

ANALYTICAL REPORT

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Laboratory Job ID: 460-182074-1

Client Project/Site: 60584654, Penn Yan Former MGP Phase 2

For:

AECOM
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Authorized for release by:
5/20/2019 4:09:53 PM

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

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

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Definitions/Glossary

Client: AECOM

Job ID: 460-182074-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

Case Narrative

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-182074-1

Receipt

The sample was received on 5/16/2019 9:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

Receipt Exceptions

The following samples analyzed for method 8260C were received and analyzed from an unpreserved bulk soil jar

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-611084 recovered above the upper control limit for Chloroform, Freon TF and Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-611084 recovered outside control limits for the following analytes: Chloroform, Trichloroethene and Dichlorodifluoromethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 460-610691 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-610645 and analytical batch 460-610691 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, Benzo[b]fluoranthene, 2,4-Dichlorophenol, 4,6-Dinitro-2-methylphenol, 2-Chlorophenol and 2-Nitrophenol. The data have been reported.

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

Organic Prep

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

VOA Prep

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

Detection Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

Client Sample ID: PWEXBM04145

Lab Sample ID: 460-182074-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16		5.6	4.3	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	5.1	B	1.1	0.18	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	0.94	J	2.2	0.28	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	8.6	J	380	4.7	ug/Kg	1	✱	8270D	Total/NA
Anthracene	42	J	380	4.2	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	53		38	13	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	30	J	38	10	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	52	*	38	9.8	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	27	J	38	7.4	ug/Kg	1	✱	8270D	Total/NA
Chrysene	51	J	380	6.4	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	140	J	380	4.9	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	19	J	38	15	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	120	J	380	6.6	ug/Kg	1	✱	8270D	Total/NA
Pyrene	100	J	380	9.4	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

Client Sample ID: PWEXBM04145

Lab Sample ID: 460-182074-1

Date Collected: 05/15/19 13:20

Matrix: Solid

Date Received: 05/16/19 09:15

Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.24	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.34	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,1,2-Trichloroethane	ND		1.1	0.20	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,1-Dichloroethane	ND		1.1	0.23	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,1-Dichloroethene	ND		1.1	0.25	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,2,4-Trichlorobenzene	ND		1.1	0.10	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.52	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,2-Dibromoethane	ND		1.1	0.20	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,2-Dichlorobenzene	ND		1.1	0.16	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,2-Dichloroethane	ND		1.1	0.33	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,2-Dichloropropane	ND		1.1	0.48	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,3-Dichlorobenzene	ND		1.1	0.18	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
1,4-Dichlorobenzene	ND		1.1	0.11	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
2-Butanone (MEK)	ND		5.6	1.2	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
2-Hexanone	ND		5.6	0.88	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.6	0.75	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Acetone	16		5.6	4.3	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Benzene	ND		1.1	0.29	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Bromodichloromethane	ND		1.1	0.29	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Bromoform	ND		1.1	0.48	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Bromomethane	ND		1.1	0.53	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Carbon disulfide	ND		1.1	0.30	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Carbon tetrachloride	ND		1.1	0.20	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Chlorobenzene	ND		1.1	0.20	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Chloroethane	ND		1.1	0.59	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Chloroform	ND *		1.1	0.36	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Chloromethane	ND		1.1	0.49	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
cis-1,2-Dichloroethene	ND		1.1	0.17	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
cis-1,3-Dichloropropene	ND		1.1	0.31	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Cyclohexane	ND		1.1	0.25	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Dibromochloromethane	ND		1.1	0.22	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Dichlorodifluoromethane	ND *		1.1	0.38	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Methyl acetate	ND		5.6	4.8	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Methyl tert-butyl ether	ND		1.1	0.14	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Methylcyclohexane	ND		1.1	0.18	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Methylene Chloride	5.1 B		1.1	0.18	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Styrene	ND		1.1	0.14	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Tetrachloroethene	ND		1.1	0.16	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Toluene	ND		1.1	0.70	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
trans-1,2-Dichloroethene	ND		1.1	0.28	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
trans-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Trichloroethene	ND *		1.1	0.16	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Trichlorofluoromethane	ND		1.1	0.46	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Vinyl chloride	ND		1.1	0.61	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1
Xylenes, Total	0.94 J		2.2	0.28	ug/Kg	☼	05/17/19 23:52	05/19/19 14:47	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

Client Sample ID: PWEXBM04145

Lab Sample ID: 460-182074-1

Date Collected: 05/15/19 13:20

Matrix: Solid

Date Received: 05/16/19 09:15

Percent Solids: 87.7

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			05/17/19 23:52	05/19/19 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		78 - 135				05/17/19 23:52	05/19/19 14:47	1
4-Bromofluorobenzene	96		67 - 126				05/17/19 23:52	05/19/19 14:47	1
Dibromofluoromethane (Surr)	119		61 - 149				05/17/19 23:52	05/19/19 14:47	1
Toluene-d8 (Surr)	88		73 - 121				05/17/19 23:52	05/19/19 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		380	12	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2,4,6-Trichlorophenol	ND		150	19	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2,4-Dichlorophenol	ND	*	150	8.0	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2,4-Dimethylphenol	ND		380	17	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2,4-Dinitrophenol	ND		300	190	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2,4-Dinitrotoluene	ND		76	19	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2,6-Dinitrotoluene	ND		76	12	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2-Chloronaphthalene	ND		380	17	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2-Chlorophenol	ND	*	380	5.3	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2-Methylnaphthalene	8.6	J	380	4.7	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2-Methylphenol	ND		380	6.1	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2-Nitroaniline	ND		380	14	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
2-Nitrophenol	ND	*	380	12	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
3,3'-Dichlorobenzidine	ND	*	150	57	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
3-Nitroaniline	ND		380	20	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4,6-Dinitro-2-methylphenol	ND	*	300	61	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4-Bromophenyl phenyl ether	ND		380	4.9	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4-Chloro-3-methylphenol	ND		380	6.3	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4-Chloroaniline	ND		380	26	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4-Chlorophenyl phenyl ether	ND		380	5.9	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4-Methylphenol	ND		380	6.4	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4-Nitroaniline	ND		380	14	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
4-Nitrophenol	ND		760	61	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Acenaphthene	ND		380	27	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Acenaphthylene	ND		380	3.9	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Acetophenone	ND		380	6.1	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Anthracene	42	J	380	4.2	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Atrazine	ND		150	9.5	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Benzaldehyde	ND		380	16	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Benzo[a]anthracene	53		38	13	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Benzo[a]pyrene	30	J	38	10	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Benzo[b]fluoranthene	52	*	38	9.8	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Benzo[g,h,i]perylene	ND		380	11	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Benzo[k]fluoranthene	27	J	38	7.4	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Biphenyl	ND		380	5.0	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
bis (2-chloroisopropyl) ether	ND		380	6.8	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Bis(2-chloroethoxy)methane	ND		380	13	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Bis(2-chloroethyl)ether	ND		38	4.6	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Bis(2-ethylhexyl) phthalate	ND		380	20	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Butyl benzyl phthalate	ND		380	18	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

