

ANALYTICAL REPORT

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

Laboratory Job ID: 500-166406-1

Client Project/Site: Rock River Sediment Removal, Janesville

For:

EnviroAnalytics Group LLC
1515 Des Peres Rd.
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Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn



Authorized for release by:
7/12/2019 4:38:00 PM

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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: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

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Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-166406-1

Comments

No additional comments.

Receipt

The samples were received on 7/10/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS Semi VOA

Method(s) 8270D: The leachate blank for preparation batch 500-494205 and 500-494469 and analytical batch 500-494577 contained 2-Methylnaphthalene and Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SOIL Sample #3 (500-166406-2). The reagent lot number used was: 190938.

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: SOIL Sample #3 (500-166406-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #1

Lab Sample ID: 500-166406-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6	J	50	2.0	ug/L	1		6020A	ASTM Leach
Chromium	8.5	J	25	5.0	ug/L	1		6020A	ASTM Leach
Lead	22	J	50	2.0	ug/L	1		6020A	ASTM Leach

Client Sample ID: SOIL Sample #3

Lab Sample ID: 500-166406-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	120		40	7.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	31	J	40	5.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	510		40	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	780		40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	750		40	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	810		40	8.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	310		40	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	690		40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	720		40	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	90		40	7.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	2400		40	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	140		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	300		40	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	100		40	6.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1300		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1500		40	7.9	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	78	J	81	9.8	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	140		81	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	17		10	3.2	ug/L	1		8270D	ASTM Leach
Naphthalene	110	B	10	3.0	ug/L	1		8270D	ASTM Leach
2-Methylnaphthalene	1.9	J B	20	1.3	ug/L	1		8270D	ASTM Leach
Arsenic	4.1		1.0	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	240	F1	1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.1	B	0.20	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	23		1.0	0.51	mg/Kg	1	☼	6010B	Total/NA
Lead	480		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.87	J	1.0	0.60	mg/Kg	1	☼	6010B	Total/NA
Silver	1.1		0.51	0.13	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.0	J	50	2.0	ug/L	1		6020A	ASTM Leach
Lead	3.7	J	50	2.0	ug/L	1		6020A	ASTM Leach
Mercury	320		19	6.4	ug/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
D3987-85	ASTM Leaching Procedure	ASTM	TAL CHI

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-166406-1	SOIL Sample #1	Solid	07/09/19 00:00	07/10/19 09:10	
500-166406-2	SOIL Sample #3	Solid	07/09/19 00:00	07/10/19 09:10	

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Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #1

Lab Sample ID: 500-166406-1

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L		07/11/19 17:12	07/12/19 12:59	1
Acenaphthylene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Anthracene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L		07/11/19 17:12	07/12/19 12:59	1
Chrysene	<1.4		5.0	1.4	ug/L		07/11/19 17:12	07/12/19 12:59	1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L		07/11/19 17:12	07/12/19 12:59	1
Fluoranthene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Fluorene	<3.8		10	3.8	ug/L		07/11/19 17:12	07/12/19 12:59	1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L		07/11/19 17:12	07/12/19 12:59	1
Naphthalene	<3.0		10	3.0	ug/L		07/11/19 17:12	07/12/19 12:59	1
Phenanthrene	<3.5		10	3.5	ug/L		07/11/19 17:12	07/12/19 12:59	1
Pyrene	<4.8		10	4.8	ug/L		07/11/19 17:12	07/12/19 12:59	1
1-Methylnaphthalene	<5.0		20	5.0	ug/L		07/11/19 17:12	07/12/19 12:59	1
2-Methylnaphthalene	<1.3		20	1.3	ug/L		07/11/19 17:12	07/12/19 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		36 - 120	07/11/19 17:12	07/12/19 12:59	1
Terphenyl-d14 (Surr)	102		40 - 145	07/11/19 17:12	07/12/19 12:59	1
2-Fluorobiphenyl (Surr)	85		34 - 110	07/11/19 17:12	07/12/19 12:59	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 12:07	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Chromium	8.5	J	25	5.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Lead	22	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 12:07	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:07	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/12/19 08:20	07/12/19 11:32	1

