

ANALYTICAL REPORT

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

Laboratory Job ID: 500-165974-1

Client Project/Site: Rock River Sediment Removal, Janesville

For:

EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn



Authorized for release by:
7/8/2019 11:21:06 AM

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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: 500-165974-1

Job ID: 500-165974-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-165974-1

Comments

No additional comments.

Receipt

The samples were received on 6/29/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS Semi VOA

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: Geo Bag 1 (500-165974-5). 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.

GC Semi VOA

Method(s) 608: The continuing calibration verification (CCV) associated with batch 283930 recovered above the upper control limit for 1016 and surrogate TCMX. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: Geo Bag 1 (500-165974-5). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: Geo Bag 1 (500-165974-5). The reagent lot number used was: 190938.

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

Metals

Method(s) 1631E: Reanalysis confirms the field blank result above the requested reporting limit: Field Blank (500-165974-2).

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

General Chemistry

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

Organic Prep

Method(s) 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 180-283891.

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

Detection Summary

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

Job ID: 500-165974-1

Client Sample ID: Sample 4

Lab Sample ID: 500-165974-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Total Mercury	0.92	B	0.50	0.14	ng/L	1		1631E	Total/NA
Zinc	34	B	10	3.6	ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	4.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 500-165974-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Total Mercury	0.77	B	0.50	0.14	ng/L	1		1631E	Total/NA

Client Sample ID: BF2

Lab Sample ID: 500-165974-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Total Mercury	25	B	2.5	0.70	ng/L	5		1631E	Total/NA

Client Sample ID: Tank 3 Post Cleaning

Lab Sample ID: 500-165974-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Total Mercury	35	B	2.5	0.70	ng/L	5		1631E	Total/NA

Client Sample ID: Geo Bag 1

Lab Sample ID: 500-165974-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	140	J	370	68	ug/Kg	5	*	8270D	Total/NA
Anthracene	310	J	370	63	ug/Kg	5	*	8270D	Total/NA
Benzo[a]anthracene	650		370	51	ug/Kg	5	*	8270D	Total/NA
Benzo[a]pyrene	670		370	73	ug/Kg	5	*	8270D	Total/NA
Benzo[b]fluoranthene	770		370	81	ug/Kg	5	*	8270D	Total/NA
Benzo[g,h,i]perylene	140	J	370	120	ug/Kg	5	*	8270D	Total/NA
Benzo[k]fluoranthene	630		370	110	ug/Kg	5	*	8270D	Total/NA
Chrysene	890		370	100	ug/Kg	5	*	8270D	Total/NA
Fluoranthene	1900		370	70	ug/Kg	5	*	8270D	Total/NA
Fluorene	160	J	370	53	ug/Kg	5	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	290	J	370	97	ug/Kg	5	*	8270D	Total/NA
Naphthalene	190	J	370	58	ug/Kg	5	*	8270D	Total/NA
Phenanthrene	1200		370	52	ug/Kg	5	*	8270D	Total/NA
Pyrene	1500		370	75	ug/Kg	5	*	8270D	Total/NA
1-Methylnaphthalene	290	J	760	92	ug/Kg	5	*	8270D	Total/NA
2-Methylnaphthalene	340	J	760	69	ug/Kg	5	*	8270D	Total/NA
Arsenic	4.6		2.3	0.80	mg/Kg	1	*	6010B	Total/NA
Barium	340		2.3	0.27	mg/Kg	1	*	6010B	Total/NA
Cadmium	1.5	B	0.47	0.084	mg/Kg	1	*	6010B	Total/NA
Chromium	46		2.3	1.2	mg/Kg	1	*	6010B	Total/NA
Lead	300		1.2	0.54	mg/Kg	1	*	6010B	Total/NA
Selenium	2.5		2.3	1.4	mg/Kg	1	*	6010B	Total/NA
Silver	2.2		1.2	0.30	mg/Kg	1	*	6010B	Total/NA
Mercury	5500		180	61	ug/Kg	5	*	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

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

Job ID: 500-165974-1

Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
EPA 608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL PIT
1631E	Mercury, Low Level (CVAFS)	EPA	TAL CAN
200.7 Rev 4.4	Metals (ICP)	EPA	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
1631E	Preparation, Mercury, Low Level	EPA	TAL CAN
200.7	Preparation, Total Recoverable Metals	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL PIT
625	Liquid-Liquid Extraction	40CFR136A	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