Client Sample ID: PWEXBM04145

Lab Sample ID: 460-182074-1

Date Collected: 05/15/19 13:20

Matrix: Solid

Date Received: 05/16/19 09:15

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		380	23	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Carbazole	ND		380	4.4	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Chrysene	51	J	380	6.4	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Dibenz(a,h)anthracene	ND		38	16	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Dibenzofuran	ND		380	5.3	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Diethyl phthalate	ND		380	5.5	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Dimethyl phthalate	ND		380	4.5	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Di-n-butyl phthalate	ND		380	67	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Di-n-octyl phthalate	ND		380	20	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Fluoranthene	140	J	380	4.9	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Fluorene	ND		380	5.1	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Hexachlorobenzene	ND		38	5.5	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Hexachlorobutadiene	ND		76	8.0	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Hexachlorocyclopentadiene	ND		380	33	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Hexachloroethane	ND		38	5.8	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Indeno[1,2,3-cd]pyrene	19	J	38	15	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Isophorone	ND		150	9.9	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Naphthalene	ND		380	6.5	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Nitrobenzene	ND		38	9.1	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
N-Nitrosodi-n-propylamine	ND		38	6.0	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
N-Nitrosodiphenylamine	ND		380	7.2	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Pentachlorophenol	ND		300	77	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Phenanthrene	120	J	380	6.6	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Phenol	ND		380	5.6	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1
Pyrene	100	J	380	9.4	ug/Kg	☼	05/16/19 21:57	05/17/19 12:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	550	T J	ug/Kg	☼	4.30		05/16/19 21:57	05/17/19 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		10 - 137	05/16/19 21:57	05/17/19 12:01	1
2-Fluorobiphenyl (Surr)	73		29 - 107	05/16/19 21:57	05/17/19 12:01	1
2-Fluorophenol (Surr)	68		20 - 115	05/16/19 21:57	05/17/19 12:01	1
Nitrobenzene-d5 (Surr)	71		25 - 113	05/16/19 21:57	05/17/19 12:01	1
Phenol-d5 (Surr)	69		28 - 109	05/16/19 21:57	05/17/19 12:01	1
Terphenyl-d14 (Surr)	77		27 - 123	05/16/19 21:57	05/17/19 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		1.0	1.0	%			05/16/19 14:26	1
Percent Solids	87.7		1.0	1.0	%			05/16/19 14:26	1

Eurofins TestAmerica, Edison

Surrogate Summary

Client: AECOM

Job ID: 460-182074-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (78-135)	BFB (67-126)	DBFM (61-149)	TOL (73-121)
460-182074-1	PWEXBM04145	122	96	119	88
LB3 460-610941/1-A	Method Blank	107	91	111	86
LCS 460-611084/3	Lab Control Sample	105	92	108	87
LCSD 460-611084/4	Lab Control Sample Dup	108	94	109	89
MB 460-611084/8	Method Blank	110	93	112	88

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (10-137)	FBP (29-107)	2FP (20-115)	NBZ (25-113)	PHL (28-109)	TPHL (27-123)
460-182074-1	PWEXBM04145	69	73	68	71	69	77
LCS 460-610645/2-A	Lab Control Sample	118	100	98	97	98	98
LCS 460-610645/4-A	Lab Control Sample	120	105	103	98	95	106
LCSD 460-610645/3-A	Lab Control Sample Dup	120	103	97	98	99	100
MB 460-610645/1-A	Method Blank	115	101	97	97	91	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-610941/1-A

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 610941

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
2-Hexanone	ND		5.0	0.78	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Acetone	ND		5.0	3.8	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Benzene	ND		1.0	0.26	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Bromoform	ND		1.0	0.43	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Bromomethane	ND		1.0	0.47	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Carbon disulfide	ND		1.0	0.27	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Chlorobenzene	ND		1.0	0.18	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Chloroethane	ND		1.0	0.52	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Chloroform	ND		1.0	0.32	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Chloromethane	ND		1.0	0.44	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Cyclohexane	ND		1.0	0.22	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Ethylbenzene	ND		1.0	0.20	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Methyl acetate	ND		5.0	4.3	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Methylene Chloride	0.390	J	1.0	0.16	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Styrene	ND		1.0	0.12	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Toluene	ND		1.0	0.63	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Trichloroethene	ND		1.0	0.14	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Vinyl chloride	ND		1.0	0.55	ug/Kg		05/17/19 23:50	05/19/19 14:22	1
Xylenes, Total	ND		2.0	0.25	ug/Kg		05/17/19 23:50	05/19/19 14:22	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: LB3 460-610941/1-A

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 610941

	LB3	LB3							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				05/17/19 23:50	05/19/19 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135				05/17/19 23:50	05/19/19 14:22	1
4-Bromofluorobenzene	91		67 - 126				05/17/19 23:50	05/19/19 14:22	1
Dibromofluoromethane (Surr)	111		61 - 149				05/17/19 23:50	05/19/19 14:22	1
Toluene-d8 (Surr)	86		73 - 121				05/17/19 23:50	05/19/19 14:22	1

Lab Sample ID: MB 460-611084/8

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			05/19/19 07:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			05/19/19 07:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			05/19/19 07:16	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			05/19/19 07:16	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			05/19/19 07:16	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			05/19/19 07:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			05/19/19 07:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			05/19/19 07:16	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			05/19/19 07:16	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			05/19/19 07:16	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			05/19/19 07:16	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			05/19/19 07:16	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			05/19/19 07:16	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			05/19/19 07:16	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			05/19/19 07:16	1
2-Hexanone	ND		5.0	0.78	ug/Kg			05/19/19 07:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			05/19/19 07:16	1
Acetone	ND		5.0	3.8	ug/Kg			05/19/19 07:16	1
Benzene	ND		1.0	0.26	ug/Kg			05/19/19 07:16	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			05/19/19 07:16	1
Bromoform	ND		1.0	0.43	ug/Kg			05/19/19 07:16	1
Bromomethane	ND		1.0	0.47	ug/Kg			05/19/19 07:16	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			05/19/19 07:16	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			05/19/19 07:16	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			05/19/19 07:16	1
Chloroethane	ND		1.0	0.52	ug/Kg			05/19/19 07:16	1
Chloroform	ND		1.0	0.32	ug/Kg			05/19/19 07:16	1
Chloromethane	ND		1.0	0.44	ug/Kg			05/19/19 07:16	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			05/19/19 07:16	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/19/19 07:16	1
Cyclohexane	ND		1.0	0.22	ug/Kg			05/19/19 07:16	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			05/19/19 07:16	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			05/19/19 07:16	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			05/19/19 07:16	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			05/19/19 07:16	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: MB 460-611084/8

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		5.0	4.3	ug/Kg			05/19/19 07:16	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			05/19/19 07:16	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			05/19/19 07:16	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			05/19/19 07:16	1
Styrene	ND		1.0	0.12	ug/Kg			05/19/19 07:16	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			05/19/19 07:16	1
Toluene	ND		1.0	0.63	ug/Kg			05/19/19 07:16	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			05/19/19 07:16	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/19/19 07:16	1
Trichloroethene	ND		1.0	0.14	ug/Kg			05/19/19 07:16	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			05/19/19 07:16	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			05/19/19 07:16	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			05/19/19 07:16	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg					05/19/19 07:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		78 - 135		05/19/19 07:16	1
4-Bromofluorobenzene	93		67 - 126		05/19/19 07:16	1
Dibromofluoromethane (Surr)	112		61 - 149		05/19/19 07:16	1
Toluene-d8 (Surr)	88		73 - 121		05/19/19 07:16	1

