

ANALYTICAL REPORT

Job Number: 460-110987-1

Job Description: DEC Elmont546; Site: E130150

For:

New York State D.E.C.
625 Broadway 9th Floor
Albany, NY 12233-7258

Attention: Mr. Brian Jankauskas



Approved for release.
Shalini Williams
Project Management Assistant II
4/1/2016 8:52 AM

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04/01/2016

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

Report Number: 460-110987-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/24/2016 8:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMIVOLATILE ORGANIC COMPOUNDS

Sample CONCRETE_WASTE (460-110987-1) was analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/25/2016 and analyzed on 03/29/2016.

The continuing calibration verification (CCV) analyzed in batch 460-359315 was outside the method criteria for the following analyte(s): Caprolactam, Indeno[1,2,3-cd]pyrene and Dibenz(a,h)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Acid extractable surrogate std recoveries are biased low for the following sample: CONCRETE_WASTE (460-110987-1). Sample(s) high pH is causing low A/E surrogate std recoveries.

2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr), Phenol-d5 (Surr), 2,4,6-Tribromophenol (Surr), 2-Fluorophenol (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for CONCRETE_WASTE (460-110987-1). 2,4,6-Tribromophenol (Surr) failed the surrogate recovery criteria high for LCS 460-358732/2-A. Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS/MSD of sample 460-110906-2 in batch 460-359315. 4,6-Dinitro-2-methylphenol exceeded the RPD limit.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples CONCRETE_WASTE (460-110987-1)[25X] and CONCRETE_WASTE (460-110987-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample was diluted due to abundance of target analytes: CONCRETE_WASTE (460-110987-1). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

TCLP METALS

Sample ASPHALT_WASTE (460-110987-2) was analyzed for TCLP metals in accordance with EPA SW-846 Methods 1311/ 6010C. The

samples were leached on 03/25/2016, prepared on 03/26/2016 and analyzed on 03/28/2016.

No difficulties were encountered during the TCLP metals analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples CONCRETE_WASTE (460-110987-1) and ASPHALT_WASTE (460-110987-2) were analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 03/25/2016 and 03/29/2016 and analyzed on 03/29/2016.

Antimony, Manganese and Zinc failed the recovery criteria low for the MS of sample 460-110936-10 in batch 460-359469. Aluminum and Iron failed the recovery criteria high. Antimony and Iron failed the recovery criteria low for the MS of sample 460-110937-1 in batch 460-359469. Aluminum and Manganese failed the recovery criteria high.

Cobalt exceeded the RPD limit for the duplicate of sample 460-110937-1.

Refer to the QC report for details.

Samples CONCRETE_WASTE (460-110987-1)[20X], CONCRETE_WASTE (460-110987-1)[4X], ASPHALT_WASTE (460-110987-2) [20X] and ASPHALT_WASTE (460-110987-2)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples CONCRETE_WASTE (460-110987-1) and ASPHALT_WASTE (460-110987-2) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 03/28/2016.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-110987-1	CONCRETE_WASTE					
Benzo[a]anthracene		170	J	180	ug/Kg	8270D
Benzo[a]pyrene		100	J	180	ug/Kg	8270D
Benzo[b]fluoranthene		180		180	ug/Kg	8270D
Chrysene		120	J	1800	ug/Kg	8270D
Dimethyl phthalate		130	J	1800	ug/Kg	8270D
Fluoranthene		210	J	1800	ug/Kg	8270D
Isophorone		63000		3600	ug/Kg	8270D
Phenanthrene		83	J	1800	ug/Kg	8270D
Pyrene		170	J	1800	ug/Kg	8270D
Aluminum		6440		41.3	mg/Kg	6010C
Arsenic		7.3		3.1	mg/Kg	6010C
Barium		40.7	J	41.3	mg/Kg	6010C
Calcium		99200		5160	mg/Kg	6010C
Chromium		18.3		2.1	mg/Kg	6010C
Cobalt		2.2	J	10.3	mg/Kg	6010C
Copper		21.3		5.2	mg/Kg	6010C
Iron		8020		31.0	mg/Kg	6010C
Lead		34.6		2.1	mg/Kg	6010C
Magnesium		5380		1030	mg/Kg	6010C
Manganese		161		3.1	mg/Kg	6010C
Nickel		10.8		8.3	mg/Kg	6010C
Potassium		329	J	1030	mg/Kg	6010C
Sodium		105	J	1030	mg/Kg	6010C
Vanadium		13.0		10.3	mg/Kg	6010C
Zinc		66.7		6.2	mg/Kg	6010C
Percent Moisture		6.8		1.0	%	Moisture
Percent Solids		93.2		1.0	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-110987-2	ASPHALT_WASTE					
Aluminum		528		32.0	mg/Kg	6010C
Arsenic		15.7		2.4	mg/Kg	6010C
Barium		13.5	J	32.0	mg/Kg	6010C
Calcium		169000		4000	mg/Kg	6010C
Chromium		0.97	J	1.6	mg/Kg	6010C
Cobalt		1.6	J	8.0	mg/Kg	6010C
Copper		9.3		4.0	mg/Kg	6010C
Iron		3820		24.0	mg/Kg	6010C
Lead		59.3		1.6	mg/Kg	6010C
Magnesium		91400		4000	mg/Kg	6010C
Manganese		109		2.4	mg/Kg	6010C
Nickel		5.9	J	6.4	mg/Kg	6010C
Potassium		294	J	800	mg/Kg	6010C
Sodium		163	J	800	mg/Kg	6010C
Vanadium		14.2		8.0	mg/Kg	6010C
Zinc		36.3		4.8	mg/Kg	6010C
Percent Moisture		3.1		1.0	%	Moisture
Percent Solids		96.9		1.0	%	Moisture
TCLP						
Barium		420	J	1000	ug/L	6010C
Lead		404		50.0	ug/L	6010C

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-110987-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL EDI	SW846 8270D	
Microwave Extraction	TAL EDI		SW846 3546
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Metals	TAL EDI		SW846 3050B
Metals (ICP)	TAL EDI	SW846 6010C	
TCLP Extraction	TAL EDI		SW846 1311
Preparation, Total Metals	TAL EDI		SW846 3010A
Percent Moisture	TAL EDI	EPA Moisture	

Lab References:

TAL EDI = TestAmerica Edison

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-110987-1

Method	Analyst	Analyst ID
SW846 8270D	Szczech, Anna	AAS
SW846 6010C	Patel, Purva H	PHP
EPA Moisture	Bordieri, Brian M	BMB

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-110987-1	CONCRETE_WASTE	Solid	03/24/2016 0850	03/24/2016 2000
460-110987-2	ASPHALT_WASTE	Solid	03/24/2016 0855	03/24/2016 2000

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

Client Sample ID: CONCRETE_WASTE

Lab Sample ID: 460-110987-1

Date Sampled: 03/24/2016 0850

Client Matrix: Solid

% Moisture: 6.8

Date Received: 03/24/2016 2000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-359315