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

Job ID: 500-165974-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-165974-1	Sample 4	Water	06/28/19 00:00	06/29/19 09:40	
500-165974-2	Field Blank	Water	06/28/19 00:00	06/29/19 09:40	
500-165974-3	BF2	Water	06/28/19 00:00	06/29/19 09:40	
500-165974-4	Tank 3 Post Cleaning	Water	06/28/19 00:00	06/29/19 09:40	
500-165974-5	Geo Bag 1	Solid	06/28/19 00:00	06/29/19 09:40	

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Client Sample Results

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

Job ID: 500-165974-1

Client Sample ID: Sample 4

Lab Sample ID: 500-165974-1

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.15		0.83	0.15	ug/L		07/02/19 16:46	07/03/19 12:19	1
Benzo[a]pyrene	<0.063		0.83	0.063	ug/L		07/02/19 16:46	07/03/19 12:19	1
Fluoranthene	<0.17		0.83	0.17	ug/L		07/02/19 16:46	07/03/19 12:19	1
Fluorene	<0.14		0.83	0.14	ug/L		07/02/19 16:46	07/03/19 12:19	1
Naphthalene	<0.13		0.83	0.13	ug/L		07/02/19 16:46	07/03/19 12:19	1
Phenanthrene	<0.17		0.83	0.17	ug/L		07/02/19 16:46	07/03/19 12:19	1
Pyrene	<0.19		0.83	0.19	ug/L		07/02/19 16:46	07/03/19 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	64		36 - 120	07/02/19 16:46	07/03/19 12:19	1
Terphenyl-d14	102		40 - 145	07/02/19 16:46	07/03/19 12:19	1
2-Fluorobiphenyl	54		34 - 110	07/02/19 16:46	07/03/19 12:19	1

Method: EPA 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.6		9.6	4.6	ng/L		07/03/19 09:30	07/04/19 13:15	1
PCB-1221	<5.5		9.6	5.5	ng/L		07/03/19 09:30	07/04/19 13:15	1
PCB-1232	<5.0		9.6	5.0	ng/L		07/03/19 09:30	07/04/19 13:15	1
PCB-1242	<8.8		9.6	8.8	ng/L		07/03/19 09:30	07/04/19 13:15	1
PCB-1248	<2.9		9.6	2.9	ng/L		07/03/19 09:30	07/04/19 13:15	1
PCB-1254	<9.2		9.6	9.2	ng/L		07/03/19 09:30	07/04/19 13:15	1
PCB-1260	<3.8		9.6	3.8	ng/L		07/03/19 09:30	07/04/19 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	82		38 - 146	07/03/19 09:30	07/04/19 13:15	1
DCB Decachlorobiphenyl (Surr)	93		42 - 150	07/03/19 09:30	07/04/19 13:15	1

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	0.92	B	0.50	0.14	ng/L		07/02/19 14:00	07/03/19 09:55	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<1.3		2.5	1.3	ug/L		07/01/19 07:34	07/01/19 15:53	1
Arsenic	<2.1		5.0	2.1	ug/L		07/01/19 07:34	07/01/19 15:53	1
Zinc	34	B	10	3.6	ug/L		07/01/19 07:34	07/01/19 15:53	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.0	J	5.0	1.9	mg/L			07/03/19 05:16	1

Client Sample Results

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

Job ID: 500-165974-1

Client Sample ID: Field Blank

Lab Sample ID: 500-165974-2

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	0.77	B	0.50	0.14	ng/L		07/02/19 14:00	07/03/19 09:59	1

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Client Sample Results

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

Job ID: 500-165974-1

Client Sample ID: BF2

Lab Sample ID: 500-165974-3

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	25	B	2.5	0.70	ng/L		07/02/19 14:00	07/03/19 10:03	5

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Client Sample Results

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

Job ID: 500-165974-1

Client Sample ID: Tank 3 Post Cleaning

Lab Sample ID: 500-165974-4

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	35	B	2.5	0.70	ng/L		07/02/19 14:00	07/03/19 10:06	5