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #3

Lab Sample ID: 500-166406-2

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Percent Solids: 82.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120		40	7.2	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Acenaphthylene	31	J	40	5.3	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Anthracene	510		40	6.7	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Benzo[a]anthracene	780		40	5.4	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Benzo[a]pyrene	750		40	7.7	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Benzo[b]fluoranthene	810		40	8.6	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Benzo[g,h,i]perylene	310		40	13	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Benzo[k]fluoranthene	690		40	12	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Chrysene	720		40	11	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Dibenz(a,h)anthracene	90		40	7.7	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Fluoranthene	2400		40	7.4	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Fluorene	140		40	5.6	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Indeno[1,2,3-cd]pyrene	300		40	10	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Naphthalene	100		40	6.1	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Phenanthrene	1300		40	5.6	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
Pyrene	1500		40	7.9	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
1-Methylnaphthalene	78	J	81	9.8	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1
2-Methylnaphthalene	140		81	7.3	ug/Kg	☼	07/11/19 17:43	07/12/19 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		37 - 147	07/11/19 17:43	07/12/19 13:54	1
Terphenyl-d14 (Surr)	87		42 - 157	07/11/19 17:43	07/12/19 13:54	1
2-Fluorobiphenyl (Surr)	83		43 - 145	07/11/19 17:43	07/12/19 13:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L		07/11/19 17:12	07/12/19 13:23	1
Acenaphthylene	17		10	3.2	ug/L		07/11/19 17:12	07/12/19 13:23	1
Anthracene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 13:23	1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L		07/11/19 17:12	07/12/19 13:23	1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L		07/11/19 17:12	07/12/19 13:23	1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L		07/11/19 17:12	07/12/19 13:23	1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L		07/11/19 17:12	07/12/19 13:23	1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L		07/11/19 17:12	07/12/19 13:23	1
Chrysene	<1.4		5.0	1.4	ug/L		07/11/19 17:12	07/12/19 13:23	1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L		07/11/19 17:12	07/12/19 13:23	1
Fluoranthene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 13:23	1
Fluorene	<3.8		10	3.8	ug/L		07/11/19 17:12	07/12/19 13:23	1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L		07/11/19 17:12	07/12/19 13:23	1
Naphthalene	110	B	10	3.0	ug/L		07/11/19 17:12	07/12/19 13:23	1
Phenanthrene	<3.5		10	3.5	ug/L		07/11/19 17:12	07/12/19 13:23	1
Pyrene	<4.8		10	4.8	ug/L		07/11/19 17:12	07/12/19 13:23	1
1-Methylnaphthalene	<5.0		20	5.0	ug/L		07/11/19 17:12	07/12/19 13:23	1
2-Methylnaphthalene	1.9	J B	20	1.3	ug/L		07/11/19 17:12	07/12/19 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		36 - 120	07/11/19 17:12	07/12/19 13:23	1
Terphenyl-d14 (Surr)	101		40 - 145	07/11/19 17:12	07/12/19 13:23	1
2-Fluorobiphenyl (Surr)	82		34 - 110	07/11/19 17:12	07/12/19 13:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #3

Lab Sample ID: 500-166406-2

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Percent Solids: 82.8

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<70		200	70	ug/Kg	☼	07/11/19 07:42	07/11/19 15:23	10
PCB-1221	<87		200	87	ug/Kg	☼	07/11/19 07:42	07/11/19 15:23	10
PCB-1232	<86		200	86	ug/Kg	☼	07/11/19 07:42	07/11/19 15:23	10
PCB-1242	<65		200	65	ug/Kg	☼	07/11/19 07:42	07/11/19 15:23	10
PCB-1248	<78		200	78	ug/Kg	☼	07/11/19 07:42	07/11/19 15:23	10
PCB-1254	<43		200	43	ug/Kg	☼	07/11/19 07:42	07/11/19 15:23	10
PCB-1260	<97		200	97	ug/Kg	☼	07/11/19 07:42	07/11/19 15:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		49 - 129	07/11/19 07:42	07/11/19 15:23	10
DCB Decachlorobiphenyl	112		37 - 121	07/11/19 07:42	07/11/19 15:23	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		1.0	0.35	mg/Kg	☼	07/10/19 16:02	07/11/19 11:34	1
Barium	240	F1	1.0	0.12	mg/Kg	☼	07/10/19 16:02	07/11/19 11:34	1
Cadmium	1.1	B	0.20	0.037	mg/Kg	☼	07/10/19 16:02	07/11/19 11:34	1
Chromium	23		1.0	0.51	mg/Kg	☼	07/10/19 16:02	07/11/19 11:34	1
Lead	480		0.51	0.24	mg/Kg	☼	07/10/19 16:02	07/11/19 11:34	1
Selenium	0.87	J	1.0	0.60	mg/Kg	☼	07/10/19 16:02	07/11/19 11:34	1
Silver	1.1		0.51	0.13	mg/Kg	☼	07/10/19 16:02	07/11/19 11:34	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 12:14	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Chromium	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Lead	3.7	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 12:14	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:14	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/12/19 08:20	07/12/19 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	320		19	6.4	ug/Kg	☼	07/11/19 14:45	07/12/19 08:40	1