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-358732

Lab File ID: x12294.D

Dilution: 5.0

Initial Weight/Volume: 15.0243 g

Analysis Date: 03/29/2016 1636

Final Weight/Volume: 1 mL

Prep Date: 03/25/2016 1426

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1'-Biphenyl		1800	U	150	1800
1,2,4,5-Tetrachlorobenzene		1800	U	130	1800
2,2'-oxybis[1-chloropropane]		1800	U	73	1800
2,3,4,6-Tetrachlorophenol		1800	U	170	1800
2,4,5-Trichlorophenol		1800	U	180	1800
2,4,6-Trichlorophenol		710	U	50	710
2,4-Dichlorophenol		710	U	42	710
2,4-Dimethylphenol		1800	U	390	1800
2,4-Dinitrophenol		1400	U	1300	1400
2,4-Dinitrotoluene		360	U	70	360
2,6-Dinitrotoluene		360	U	94	360
2-Chloronaphthalene		1800	U	40	1800
2-Chlorophenol		1800	U	45	1800
2-Methylnaphthalene		1800	U	39	1800
2-Methylphenol		1800	U	77	1800
2-Nitroaniline		1800	U	58	1800
2-Nitrophenol		1800	U	59	1800
3,3'-Dichlorobenzidine		710	U	200	710
3-Nitroaniline		1800	U	53	1800
4,6-Dinitro-2-methylphenol		1400	U	470	1400
4-Bromophenyl phenyl ether		1800	U	56	1800
4-Chloro-3-methylphenol		1800	U	76	1800
4-Chloroaniline		1800	U	46	1800
4-Chlorophenyl phenyl ether		1800	U	53	1800
4-Methylphenol		1800	U	48	1800
4-Nitroaniline		1800	U	67	1800
4-Nitrophenol		3600	U	850	3600
Acenaphthene		1800	U	43	1800
Acenaphthylene		1800	U	46	1800
Acetophenone		1800	U	39	1800
Anthracene		1800	U	170	1800
Atrazine		710	U	79	710
Benzaldehyde		1800	U	140	1800
Benzo[a]anthracene		170	J	150	180
Benzo[a]pyrene		100	J	54	180
Benzo[b]fluoranthene		180		69	180
Benzo[g,h,i]perylene		1800	U	100	1800
Benzo[k]fluoranthene		180	U	77	180
Bis(2-chloroethoxy)methane		1800	U	55	1800
Bis(2-chloroethyl)ether		180	U	42	180
Bis(2-ethylhexyl) phthalate		1800	U	69	1800
Butyl benzyl phthalate		1800	U	55	1800
Caprolactam		1800	U	130	1800
Carbazole		1800	U	44	1800
Chrysene		120	J	48	1800
Dibenz(a,h)anthracene		180	U	92	180

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

Client Sample ID: CONCRETE_WASTE

Lab Sample ID: 460-110987-1

Date Sampled: 03/24/2016 0850

Client Matrix: Solid

% Moisture: 6.8

Date Received: 03/24/2016 2000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method: 8270D

Analysis Batch: 460-359315

Instrument ID: CBNAMS5

Prep Method: 3546

Prep Batch: 460-358732

Lab File ID: x12294.D

Dilution: 5.0

Initial Weight/Volume: 15.0243 g

Analysis Date: 03/29/2016 1636

Final Weight/Volume: 1 mL

Prep Date: 03/25/2016 1426

Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibenzofuran		1800	U	54	1800
Diethyl phthalate		1800	U	50	1800
Dimethyl phthalate		130	J	51	1800
Di-n-butyl phthalate		1800	U	53	1800
Di-n-octyl phthalate		1800	U	90	1800
Fluoranthene		210	J	53	1800
Fluorene		1800	U	39	1800
Hexachlorobenzene		180	U	72	180
Hexachlorobutadiene		360	U	50	360
Hexachlorocyclopentadiene		1800	U	110	1800
Hexachloroethane		180	U	65	180
Indeno[1,2,3-cd]pyrene		180	U	120	180
Naphthalene		1800	U	45	1800
Nitrobenzene		180	U	56	180
N-Nitrosodi-n-propylamine		180	U	59	180
N-Nitrosodiphenylamine		1800	U	160	1800
Pentachlorophenol		1400	U	210	1400
Phenanthrene		83	J	47	1800
Phenol		1800	U	58	1800
Pyrene		170	J	80	1800

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	0	*	10 - 95
2-Fluorobiphenyl	57		27 - 84
2-Fluorophenol (Surr)	0.7	*	21 - 84
Nitrobenzene-d5 (Surr)	54		28 - 92
Phenol-d5 (Surr)	7	*	22 - 88
Terphenyl-d14 (Surr)	68		16 - 114

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

Client Sample ID: CONCRETE_WASTE

Lab Sample ID: 460-110987-1

Date Sampled: 03/24/2016 0850

Client Matrix: Solid

% Moisture: 6.8

Date Received: 03/24/2016 2000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	460-359315	Instrument ID:	CBNAMS5
Prep Method:	3546	Prep Batch:	460-358732	Lab File ID:	x12295.D
Dilution:	25			Initial Weight/Volume:	15.0243 g
Analysis Date:	03/29/2016 1705	Run Type:	DL	Final Weight/Volume:	1 mL
Prep Date:	03/25/2016 1426			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Isophorone		63000		190	3600

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	0	*	10 - 95
2-Fluorobiphenyl	41		27 - 84
2-Fluorophenol (Surr)	0	*	21 - 84
Nitrobenzene-d5 (Surr)	36		28 - 92
Phenol-d5 (Surr)	5	*	22 - 88
Terphenyl-d14 (Surr)	47		16 - 114

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

Client Sample ID: CONCRETE_WASTE

Lab Sample ID: 460-110987-1

Date Sampled: 03/24/2016 0850

Client Matrix: Solid

% Moisture: 6.8

Date Received: 03/24/2016 2000

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-359469

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-359319

Lab File ID: 03292016.asc

Dilution: 4.0

Initial Weight/Volume: 1.04 g

Analysis Date: 03/29/2016 1519

Final Weight/Volume: 50 mL

Prep Date: 03/29/2016 0501

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6440		21.3	41.3
Antimony		4.1	U	1.6	4.1
Arsenic		7.3		1.0	3.1
Barium		40.7	J	1.5	41.3
Beryllium		0.41	U	0.35	0.41
Cadmium		0.83	U	0.43	0.83
Chromium		18.3		1.0	2.1
Cobalt		2.2	J	1.2	10.3
Copper		21.3		1.3	5.2
Iron		8020		23.3	31.0
Lead		34.6		0.81	2.1
Magnesium		5380		51.5	1030
Manganese		161		1.1	3.1
Nickel		10.8		1.5	8.3
Potassium		329	J	31.3	1030
Selenium		4.1	U	1.4	4.1
Silver		2.1	U	0.36	2.1
Sodium		105	J	69.9	1030
Thallium		4.1	U	1.8	4.1
Vanadium		13.0		1.0	10.3
Zinc		66.7		1.5	6.2

Analysis Method: 6010C

Analysis Batch: 460-359469

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-359319

Lab File ID: 03292016.asc

Dilution: 20

Initial Weight/Volume: 1.04 g

Analysis Date: 03/29/2016 1659

Final Weight/Volume: 50 mL

Prep Date: 03/29/2016 0501

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		99200		305	5160

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

Client Sample ID: ASPHALT_WASTE

Lab Sample ID: 460-110987-2

Date Sampled: 03/24/2016 0855

Client Matrix: Solid

% Moisture: 3.1

Date Received: 03/24/2016 2000

6010C Metals (ICP)

