3010A			161882	09/06/12 18:00	PJ	TAL CHI
TCLP	Analysis	6010B		1	162368	09/12/12 01:38	TDS	TAL CHI
Total/NA	Analysis	Moisture		1	161455	09/01/12 14:54	CMV	TAL CHI
Total/NA	Prep	9010B			161815	09/06/12 11:01	EAT	TAL CHI
Total/NA	Analysis	9014		1	161925		EAT	TAL CHI
						(Start) 09/06/12 17:42		
						(End) 09/06/12 17:42		
Total/NA	Analysis	Lloyd Kahn		1	162009	09/07/12 11:54	KD	TAL CHI
Total/NA	Analysis	9045C		1	162121		APW	TAL CHI
						(Start) 09/08/12 14:21		
						(End) 09/08/12 14:25		
Total/NA	Analysis	1010		1	162151		APW	TAL CHI
						(Start) 09/10/12 13:27		
						(End) 09/10/12 14:02		
Total/NA	Prep	9030B			162448	09/12/12 14:15	CLM	TAL CHI
Total/NA	Analysis	9034		1	162590	09/13/12 15:15	CLM	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Tetra Tech GEO
 Project/Site: Beazer Oak Creek - Wabash Alloys

TestAmerica Job ID: 500-49828-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-12
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) _____ Bill To (optional) _____
 Contact: Mike Noel Contact: _____
 Company: TetraTech 600 Company: _____
 Address: 175 N. Corporate DR Suite 100 Address: _____
 Address: BROOKFIELD, WI 53045 Address: _____
 Phone: (262) 792-1282 Phone: _____
 Fax: (262) 792-1310 Fax: _____
 E-Mail: _____ PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-49828
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 3.4

Client		Client Project #		Preservative		Parameter										Preservative Key		
TetraTech 600				8		8												
Project Name		Lab Project #		Matrix		8										Comments		
Beazer Oak Creek Wabash Allouis				NOCS		8												
Project Location/State		Lab PM		Matrix		8										Comments		
Oak Creek, WI		Ashley A. Weimer		NOCS		8												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SVOCS	Pesticides 8081	Herbicides 8151	Metals/Mercury 6010B/7470A	CORROSIVITY (PH)	Ignitibility (FLASH)	PCBS 8082	TOC 9060 OR SM5310B	REACTIVE SULFIDE	REACTIVE CYANIDE	
1		DRUM WATER	8-30-12	12:00	5	6W	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2		DRUM SOIL	↓	14:05	2	SO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

- Preservative Key**
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Ashley A. Weimer</u> Company: <u>TetraTech 600</u> Date: <u>8/31/12</u> Time: <u>1700</u>	Received By: <u>Shenika</u> Company: <u>TA 600</u> Date: <u>9/1/12</u> Time: <u>905</u>	Lab Courier: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Shipped: <u>Fed-X</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Soil	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments:
 Full TCLP Analysis along with PCBs (8082) and TOC (9060 or SM5310B).
 for reactive sulfide + cyanide, totals are OK if reactive tests are not done anymore

Lab Comments:



Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-49828-1

Login Number: 49828

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



F2: Disposal Manifests

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number W I D 0 4 5 9 5 4 6 4 1	2. Page 1 of 1	3. Emergency Response Phone (877) 918-0067	4. Manifest Tracking Number 000637148 VES			
5. Generator's Name and Mailing Address CONNELL ALUMINUM PROPERTIES 8100 S 5TH AVE OAK CREEK, WI 53154			Generator's Site Address (if different than mailing address) SAME					
Generator's Phone: 412 327-3667								
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N9451 BOUNDARY			U.S. EPA ID Number W I D 0 0 3 9 6 7 1 4 8					
Facility's Phone: 262 255-8855 MENOMONEE FALLS, WI 53061								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (BENZENE), 9, III, RQ (D018)	5	DM	275	G	D018		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS -(- 1) (#328784/CWDTWLIQ) PURGE WATER - 5X55								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name Ashley A. Weimer				Signature Ashley A. Weimer		Month Day Year 10 22 12		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Paul S Voigt				Signature Paul S Voigt		Month Day Year 10 27 12		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator)						U.S. EPA ID Number		
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H141		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name ROBERT L. KANN JR.				Signature Robert L. Kann Jr.		Month Day Year 10 24 12		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number W I D 0 4 5 9 5 4 6 4 1	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000804649 VES		
5. Generator's Name and Mailing Address BEAZER EAST INC. C/O THREE RIV 200 THIRD AVENUE CARNEGIE, PA 15106				Generator's Site Address (if different than mailing address) CONNELL ALUMINUM PROPERTIES 9100 S 5TH AVE OAK CREEK, WI 53154			
Generator's Phone: 412 327-3667				U.S. EPA ID Number W J D 0 8 0 6 3 - 1 3 6 9			
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N9451 BOUNDARY MENOMONEE FALLS, WI 53051				U.S. EPA ID Number W I D 0 0 3 9 6 7 1 4 8			
Facility's Phone: 262 255-6655							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. NA3082 HAZARDOUS WASTE, LIQUID, n.o.s., (BENZENE), 9, III, RQ (D018)	003	DM	1200	P	D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information CWDTWILIQ PURGE WATER ER Service Contracted by VESTE PO # 009381 - 1) ERG:171 W:328784 A:							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name K Ashley Warner				Signature <i>(Signature)</i>		Month Day Year 05 03 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Paul S Voigt				Signature <i>(Signature)</i>		Month Day Year 05 03 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H141		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name William Banks				Signature <i>(Signature)</i>		Month Day Year 05 07 13	