Definitions/Glossary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

GC/MS Semi VOA

Leach Batch: 494205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	D3987-85	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	D3987-85	
LB3 500-494205/1-C	Method Blank	ASTM Leach	Solid	D3987-85	

Prep Batch: 494469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	3510C	494205
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	3510C	494205
LB3 500-494205/1-C	Method Blank	ASTM Leach	Solid	3510C	494205
MB 500-494469/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-494469/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Prep Batch: 494473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	3541	
MB 500-494473/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-494473/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 494554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-494473/1-A	Method Blank	Total/NA	Solid	8270D	494473
LCS 500-494473/2-A	Lab Control Sample	Total/NA	Solid	8270D	494473

Analysis Batch: 494560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	8270D	494473

Analysis Batch: 494577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	8270D	494469
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	8270D	494469
LB3 500-494205/1-C	Method Blank	ASTM Leach	Solid	8270D	494469
MB 500-494469/1-A	Method Blank	Total/NA	Solid	8270D	494469
LCS 500-494469/2-A	Lab Control Sample	Total/NA	Solid	8270D	494469

GC Semi VOA

Prep Batch: 494324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	3541	
MB 500-494324/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-494324/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 494432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	8082A	494324
MB 500-494324/1-A	Method Blank	Total/NA	Solid	8082A	494324
LCS 500-494324/3-A	Lab Control Sample	Total/NA	Solid	8082A	494324

QC Association Summary

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Metals

Leach Batch: 494205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	D3987-85	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	D3987-85	
LB3 500-494205/1-B	Method Blank	ASTM Leach	Solid	D3987-85	
LB3 500-494205/1-D	Method Blank	ASTM Leach	Solid	D3987-85	

Prep Batch: 494263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	3050B	
MB 500-494263/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-494263/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-166406-2 MS	SOIL Sample #3	Total/NA	Solid	3050B	
500-166406-2 MSD	SOIL Sample #3	Total/NA	Solid	3050B	
500-166406-2 DU	SOIL Sample #3	Total/NA	Solid	3050B	

Prep Batch: 494388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	7470A	494205
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	7470A	494205
LB3 500-494205/1-D	Method Blank	ASTM Leach	Solid	7470A	494205
MB 500-494388/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-494388/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 494397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	7471B	
MB 500-494397/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-494397/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 494431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	6010B	494263
MB 500-494263/1-A	Method Blank	Total/NA	Solid	6010B	494263
LCS 500-494263/2-A	Lab Control Sample	Total/NA	Solid	6010B	494263
500-166406-2 MS	SOIL Sample #3	Total/NA	Solid	6010B	494263
500-166406-2 MSD	SOIL Sample #3	Total/NA	Solid	6010B	494263
500-166406-2 DU	SOIL Sample #3	Total/NA	Solid	6010B	494263

Prep Batch: 494443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	3010A	494205
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	3010A	494205
LB3 500-494205/1-B	Method Blank	ASTM Leach	Solid	3010A	494205
LCS 500-494443/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 494610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	7471B	494397
MB 500-494397/12-A	Method Blank	Total/NA	Solid	7471B	494397
LCS 500-494397/13-A	Lab Control Sample	Total/NA	Solid	7471B	494397