Lab Sample ID: LCS 460-611084/3

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	22.3		ug/Kg		112	80 - 125
1,1,1,2-Tetrachloroethane	20.0	17.5		ug/Kg		87	72 - 131
1,1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.7		ug/Kg		119	78 - 132
1,1,2-Trichloroethane	20.0	18.5		ug/Kg		93	76 - 124
1,1-Dichloroethane	20.0	22.1		ug/Kg		111	80 - 124
1,1-Dichloroethene	20.0	22.1		ug/Kg		111	79 - 132
1,2,4-Trichlorobenzene	20.0	20.0		ug/Kg		100	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.1		ug/Kg		86	65 - 129
1,2-Dibromoethane	20.0	19.6		ug/Kg		98	80 - 122
1,2-Dichlorobenzene	20.0	19.5		ug/Kg		97	80 - 121
1,2-Dichloroethane	20.0	21.5		ug/Kg		107	68 - 120
1,2-Dichloropropane	20.0	21.5		ug/Kg		107	77 - 124
1,3-Dichlorobenzene	20.0	19.0		ug/Kg		95	79 - 124
1,4-Dichlorobenzene	20.0	18.7		ug/Kg		94	79 - 121
2-Butanone (MEK)	100	102		ug/Kg		102	61 - 140
2-Hexanone	100	107		ug/Kg		107	78 - 120
4-Methyl-2-pentanone (MIBK)	100	106		ug/Kg		106	80 - 120
Acetone	100	96.0		ug/Kg		96	75 - 120
Benzene	20.0	19.4		ug/Kg		97	75 - 127

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: LCS 460-611084/3

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	22.2		ug/Kg		111	76 - 129
Bromoform	20.0	18.9		ug/Kg		94	19 - 150
Bromomethane	20.0	20.4		ug/Kg		102	59 - 136
Carbon disulfide	20.0	20.9		ug/Kg		105	74 - 130
Carbon tetrachloride	20.0	22.3		ug/Kg		111	77 - 138
Chlorobenzene	20.0	18.9		ug/Kg		95	80 - 120
Chloroethane	20.0	18.9		ug/Kg		95	50 - 139
Chloroform	20.0	23.3		ug/Kg		116	80 - 122
Chloromethane	20.0	22.3		ug/Kg		112	66 - 128
cis-1,2-Dichloroethene	20.0	22.8		ug/Kg		114	80 - 123
cis-1,3-Dichloropropene	20.0	17.3		ug/Kg		86	75 - 124
Cyclohexane	20.0	23.1		ug/Kg		116	67 - 135
Dibromochloromethane	20.0	18.5		ug/Kg		93	67 - 143
Dichlorodifluoromethane	20.0	28.5	*	ug/Kg		142	72 - 127
Ethylbenzene	20.0	19.7		ug/Kg		98	79 - 124
Isopropylbenzene	20.0	20.6		ug/Kg		103	80 - 125
Methyl acetate	40.0	42.0		ug/Kg		105	73 - 123
Methyl tert-butyl ether	20.0	21.6		ug/Kg		108	80 - 120
Methylcyclohexane	20.0	23.7		ug/Kg		118	71 - 137
Methylene Chloride	20.0	21.4		ug/Kg		107	79 - 128
Styrene	20.0	19.7		ug/Kg		99	78 - 123
Tetrachloroethene	20.0	20.2		ug/Kg		101	73 - 130
Toluene	20.0	18.8		ug/Kg		94	75 - 122
trans-1,2-Dichloroethene	20.0	22.6		ug/Kg		113	80 - 129
trans-1,3-Dichloropropene	20.0	16.8		ug/Kg		84	72 - 121
Trichloroethene	20.0	23.1		ug/Kg		115	79 - 122
Trichlorofluoromethane	20.0	23.0		ug/Kg		115	68 - 136
Vinyl chloride	20.0	21.9		ug/Kg		110	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		78 - 135
4-Bromofluorobenzene	92		67 - 126
Dibromofluoromethane (Surr)	108		61 - 149
Toluene-d8 (Surr)	87		73 - 121

Lab Sample ID: LCSD 460-611084/4

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1-Trichloroethane	20.0	24.6		ug/Kg		123	80 - 125	10	30
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	72 - 131	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	26.2		ug/Kg		131	78 - 132	10	30
1,1,2-Trichloroethane	20.0	19.6		ug/Kg		98	76 - 124	6	30
1,1-Dichloroethane	20.0	23.3		ug/Kg		116	80 - 124	5	30
1,1-Dichloroethene	20.0	24.3		ug/Kg		121	79 - 132	9	30
1,2,4-Trichlorobenzene	20.0	22.3		ug/Kg		112	74 - 124	11	30
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/Kg		98	65 - 129	13	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: LCSD 460-611084/4

Matrix: Solid

Analysis Batch: 611084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	20.9		ug/Kg		105	80 - 122	6	30
1,2-Dichlorobenzene	20.0	21.0		ug/Kg		105	80 - 121	8	30
1,2-Dichloroethane	20.0	23.3		ug/Kg		116	68 - 120	8	30
1,2-Dichloropropane	20.0	23.2		ug/Kg		116	77 - 124	8	30
1,3-Dichlorobenzene	20.0	20.4		ug/Kg		102	79 - 124	7	30
1,4-Dichlorobenzene	20.0	20.4		ug/Kg		102	79 - 121	9	30
2-Butanone (MEK)	100	102		ug/Kg		102	61 - 140	1	30
2-Hexanone	100	114		ug/Kg		114	78 - 120	7	30
4-Methyl-2-pentanone (MIBK)	100	115		ug/Kg		115	80 - 120	9	30
Acetone	100	106		ug/Kg		106	75 - 120	10	30
Benzene	20.0	20.1		ug/Kg		100	75 - 127	3	30
Bromodichloromethane	20.0	24.3		ug/Kg		122	76 - 129	9	30
Bromoform	20.0	20.4		ug/Kg		102	19 - 150	7	30
Bromomethane	20.0	19.8		ug/Kg		99	59 - 136	3	30
Carbon disulfide	20.0	23.0		ug/Kg		115	74 - 130	9	30
Carbon tetrachloride	20.0	24.6		ug/Kg		123	77 - 138	10	30
Chlorobenzene	20.0	20.2		ug/Kg		101	80 - 120	6	30
Chloroethane	20.0	18.5		ug/Kg		93	50 - 139	2	30
Chloroform	20.0	24.9 *		ug/Kg		124	80 - 122	7	30
Chloromethane	20.0	21.8		ug/Kg		109	66 - 128	3	30
cis-1,2-Dichloroethene	20.0	24.1		ug/Kg		120	80 - 123	6	30
cis-1,3-Dichloropropene	20.0	18.4		ug/Kg		92	75 - 124	6	30
Cyclohexane	20.0	24.8		ug/Kg		124	67 - 135	7	30
Dibromochloromethane	20.0	19.6		ug/Kg		98	67 - 143	6	30
Dichlorodifluoromethane	20.0	28.1 *		ug/Kg		141	72 - 127	1	30
Ethylbenzene	20.0	20.9		ug/Kg		104	79 - 124	6	30
Isopropylbenzene	20.0	22.4		ug/Kg		112	80 - 125	8	30
Methyl acetate	40.0	47.3		ug/Kg		118	73 - 123	12	30
Methyl tert-butyl ether	20.0	23.7		ug/Kg		119	80 - 120	9	30
Methylcyclohexane	20.0	25.7		ug/Kg		128	71 - 137	8	30
Methylene Chloride	20.0	23.8		ug/Kg		119	79 - 128	11	30
Styrene	20.0	20.9		ug/Kg		104	78 - 123	6	30
Tetrachloroethene	20.0	20.9		ug/Kg		105	73 - 130	4	30
Toluene	20.0	20.3		ug/Kg		102	75 - 122	8	30
trans-1,2-Dichloroethene	20.0	24.1		ug/Kg		120	80 - 129	6	30
trans-1,3-Dichloropropene	20.0	17.8		ug/Kg		89	72 - 121	5	30
Trichloroethene	20.0	25.0 *		ug/Kg		125	79 - 122	8	30
Trichlorofluoromethane	20.0	22.0		ug/Kg		110	68 - 136	5	30
Vinyl chloride	20.0	21.0		ug/Kg		105	70 - 134	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	108		78 - 135
4-Bromofluorobenzene	94		67 - 126
Dibromofluoromethane (Surr)	109		61 - 149
Toluene-d8 (Surr)	89		73 - 121