EMERALD PARK LANDFILL, LLC.
 W124 S10629 S. 124th STREET
 MUSKEGO, WI 53150
 4145291360

001300
 BEAZER EAST INC, C/O THREE RIVERS MGT
 MANOR OAK ONE, SUITE 200
 200 THIRD AVE
 CARNEGIE, PA 15106

INVOICE
 INBOUND

SITE	CELL	TICKET #	OPERATOR	
F1		1100237	40821	
TRUCK		CONTAINER	LICENSE	
999				
REFERENCE			IN	OUT
OCT 22 DRUMS			12/31/12 11:11 am	12/31/12 11:11 am

CONTRACT: EPL2012-247		GROSS	0.00 LBS	Scale In			
BOL:		TARE	0.00 LBS	Scale Out			
		NET	0.00 LBS				
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
17.00	EA	EX-37 REMEDIATION WASTE		0.00	\$90.00	\$178.40	\$1,708.40

SERVICE FIRST, SAFETY ALWAYS!

	Tax Total	Total	\$1,708.40
Fuel/Environmental Fee	\$178.40	Paid	\$0.00
		Change	\$0.00
		Check#	
		Recpt #	0

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

FACILITY COPY

EMERALD PARK LANDFILL, LLC.
 W124
 MUSK
 4

Customer Number: 1300

Manifest No.
 1091500

VEOLIA Emerald Park Landfill, LLC.
 Non-Hazardous Special Waste Manifest

Bill to - Beazer East, Inc. C/o Three Rivers Mgt, Inc

* Transporter Name - VEOLIA ES TECHNICAL SOLUTIONS Truck # 247293

Generator Name - Connell Alum Properties, 2100 S 5th Ave, Oak Creek

* Generator Signature - Ashley A. Weimer Date 10/22/12

Description of Waste - CONTAMINATED SOIL DRUMS

Profile Number - EPL2012-247

* Driver Signature - Paul S. [Signature] Date 10/22/12

Landfill Signature - Guillaume - EPL Date 10/22/12

Quantity - 4.75 Ton 17 Drums

Generator Copy-Yellow Transporter Copy-Pink Landfill-White

EMERALD PARK LANDFILL, LLC.
 W124 S10629 S. 124th STREET
 MUSKEGO, WI 53150
 4145291360

001300
 BEAZER EAST INC, C/O THREE RIVERS MGT
 MANOR OAK ONE, SUITE 200
 200 THIRD AVE
 CARNEGIE, PA 15106

INVOICE
 INBOUND

SITE	CELL	TICKET #	OPERATOR	
F1		1113392	TEMPEAB	
TRUCK		CONTAINER	LICENSE	
999				
REFERENCE			IN	OUT
			5/3/13 8:24 am	5/3/13 8:46 am

CONTRACT: EPL2012-247

BOL:

GROSS 31,060.00 LBS Scale In
 TARE 25,240.00 LBS Scale Out
 NET 5,820.00 LBS

QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
10.00	EA	EX-37 REMEDIATION WASTE		0.00	\$90.00	\$159.57	\$1,059.57

SERVICE FIRST, SAFETY ALWAYS!

Fuel/Environmental Fee

Tax Total
 \$159.57

Total \$1,059.57
 Paid \$0.00
 Change \$0.00
 Check#
 Recpt # 0

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: *Paul S. J.*

FACILITY COPY

Customer Number: 1300

Manifest No

VEULLIA Emerald Park Landfill, LLC.
 Non-Hazardous Special Waste Manifest

Bill to - Beazer East, Inc. C/O Three Rivers Mgt, Inc

Transporter Name - _____ Truck # _____

Generator Name - Connell Alum Properties, 9100 S 5th Ave, Oak Creek

Generator Signature - *Paul S. J.* Date 5/3/13

Description of Waste - CONTAMINATED SOIL DRUMS

10 drums

Profile Number - EPL2012-247

Driver Signature - *Paul S. J.* Date 05/03/13

Landfill Signature - *GB* Date 5/3/13

Quantity - 2.91 Ton

Generator Copy-Yellow

Transporter Copy-Pink

Landfill-White