QC Association Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Metals

Analysis Batch: 494623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	7470A	494388
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	7470A	494388
LB3 500-494205/1-D	Method Blank	ASTM Leach	Solid	7470A	494388
MB 500-494388/12-A	Method Blank	Total/NA	Solid	7470A	494388
LCS 500-494388/13-A	Lab Control Sample	Total/NA	Solid	7470A	494388

Analysis Batch: 494678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	6020A	494443
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	6020A	494443
LB3 500-494205/1-B	Method Blank	ASTM Leach	Solid	6020A	494443
LCS 500-494443/2-A	Lab Control Sample	Total/NA	Solid	6020A	494443

General Chemistry

Analysis Batch: 494124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	Moisture	

Surrogate Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (37-147)	TPHL (42-157)	FBP (43-145)
500-166406-2	SOIL Sample #3	72	87	83
LCS 500-494473/2-A	Lab Control Sample	88	86	80
MB 500-494473/1-A	Method Blank	80	85	79

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
LCS 500-494469/2-A	Lab Control Sample	75	93	77
MB 500-494469/1-A	Method Blank	74	97	77

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid

Prep Type: ASTM Leach

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
500-166406-1	SOIL Sample #1	81	102	85
500-166406-2	SOIL Sample #3	79	101	82
LB3 500-494205/1-C	Method Blank	78	105	82

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-166406-2	SOIL Sample #3	68	112
LCS 500-494324/3-A	Lab Control Sample	81	87
MB 500-494324/1-A	Method Blank	76	97

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

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

Lab Sample ID: MB 500-494469/1-A
Matrix: Solid
Analysis Batch: 494577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494469

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.36		1.0	0.36	ug/L		07/11/19 17:12	07/12/19 12:35	1
Acenaphthylene	<0.32		1.0	0.32	ug/L		07/11/19 17:12	07/12/19 12:35	1
Anthracene	<0.32		1.0	0.32	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[a]anthracene	<0.044		0.20	0.044	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[a]pyrene	<0.056		0.20	0.056	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[b]fluoranthene	<0.058		0.20	0.058	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[g,h,i]perylene	<0.42		1.0	0.42	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[k]fluoranthene	<0.074		0.20	0.074	ug/L		07/11/19 17:12	07/12/19 12:35	1
Chrysene	<0.14		0.50	0.14	ug/L		07/11/19 17:12	07/12/19 12:35	1
Dibenz(a,h)anthracene	<0.064		0.30	0.064	ug/L		07/11/19 17:12	07/12/19 12:35	1
Fluoranthene	<0.32		1.0	0.32	ug/L		07/11/19 17:12	07/12/19 12:35	1
Fluorene	<0.38		1.0	0.38	ug/L		07/11/19 17:12	07/12/19 12:35	1
Indeno[1,2,3-cd]pyrene	<0.084		0.20	0.084	ug/L		07/11/19 17:12	07/12/19 12:35	1
Naphthalene	<0.30		1.0	0.30	ug/L		07/11/19 17:12	07/12/19 12:35	1
Phenanthrene	<0.35		1.0	0.35	ug/L		07/11/19 17:12	07/12/19 12:35	1
Pyrene	<0.48		1.0	0.48	ug/L		07/11/19 17:12	07/12/19 12:35	1
1-Methylnaphthalene	<0.50		2.0	0.50	ug/L		07/11/19 17:12	07/12/19 12:35	1
2-Methylnaphthalene	<0.13		2.0	0.13	ug/L		07/11/19 17:12	07/12/19 12:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	74		36 - 120	07/11/19 17:12	07/12/19 12:35	1
Terphenyl-d14 (Surr)	97		40 - 145	07/11/19 17:12	07/12/19 12:35	1
2-Fluorobiphenyl (Surr)	77		34 - 110	07/11/19 17:12	07/12/19 12:35	1

Lab Sample ID: LCS 500-494469/2-A
Matrix: Solid
Analysis Batch: 494577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494469