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: MB 460-610645/1-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 610645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2-Chloronaphthalene	ND		330	15	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2-Chlorophenol	ND		330	4.6	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2-Methylphenol	ND		330	5.3	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2-Nitroaniline	ND		330	12	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
2-Nitrophenol	ND		330	11	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
3-Nitroaniline	ND		330	18	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4-Chloroaniline	ND		330	23	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4-Methylphenol	ND		330	5.6	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4-Nitroaniline	ND		330	12	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
4-Nitrophenol	ND		670	54	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Acenaphthene	ND		330	24	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Acenaphthylene	ND		330	3.4	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Acetophenone	ND		330	5.3	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Anthracene	ND		330	3.7	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Atrazine	ND		130	8.3	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Benzaldehyde	ND		330	14	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Benzo[a]anthracene	ND		33	12	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Biphenyl	ND		330	4.4	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Caprolactam	ND		330	20	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Carbazole	ND		330	3.9	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Chrysene	ND		330	5.6	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Dibenzofuran	ND		330	4.6	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Diethyl phthalate	ND		330	4.8	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		05/16/19 21:57	05/17/19 06:07	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: MB 460-610645/1-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 610645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		330	18	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Fluoranthene	ND		330	4.3	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Fluorene	ND		330	4.5	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Hexachloroethane	ND		33	5.1	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Isophorone	ND		130	8.7	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Naphthalene	ND		330	5.7	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Nitrobenzene	ND		33	7.9	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Pentachlorophenol	ND		270	68	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Phenanthrene	ND		330	5.8	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Phenol	ND		330	4.9	ug/Kg		05/16/19 21:57	05/17/19 06:07	1
Pyrene	ND		330	8.2	ug/Kg		05/16/19 21:57	05/17/19 06:07	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				05/16/19 21:57	05/17/19 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	115		10 - 137	05/16/19 21:57	05/17/19 06:07	1
2-Fluorobiphenyl (Surr)	101		29 - 107	05/16/19 21:57	05/17/19 06:07	1
2-Fluorophenol (Surr)	97		20 - 115	05/16/19 21:57	05/17/19 06:07	1
Nitrobenzene-d5 (Surr)	97		25 - 113	05/16/19 21:57	05/17/19 06:07	1
Phenol-d5 (Surr)	91		28 - 109	05/16/19 21:57	05/17/19 06:07	1
Terphenyl-d14 (Surr)	99		27 - 123	05/16/19 21:57	05/17/19 06:07	1

Lab Sample ID: LCS 460-610645/2-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	3330	3480		ug/Kg		104	60 - 106
2,4,6-Trichlorophenol	3330	3540		ug/Kg		106	62 - 110
2,4-Dichlorophenol	3330	3470	*	ug/Kg		104	61 - 103
2,4-Dimethylphenol	3330	3360		ug/Kg		101	63 - 101
2,4-Dinitrophenol	6670	7800		ug/Kg		117	56 - 122
2,4-Dinitrotoluene	3330	3810		ug/Kg		114	66 - 122
2,6-Dinitrotoluene	3330	3740		ug/Kg		112	70 - 114
2-Chloronaphthalene	3330	3400		ug/Kg		102	63 - 107
2-Chlorophenol	3330	3290	*	ug/Kg		99	62 - 97
2-Methylnaphthalene	3330	3440		ug/Kg		103	65 - 104
2-Methylphenol	3330	3270		ug/Kg		98	61 - 103
2-Nitroaniline	3330	3380		ug/Kg		101	57 - 114
2-Nitrophenol	3330	3490	*	ug/Kg		105	65 - 104
3,3'-Dichlorobenzidine	3330	3130	*	ug/Kg		94	18 - 88

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: LCS 460-610645/2-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	3330	2990		ug/Kg		90	30 - 94
4,6-Dinitro-2-methylphenol	6670	8490	*	ug/Kg		127	67 - 120
4-Bromophenyl phenyl ether	3330	3500		ug/Kg		105	59 - 122
4-Chloro-3-methylphenol	3330	3490		ug/Kg		105	62 - 111
4-Chloroaniline	3330	2260		ug/Kg		68	18 - 94
4-Chlorophenyl phenyl ether	3330	3500		ug/Kg		105	66 - 110
4-Methylphenol	3330	3230		ug/Kg		97	61 - 105
4-Nitroaniline	3330	3020		ug/Kg		91	49 - 118
4-Nitrophenol	6670	6350		ug/Kg		95	43 - 141
Acenaphthene	3330	3400		ug/Kg		102	62 - 108
Acenaphthylene	3330	3480		ug/Kg		105	67 - 107
Acetophenone	3330	3230		ug/Kg		97	60 - 109
Anthracene	3330	3420		ug/Kg		103	69 - 111
Benzo[a]anthracene	3330	3360		ug/Kg		101	68 - 110
Benzo[a]pyrene	3330	3730		ug/Kg		112	72 - 115
Benzo[b]fluoranthene	3330	3890		ug/Kg		117	69 - 119
Benzo[g,h,i]perylene	3330	3640		ug/Kg		109	54 - 128
Benzo[k]fluoranthene	3330	3500		ug/Kg		105	70 - 115
Biphenyl	3330	3380		ug/Kg		101	64 - 108
bis (2-chloroisopropyl) ether	3330	2860		ug/Kg		86	39 - 122
Bis(2-chloroethoxy)methane	3330	3140		ug/Kg		94	65 - 106
Bis(2-chloroethyl)ether	3330	3300		ug/Kg		99	64 - 105
Bis(2-ethylhexyl) phthalate	3330	3480		ug/Kg		104	63 - 125
Butyl benzyl phthalate	3330	3450		ug/Kg		104	65 - 125
Carbazole	3330	3310		ug/Kg		99	66 - 115
Chrysene	3330	3520		ug/Kg		106	70 - 111
Dibenz(a,h)anthracene	3330	4250		ug/Kg		128	60 - 130
Dibenzofuran	3330	3450		ug/Kg		104	67 - 107
Diethyl phthalate	3330	3500		ug/Kg		105	66 - 117
Dimethyl phthalate	3330	3480		ug/Kg		104	68 - 112
Di-n-butyl phthalate	3330	3520		ug/Kg		105	67 - 119
Di-n-octyl phthalate	3330	3570		ug/Kg		107	57 - 138
Fluoranthene	3330	3490		ug/Kg		105	64 - 114
Fluorene	3330	3440		ug/Kg		103	66 - 110
Hexachlorobenzene	3330	3620		ug/Kg		109	57 - 128
Hexachlorobutadiene	3330	3510		ug/Kg		105	60 - 108
Hexachlorocyclopentadiene	3330	2110		ug/Kg		63	50 - 129
Hexachloroethane	3330	3160		ug/Kg		95	63 - 99
Indeno[1,2,3-cd]pyrene	3330	4020		ug/Kg		121	53 - 137
Isophorone	3330	3270		ug/Kg		98	68 - 111
Naphthalene	3330	3330		ug/Kg		100	65 - 102
Nitrobenzene	3330	3390		ug/Kg		102	66 - 108
N-Nitrosodi-n-propylamine	3330	3130		ug/Kg		94	63 - 117
N-Nitrosodiphenylamine	3330	3390		ug/Kg		102	65 - 114
Pentachlorophenol	6670	7610		ug/Kg		114	56 - 116
Phenanthrene	3330	3390		ug/Kg		102	68 - 111
Phenol	3330	3190		ug/Kg		96	58 - 103
Pyrene	3330	3430		ug/Kg		103	64 - 121