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Client Sample Results

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

Job ID: 500-165974-1

Client Sample ID: Geo Bag 1

Lab Sample ID: 500-165974-5

Date Collected: 06/28/19 00:00

Matrix: Solid

Date Received: 06/29/19 09:40

Percent Solids: 42.3

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	370	68	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Acenaphthylene	<50		370	50	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Anthracene	310	J	370	63	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Benzo[a]anthracene	650		370	51	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Benzo[a]pyrene	670		370	73	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Benzo[b]fluoranthene	770		370	81	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Benzo[g,h,i]perylene	140	J	370	120	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Benzo[k]fluoranthene	630		370	110	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Chrysene	890		370	100	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Dibenz(a,h)anthracene	<73		370	73	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Fluoranthene	1900		370	70	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Fluorene	160	J	370	53	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Indeno[1,2,3-cd]pyrene	290	J	370	97	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Naphthalene	190	J	370	58	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Phenanthrene	1200		370	52	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Pyrene	1500		370	75	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
1-Methylnaphthalene	290	J	760	92	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
2-Methylnaphthalene	340	J	760	69	ug/Kg	☼	07/01/19 07:56	07/01/19 21:21	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	44		37 - 147				07/01/19 07:56	07/01/19 21:21	5
Terphenyl-d14 (Surr)	87		42 - 157				07/01/19 07:56	07/01/19 21:21	5
2-Fluorobiphenyl (Surr)	68		43 - 145				07/01/19 07:56	07/01/19 21:21	5

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<68		190	68	ug/Kg	☼	07/02/19 16:49	07/03/19 12:59	5
PCB-1221	<84		190	84	ug/Kg	☼	07/02/19 16:49	07/03/19 12:59	5
PCB-1232	<83		190	83	ug/Kg	☼	07/02/19 16:49	07/03/19 12:59	5
PCB-1242	<63		190	63	ug/Kg	☼	07/02/19 16:49	07/03/19 12:59	5
PCB-1248	<75		190	75	ug/Kg	☼	07/02/19 16:49	07/03/19 12:59	5
PCB-1254	<41		190	41	ug/Kg	☼	07/02/19 16:49	07/03/19 12:59	5
PCB-1260	<94		190	94	ug/Kg	☼	07/02/19 16:49	07/03/19 12:59	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		49 - 129				07/02/19 16:49	07/03/19 12:59	5
DCB Decachlorobiphenyl	121		37 - 121				07/02/19 16:49	07/03/19 12:59	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		2.3	0.80	mg/Kg	☼	07/02/19 07:46	07/02/19 20:21	1
Barium	340		2.3	0.27	mg/Kg	☼	07/02/19 07:46	07/02/19 20:21	1
Cadmium	1.5	B	0.47	0.084	mg/Kg	☼	07/02/19 07:46	07/02/19 20:21	1
Chromium	46		2.3	1.2	mg/Kg	☼	07/02/19 07:46	07/02/19 20:21	1
Lead	300		1.2	0.54	mg/Kg	☼	07/02/19 07:46	07/02/19 20:21	1
Selenium	2.5		2.3	1.4	mg/Kg	☼	07/02/19 07:46	07/02/19 20:21	1
Silver	2.2		1.2	0.30	mg/Kg	☼	07/02/19 07:46	07/02/19 20:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5500		180	61	ug/Kg	☼	07/02/19 14:25	07/03/19 11:26	5

Eurolins TestAmerica, Chicago

Definitions/Glossary

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

Job ID: 500-165974-1

Qualifiers

GC/MS Semi 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.

Metals

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.

General Chemistry

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.

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: 500-165974-1

GC/MS Semi VOA

Prep Batch: 492818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	3541	
MB 500-492818/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-492818/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 492899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-492818/1-A	Method Blank	Total/NA	Solid	8270D	492818
LCS 500-492818/2-A	Lab Control Sample	Total/NA	Solid	8270D	492818

Analysis Batch: 492907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	8270D	492818

Prep Batch: 493139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total/NA	Water	625	
MB 500-493139/1-A	Method Blank	Total/NA	Water	625	
LCS 500-493139/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 500-493139/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 493223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total/NA	Water	625	493139
MB 500-493139/1-A	Method Blank	Total/NA	Water	625	493139
LCS 500-493139/2-A	Lab Control Sample	Total/NA	Water	625	493139
LCSD 500-493139/3-A	Lab Control Sample Dup	Total/NA	Water	625	493139

GC Semi VOA

Prep Batch: 283891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total/NA	Water	608	
MB 180-283891/1-A	Method Blank	Total/NA	Water	608	
LCS 180-283891/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 180-283891/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 283930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total/NA	Water	EPA 608	283891
MB 180-283891/1-A	Method Blank	Total/NA	Water	EPA 608	283891
LCS 180-283891/4-A	Lab Control Sample	Total/NA	Water	EPA 608	283891
LCSD 180-283891/5-A	Lab Control Sample Dup	Total/NA	Water	EPA 608	283891

Prep Batch: 493141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	3541	
MB 500-493141/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-493141/3-A	Lab Control Sample	Total/NA	Solid	3541	

QC Association Summary

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

Job ID: 500-165974-1

GC Semi VOA

Analysis Batch: 493278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	8082A	493141
MB 500-493141/1-A	Method Blank	Total/NA	Solid	8082A	493141
LCS 500-493141/3-A	Lab Control Sample	Total/NA	Solid	8082A	493141