Analysis Method: 6010C

Analysis Batch: 460-359469

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-358778

Lab File ID: 03292016.asc

Dilution: 4.0

Initial Weight/Volume: 1.29 g

Analysis Date: 03/29/2016 1611

Final Weight/Volume: 50 mL

Prep Date: 03/25/2016 1850

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		528		16.5	32.0
Antimony		3.2	U	1.3	3.2
Arsenic		15.7		0.79	2.4
Barium		13.5	J	1.1	32.0
Beryllium		0.32	U	0.27	0.32
Cadmium		0.64	U	0.33	0.64
Chromium		0.97	J	0.77	1.6
Cobalt		1.6	J	0.92	8.0
Copper		9.3		1.0	4.0
Iron		3820		18.1	24.0
Lead		59.3		0.63	1.6
Manganese		109		0.84	2.4
Nickel		5.9	J	1.2	6.4
Potassium		294	J	24.2	800
Selenium		3.2	U	1.1	3.2
Silver		1.6	U	0.28	1.6
Sodium		163	J	54.1	800
Thallium		3.2	U	1.4	3.2
Vanadium		14.2		0.80	8.0
Zinc		36.3		1.2	4.8

Analysis Method: 6010C

Analysis Batch: 460-359469

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-358778

Lab File ID: 03292016.asc

Dilution: 20

Initial Weight/Volume: 1.29 g

Analysis Date: 03/29/2016 1702

Final Weight/Volume: 50 mL

Prep Date: 03/25/2016 1850

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		169000		237	4000
Magnesium		91400		200	4000

6010C Metals (ICP)-TCLP

Analysis Method: 6010C

Analysis Batch: 460-359174

Instrument ID: ICP5

Prep Method: 3010A

Prep Batch: 460-358958

Lab File ID: 03282016.asc

Dilution: 5.0

Leach Batch: 460-358764

Initial Weight/Volume: 50 mL

Analysis Date: 03/28/2016 1438

Final Weight/Volume: 50 mL

Prep Date: 03/26/2016 2020

Leach Date: 03/25/2016 1700

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Silver		50.0	U	9.3	50.0
Arsenic		75.0	U	22.1	75.0

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

Client Sample ID: ASPHALT_WASTE

Lab Sample ID: 460-110987-2

Date Sampled: 03/24/2016 0855

Client Matrix: Solid

Date Received: 03/24/2016 2000

6010C Metals (ICP)-TCLP

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Barium		420	J	27.5	1000
Cadmium		20.0	U	11.6	20.0
Chromium		50.0	U	22.5	50.0
Lead		404		20.8	50.0
Selenium		100	U	33.8	100

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

General Chemistry

Client Sample ID: CONCRETE_WASTE

Lab Sample ID: 460-110987-1

Date Sampled: 03/24/2016 0850

Client Matrix: Solid

Date Received: 03/24/2016 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-359187	Analysis Date: 03/28/2016	1452				DryWt Corrected: N
Percent Solids	93.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-359187	Analysis Date: 03/28/2016	1452				DryWt Corrected: N

Analytical Data

Client: New York State D.E.C.

Job Number: 460-110987-1

General Chemistry

Client Sample ID: ASPHALT_WASTE

Lab Sample ID: 460-110987-2

Date Sampled: 03/24/2016 0855

Client Matrix: Solid

Date Received: 03/24/2016 2000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-359187	Analysis Date: 03/28/2016	1452				DryWt Corrected: N
Percent Solids	96.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-359187	Analysis Date: 03/28/2016	1452				DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Section	Qualifier	Description
GC/MS Semi VOA	U	Analyzed for but not detected.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	MS or MSD is outside acceptance limits.
	*	Surrogate is outside acceptance limits.
Metals	U	Indicates analyzed for but not detected.
	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.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 460-358732					
LCS 460-358732/2-A	Lab Control Sample	T	Solid	3546	
LCS 460-358732/3-A	Lab Control Sample	T	Solid	3546	
MB 460-358732/1-A	Method Blank	T	Solid	3546	
460-110906-A-2-B MS	Matrix Spike	T	Solid	3546	
460-110906-A-2-C MSD	Matrix Spike Duplicate	T	Solid	3546	
460-110987-1	CONCRETE_WASTE	T	Solid	3546	
460-110987-1DL	CONCRETE_WASTE	T	Solid	3546	
Analysis Batch:460-359315					
LCS 460-358732/2-A	Lab Control Sample	T	Solid	8270D	460-358732
LCS 460-358732/3-A	Lab Control Sample	T	Solid	8270D	460-358732
MB 460-358732/1-A	Method Blank	T	Solid	8270D	460-358732
460-110906-A-2-B MS	Matrix Spike	T	Solid	8270D	460-358732
460-110906-A-2-C MSD	Matrix Spike Duplicate	T	Solid	8270D	460-358732
460-110987-1	CONCRETE_WASTE	T	Solid	8270D	460-358732
460-110987-1DL	CONCRETE_WASTE	T	Solid	8270D	460-358732

Report Basis

T = Total

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 460-358764					
LB 460-358764/1-D ^5	TCLP SPLPE Leachate Blank	P	Solid	1311	
460-110825-B-1-H DU ^5	Duplicate	P	Solid	1311	
460-110825-B-1-I MS ^5	Matrix Spike	P	Solid	1311	
460-110987-2	ASPHALT_WASTE	P	Solid	1311	
Prep Batch: 460-358778					
LCSSRM 460-358778/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-358778/1-A ^2	Method Blank	T	Solid	3050B	
460-110937-G-1-B DU ^4	Duplicate	T	Solid	3050B	
460-110937-G-1-C MS ^4	Matrix Spike	T	Solid	3050B	
460-110987-2	ASPHALT_WASTE	T	Solid	3050B	
Prep Batch: 460-358958					
LCS 460-358958/2-A ^2	Lab Control Sample	T	Water	3010A	
MB 460-358958/1-A	Method Blank	T	Water	3010A	
LB 460-358764/1-D ^5	TCLP SPLPE Leachate Blank	P	Solid	3010A	460-358764
460-110825-B-1-H DU ^5	Duplicate	P	Solid	3010A	460-358764
460-110825-B-1-I MS ^5	Matrix Spike	P	Solid	3010A	460-358764
460-110987-2	ASPHALT_WASTE	P	Solid	3010A	460-358764
Analysis Batch:460-359174					
LB 460-358764/1-D ^5	TCLP SPLPE Leachate Blank	P	Solid	6010C	460-358958
LCS 460-358958/2-A ^2	Lab Control Sample	T	Water	6010C	460-358958
MB 460-358958/1-A	Method Blank	T	Water	6010C	460-358958
460-110825-B-1-H DU ^5	Duplicate	P	Solid	6010C	460-358958
460-110825-B-1-I MS ^5	Matrix Spike	P	Solid	6010C	460-358958
460-110987-2	ASPHALT_WASTE	P	Solid	6010C	460-358958
Prep Batch: 460-359319					
LCSSRM 460-359319/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-359319/1-A ^2	Method Blank	T	Solid	3050B	
460-110936-A-10-B DU ^4	Duplicate	T	Solid	3050B	
460-110936-D-10-G MS ^4	Matrix Spike	T	Solid	3050B	
460-110987-1	CONCRETE_WASTE	T	Solid	3050B	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:460-359469					
LCSSRM 460-358778/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-358778
MB 460-358778/1-A ^2	Method Blank	T	Solid	6010C	460-358778
LCSSRM 460-359319/2-A ^4	LCS-Certified Reference Material	T	Solid	6010C	460-359319
MB 460-359319/1-A ^2	Method Blank	T	Solid	6010C	460-359319
460-110936-A-10-B DU ^4	Duplicate	T	Solid	6010C	460-359319
460-110936-D-10-G MS ^4	Matrix Spike	T	Solid	6010C	460-359319
460-110937-G-1-B DU ^4	Duplicate	T	Solid	6010C	460-358778
460-110937-G-1-C MS ^4	Matrix Spike	T	Solid	6010C	460-358778
460-110987-1	CONCRETE_WASTE	T	Solid	6010C	460-359319
460-110987-2	ASPHALT_WASTE	T	Solid	6010C	460-358778