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: LCS 460-610645/2-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610645

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	118		10 - 137
2-Fluorobiphenyl (Surr)	100		29 - 107
2-Fluorophenol (Surr)	98		20 - 115
Nitrobenzene-d5 (Surr)	97		25 - 113
Phenol-d5 (Surr)	98		28 - 109
Terphenyl-d14 (Surr)	98		27 - 123

Lab Sample ID: LCS 460-610645/4-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	6510		ug/Kg		98	62 - 137
Benzaldehyde	6670	6350		ug/Kg		95	52 - 113
Caprolactam	6670	8790		ug/Kg		132	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	120		10 - 137
2-Fluorobiphenyl (Surr)	105		29 - 107
2-Fluorophenol (Surr)	103		20 - 115
Nitrobenzene-d5 (Surr)	98		25 - 113
Phenol-d5 (Surr)	95		28 - 109
Terphenyl-d14 (Surr)	106		27 - 123

Lab Sample ID: LCSD 460-610645/3-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 610645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	3330	3530		ug/Kg		106	60 - 106	1	30
2,4,6-Trichlorophenol	3330	3610		ug/Kg		108	62 - 110	2	30
2,4-Dichlorophenol	3330	3530	*	ug/Kg		106	61 - 103	1	30
2,4-Dimethylphenol	3330	3360		ug/Kg		101	63 - 101	0	30
2,4-Dinitrophenol	6670	8120		ug/Kg		122	56 - 122	4	30
2,4-Dinitrotoluene	3330	3790		ug/Kg		114	66 - 122	0	30
2,6-Dinitrotoluene	3330	3760		ug/Kg		113	70 - 114	1	30
2-Chloronaphthalene	3330	3390		ug/Kg		102	63 - 107	0	30
2-Chlorophenol	3330	3270	*	ug/Kg		98	62 - 97	1	30
2-Methylnaphthalene	3330	3450		ug/Kg		103	65 - 104	0	30
2-Methylphenol	3330	3290		ug/Kg		99	61 - 103	1	30
2-Nitroaniline	3330	3400		ug/Kg		102	57 - 114	1	30
2-Nitrophenol	3330	3530	*	ug/Kg		106	65 - 104	1	30
3,3'-Dichlorobenzidine	3330	3200	*	ug/Kg		96	18 - 88	2	30
3-Nitroaniline	3330	2950		ug/Kg		89	30 - 94	1	30
4,6-Dinitro-2-methylphenol	6670	8330	*	ug/Kg		125	67 - 120	2	30
4-Bromophenyl phenyl ether	3330	3450		ug/Kg		104	59 - 122	1	30
4-Chloro-3-methylphenol	3330	3560		ug/Kg		107	62 - 111	2	30
4-Chloroaniline	3330	2370		ug/Kg		71	18 - 94	4	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

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

Lab Sample ID: LCSD 460-610645/3-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 610645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	3330	3560		ug/Kg		107	66 - 110	2	30
4-Methylphenol	3330	3280		ug/Kg		98	61 - 105	2	30
4-Nitroaniline	3330	3120		ug/Kg		94	49 - 118	3	30
4-Nitrophenol	6670	6500		ug/Kg		97	43 - 141	2	30
Acenaphthene	3330	3400		ug/Kg		102	62 - 108	0	30
Acenaphthylene	3330	3480		ug/Kg		104	67 - 107	0	30
Acetophenone	3330	3210		ug/Kg		96	60 - 109	1	30
Anthracene	3330	3410		ug/Kg		102	69 - 111	0	30
Benzo[a]anthracene	3330	3430		ug/Kg		103	68 - 110	2	30
Benzo[a]pyrene	3330	3710		ug/Kg		111	72 - 115	1	30
Benzo[b]fluoranthene	3330	4050 *		ug/Kg		121	69 - 119	4	30
Benzo[g,h,i]perylene	3330	3610		ug/Kg		108	54 - 128	1	30
Benzo[k]fluoranthene	3330	3330		ug/Kg		100	70 - 115	5	30
Biphenyl	3330	3420		ug/Kg		103	64 - 108	1	30
bis (2-chloroisopropyl) ether	3330	2840		ug/Kg		85	39 - 122	1	30
Bis(2-chloroethoxy)methane	3330	3200		ug/Kg		96	65 - 106	2	30
Bis(2-chloroethyl)ether	3330	3250		ug/Kg		97	64 - 105	2	30
Bis(2-ethylhexyl) phthalate	3330	3540		ug/Kg		106	63 - 125	2	30
Butyl benzyl phthalate	3330	3480		ug/Kg		105	65 - 125	1	30
Carbazole	3330	3300		ug/Kg		99	66 - 115	0	30
Chrysene	3330	3520		ug/Kg		105	70 - 111	0	30
Dibenz(a,h)anthracene	3330	4270		ug/Kg		128	60 - 130	0	30
Dibenzofuran	3330	3490		ug/Kg		105	67 - 107	1	30
Diethyl phthalate	3330	3560		ug/Kg		107	66 - 117	2	30
Dimethyl phthalate	3330	3530		ug/Kg		106	68 - 112	2	30
Di-n-butyl phthalate	3330	3520		ug/Kg		106	67 - 119	0	30
Di-n-octyl phthalate	3330	3510		ug/Kg		105	57 - 138	2	30
Fluoranthene	3330	3490		ug/Kg		105	64 - 114	0	30
Fluorene	3330	3470		ug/Kg		104	66 - 110	1	30
Hexachlorobenzene	3330	3650		ug/Kg		110	57 - 128	1	30
Hexachlorobutadiene	3330	3490		ug/Kg		105	60 - 108	1	30
Hexachlorocyclopentadiene	3330	2140		ug/Kg		64	50 - 129	2	30
Hexachloroethane	3330	3100		ug/Kg		93	63 - 99	2	30
Indeno[1,2,3-cd]pyrene	3330	3980		ug/Kg		119	53 - 137	1	30
Isophorone	3330	3250		ug/Kg		98	68 - 111	1	30
Naphthalene	3330	3310		ug/Kg		99	65 - 102	1	30
Nitrobenzene	3330	3280		ug/Kg		98	66 - 108	3	30
N-Nitrosodi-n-propylamine	3330	3150		ug/Kg		95	63 - 117	1	30
N-Nitrosodiphenylamine	3330	3380		ug/Kg		101	65 - 114	1	30
Pentachlorophenol	6670	7590		ug/Kg		114	56 - 116	0	30
Phenanthrene	3330	3370		ug/Kg		101	68 - 111	0	30
Phenol	3330	3200		ug/Kg		96	58 - 103	0	30
Pyrene	3330	3430		ug/Kg		103	64 - 121	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	120		10 - 137
2-Fluorobiphenyl (Surr)	103		29 - 107
2-Fluorophenol (Surr)	97		20 - 115

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM

Job ID: 460-182074-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

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

Lab Sample ID: LCSD 460-610645/3-A

Matrix: Solid

Analysis Batch: 610691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 610645