Metals

Prep Batch: 389432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total/NA	Water	1631E	
500-165974-2	Field Blank	Total/NA	Water	1631E	
500-165974-3	BF2	Total/NA	Water	1631E	
500-165974-4	Tank 3 Post Cleaning	Total/NA	Water	1631E	
MB 240-389432/1-A	Method Blank	Total/NA	Water	1631E	
LCS 240-389432/2-A	Lab Control Sample	Total/NA	Water	1631E	

Analysis Batch: 389716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total/NA	Water	1631E	389432
500-165974-2	Field Blank	Total/NA	Water	1631E	389432
500-165974-3	BF2	Total/NA	Water	1631E	389432
500-165974-4	Tank 3 Post Cleaning	Total/NA	Water	1631E	389432
MB 240-389432/1-A	Method Blank	Total/NA	Water	1631E	389432
LCS 240-389432/2-A	Lab Control Sample	Total/NA	Water	1631E	389432

Prep Batch: 492803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total Recoverable	Water	200.7	
MB 500-492803/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-492803/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 492882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	3050B	
MB 500-492882/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-492882/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 493001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total Recoverable	Water	200.7 Rev 4.4	492803
MB 500-492803/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	492803
LCS 500-492803/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	492803

Prep Batch: 493064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	7471B	
MB 500-493064/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-493064/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 493192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	6010B	492882

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QC Association Summary

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

Job ID: 500-165974-1

Metals (Continued)

Analysis Batch: 493192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-492882/1-A	Method Blank	Total/NA	Solid	6010B	492882
LCS 500-492882/2-A	Lab Control Sample	Total/NA	Solid	6010B	492882

Analysis Batch: 493285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	7471B	493064
MB 500-493064/12-A	Method Blank	Total/NA	Solid	7471B	493064
LCS 500-493064/13-A	Lab Control Sample	Total/NA	Solid	7471B	493064

General Chemistry

Analysis Batch: 492878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-5	Geo Bag 1	Total/NA	Solid	Moisture	

Analysis Batch: 493193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165974-1	Sample 4	Total/NA	Water	SM 2540D	
MB 500-493193/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-493193/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Surrogate Summary

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

Job ID: 500-165974-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

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)
500-165974-1	Sample 4	64	102	54
LCS 500-493139/2-A	Lab Control Sample	76	95	64
LCSD 500-493139/3-A	Lab Control Sample Dup	67	89	62
MB 500-493139/1-A	Method Blank	63	86	55

Surrogate Legend

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

FBP = 2-Fluorobiphenyl

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)
500-165974-5	Geo Bag 1	44	87	68
LCS 500-492818/2-A	Lab Control Sample	102	98	92
MB 500-492818/1-A	Method Blank	96	101	91

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)
500-165974-5	Geo Bag 1	110	121
LCS 500-493141/3-A	Lab Control Sample	76	103
MB 500-493141/1-A	Method Blank	75	100

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: EPA 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (38-146)	TCX2 (38-146)	DCB1 (42-150)	DCB2 (42-150)
500-165974-1	Sample 4	57	82	91	93
LCS 180-283891/4-A	Lab Control Sample	77	99	100	99
LCSD 180-283891/5-A	Lab Control Sample Dup	74	99	99	100
MB 180-283891/1-A	Method Blank	73	96	97	99

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

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QC Sample Results

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

Job ID: 500-165974-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-493139/1-A
Matrix: Water
Analysis Batch: 493223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 493139

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Anthracene	<0.15		0.80	0.15	ug/L		07/02/19 16:46	07/03/19 11:21	1
Benzo[a]pyrene	<0.061		0.80	0.061	ug/L		07/02/19 16:46	07/03/19 11:21	1
Fluoranthene	<0.16		0.80	0.16	ug/L		07/02/19 16:46	07/03/19 11:21	1
Fluorene	<0.13		0.80	0.13	ug/L		07/02/19 16:46	07/03/19 11:21	1
Naphthalene	<0.12		0.80	0.12	ug/L		07/02/19 16:46	07/03/19 11:21	1
Phenanthrene	<0.17		0.80	0.17	ug/L		07/02/19 16:46	07/03/19 11:21	1
Pyrene	<0.18		0.80	0.18	ug/L		07/02/19 16:46	07/03/19 11:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	63		36 - 120	07/02/19 16:46	07/03/19 11:21	1
Terphenyl-d14	86		40 - 145	07/02/19 16:46	07/03/19 11:21	1
2-Fluorobiphenyl	55		34 - 110	07/02/19 16:46	07/03/19 11:21	1