Report Basis

P = TCLP

T = Total

General Chemistry

Analysis Batch:460-359187					
460-110987-1	CONCRETE_WASTE	T	Solid	Moisture	
460-110987-1DU	Duplicate	T	Solid	Moisture	
460-110987-2	ASPHALT_WASTE	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TBP %Rec	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
460-110987-1	CONCRETE_WASTE	0*	57	0.7*	54	7*	68
460-110987-1 DL	CONCRETE_WASTE DL	0*	41	0*	36	5*	47
MB 460-358732/1-A		81	76	69	78	73	88
LCS 460-358732/2-A		96*	78	68	77	75	87
LCS 460-358732/3-A		88	76	69	78	72	81
460-110906-A-2-B MS		54	59	46	55	54	65
460-110906-A-2-C MSD		59	67	52	64	60	71

Surrogate	Acceptance Limits
TBP = 2,4,6-Tribromophenol (Surr)	10-95
FBP = 2-Fluorobiphenyl	27-84
2FP = 2-Fluorophenol (Surr)	21-84
NBZ = Nitrobenzene-d5 (Surr)	28-92
PHL = Phenol-d5 (Surr)	22-88
TPH = Terphenyl-d14 (Surr)	16-114

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Method Blank - Batch: 460-358732

Method: 8270D Preparation: 3546

Lab Sample ID: MB 460-358732/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 03/29/2016 1021
Prep Date: 03/25/2016 1426
Leach Date: N/A

Analysis Batch: 460-359315
Prep Batch: 460-358732
Leach Batch: N/A
Units: ug/Kg

Instrument ID: CBNAMS5
Lab File ID: x12279.D
Initial Weight/Volume: 15.0000 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	330	U	28	330
1,2,4,5-Tetrachlorobenzene	330	U	25	330
2,2'-oxybis[1-chloropropane]	330	U	14	330
2,3,4,6-Tetrachlorophenol	330	U	31	330
2,4,5-Trichlorophenol	330	U	33	330
2,4,6-Trichlorophenol	130	U	9.4	130
2,4-Dichlorophenol	130	U	7.8	130
2,4-Dimethylphenol	330	U	73	330
2,4-Dinitrophenol	270	U	250	270
2,4-Dinitrotoluene	67	U	13	67
2,6-Dinitrotoluene	67	U	18	67
2-Chloronaphthalene	330	U	7.5	330
2-Chlorophenol	330	U	8.4	330
2-Methylnaphthalene	330	U	7.3	330
2-Methylphenol	330	U	14	330
2-Nitroaniline	330	U	11	330
2-Nitrophenol	330	U	11	330
3,3'-Dichlorobenzidine	130	U	37	130
3-Nitroaniline	330	U	9.8	330
4,6-Dinitro-2-methylphenol	270	U	88	270
4-Bromophenyl phenyl ether	330	U	10	330
4-Chloro-3-methylphenol	330	U	14	330
4-Chloroaniline	330	U	8.5	330
4-Chlorophenyl phenyl ether	330	U	9.9	330
4-Methylphenol	330	U	9.0	330
4-Nitroaniline	330	U	13	330
4-Nitrophenol	670	U	160	670
Acenaphthene	330	U	8.0	330
Acenaphthylene	330	U	8.5	330
Acetophenone	330	U	7.2	330
Anthracene	330	U	31	330
Atrazine	130	U	15	130
Benzaldehyde	330	U	25	330
Benzo[a]anthracene	33	U	28	33
Benzo[a]pyrene	33	U	10	33
Benzo[b]fluoranthene	33	U	13	33
Benzo[g,h,i]perylene	330	U	19	330
Benzo[k]fluoranthene	33	U	14	33
Bis(2-chloroethoxy)methane	330	U	10	330
Bis(2-chloroethyl)ether	33	U	7.8	33
Bis(2-ethylhexyl) phthalate	330	U	13	330
Butyl benzyl phthalate	330	U	10	330
Caprolactam	330	U	24	330
Carbazole	330	U	8.2	330
Chrysene	330	U	9.0	330

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Method Blank - Batch: 460-358732

Method: 8270D Preparation: 3546

Lab Sample ID:	MB 460-358732/1-A	Analysis Batch:	460-359315	Instrument ID:	CBNAMS5
Client Matrix:	Solid	Prep Batch:	460-358732	Lab File ID:	x12279.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	03/29/2016 1021	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	03/25/2016 1426			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	33	U	17	33
Dibenzofuran	330	U	10	330
Diethyl phthalate	330	U	9.4	330
Dimethyl phthalate	330	U	9.6	330
Di-n-butyl phthalate	330	U	9.9	330
Di-n-octyl phthalate	330	U	17	330
Fluoranthene	330	U	9.8	330
Fluorene	330	U	7.2	330
Hexachlorobenzene	33	U	13	33
Hexachlorobutadiene	67	U	9.3	67
Hexachlorocyclopentadiene	330	U	21	330
Hexachloroethane	33	U	12	33
Indeno[1,2,3-cd]pyrene	33	U	22	33
Isophorone	130	U	7.1	130
Naphthalene	330	U	8.4	330
Nitrobenzene	33	U	10	33
N-Nitrosodi-n-propylamine	33	U	11	33
N-Nitrosodiphenylamine	330	U	30	330
Pentachlorophenol	270	U	40	270
Phenanthrene	330	U	8.8	330
Phenol	330	U	11	330
Pyrene	330	U	15	330

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	81	10 - 95
2-Fluorobiphenyl	76	27 - 84
2-Fluorophenol (Surr)	69	21 - 84
Nitrobenzene-d5 (Surr)	78	28 - 92
Phenol-d5 (Surr)	73	22 - 88
Terphenyl-d14 (Surr)	88	16 - 114

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Control Sample - Batch: 460-358732