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	98		25 - 113
Phenol-d5 (Surr)	99		28 - 109
Terphenyl-d14 (Surr)	100		27 - 123

QC Association Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

GC/MS VOA

Prep Batch: 610941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182074-1	PWEXBM04145	Total/NA	Solid	5035	
LB3 460-610941/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 611084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182074-1	PWEXBM04145	Total/NA	Solid	8260C	610941
LB3 460-610941/1-A	Method Blank	Total/NA	Solid	8260C	610941
MB 460-611084/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-611084/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-611084/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 610645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182074-1	PWEXBM04145	Total/NA	Solid	3546	
MB 460-610645/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-610645/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-610645/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-610645/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 610691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182074-1	PWEXBM04145	Total/NA	Solid	8270D	610645
MB 460-610645/1-A	Method Blank	Total/NA	Solid	8270D	610645
LCS 460-610645/2-A	Lab Control Sample	Total/NA	Solid	8270D	610645
LCS 460-610645/4-A	Lab Control Sample	Total/NA	Solid	8270D	610645
LCSD 460-610645/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	610645

General Chemistry

Analysis Batch: 610551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182074-1	PWEXBM04145	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

Client Sample ID: PWEXBM04145

Date Collected: 05/15/19 13:20

Date Received: 05/16/19 09:15

Lab Sample ID: 460-182074-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	610551	05/16/19 14:26	MMC	TAL EDI

Client Sample ID: PWEXBM04145

Date Collected: 05/15/19 13:20

Date Received: 05/16/19 09:15

Lab Sample ID: 460-182074-1

Matrix: Solid

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			610941	05/17/19 23:52	AVM	TAL EDI
Total/NA	Analysis	8260C		1	611084	05/19/19 14:47	KLB	TAL EDI
Total/NA	Prep	3546			610645	05/16/19 21:57	GRB	TAL EDI
Total/NA	Analysis	8270D		1	610691	05/17/19 12:01	FAM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182074-1

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-20

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

Client: AECOM

Job ID: 460-182074-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AECOM

Job ID: 460-182074-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-182074-1	PWEXBM04145	Solid	05/15/19 13:20	05/16/19 09:15

Chain of Custody Record

Client Information Client Contact: George Hermance Phone: 716-861-7882 Company: AECOM		Lab PM: Deyo, Melissa L E-Mail: melissa.deyo@testamericainc.com		Carrier Tracking No(s): 480-128476-28976.1 Page: Page 1 of 2 Job #: 182674	
Address: 150 Water Street City: Penn Yan State, Zip: NY, 14527 Phone: 716-861-7882 Email: George.Hermance@aecom.com Project Name: 60584654, Penn Yan Former MGP Phase 2 Site:		Due Date Requested: 5/17/2019 TAT Requested (days): 48 Hour per Melissa Deyo PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015558 SSOV#:		Analysis Requested 2-Day RUSH	
Sample Identification PWEXBM04145		Sample Date: 5/15/19	Sample Time: 1320	Sample Type: G=grab G Solid	Matrix: (Water, Sediment, Other)
Field Filtered Sample (Yes or No)		8270D - TCL SVOCs + 20 TICs	8260C - TCL VOCs + TICs	Total Number of Containers: 2	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: George Hermance Relinquished by: George Hermance Date/Time: 5/15/19 1500 Company: AECOM		Method of Shipment:			
Relinquished by: George Hermance Date/Time: 5/15/19 1500 Company: AECOM		Received by: Angela Pilla Date/Time: 05/16/19 9:15 Company: TA Edison			
Relinquished by: George Hermance Date/Time: 5/15/19 1500 Company: AECOM		Received by: Angela Pilla Date/Time: 05/16/19 9:15 Company: TA Edison			
Relinquished by: George Hermance Date/Time: 5/15/19 1500 Company: AECOM		Received by: Angela Pilla Date/Time: 05/16/19 9:15 Company: TA Edison			
Custody Seals Intact: ☒ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: 2.2°C IR#9			

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-182074-1

Login Number: 182074

List Number: 1

Creator: Meyers, Gary

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	832177
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	NA: No analysis requiring residual chlorine check assigned

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

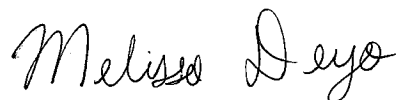
Laboratory Job ID: 460-182200-1

Client Project/Site: 60584654, Penn Yan Former MGP Phase 2

For:

AECOM
40 British American Blvd
Latham, New York 12110

Attn: Mr. Matt Thorpe



Authorized for release by:
5/21/2019 4:41:03 PM

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Definitions/Glossary

Client: AECOM

Job ID: 460-182200-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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)

Case Narrative

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Job ID: 460-182200-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-182200-1

Receipt

The samples were received on 5/17/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

Receipt Exceptions

The samples were collected in an improper containers for VOCs. Samples were not collected according to 5035L/5035A-L specifications.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 460-611522 was outside the method criteria for the following analytes: Bromoform (biased low) and Methyl acetate (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 460-611522 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 460-610928 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 460-611228 was outside the method criteria for the following analyte(s): < Hexachlorocyclopentadiene and bis (2-chloroisopropyl) ether>. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

Organic Prep

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

VOA Prep

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

Detection Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04143

Lab Sample ID: 460-182200-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	9.5		5.3	4.0	ug/Kg	1		✱	8260C	Total/NA
Carbon disulfide	0.29	J	1.1	0.28	ug/Kg	1		✱	8260C	Total/NA
Ethylbenzene	0.21	J	1.1	0.21	ug/Kg	1		✱	8260C	Total/NA
Methylene Chloride	1.4	B	1.1	0.17	ug/Kg	1		✱	8260C	Total/NA
Acenaphthene	35	J	400	29	ug/Kg	1		✱	8270D	Total/NA
Anthracene	24	J F1	400	4.5	ug/Kg	1		✱	8270D	Total/NA
Benzo[a]anthracene	15	J F1	40	14	ug/Kg	1		✱	8270D	Total/NA
Carbazole	18	J F1	400	4.7	ug/Kg	1		✱	8270D	Total/NA
Dibenzofuran	31	J F1	400	5.6	ug/Kg	1		✱	8270D	Total/NA
Fluoranthene	47	J	400	5.2	ug/Kg	1		✱	8270D	Total/NA
Fluorene	86	J F1	400	5.4	ug/Kg	1		✱	8270D	Total/NA
Naphthalene	21	J	400	6.9	ug/Kg	1		✱	8270D	Total/NA
Phenanthrene	13	J F1	400	7.1	ug/Kg	1		✱	8270D	Total/NA
Pyrene	30	J F1	400	10	ug/Kg	1		✱	8270D	Total/NA

Client Sample ID: PWEXBM04140

Lab Sample ID: 460-182200-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	15		5.6	4.3	ug/Kg	1		✱	8260C	Total/NA
Methylene Chloride	2.8	B	1.1	0.18	ug/Kg	1		✱	8260C	Total/NA
Diethyl phthalate	130	J	400	5.8	ug/Kg	1		✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04143