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	40.0	29.3		ug/L		73	46 - 110
Acenaphthylene	40.0	29.7		ug/L		74	47 - 110
Anthracene	40.0	34.2		ug/L		85	67 - 110
Benzo[a]anthracene	40.0	35.5		ug/L		89	70 - 120
Benzo[a]pyrene	40.0	37.1		ug/L		93	70 - 120
Benzo[b]fluoranthene	40.0	35.0		ug/L		87	69 - 123
Benzo[g,h,i]perylene	40.0	37.9		ug/L		95	70 - 120
Benzo[k]fluoranthene	40.0	35.5		ug/L		89	70 - 120
Chrysene	40.0	34.2		ug/L		85	68 - 120
Dibenz(a,h)anthracene	40.0	37.9		ug/L		95	70 - 127
Fluoranthene	40.0	37.1		ug/L		93	68 - 120
Fluorene	40.0	31.4		ug/L		79	53 - 120
Indeno[1,2,3-cd]pyrene	40.0	39.1		ug/L		98	65 - 133
Naphthalene	40.0	24.5		ug/L		61	36 - 110
Phenanthrene	40.0	33.8		ug/L		84	65 - 120
Pyrene	40.0	34.8		ug/L		87	70 - 110
1-Methylnaphthalene	40.0	25.8		ug/L		65	38 - 110
2-Methylnaphthalene	40.0	25.3		ug/L		63	34 - 110

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

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

Lab Sample ID: LCS 500-494469/2-A
Matrix: Solid
Analysis Batch: 494577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494469

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	75		36 - 120
Terphenyl-d14 (Surr)	93		40 - 145
2-Fluorobiphenyl (Surr)	77		34 - 110

Lab Sample ID: MB 500-494473/1-A
Matrix: Solid
Analysis Batch: 494554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494473

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<6.0		33	6.0	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Anthracene	<5.6		33	5.6	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Chrysene	<9.1		33	9.1	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Fluoranthene	<6.2		33	6.2	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Fluorene	<4.7		33	4.7	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Naphthalene	<5.1		33	5.1	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Phenanthrene	<4.6		33	4.6	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
Pyrene	<6.6		33	6.6	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		07/11/19 17:43	07/12/19 13:42	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		07/11/19 17:43	07/12/19 13:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	80		37 - 147	07/11/19 17:43	07/12/19 13:42	1
Terphenyl-d14 (Surr)	85		42 - 157	07/11/19 17:43	07/12/19 13:42	1
2-Fluorobiphenyl (Surr)	79		43 - 145	07/11/19 17:43	07/12/19 13:42	1

Lab Sample ID: LCS 500-494473/2-A
Matrix: Solid
Analysis Batch: 494554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494473

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	1330	1130		ug/Kg		85	65 - 124
Acenaphthylene	1330	1140		ug/Kg		86	68 - 120
Anthracene	1330	1140		ug/Kg		85	70 - 114
Benzo[a]anthracene	1330	1150		ug/Kg		86	67 - 122
Benzo[a]pyrene	1330	1230		ug/Kg		93	65 - 133
Benzo[b]fluoranthene	1330	1130		ug/Kg		85	69 - 129
Benzo[g,h,i]perylene	1330	1110		ug/Kg		83	72 - 131
Benzo[k]fluoranthene	1330	1180		ug/Kg		88	68 - 127
Chrysene	1330	1110		ug/Kg		83	63 - 120
Dibenz(a,h)anthracene	1330	1140		ug/Kg		85	64 - 131

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

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

Lab Sample ID: LCS 500-494473/2-A
Matrix: Solid
Analysis Batch: 494554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	1160		ug/Kg		87	62 - 120
Fluorene	1330	1090		ug/Kg		82	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1160		ug/Kg		87	68 - 130
Naphthalene	1330	1130		ug/Kg		85	63 - 110
Phenanthrene	1330	1080		ug/Kg		81	62 - 120
Pyrene	1330	1120		ug/Kg		84	61 - 128
1-Methylnaphthalene	1330	1090		ug/Kg		82	68 - 111
2-Methylnaphthalene	1330	1070		ug/Kg		80	69 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	88		37 - 147
Terphenyl-d14 (Surr)	86		42 - 157
2-Fluorobiphenyl (Surr)	80		43 - 145