Method: 8270D
Preparation: 3546

Lab Sample ID:	LCS 460-358732/2-A	Analysis Batch:	460-359315	Instrument ID:	CBNAMS5
Client Matrix:	Solid	Prep Batch:	460-358732	Lab File ID:	x12275.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	03/29/2016 0841	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	03/25/2016 1426			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1'-Biphenyl	3330	2730	82	64 - 103	
1,2,4,5-Tetrachlorobenzene	3330	2630	79	62 - 109	
2,2'-oxybis[1-chloropropane]	3330	2480	74	42 - 119	
2,3,4,6-Tetrachlorophenol	3330	3040	91	57 - 113	
2,4,5-Trichlorophenol	3330	2750	82	59 - 105	
2,4,6-Trichlorophenol	3330	2760	83	61 - 107	
2,4-Dichlorophenol	3330	2740	82	59 - 99	
2,4-Dimethylphenol	3330	2740	82	60 - 98	
2,4-Dinitrophenol	6670	6170	93	26 - 137	
2,4-Dinitrotoluene	3330	3420	103	61 - 118	
2,6-Dinitrotoluene	3330	3180	95	63 - 112	
2-Chloronaphthalene	3330	2720	82	63 - 102	
2-Chlorophenol	3330	2600	78	58 - 95	
2-Methylnaphthalene	3330	2760	83	64 - 102	
2-Methylphenol	3330	2750	82	56 - 99	
2-Nitroaniline	3330	2940	88	46 - 113	
2-Nitrophenol	3330	2720	82	63 - 103	
3,3'-Dichlorobenzidine	3330	1520	46	18 - 92	
3-Nitroaniline	3330	1760	53	23 - 89	
4,6-Dinitro-2-methylphenol	6670	6040	91	51 - 124	
4-Bromophenyl phenyl ether	3330	3030	91	65 - 114	
4-Chloro-3-methylphenol	3330	3060	92	58 - 108	
4-Chloroaniline	3330	1350	41	10 - 82	
4-Chlorophenyl phenyl ether	3330	3070	92	63 - 107	
4-Methylphenol	3330	2830	85	53 - 103	
4-Nitroaniline	3330	2980	89	44 - 109	
4-Nitrophenol	6670	6650	100	45 - 125	
Acenaphthene	3330	2710	81	59 - 102	
Acenaphthylene	3330	2910	87	63 - 102	
Acetophenone	3330	2790	84	56 - 107	
Anthracene	3330	3020	91	66 - 105	
Benzo[a]anthracene	3330	3000	90	65 - 106	
Benzo[a]pyrene	3330	3170	95	68 - 111	
Benzo[b]fluoranthene	3330	3200	96	67 - 116	
Benzo[g,h,i]perylene	3330	3350	100	49 - 124	
Benzo[k]fluoranthene	3330	2960	89	65 - 114	
Bis(2-chloroethoxy)methane	3330	2800	84	61 - 102	
Bis(2-chloroethyl)ether	3330	2680	80	58 - 102	
Bis(2-ethylhexyl) phthalate	3330	3080	92	60 - 125	
Butyl benzyl phthalate	3330	3040	91	62 - 123	
Carbazole	3330	3050	92	62 - 107	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Control Sample - Batch: 460-358732

Method: 8270D
Preparation: 3546

Lab Sample ID:	LCS 460-358732/2-A	Analysis Batch:	460-359315	Instrument ID:	CBNAMS5
Client Matrix:	Solid	Prep Batch:	460-358732	Lab File ID:	x12275.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	03/29/2016 0841	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	03/25/2016 1426			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chrysene	3330	3190	96	64 - 105	
Dibenz(a,h)anthracene	3330	3890	117	54 - 126	
Dibenzofuran	3330	2920	88	62 - 102	
Diethyl phthalate	3330	3350	101	61 - 110	
Dimethyl phthalate	3330	3130	94	64 - 108	
Di-n-butyl phthalate	3330	3260	98	62 - 114	
Di-n-octyl phthalate	3330	2850	86	52 - 137	
Fluoranthene	3330	3140	94	59 - 109	
Fluorene	3330	3060	92	65 - 108	
Hexachlorobenzene	3330	3000	90	65 - 117	
Hexachlorobutadiene	3330	2610	78	60 - 105	
Hexachlorocyclopentadiene	3330	2750	83	37 - 119	
Hexachloroethane	3330	2570	77	60 - 94	
Indeno[1,2,3-cd]pyrene	3330	3710	111	50 - 134	
Isophorone	3330	2950	88	60 - 102	
Naphthalene	3330	2710	81	64 - 99	
Nitrobenzene	3330	2740	82	59 - 102	
N-Nitrosodi-n-propylamine	3330	2940	88	56 - 112	
N-Nitrosodiphenylamine	3330	2870	86	71 - 119	
Pentachlorophenol	6670	5990	90	47 - 115	
Phenanthrene	3330	2900	87	66 - 105	
Phenol	3330	2630	79	55 - 99	
Pyrene	3330	2790	84	55 - 126	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	96 *	10 - 95
2-Fluorobiphenyl	78	27 - 84
2-Fluorophenol (Surr)	68	21 - 84
Nitrobenzene-d5 (Surr)	77	28 - 92
Phenol-d5 (Surr)	75	22 - 88
Terphenyl-d14 (Surr)	87	16 - 114

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Control Sample - Batch: 460-358732

Method: 8270D
Preparation: 3546

Lab Sample ID:	LCS 460-358732/3-A	Analysis Batch:	460-359315	Instrument ID:	CBNAM5
Client Matrix:	Solid	Prep Batch:	460-358732	Lab File ID:	x12276.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	15.0000 g
Analysis Date:	03/29/2016 0906	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	03/25/2016 1426			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Atrazine	6670	6820	102	41 - 116	
Benzaldehyde	6670	5100	77	55 - 116	
Caprolactam	6670	7480	112	44 - 129	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	88	10 - 95
2-Fluorobiphenyl	76	27 - 84
2-Fluorophenol (Surr)	69	21 - 84
Nitrobenzene-d5 (Surr)	78	28 - 92
Phenol-d5 (Surr)	72	22 - 88
Terphenyl-d14 (Surr)	81	16 - 114

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-358732

Method: 8270D
Preparation: 3546

MS Lab Sample ID: 460-110906-A-2-B MS	Analysis Batch: 460-359315	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-358732	Lab File ID: x12288.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0233 g
Analysis Date: 03/29/2016 1405		Final Weight/Volume: 1 mL
Prep Date: 03/25/2016 1426		Injection Volume: 1 uL
Leach Date: N/A		

MSD Lab Sample ID: 460-110906-A-2-C MSD	Analysis Batch: 460-359315	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-358732	Lab File ID: x12289.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0271 g
Analysis Date: 03/29/2016 1430		Final Weight/Volume: 1 mL
Prep Date: 03/25/2016 1426		Injection Volume: 1 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1'-Biphenyl	61	69	64 - 103	12	30	*	
1,2,4,5-Tetrachlorobenzene	59	67	62 - 109	14	30	*	
2,2'-oxybis[1-chloropropane]	55	62	42 - 119	11	30		
2,3,4,6-Tetrachlorophenol	38	44	57 - 113	15	30	*	*
2,4,5-Trichlorophenol	39	46	59 - 105	17	30	*	*
2,4,6-Trichlorophenol	47	54	61 - 107	12	30	*	*
2,4-Dichlorophenol	51	59	59 - 99	13	30	*	
2,4-Dimethylphenol	60	68	60 - 98	12	30		
2,4-Dinitrophenol	5	6	26 - 137	27	30	*	*
2,4-Dinitrotoluene	76	85	61 - 118	10	30		
2,6-Dinitrotoluene	71	80	63 - 112	13	30		
2-Chloronaphthalene	60	68	63 - 102	13	30	*	
2-Chlorophenol	54	61	58 - 95	12	30	*	
2-Methylnaphthalene	63	71	64 - 102	12	30	*	
2-Methylphenol	62	68	56 - 99	10	30		
2-Nitroaniline	63	71	46 - 113	13	30		
2-Nitrophenol	43	49	63 - 103	12	30	*	*
3,3'-Dichlorobenzidine	27	30	18 - 92	12	30		
3-Nitroaniline	36	41	23 - 89	13	30		
4,6-Dinitro-2-methylphenol	11	17	51 - 124	39	30	*	*
4-Bromophenyl phenyl ether	68	79	65 - 114	15	30		
4-Chloro-3-methylphenol	66	73	58 - 108	10	30		
4-Chloroaniline	17	20	10 - 82	17	30		
4-Chlorophenyl phenyl ether	69	78	63 - 107	12	30		
4-Methylphenol	61	68	53 - 103	11	30		
4-Nitroaniline	47	52	44 - 109	9	30		
4-Nitrophenol	45	56	45 - 125	21	30		
Acenaphthene	60	67	59 - 102	11	30		
Acenaphthylene	64	72	63 - 102	13	30		
Acetophenone	68	75	56 - 107	11	30		
Anthracene	66	76	66 - 105	14	30		
Atrazine	79	89	41 - 116	12	30		