Lab Sample ID: LCS 500-493139/2-A
Matrix: Water
Analysis Batch: 493223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 493139

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Anthracene	32.0	25.8		ug/L		81	27 - 133
Benzo[a]pyrene	32.0	30.8		ug/L		96	17 - 163
Fluoranthene	32.0	27.8		ug/L		87	26 - 137
Fluorene	32.0	20.2		ug/L		63	59 - 121
Naphthalene	32.0	18.0		ug/L		56	21 - 133
Phenanthrene	32.0	23.9		ug/L		75	54 - 120
Pyrene	32.0	28.5		ug/L		89	52 - 115

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	76		36 - 120
Terphenyl-d14	95		40 - 145
2-Fluorobiphenyl	64		34 - 110

Lab Sample ID: LCSD 500-493139/3-A
Matrix: Water
Analysis Batch: 493223

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 493139

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Anthracene	32.0	24.1		ug/L		75	27 - 133	7	20
Benzo[a]pyrene	32.0	29.9		ug/L		93	17 - 163	3	20
Fluoranthene	32.0	26.1		ug/L		82	26 - 137	6	20
Fluorene	32.0	19.2		ug/L		60	59 - 121	5	20
Naphthalene	32.0	15.5		ug/L		48	21 - 133	15	20
Phenanthrene	32.0	22.5		ug/L		70	54 - 120	6	20
Pyrene	32.0	27.0		ug/L		84	52 - 115	6	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	67		36 - 120
Terphenyl-d14	89		40 - 145

QC Sample Results

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

Job ID: 500-165974-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-493139/3-A
Matrix: Water
Analysis Batch: 493223

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 493139

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	62		34 - 110

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

Lab Sample ID: MB 500-492818/1-A
Matrix: Solid
Analysis Batch: 492899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 492818

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Anthracene	<5.6		33	5.6	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Chrysene	<9.1		33	9.1	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Fluoranthene	<6.2		33	6.2	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Fluorene	<4.7		33	4.7	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Naphthalene	<5.1		33	5.1	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Phenanthrene	<4.6		33	4.6	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
Pyrene	<6.6		33	6.6	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		07/01/19 07:56	07/01/19 16:49	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		07/01/19 07:56	07/01/19 16:49	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	96		37 - 147	07/01/19 07:56	07/01/19 16:49	1
Terphenyl-d14 (Surr)	101		42 - 157	07/01/19 07:56	07/01/19 16:49	1
2-Fluorobiphenyl (Surr)	91		43 - 145	07/01/19 07:56	07/01/19 16:49	1

Lab Sample ID: LCS 500-492818/2-A
Matrix: Solid
Analysis Batch: 492899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1330	1210		ug/Kg		91	65 - 124
Acenaphthylene	1330	1220		ug/Kg		91	68 - 120
Anthracene	1330	1210		ug/Kg		91	70 - 114
Benzo[a]anthracene	1330	1260		ug/Kg		94	67 - 122
Benzo[a]pyrene	1330	1320		ug/Kg		99	65 - 133
Benzo[b]fluoranthene	1330	1290		ug/Kg		97	69 - 129
Benzo[g,h,i]perylene	1330	1320		ug/Kg		99	72 - 131
Benzo[k]fluoranthene	1330	1290		ug/Kg		96	68 - 127
Chrysene	1330	1220		ug/Kg		92	63 - 120
Dibenz(a,h)anthracene	1330	1330		ug/Kg		100	64 - 131

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QC Sample Results

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

Job ID: 500-165974-1

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

Lab Sample ID: LCS 500-492818/2-A
Matrix: Solid
Analysis Batch: 492899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Fluoranthene	1330	1260		ug/Kg		95	62 - 120	
Fluorene	1330	1210		ug/Kg		91	62 - 120	
Indeno[1,2,3-cd]pyrene	1330	1330		ug/Kg		100	68 - 130	
Naphthalene	1330	1190		ug/Kg		90	63 - 110	
Phenanthrene	1330	1190		ug/Kg		89	62 - 120	
Pyrene	1330	1220		ug/Kg		92	61 - 128	
1-Methylnaphthalene	1330	1210		ug/Kg		90	68 - 111	
2-Methylnaphthalene	1330	1210		ug/Kg		91	69 - 112	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	102		37 - 147
Terphenyl-d14 (Surr)	98		42 - 157
2-Fluorobiphenyl (Surr)	92		43 - 145

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

Lab Sample ID: MB 500-493141/1-A
Matrix: Solid
Analysis Batch: 493278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 493141