Lab Sample ID: LB3 500-494205/1-C
Matrix: Solid
Analysis Batch: 494577

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 494469

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L		07/11/19 17:12	07/12/19 12:11	1
Acenaphthylene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:11	1
Anthracene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:11	1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L		07/11/19 17:12	07/12/19 12:11	1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L		07/11/19 17:12	07/12/19 12:11	1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L		07/11/19 17:12	07/12/19 12:11	1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L		07/11/19 17:12	07/12/19 12:11	1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L		07/11/19 17:12	07/12/19 12:11	1
Chrysene	<1.4		5.0	1.4	ug/L		07/11/19 17:12	07/12/19 12:11	1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L		07/11/19 17:12	07/12/19 12:11	1
Fluoranthene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:11	1
Fluorene	<3.8		10	3.8	ug/L		07/11/19 17:12	07/12/19 12:11	1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L		07/11/19 17:12	07/12/19 12:11	1
Naphthalene	3.68	J	10	3.0	ug/L		07/11/19 17:12	07/12/19 12:11	1
Phenanthrene	<3.5		10	3.5	ug/L		07/11/19 17:12	07/12/19 12:11	1
Pyrene	<4.8		10	4.8	ug/L		07/11/19 17:12	07/12/19 12:11	1
1-Methylnaphthalene	<5.0		20	5.0	ug/L		07/11/19 17:12	07/12/19 12:11	1
2-Methylnaphthalene	1.54	J	20	1.3	ug/L		07/11/19 17:12	07/12/19 12:11	1

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	78		36 - 120	07/11/19 17:12	07/12/19 12:11	1
Terphenyl-d14 (Surr)	105		40 - 145	07/11/19 17:12	07/12/19 12:11	1
2-Fluorobiphenyl (Surr)	82		34 - 110	07/11/19 17:12	07/12/19 12:11	1

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

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

Lab Sample ID: MB 500-494324/1-A
Matrix: Solid
Analysis Batch: 494432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494324

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1221	<7.3		17	7.3	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1232	<7.3		17	7.3	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1242	<5.5		17	5.5	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1248	<6.6		17	6.6	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1254	<3.6		17	3.6	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1260	<8.2		17	8.2	ug/Kg		07/11/19 07:42	07/11/19 14:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		49 - 129	07/11/19 07:42	07/11/19 14:52	1
DCB Decachlorobiphenyl	97		37 - 121	07/11/19 07:42	07/11/19 14:52	1

Lab Sample ID: LCS 500-494324/3-A
Matrix: Solid
Analysis Batch: 494432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	167	133		ug/Kg		80	57 - 120
PCB-1260	167	134		ug/Kg		80	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	81		49 - 129
DCB Decachlorobiphenyl	87		37 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-494263/1-A
Matrix: Solid
Analysis Batch: 494431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494263

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Barium	<0.11		1.0	0.11	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Cadmium	0.0923	J	0.20	0.036	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Lead	<0.23		0.50	0.23	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Selenium	<0.59		1.0	0.59	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Silver	<0.13		0.50	0.13	mg/Kg		07/10/19 16:02	07/11/19 11:02	1

Lab Sample ID: LCS 500-494263/2-A
Matrix: Solid
Analysis Batch: 494431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	9.27		mg/Kg		93	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Cadmium	5.00	4.63		mg/Kg		93	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

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

Lab Sample ID: LCS 500-494263/2-A
Matrix: Solid
Analysis Batch: 494431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.51		mg/Kg		95	80 - 120
Selenium	10.0	8.71		mg/Kg		87	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120

Lab Sample ID: 500-166406-2 MS
Matrix: Solid
Analysis Batch: 494431

Client Sample ID: SOIL Sample #3
Prep Type: Total/NA
Prep Batch: 494263

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.1		11.9	16.2		mg/Kg	☼	102	75 - 125
Barium	240	F1	237	394	F1	mg/Kg	☼	67	75 - 125
Cadmium	1.1	B	5.93	6.25		mg/Kg	☼	87	75 - 125
Chromium	23		23.7	46.5		mg/Kg	☼	97	75 - 125
Lead	480		11.9	480	4	mg/Kg	☼	-19	75 - 125
Selenium	0.87	J	11.9	10.4		mg/Kg	☼	80	75 - 125
Silver	1.1		5.93	6.66		mg/Kg	☼	94	75 - 125