Lab Sample ID: 460-182200-1

Date Collected: 05/16/19 10:23

Matrix: Solid

Date Received: 05/17/19 09:40

Percent Solids: 82.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.32	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,2,4-Trichlorobenzene	ND		1.1	0.097	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.49	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,2-Dibromoethane	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,2-Dichlorobenzene	ND		1.1	0.15	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,2-Dichloroethane	ND		1.1	0.31	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,2-Dichloropropane	ND		1.1	0.45	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,3-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
1,4-Dichlorobenzene	ND		1.1	0.11	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
2-Butanone (MEK)	ND		5.3	1.2	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
2-Hexanone	ND		5.3	0.82	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	0.70	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Acetone	9.5		5.3	4.0	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Benzene	ND		1.1	0.27	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Bromodichloromethane	ND		1.1	0.27	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Bromoform	ND		1.1	0.45	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Bromomethane	ND		1.1	0.50	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Carbon disulfide	0.29	J	1.1	0.28	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Carbon tetrachloride	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Chloroethane	ND		1.1	0.55	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Chloroform	ND		1.1	0.34	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Chloromethane	ND		1.1	0.46	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
cis-1,2-Dichloroethene	ND		1.1	0.16	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
cis-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Cyclohexane	ND		1.1	0.23	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Dibromochloromethane	ND		1.1	0.20	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Dichlorodifluoromethane	ND		1.1	0.36	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Ethylbenzene	0.21	J	1.1	0.21	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Isopropylbenzene	ND		1.1	0.13	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Methyl acetate	ND	*	5.3	4.5	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Methyl tert-butyl ether	ND		1.1	0.13	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Methylcyclohexane	ND		1.1	0.17	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Methylene Chloride	1.4	B	1.1	0.17	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Styrene	ND		1.1	0.13	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Tetrachloroethene	ND		1.1	0.15	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Toluene	ND		1.1	0.66	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
trans-1,2-Dichloroethene	ND		1.1	0.26	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
trans-1,3-Dichloropropene	ND		1.1	0.28	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Trichloroethene	ND		1.1	0.15	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Trichlorofluoromethane	ND		1.1	0.43	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Vinyl chloride	ND		1.1	0.58	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1
Xylenes, Total	ND		2.1	0.27	ug/Kg	☼	05/20/19 23:41	05/21/19 09:02	1

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Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04143

Lab Sample ID: 460-182200-1

Date Collected: 05/16/19 10:23

Matrix: Solid

Date Received: 05/17/19 09:40

Percent Solids: 82.3

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/Kg</i>	<i>☼</i>			<i>05/20/19 23:41</i>	<i>05/21/19 09:02</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132		78 - 135				05/20/19 23:41	05/21/19 09:02	1
4-Bromofluorobenzene	109		67 - 126				05/20/19 23:41	05/21/19 09:02	1
Dibromofluoromethane (Surr)	97		61 - 149				05/20/19 23:41	05/21/19 09:02	1
Toluene-d8 (Surr)	104		73 - 121				05/20/19 23:41	05/21/19 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		400	13	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2,4,6-Trichlorophenol	ND		160	20	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2,4-Dichlorophenol	ND		160	8.5	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2,4-Dimethylphenol	ND		400	18	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2,4-Dinitrophenol	ND	F1 F2	320	200	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2,4-Dinitrotoluene	ND		81	20	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2,6-Dinitrotoluene	ND	F1	81	13	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2-Chloronaphthalene	ND		400	19	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2-Chlorophenol	ND		400	5.6	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2-Methylnaphthalene	ND		400	5.0	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2-Methylphenol	ND		400	6.5	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2-Nitroaniline	ND		400	15	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
2-Nitrophenol	ND	F1 F2	400	13	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
3,3'-Dichlorobenzidine	ND		160	61	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
3-Nitroaniline	ND		400	22	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4,6-Dinitro-2-methylphenol	ND	F1 F2	320	65	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4-Bromophenyl phenyl ether	ND		400	5.2	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4-Chloro-3-methylphenol	ND		400	6.7	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4-Chloroaniline	ND		400	28	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4-Chlorophenyl phenyl ether	ND		400	6.3	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4-Methylphenol	ND	F2	400	6.8	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4-Nitroaniline	ND		400	15	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
4-Nitrophenol	ND		810	65	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Acenaphthene	35 J		400	29	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Acenaphthylene	ND		400	4.1	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Acetophenone	ND		400	6.5	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Anthracene	24 J F1		400	4.5	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Atrazine	ND		160	10	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Benzaldehyde	ND	F2	400	17	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Benzo[a]anthracene	15 J F1		40	14	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Benzo[a]pyrene	ND	F1	40	11	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Benzo[b]fluoranthene	ND	F1	40	10	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Benzo[g,h,i]perylene	ND		400	12	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Benzo[k]fluoranthene	ND	F1	40	7.9	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Biphenyl	ND		400	5.3	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
bis (2-chloroisopropyl) ether	ND		400	7.3	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Bis(2-chloroethoxy)methane	ND		400	14	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Bis(2-chloroethyl)ether	ND	F2	40	4.9	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Bis(2-ethylhexyl) phthalate	ND	F1	400	21	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Butyl benzyl phthalate	ND	F1	400	19	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1

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Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04143

Lab Sample ID: 460-182200-1

Date Collected: 05/16/19 10:23

Matrix: Solid

Date Received: 05/17/19 09:40

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND	F2	400	24	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Carbazole	18	J F1	400	4.7	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Chrysene	ND	F1	400	6.8	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Dibenz(a,h)anthracene	ND		40	17	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Dibenzofuran	31	J F1	400	5.6	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Diethyl phthalate	ND		400	5.8	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Dimethyl phthalate	ND		400	4.8	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Di-n-butyl phthalate	ND	F1	400	71	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Di-n-octyl phthalate	ND		400	21	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Fluoranthene	47	J	400	5.2	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Fluorene	86	J F1	400	5.4	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Hexachlorobenzene	ND		40	5.9	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Hexachlorobutadiene	ND		81	8.5	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Hexachlorocyclopentadiene	ND	F1	400	35	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Hexachloroethane	ND	F1 F2	40	6.2	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Indeno[1,2,3-cd]pyrene	ND		40	16	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Isophorone	ND		160	11	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Naphthalene	21	J	400	6.9	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Nitrobenzene	ND		40	9.6	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
N-Nitrosodi-n-propylamine	ND	F2	40	6.4	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
N-Nitrosodiphenylamine	ND		400	7.7	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Pentachlorophenol	ND		320	82	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Phenanthrene	13	J F1	400	7.1	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Phenol	ND	F2	400	5.9	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1
Pyrene	30	J F1	400	10	ug/Kg	☼	05/17/19 19:03	05/18/19 02:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			05/17/19 19:03	05/18/19 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 137	05/17/19 19:03	05/18/19 02:42	1
2-Fluorobiphenyl (Surr)	67		29 - 107	05/17/19 19:03	05/18/19 02:42	1
2-Fluorophenol (Surr)	86		20 - 115	05/17/19 19:03	05/18/19 02:42	1
Nitrobenzene-d5 (Surr)	67		25 - 113	05/17/19 19:03	05/18/19 02:42	1
Phenol-d5 (Surr)	87		28 - 109	05/17/19 19:03	05/18/19 02:42	1
Terphenyl-d14 (Surr)	57		27 - 123	05/17/19 19:03	05/18/19 02:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.7		1.0	1.0	%			05/19/19 20:52	1
Percent Solids	82.3		1.0	1.0	%			05/19/19 20:52	1

Client Sample ID: PWEXBM04140

Lab Sample ID: 460-182200-2

Date Collected: 05/16/19 12:50

Matrix: Solid

Date Received: 05/17/19 09:40

Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.26	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.24	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.34	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04140