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<5.9		17	5.9	ug/Kg		07/02/19 16:49	07/03/19 12:28	1
PCB-1221	<7.3		17	7.3	ug/Kg		07/02/19 16:49	07/03/19 12:28	1
PCB-1232	<7.3		17	7.3	ug/Kg		07/02/19 16:49	07/03/19 12:28	1
PCB-1242	<5.5		17	5.5	ug/Kg		07/02/19 16:49	07/03/19 12:28	1
PCB-1248	<6.6		17	6.6	ug/Kg		07/02/19 16:49	07/03/19 12:28	1
PCB-1254	<3.6		17	3.6	ug/Kg		07/02/19 16:49	07/03/19 12:28	1
PCB-1260	<8.2		17	8.2	ug/Kg		07/02/19 16:49	07/03/19 12:28	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	75		49 - 129	07/02/19 16:49	07/03/19 12:28	1
DCB Decachlorobiphenyl	100		37 - 121	07/02/19 16:49	07/03/19 12:28	1

Lab Sample ID: LCS 500-493141/3-A
Matrix: Solid
Analysis Batch: 493278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 493141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
PCB-1016	167	160		ug/Kg		96	57 - 120	
PCB-1260	167	167		ug/Kg		100	61 - 125	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	76		49 - 129
DCB Decachlorobiphenyl	103		37 - 121

QC Sample Results

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

Job ID: 500-165974-1

Method: EPA 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-283891/1-A
Matrix: Water
Analysis Batch: 283930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283891

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<4.8		10	4.8	ng/L		07/03/19 09:30	07/04/19 09:30	1
PCB-1221	<5.7		10	5.7	ng/L		07/03/19 09:30	07/04/19 09:30	1
PCB-1232	<5.2		10	5.2	ng/L		07/03/19 09:30	07/04/19 09:30	1
PCB-1242	<9.1		10	9.1	ng/L		07/03/19 09:30	07/04/19 09:30	1
PCB-1248	<3.0		10	3.0	ng/L		07/03/19 09:30	07/04/19 09:30	1
PCB-1254	<9.5		10	9.5	ng/L		07/03/19 09:30	07/04/19 09:30	1
PCB-1260	<3.9		10	3.9	ng/L		07/03/19 09:30	07/04/19 09:30	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	96		38 - 146	07/03/19 09:30	07/04/19 09:30	1
DCB Decachlorobiphenyl (Surr)	99		42 - 150	07/03/19 09:30	07/04/19 09:30	1

Lab Sample ID: LCS 180-283891/4-A
Matrix: Water
Analysis Batch: 283930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 283891

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	1000	958		ng/L		96	50 - 140
PCB-1260	1000	848		ng/L		85	10 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	99		38 - 146
DCB Decachlorobiphenyl (Surr)	100		42 - 150

Lab Sample ID: LCSD 180-283891/5-A
Matrix: Water
Analysis Batch: 283930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 283891

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	1000	1100		ng/L		110	50 - 140	14	35
PCB-1260	1000	873		ng/L		87	10 - 140	3	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	99		38 - 146
DCB Decachlorobiphenyl (Surr)	100		42 - 150

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-389432/1-A
Matrix: Water
Analysis Batch: 389716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 389432

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Mercury	0.188	J	0.50	0.14	ng/L		07/02/19 14:00	07/03/19 09:01	1

QC Sample Results

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

Job ID: 500-165974-1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCS 240-389432/2-A
 Matrix: Water
 Analysis Batch: 389716

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 389432
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Mercury	5.00	5.78		ng/L		116	77 - 123

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-492803/1-A
 Matrix: Water
 Analysis Batch: 493001

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 492803

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<1.3		2.5	1.3	ug/L		07/01/19 07:34	07/01/19 15:45	1
Arsenic	<2.1		5.0	2.1	ug/L		07/01/19 07:34	07/01/19 15:45	1
Zinc	4.09	J	10	3.6	ug/L		07/01/19 07:34	07/01/19 15:45	1

Lab Sample ID: LCS 500-492803/2-A
 Matrix: Water
 Analysis Batch: 493001

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 492803
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	50.0	50.3		ug/L		101	85 - 115
Arsenic	50.0	51.6		ug/L		103	85 - 115
Zinc	250	249		ug/L		99	85 - 115

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-492882/1-A
 Matrix: Solid
 Analysis Batch: 493192