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-358732**

**Method: 8270D
Preparation: 3546**

MS Lab Sample ID: 460-110906-A-2-B MS	Analysis Batch: 460-359315	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-358732	Lab File ID: x12288.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0233 g
Analysis Date: 03/29/2016 1405		Final Weight/Volume: 1 mL
Prep Date: 03/25/2016 1426		Injection Volume: 1 uL
Leach Date: N/A		

MSD Lab Sample ID: 460-110906-A-2-C MSD	Analysis Batch: 460-359315	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-358732	Lab File ID: x12289.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0271 g
Analysis Date: 03/29/2016 1430		Final Weight/Volume: 1 mL
Prep Date: 03/25/2016 1426		Injection Volume: 1 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzaldehyde	46	53	55 - 116	15	30	*	*
Benzo[a]anthracene	64	70	65 - 106	10	30	*	
Benzo[a]pyrene	67	76	68 - 111	13	30	*	
Benzo[b]fluoranthene	70	77	67 - 116	10	30		
Benzo[g,h,i]perylene	62	76	49 - 124	20	30		
Benzo[k]fluoranthene	64	69	65 - 114	8	30	*	
Bis(2-chloroethoxy)methane	63	72	61 - 102	14	30		
Bis(2-chloroethyl)ether	61	67	58 - 102	11	30		
Bis(2-ethylhexyl) phthalate	71	79	60 - 125	10	30		
Butyl benzyl phthalate	71	79	62 - 123	11	30		
Caprolactam	39	46	44 - 129	17	30	*	
Carbazole	57	66	62 - 107	13	30	*	
Chrysene	65	75	64 - 105	14	30		
Dibenz(a,h)anthracene	76	88	54 - 126	15	30		
Dibenzofuran	65	74	62 - 102	12	30		
Diethyl phthalate	76	85	61 - 110	11	30		
Dimethyl phthalate	72	81	64 - 108	12	30		
Di-n-butyl phthalate	76	86	62 - 114	11	30		
Di-n-octyl phthalate	70	75	52 - 137	7	30		
Fluoranthene	70	79	59 - 109	11	30		
Fluorene	69	76	65 - 108	9	30		
Hexachlorobenzene	70	79	65 - 117	11	30		
Hexachlorobutadiene	59	66	60 - 105	12	30	*	
Hexachlorocyclopentadiene	21	27	37 - 119	23	30	*	*
Hexachloroethane	55	63	60 - 94	13	30	*	
Indeno[1,2,3-cd]pyrene	68	85	50 - 134	22	30		
Isophorone	67	75	60 - 102	11	30		
Naphthalene	60	69	64 - 99	13	30	*	
Nitrobenzene	58	67	59 - 102	14	30	*	
N-Nitrosodi-n-propylamine	69	76	56 - 112	10	30		
N-Nitrosodiphenylamine	63	72	71 - 119	14	30	*	
Pentachlorophenol	18	25	47 - 115	30	30	*	*

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 460-358732

Method: 8270D
Preparation: 3546

MS Lab Sample ID: 460-110906-A-2-B MS	Analysis Batch: 460-359315	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-358732	Lab File ID: x12288.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0233 g
Analysis Date: 03/29/2016 1405		Final Weight/Volume: 1 mL
Prep Date: 03/25/2016 1426		Injection Volume: 1 uL
Leach Date: N/A		

MSD Lab Sample ID: 460-110906-A-2-C MSD	Analysis Batch: 460-359315	Instrument ID: CBNAMS5
Client Matrix: Solid	Prep Batch: 460-358732	Lab File ID: x12289.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 15.0271 g
Analysis Date: 03/29/2016 1430		Final Weight/Volume: 1 mL
Prep Date: 03/25/2016 1426		Injection Volume: 1 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phenanthrene	65	74	66 - 105	13	30	*	
Phenol	56	62	55 - 99	9	30		
Pyrene	61	70	55 - 126	13	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
2,4,6-Tribromophenol (Surr)	54		59	10 - 95			
2-Fluorobiphenyl	59		67	27 - 84			
2-Fluorophenol (Surr)	46		52	21 - 84			
Nitrobenzene-d5 (Surr)	55		64	28 - 92			
Phenol-d5 (Surr)	54		60	22 - 88			
Terphenyl-d14 (Surr)	65		71	16 - 114			

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Method Blank - Batch: 460-358778

Method: 6010C

Preparation: 3050B

Lab Sample ID: MB 460-358778/1-A ^2
 Client Matrix: Solid
 Dilution: 2.0
 Analysis Date: 03/29/2016 1603
 Prep Date: 03/25/2016 1850
 Leach Date: N/A

Analysis Batch: 460-359469
 Prep Batch: 460-358778
 Leach Batch: N/A
 Units: mg/Kg

Instrument ID: ICP5
 Lab File ID: 03292016.asc
 Initial Weight/Volume: 1.00 g
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	10.3	20.0
Antimony	2.0	U	0.79	2.0
Arsenic	1.5	U	0.49	1.5
Barium	20.0	U	0.72	20.0
Beryllium	0.20	U	0.17	0.20
Cadmium	0.40	U	0.21	0.40
Calcium	500	U	29.6	500
Chromium	1.0	U	0.48	1.0
Cobalt	5.0	U	0.58	5.0
Copper	2.5	U	0.65	2.5
Iron	15.0	U	11.3	15.0
Lead	1.0	U	0.39	1.0
Magnesium	500	U	25.0	500
Manganese	1.5	U	0.53	1.5
Nickel	4.0	U	0.73	4.0
Potassium	500	U	15.2	500
Selenium	2.0	U	0.69	2.0
Silver	1.0	U	0.18	1.0
Sodium	500	U	33.9	500
Thallium	2.0	U	0.89	2.0
Vanadium	5.0	U	0.50	5.0
Zinc	3.0	U	0.73	3.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

LCS-Certified Reference Material - Batch: 460-358778

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-358778/2-~~A~~ Analysis Batch: 460-359469
 Client Matrix: Solid Prep Batch: 460-358778
 Dilution: 4.0 Leach Batch: N/A
 Analysis Date: 03/29/2016 1607 Units: mg/Kg
 Prep Date: 03/25/2016 1850
 Leach Date: N/A