Lab Sample ID: 500-166406-2 MSD
Matrix: Solid
Analysis Batch: 494431

Client Sample ID: SOIL Sample #3
Prep Type: Total/NA
Prep Batch: 494263

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	4.1		10.8	15.3		mg/Kg	☼	104	75 - 125	6	20
Barium	240	F1	215	408		mg/Kg	☼	80	75 - 125	3	20
Cadmium	1.1	B	5.38	7.24		mg/Kg	☼	115	75 - 125	15	20
Chromium	23		21.5	46.9		mg/Kg	☼	109	75 - 125	1	20
Lead	480		10.8	557	4	mg/Kg	☼	694	75 - 125	15	20
Selenium	0.87	J	10.8	9.00		mg/Kg	☼	76	75 - 125	14	20
Silver	1.1		5.38	6.21		mg/Kg	☼	95	75 - 125	7	20

Lab Sample ID: 500-166406-2 DU
Matrix: Solid
Analysis Batch: 494431

Client Sample ID: SOIL Sample #3
Prep Type: Total/NA
Prep Batch: 494263

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	4.1		5.15	F3	mg/Kg	☼	22	20
Barium	240	F1	175	F3	mg/Kg	☼	30	20
Cadmium	1.1	B	0.897		mg/Kg	☼	16	20
Chromium	23		27.1		mg/Kg	☼	14	20
Lead	480		768	F3	mg/Kg	☼	46	20
Selenium	0.87	J	0.797	J	mg/Kg	☼	8	20
Silver	1.1		1.02		mg/Kg	☼	6	20

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-494443/2-A
Matrix: Solid
Analysis Batch: 494678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	100	96.8		ug/L		97	80 - 120
Barium	500	489	J	ug/L		98	80 - 120
Cadmium	50.0	50.6		ug/L		101	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Lead	100	101		ug/L		101	80 - 120
Selenium	100	96.4		ug/L		96	80 - 120
Silver	50.0	51.5		ug/L		103	80 - 120

Lab Sample ID: LB3 500-494205/1-B
Matrix: Solid
Analysis Batch: 494678

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 494443

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<2.0		50	2.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 11:59	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Chromium	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Lead	<2.0		50	2.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 11:59	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 11:59	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-494388/12-A
Matrix: Solid
Analysis Batch: 494623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494388

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/11/19 10:25	07/12/19 08:34	1

Lab Sample ID: LCS 500-494388/13-A
Matrix: Solid
Analysis Batch: 494623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.00	1.99		ug/L		100	80 - 120

Lab Sample ID: LB3 500-494205/1-D
Matrix: Solid
Analysis Batch: 494623

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 494388

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/11/19 10:25	07/12/19 11:30	1

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-494397/12-A
Matrix: Solid
Analysis Batch: 494610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494397

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.6		17	5.6	ug/Kg		07/11/19 14:45	07/12/19 08:34	1

Lab Sample ID: LCS 500-494397/13-A
Matrix: Solid
Analysis Batch: 494610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494397
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	167	171		ug/Kg		102	80 - 120



Lab Chronicle

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #1

Lab Sample ID: 500-166406-1

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3510C			494469	07/11/19 17:12	ACK	TAL CHI
ASTM Leach	Analysis	8270D		1	494577	07/12/19 12:59	STW	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3010A			494443	07/11/19 14:48	BDE	TAL CHI
ASTM Leach	Analysis	6020A		1	494678	07/12/19 12:07	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	7470A			494388	07/12/19 08:20	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	494623	07/12/19 11:32	MJG	TAL CHI

Client Sample ID: SOIL Sample #3

Lab Sample ID: 500-166406-2

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3510C			494469	07/11/19 17:12	ACK	TAL CHI
ASTM Leach	Analysis	8270D		1	494577	07/12/19 13:23	STW	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3010A			494443	07/11/19 14:48	BDE	TAL CHI
ASTM Leach	Analysis	6020A		1	494678	07/12/19 12:14	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	7470A			494388	07/12/19 08:20	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	494623	07/12/19 11:33	MJG	TAL CHI
Total/NA	Analysis	Moisture		1	494124	07/10/19 09:52	LWN	TAL CHI

Client Sample ID: SOIL Sample #3

Lab Sample ID: 500-166406-2

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			494473	07/11/19 17:43	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	494560	07/12/19 13:54	STW	TAL CHI
Total/NA	Prep	3541			494324	07/11/19 07:42	DX	TAL CHI
Total/NA	Analysis	8082A		10	494432	07/11/19 15:23	BJH	TAL CHI
Total/NA	Prep	3050B			494263	07/10/19 16:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	494431	07/11/19 11:34	JEF	TAL CHI
Total/NA	Prep	7471B			494397	07/11/19 14:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	494610	07/12/19 08:40	MJG	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
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* Accreditation/Certification renewal pending - accreditation/certification considered valid.