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 492882

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		07/02/19 07:46	07/02/19 18:21	1
Barium	<0.11		1.0	0.11	mg/Kg		07/02/19 07:46	07/02/19 18:21	1
Cadmium	0.149	J	0.20	0.036	mg/Kg		07/02/19 07:46	07/02/19 18:21	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/02/19 07:46	07/02/19 18:21	1
Lead	<0.23		0.50	0.23	mg/Kg		07/02/19 07:46	07/02/19 18:21	1
Selenium	<0.59		1.0	0.59	mg/Kg		07/02/19 07:46	07/02/19 18:21	1
Silver	<0.13		0.50	0.13	mg/Kg		07/02/19 07:46	07/02/19 18:21	1

Lab Sample ID: LCS 500-492882/2-A
 Matrix: Solid
 Analysis Batch: 493192

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 492882
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	8.91		mg/Kg		89	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Cadmium	5.00	4.95		mg/Kg		99	80 - 120
Chromium	20.0	19.3		mg/Kg		96	80 - 120
Lead	10.0	9.26		mg/Kg		93	80 - 120
Selenium	10.0	8.86		mg/Kg		89	80 - 120
Silver	5.00	4.52		mg/Kg		90	80 - 120

QC Sample Results

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

Job ID: 500-165974-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-493064/12-A
Matrix: Solid
Analysis Batch: 493285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 493064

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.6		17	5.6	ug/Kg		07/02/19 14:25	07/03/19 08:25	1

Lab Sample ID: LCS 500-493064/13-A
Matrix: Solid
Analysis Batch: 493285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 493064
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	167	180		ug/Kg		108	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-493193/1
Matrix: Water
Analysis Batch: 493193

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/03/19 04:29	1

Lab Sample ID: LCS 500-493193/2
Matrix: Water
Analysis Batch: 493193

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Suspended Solids	200	188		mg/L		94	80 - 120

Lab Chronicle

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

Job ID: 500-165974-1

Client Sample ID: Sample 4

Lab Sample ID: 500-165974-1

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			493139	07/02/19 16:46	ACK	TAL CHI
Total/NA	Analysis	625		1	493223	07/03/19 12:19	AJD	TAL CHI
Total/NA	Prep	608			283891	07/03/19 09:30	CBY	TAL PIT
Total/NA	Analysis	EPA 608		1	283930	07/04/19 13:15	JMO	TAL PIT
Total/NA	Prep	1631E			389432	07/02/19 14:00	DTN	TAL CAN
Total/NA	Analysis	1631E		1	389716	07/03/19 09:55	DTN	TAL CAN
Total Recoverable	Prep	200.7			492803	07/01/19 07:34	SAH	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	493001	07/01/19 15:53	EEN	TAL CHI
Total/NA	Analysis	SM 2540D		1	493193	(Start) 07/03/19 05:16 (End) 07/03/19 05:18	CLB	TAL CHI

Client Sample ID: Field Blank

Lab Sample ID: 500-165974-2

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			389432	07/02/19 14:00	DTN	TAL CAN
Total/NA	Analysis	1631E		1	389716	07/03/19 09:59	DTN	TAL CAN

Client Sample ID: BF2

Lab Sample ID: 500-165974-3

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			389432	07/02/19 14:00	DTN	TAL CAN
Total/NA	Analysis	1631E		5	389716	07/03/19 10:03	DTN	TAL CAN

Client Sample ID: Tank 3 Post Cleaning

Lab Sample ID: 500-165974-4

Date Collected: 06/28/19 00:00

Matrix: Water

Date Received: 06/29/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			389432	07/02/19 14:00	DTN	TAL CAN
Total/NA	Analysis	1631E		5	389716	07/03/19 10:06	DTN	TAL CAN

Client Sample ID: Geo Bag 1

Lab Sample ID: 500-165974-5

Date Collected: 06/28/19 00:00

Matrix: Solid

Date Received: 06/29/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	492878	07/01/19 11:52	LWN	TAL CHI

Lab Chronicle

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

Job ID: 500-165974-1

Client Sample ID: Geo Bag 1

Lab Sample ID: 500-165974-5

Date Collected: 06/28/19 00:00

Matrix: Solid

Date Received: 06/29/19 09:40

Percent Solids: 42.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			492818	07/01/19 07:56	DX	TAL CHI
Total/NA	Analysis	8270D		5	492907	07/01/19 21:21	AJD	TAL CHI
Total/NA	Prep	3541			493141	07/02/19 16:49	JP1	TAL CHI
Total/NA	Analysis	8082A		5	493278	07/03/19 12:59	SS	TAL CHI
Total/NA	Prep	3050B			492882	07/02/19 07:46	SAH	TAL CHI
Total/NA	Analysis	6010B		1	493192	07/02/19 20:21	JEF	TAL CHI
Total/NA	Prep	7471B			493064	07/02/19 14:25	MJG	TAL CHI
Total/NA	Analysis	7471B		5	493285	07/03/19 11:26	MJG	TAL CHI