Instrument ID: ICP5
 Lab File ID: 03292016.asc
 Initial Weight/Volume: 1.00 g
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	7930	7150	90.2	50.2 - 150.1	
Antimony	105	46.56	44.3	0.1 - 201.0	
Arsenic	98.5	94.92	96.4	77.8 - 122.8	
Barium	308	309.6	100.5	82.5 - 117.5	
Beryllium	66.0	65.08	98.6	83.0 - 116.8	
Cadmium	146	145.0	99.3	82.9 - 117.8	
Calcium	6610	6328	95.7	83.7 - 116.2	
Chromium	182	183.5	100.8	79.7 - 120.3	
Cobalt	162	162.3	100.2	83.3 - 116.0	
Copper	106	103.1	97.2	81.5 - 118.9	
Iron	14400	13520	93.9	44.1 - 155.6	
Lead	130	134.3	103.3	82.3 - 117.7	
Magnesium	2640	2472	93.6	75.8 - 124.6	
Manganese	410	414.8	101.2	81.2 - 119.0	
Nickel	149	153.8	103.2	82.6 - 117.4	
Potassium	2550	2334	91.5	69.0 - 130.6	
Selenium	154	144.5	93.8	77.9 - 122.1	
Silver	40.9	37.80	92.4	75.1 - 124.7	
Sodium	2480	2396	96.6	70.6 - 129.0	
Thallium	175	183.8	105.0	78.3 - 121.1	
Vanadium	96.7	92.40	95.6	77.2 - 123.1	
Zinc	191	189.2	99.0	83.2 - 116.8	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Matrix Spike - Batch: 460-358778

Method: 6010C
Preparation: 3050B

Lab Sample ID:	460-110937-G-1-C MS ^4	Analysis Batch:	460-359469	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-358778	Lab File ID:	03292016.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.33 g
Analysis Date:	03/29/2016 1537	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/25/2016 1850				
Leach Date:	N/A				

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6230		162	7705	915	75 - 125	4
Antimony	3.4	U	40.5	20.68	51	75 - 125	N
Arsenic	2.3	J	162	149.2	91	75 - 125	
Barium	66.7		162	217.6	93	75 - 125	
Beryllium	0.37		4.05	4.46	101	75 - 125	
Cadmium	0.69	U	4.05	3.94	97	75 - 125	
Calcium	1020		1620	2565	95	75 - 125	
Chromium	11.7		16.2	28.49	103	75 - 125	
Cobalt	5.1	J	40.5	45.44	100	75 - 125	
Copper	16.0		20.2	35.13	94	75 - 125	
Iron	12800		80.9	12570	-288	75 - 125	4
Lead	5.5		40.5	45.10	98	75 - 125	
Magnesium	2630		1620	4459	113	75 - 125	
Manganese	422		40.5	484.6	155	75 - 125	4
Nickel	12.1		40.5	52.94	101	75 - 125	
Potassium	949		1620	2608	103	75 - 125	
Selenium	3.4	U	162	146.0	90	75 - 125	
Silver	1.7	U	4.05	3.74	92	75 - 125	
Sodium	65.3	J	1620	1605	95	75 - 125	
Thallium	3.4	U	162	161.6	100	75 - 125	
Vanadium	16.0		40.5	55.94	99	75 - 125	
Zinc	27.6		40.5	68.90	102	75 - 125	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Duplicate - Batch: 460-358778

Method: 6010C
Preparation: 3050B

Lab Sample ID:	460-110937-G-1-B DU ^4	Analysis Batch:	460-359469	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-358778	Lab File ID:	03292016.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.28 g
Analysis Date:	03/29/2016 1541	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/25/2016 1850				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Aluminum	6230	7414	17	20	
Antimony	3.4 U	3.4	NC	20	U
Arsenic	2.3 J	2.90	25	20	
Barium	66.7	72.53	8	20	
Beryllium	0.37	0.472	23	20	
Cadmium	0.69 U	0.67	NC	20	U
Calcium	1020	1126	10	20	
Chromium	11.7	13.04	10	20	
Cobalt	5.1 J	6.40	23	20	J
Copper	16.0	19.91	22	20	
Iron	12800	15310	18	20	
Lead	5.5	6.43	15	20	
Magnesium	2630	3085	16	20	
Manganese	422	491.3	15	20	
Nickel	12.1	15.92	27	20	
Potassium	949	1218	25	20	
Selenium	3.4 U	3.4	NC	20	U
Silver	1.7 U	1.7	NC	20	U
Sodium	65.3 J	77.78	17	20	J
Thallium	3.4 U	3.4	NC	20	U
Vanadium	16.0	18.63	15	20	
Zinc	27.6	32.87	17	20	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Method Blank - Batch: 460-358958

Method: 6010C
Preparation: 3010A

Lab Sample ID:	MB 460-358958/1-A	Analysis Batch:	460-359174	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	460-358958	Lab File ID:	03282016.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2016 1255	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2016 2020				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	15.0	U	4.4	15.0
Barium	200	U	5.5	200
Cadmium	4.0	U	2.3	4.0
Chromium	10.0	U	4.5	10.0
Lead	10.0	U	4.2	10.0
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0

TCLP SPLPE Leachate Blank - Batch: 460-358958

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	LB 460-358764/1-D ^5	Analysis Batch:	460-359174	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-358958	Lab File ID:	03282016.asc
Dilution:	5.0	Leach Batch:	460-358764	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2016 1259	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2016 2020				
Leach Date:	03/25/2016 1700				

Analyte	Result	Qual	MDL	RL
Arsenic	75.0	U	22.1	75.0
Barium	1000	U	27.5	1000
Cadmium	20.0	U	11.6	20.0
Chromium	50.0	U	22.5	50.0
Lead	50.0	U	20.8	50.0
Selenium	100	U	33.8	100
Silver	50.0	U	9.3	50.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Lab Control Sample - Batch: 460-358958

Method: 6010C
Preparation: 3010A

Lab Sample ID:	LCS 460-358958/2-A ^2	Analysis Batch:	460-359174	Instrument ID:	ICP5
Client Matrix:	Water	Prep Batch:	460-358958	Lab File ID:	03282016.asc
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2016 1311	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2016 2020				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	5000	4792	96	80 - 120	
Barium	10000	9944	99	80 - 120	
Cadmium	1000	1037	104	80 - 120	
Chromium	5000	5002	100	80 - 120	
Lead	5000	4986	100	80 - 120	
Selenium	1000	988.4	99	80 - 120	
Silver	500	474.8	95	80 - 120	

Matrix Spike - Batch: 460-358958

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	460-110825-B-1-I MS ^5	Analysis Batch:	460-359174	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-358958	Lab File ID:	03282016.asc
Dilution:	5.0	Leach Batch:	460-358764	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2016 1240	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2016 2020				
Leach Date:	03/25/2016 1700				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	75.0	U	5000	5045	101	75 - 125	
Barium	469	J	10000	10730	103	75 - 125	
Cadmium	20.0	U	1000	1085	109	75 - 125	
Chromium	50.0	U	5000	5130	103	75 - 125	
Lead	678		5000	5865	104	75 - 125	
Selenium	100	U	1000	1044	104	75 - 125	
Silver	50.0	U	500	491.3	98	75 - 125	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Duplicate - Batch: 460-358958

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	460-110825-B-1-H DU ^5	Analysis Batch:	460-359174	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-358958	Lab File ID:	03282016.asc
Dilution:	5.0	Leach Batch:	460-358764	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2016 1244	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2016 2020				
Leach Date:	03/25/2016 1700				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	75.0	U	27.29	NC	20	J
Barium	469	J	465.1	0.9	20	J
Cadmium	20.0	U	20.0	NC	20	U
Chromium	50.0	U	50.0	NC	20	U
Lead	678		666.0	2	20	
Selenium	100	U	100	NC	20	U
Silver	50.0	U	50.0	NC	20	U