TestAmerica Chicago

2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: RU	Lab PM: Knapp, Jim D	Car: 500-166406 COC	COC No: 500-66160-31136.1																						
Client Contact: Mr. Daniel Dunn		Phone:	E-Mail: jim.knapp@testamericainc.com		Page: Page 1 of 1																						
Company: EnviroAnalytics Group LLC		Analysis Requested			Job #: 500-166406																						
Address: 1515 Des Peres Rd. Suite 300		Due Date Requested:	<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>2540D - TSS</td> <td>625 - PAHs</td> <td>608_PCB - LL PCB's</td> <td>1664B - Oil & Grease</td> <td>200.7 - As,Pb,Zn</td> <td>6010B, 7471B, 8082A, 8270D</td> <td>6020A, 7470A, 8082A, 8270D</td> <td>Asstn Leach: PAHs, RCRA</td> <td>Total Number of Containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - TSS	625 - PAHs	608_PCB - LL PCB's	1664B - Oil & Grease	200.7 - As,Pb,Zn	6010B, 7471B, 8082A, 8270D	6020A, 7470A, 8082A, 8270D	Asstn Leach: PAHs, RCRA	Total Number of Containers											
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - TSS				625 - PAHs	608_PCB - LL PCB's	1664B - Oil & Grease	200.7 - As,Pb,Zn	6010B, 7471B, 8082A, 8270D	6020A, 7470A, 8082A, 8270D	Asstn Leach: PAHs, RCRA	Total Number of Containers														
City: Saint Louis		TAT Requested (days): 3 days																									
State, Zip: MO, 63131		PO #: 7741																									
Phone: 314-835-2814(Tel)		WO #:																									
Email: ddunn@enviroanalyticsgroup.com		Project #: 50014801	Preservation Codes:																								
Project Name: Rock River Sediment Removal, Janesville		SSOW#:	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)																								
Site:		Other:																									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Special Instructions/Note:																				
Soil Sample # 1		7/9/19		C	Soil																						
Soil Sample # 3		7/9/19		C	Soil																						
					Water																						
					Water																						
					Water																						
					Solid																						
					Solid																						
					Solid																						
					Solid																						
					Solid																						
					Solid																						
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																									
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: 3.8																									
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:																							
Relinquished by: <i>Paula Henderson</i>		Date/Time:	Company:	Received by: <i>[Signature]</i>	Date/Time: 0910																						
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:																						
Relinquished by:		Date/Time:	Company:	Received by: <i>[Signature]</i>	Date/Time: 7-10-19 0910																						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) and Other Remarks:		3.8																							

ORIGIN ID:JVLA (636) 577-5056
RILEY UNDERWOOD
1000 INDUSTRIAL AVE
JANESVILLE, WI 53546
UNITED STATES US

SHIP DATE: 09JUL19
ACTWGT: 21.10 LB
CAD: 006994300/93FE2002
DIMS: 19x12x17 IN
BILL THIRD PARTY

Part # 166297-2002 11/2/18

TO **EUROFINS TEST AMERICA, CHICAGO**

2417 BOND ST



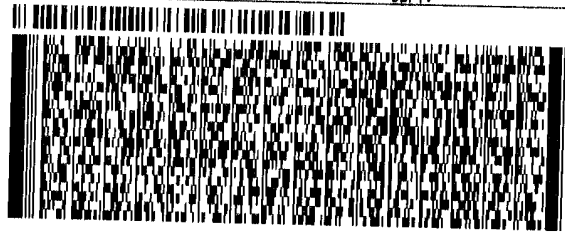
UNIVERSITY PARK IL 60484

500-166406 Waybill

(999) 999-9999
INVT
PDI

REF:

DEPT:



FedEx
Express



AN101010610181F

TRK# 7883 6882 0050
0201

WED - 10 JUL 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-166406-1

Login Number: 166406

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	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	3.8
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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
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	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