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Accreditation/Certification Summary

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

Job ID: 500-165974-1

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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Laboratory: Eurofins TestAmerica, Canton

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Oregon	NELAP	10	4062	02-23-20

Laboratory: Eurofins TestAmerica, Pittsburgh

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	998027800	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
EPA 608	608	Water	PCB-1016
EPA 608	608	Water	PCB-1221
EPA 608	608	Water	PCB-1232
EPA 608	608	Water	PCB-1242
EPA 608	608	Water	PCB-1248
EPA 608	608	Water	PCB-1254
EPA 608	608	Water	PCB-1260

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record

Client Information		Sampler: <i>Brian Skala / Marc Zimmerman</i>		Lab PM: Knapp, Jim D		Carrier Tracking No(s):		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 #: <i>500165974</i>									
Address: 1515 Des Peres Rd. Suite 300		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSB (Yes or No)		Total Number of Containers		Preservation Codes: 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)									
City: Saint Louis		TAT Requested (days): <i>3 days</i>															
State, Zip: MO, 63131		PO #: 7741															
Phone: 314-835-2814(Tel)		WO #:															
Email: ddunn@enviroanalyticsgroup.com		Project #: 50014801															
Project Name: Rock River Sediment Removal, Janesville		SSOW#:															
Site:																	
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	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	LL Hg	LL Field Blank	Special Instructions/Note:	
<i>1/2 Sample 4</i>		<i>6/28/19</i>			Water		X	X	X	X				X	X		
<i>3 BF2</i>		<i>6/28/19</i>			Water									X			
<i>4 Tank 3 Post cleaning</i>		<i>6/28/19</i>			Water									X			
					Water												
<i>5 Geo Bag 1</i>		<i>6/27/19</i>		C	Solid						X					500-165974 COC	
					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:													
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:											
<i>Brian Skala / Marc Zimmerman</i>		<i>06/28/19</i>		<i>1:45 pm</i>		Company: <i>COJ</i>		Received by: <i>Jim Knapp</i>		Date/Time: <i>06/29/19 0940</i>		Company: <i>THL</i>					
<i>Mike Mulwood</i>						Company:		Received by:		Date/Time:		Company:					
						Company:		Received by:		Date/Time:		Company:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>4.8</i>													

ORIGIN ID:JVLA (636) 577-5058
RILEY UNDERWOOD (EAG)
1000 INDUSTRIAL AVE
JANESVILLE, WI 53546
UNITED STATES US

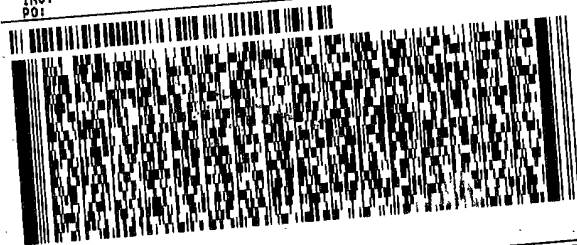
SHIP DATE: 28JUN19
ACTWGT: 42.00 LB
CAD: 006894388/SSFE2002
DIMS: 25x13x14 IN
BILL THIRD PARTY

Part # 1562974956/REF:WY25SCP 05/20

TO
EUROFINS TESTAMERICA, CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(330) 312-0176 REF: DEPT:
INVT PD:



FedEx
Express



500-165974 Wayt

SATURDAY 10:00A
FIRST OVERNIGHT

TRK# 7881 7909 6309
0201

XO JOTA

AHS
60484
IL-US ORD



Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : _____


Canton Facility

Client ETA Site Name _____
Cooler Received on 7-2-19 Opened on 7-2-19 940
FedEx Gd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Ryan Crabley

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 22.4 °C Corrected Cooler Temp. 22.5 °C
IR GUN #36 (CF +0.6 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
-Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC984738
13. Were VOAs on the COC? Yes No NA
14. Were air bubbles >6 mm in any VOA vials? Yes No NA  Larger than this.
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA
16. Was a LL Hg or Me Hg trip blank present? Yes No NA

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:
Ryan Crabley

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-165974-1

Login Number: 165974

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Fioravanti, Ariel M

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	4.8
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	



Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-165974-1

Login Number: 165974

List Number: 3

Creator: Pickl, Alex J

List Source: Eurofins TestAmerica, Pittsburgh

List Creation: 07/02/19 12:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