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Method Blank - Batch: 460-359319

Method: 6010C

Preparation: 3050B

Lab Sample ID: MB 460-359319/1-A ^2
Client Matrix: Solid
Dilution: 2.0
Analysis Date: 03/29/2016 1453
Prep Date: 03/29/2016 0501
Leach Date: N/A

Analysis Batch: 460-359469
Prep Batch: 460-359319
Leach Batch: N/A
Units: mg/Kg

Instrument ID: ICP5
Lab File ID: 03292016.asc
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	10.3	20.0
Antimony	2.0	U	0.79	2.0
Arsenic	1.5	U	0.49	1.5
Barium	20.0	U	0.72	20.0
Beryllium	0.20	U	0.17	0.20
Cadmium	0.40	U	0.21	0.40
Calcium	500	U	29.6	500
Chromium	1.0	U	0.48	1.0
Cobalt	5.0	U	0.58	5.0
Copper	2.5	U	0.65	2.5
Iron	15.0	U	11.3	15.0
Lead	1.0	U	0.39	1.0
Magnesium	500	U	25.0	500
Manganese	1.5	U	0.53	1.5
Nickel	4.0	U	0.73	4.0
Potassium	500	U	15.2	500
Selenium	2.0	U	0.69	2.0
Silver	1.0	U	0.18	1.0
Sodium	500	U	33.9	500
Thallium	2.0	U	0.89	2.0
Vanadium	5.0	U	0.50	5.0
Zinc	3.0	U	0.73	3.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

LCS-Certified Reference Material - Batch: 460-359319

Method: 6010C

Preparation: 3050B

Lab Sample ID: LCSSRM 460-359319/2-~~A~~ Analysis Batch: 460-359469
 Client Matrix: Solid Prep Batch: 460-359319
 Dilution: 4.0 Leach Batch: N/A
 Analysis Date: 03/29/2016 1508 Units: mg/Kg
 Prep Date: 03/29/2016 0501
 Leach Date: N/A

Instrument ID: ICP5
 Lab File ID: 03292016.asc
 Initial Weight/Volume: 1.00 g
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	7930	6982	88.0	50.2 - 150.1	
Antimony	105	79.60	75.8	0.1 - 201.0	
Arsenic	98.5	93.96	95.4	77.8 - 122.8	
Barium	308	309.0	100.3	82.5 - 117.5	
Beryllium	66.0	65.36	99.0	83.0 - 116.8	
Cadmium	146	148.6	101.8	82.9 - 117.8	
Calcium	6610	6236	94.3	83.7 - 116.2	
Chromium	182	181.9	100	79.7 - 120.3	
Cobalt	162	165.1	101.9	83.3 - 116.0	
Copper	106	101.4	95.7	81.5 - 118.9	
Iron	14400	13390	93.0	44.1 - 155.6	
Lead	130	128.1	98.5	82.3 - 117.7	
Magnesium	2640	2394	90.7	75.8 - 124.6	
Manganese	410	411.8	100.4	81.2 - 119.0	
Nickel	149	155.8	104.6	82.6 - 117.4	
Potassium	2550	2246	88.1	69.0 - 130.6	
Selenium	154	146.9	95.4	77.9 - 122.1	
Silver	40.9	37.54	91.8	75.1 - 124.7	
Sodium	2480	2552	102.9	70.6 - 129.0	
Thallium	175	188.5	107.7	78.3 - 121.1	
Vanadium	96.7	94.48	97.7	77.2 - 123.1	
Zinc	191	189.7	99.3	83.2 - 116.8	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Matrix Spike - Batch: 460-359319

Method: 6010C
Preparation: 3050B

Lab Sample ID:	460-110936-D-10-G MS ^	Analysis Batch:	460-359469	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-359319	Lab File ID:	03292016.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/29/2016 1438	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/29/2016 0501				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	13600	242	15610	842	75 - 125	4
Antimony	4.8 U	60.5	32.05	53	75 - 125	N
Arsenic	26.3	242	247.9	92	75 - 125	
Barium	64.9	242	301.6	98	75 - 125	
Beryllium	1.1	6.05	7.16	101	75 - 125	
Cadmium	0.72 J	6.05	6.48	95	75 - 125	
Calcium	2080	2420	4275	91	75 - 125	
Chromium	66.6	24.2	92.58	107	75 - 125	
Cobalt	15.9	60.5	73.12	95	75 - 125	
Copper	38.6	30.3	67.68	96	75 - 125	
Iron	28600	121	29310	600	75 - 125	4
Lead	104	60.5	153.7	82	75 - 125	
Magnesium	3770	2420	6102	96	75 - 125	
Manganese	892	60.5	812.6	-132	75 - 125	4
Nickel	26.7	60.5	85.93	98	75 - 125	
Potassium	2470	2420	4846	98	75 - 125	
Selenium	2.1 J	242	223.0	91	75 - 125	
Silver	2.4 U	6.05	5.77	95	75 - 125	
Sodium	104 J	2420	2430	96	75 - 125	
Thallium	4.8 U	242	241.1	100	75 - 125	
Vanadium	48.6	60.5	109.8	101	75 - 125	
Zinc	282	60.5	321.7	66	75 - 125	4

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Duplicate - Batch: 460-359319

Method: 6010C
Preparation: 3050B

Lab Sample ID:	460-110936-A-10-B DU ^	Analysis Batch:	460-359469	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-359319	Lab File ID:	03292016.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	03/29/2016 1441	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/29/2016 0501				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	13600		12760	6	20	
Antimony	4.8	U	4.8	NC	20	U
Arsenic	26.3		25.34	4	20	
Barium	64.9		61.46	5	20	
Beryllium	1.1		0.986	9	20	
Cadmium	0.72	J	0.641	11	20	J
Calcium	2080		1860	11	20	
Chromium	66.6		62.21	7	20	
Cobalt	15.9		14.05	12	20	
Copper	38.6		36.45	6	20	
Iron	28600		27090	5	20	
Lead	104		94.66	9	20	
Magnesium	3770		3539	6	20	
Manganese	892		766.3	15	20	
Nickel	26.7		23.76	12	20	
Potassium	2470		2305	7	20	
Selenium	2.1	J	4.8	NC	20	U
Silver	2.4	U	2.4	NC	20	U
Sodium	104	J	98.56	6	20	J
Thallium	4.8	U	4.8	NC	20	U
Vanadium	48.6		45.87	6	20	
Zinc	282		249.8	12	20	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-110987-1

Duplicate - Batch: 460-359187

Method: Moisture Preparation: N/A

Lab Sample ID:	460-110987-1	Analysis Batch:	460-359187	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2016 1452	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.8	7.5	9	20	
Percent Solids	93.2	92.5	0.7	20	

10987

Cooler Temperatures

RAW		CORRECTED		RAW		CORRECTED		RAW		CORRECTED		
Cooler #1:	1.6 °C	1.0 °C			Cooler #4:	°C	°C			Cooler #7:	°C	°C
Cooler #2:	°C	°C			Cooler #5:	°C	°C			Cooler #8:	°C	°C
Cooler #3:	°C	°C			Cooler #6:	°C	°C			Cooler #9:	°C	°C

[illegible]

Date: 5/29/16

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-110987-1

Login Number: 110987

List Source: TestAmerica Edison

List Number: 1

Creator: Hall, Alonzo

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
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	2.0° C IR #6
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.