Lab Sample ID: 460-182200-2

Date Collected: 05/16/19 12:50

Matrix: Solid

Date Received: 05/17/19 09:40

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.1	0.20	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,1-Dichloroethane	ND		1.1	0.23	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,1-Dichloroethene	ND		1.1	0.25	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,2,4-Trichlorobenzene	ND		1.1	0.10	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.52	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,2-Dibromoethane	ND		1.1	0.20	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,2-Dichlorobenzene	ND		1.1	0.16	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,2-Dichloroethane	ND		1.1	0.33	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,2-Dichloropropane	ND		1.1	0.48	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,3-Dichlorobenzene	ND		1.1	0.18	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
1,4-Dichlorobenzene	ND		1.1	0.11	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
2-Butanone (MEK)	ND		5.6	1.3	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
2-Hexanone	ND		5.6	0.88	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.6	0.75	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Acetone	15		5.6	4.3	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Benzene	ND		1.1	0.29	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Bromodichloromethane	ND		1.1	0.29	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Bromoform	ND		1.1	0.48	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Bromomethane	ND		1.1	0.53	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Carbon disulfide	ND		1.1	0.30	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Carbon tetrachloride	ND		1.1	0.20	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Chlorobenzene	ND		1.1	0.20	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Chloroethane	ND		1.1	0.59	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Chloroform	ND		1.1	0.36	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Chloromethane	ND		1.1	0.49	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
cis-1,2-Dichloroethene	ND		1.1	0.17	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
cis-1,3-Dichloropropene	ND		1.1	0.31	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Cyclohexane	ND		1.1	0.25	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Dibromochloromethane	ND		1.1	0.22	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Dichlorodifluoromethane	ND		1.1	0.38	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Methyl acetate	ND *		5.6	4.9	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Methyl tert-butyl ether	ND		1.1	0.14	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Methylcyclohexane	ND		1.1	0.18	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Methylene Chloride	2.8 B		1.1	0.18	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Styrene	ND		1.1	0.14	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Tetrachloroethene	ND		1.1	0.16	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Toluene	ND		1.1	0.71	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
trans-1,2-Dichloroethene	ND		1.1	0.28	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
trans-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Trichloroethene	ND		1.1	0.16	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Trichlorofluoromethane	ND		1.1	0.46	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Vinyl chloride	ND		1.1	0.62	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1
Xylenes, Total	ND		2.3	0.29	ug/Kg	☼	05/20/19 23:42	05/21/19 09:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			05/20/19 23:42	05/21/19 09:26	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04140

Lab Sample ID: 460-182200-2

Date Collected: 05/16/19 12:50

Matrix: Solid

Date Received: 05/17/19 09:40

Percent Solids: 82.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		78 - 135	05/20/19 23:42	05/21/19 09:26	1
4-Bromofluorobenzene	102		67 - 126	05/20/19 23:42	05/21/19 09:26	1
Dibromofluoromethane (Surr)	100		61 - 149	05/20/19 23:42	05/21/19 09:26	1
Toluene-d8 (Surr)	106		73 - 121	05/20/19 23:42	05/21/19 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		400	13	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2,4,6-Trichlorophenol	ND		160	20	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2,4-Dichlorophenol	ND		160	8.5	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2,4-Dimethylphenol	ND		400	18	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2,4-Dinitrophenol	ND		320	200	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2,4-Dinitrotoluene	ND		82	20	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2,6-Dinitrotoluene	ND		82	13	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2-Chloronaphthalene	ND		400	19	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2-Chlorophenol	ND		400	5.6	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2-Methylnaphthalene	ND		400	5.0	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2-Methylphenol	ND		400	6.5	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2-Nitroaniline	ND		400	15	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
2-Nitrophenol	ND		400	13	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
3,3'-Dichlorobenzidine	ND		160	61	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
3-Nitroaniline	ND		400	22	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4,6-Dinitro-2-methylphenol	ND		320	65	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4-Bromophenyl phenyl ether	ND		400	5.2	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4-Chloro-3-methylphenol	ND		400	6.7	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4-Chloroaniline	ND		400	28	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4-Chlorophenyl phenyl ether	ND		400	6.3	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4-Methylphenol	ND		400	6.9	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4-Nitroaniline	ND		400	15	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
4-Nitrophenol	ND		820	66	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Acenaphthene	ND		400	29	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Acenaphthylene	ND		400	4.2	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Acetophenone	ND		400	6.5	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Anthracene	ND		400	4.5	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Atrazine	ND		160	10	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Benzaldehyde	ND		400	18	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Benzo[a]anthracene	ND		40	14	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Benzo[a]pyrene	ND		40	11	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Benzo[b]fluoranthene	ND		40	10	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Benzo[g,h,i]perylene	ND		400	12	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Benzo[k]fluoranthene	ND		40	7.9	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Biphenyl	ND		400	5.3	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
bis (2-chloroisopropyl) ether	ND		400	7.3	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Bis(2-chloroethoxy)methane	ND		400	14	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Bis(2-chloroethyl)ether	ND		40	4.9	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Bis(2-ethylhexyl) phthalate	ND		400	21	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Butyl benzyl phthalate	ND		400	19	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Caprolactam	ND		400	24	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Carbazole	ND		400	4.7	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Chrysene	ND		400	6.8	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04140

Lab Sample ID: 460-182200-2

Date Collected: 05/16/19 12:50

Matrix: Solid

Date Received: 05/17/19 09:40

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		40	17	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Dibenzofuran	ND		400	5.7	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Diethyl phthalate	130	J	400	5.8	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Dimethyl phthalate	ND		400	4.9	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Di-n-butyl phthalate	ND		400	71	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Di-n-octyl phthalate	ND		400	21	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Fluoranthene	ND		400	5.2	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Fluorene	ND		400	5.5	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Hexachlorobenzene	ND		40	5.9	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Hexachlorobutadiene	ND		82	8.6	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Hexachlorocyclopentadiene	ND		400	35	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Hexachloroethane	ND		40	6.2	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Indeno[1,2,3-cd]pyrene	ND		40	16	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Isophorone	ND		160	11	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Naphthalene	ND		400	7.0	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Nitrobenzene	ND		40	9.7	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
N-Nitrosodi-n-propylamine	ND		40	6.4	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
N-Nitrosodiphenylamine	ND		400	7.7	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Pentachlorophenol	ND		320	83	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Phenanthrene	ND		400	7.1	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Phenol	ND		400	6.0	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1
Pyrene	ND		400	10	ug/Kg	☼	05/17/19 19:03	05/18/19 03:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			05/17/19 19:03	05/18/19 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 137	05/17/19 19:03	05/18/19 03:33	1
2-Fluorobiphenyl (Surr)	69		29 - 107	05/17/19 19:03	05/18/19 03:33	1
2-Fluorophenol (Surr)	69		20 - 115	05/17/19 19:03	05/18/19 03:33	1
Nitrobenzene-d5 (Surr)	69		25 - 113	05/17/19 19:03	05/18/19 03:33	1
Phenol-d5 (Surr)	66		28 - 109	05/17/19 19:03	05/18/19 03:33	1
Terphenyl-d14 (Surr)	66		27 - 123	05/17/19 19:03	05/18/19 03:33	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.9		1.0	1.0	%			05/19/19 20:52	1
Percent Solids	82.1		1.0	1.0	%			05/19/19 20:52	1

Surrogate Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (78-135)	BFB (67-126)	DBFM (61-149)	TOL (73-121)
460-182200-1	PWEXBM04143	132	109	97	104
460-182200-2	PWEXBM04140	129	102	100	106
LB3 460-611500/1-A	Method Blank	113	102	97	109
LCS 460-611522/3	Lab Control Sample	113	101	99	109
LCSD 460-611522/4	Lab Control Sample Dup	120	108	103	117
MB 460-611522/8	Method Blank	118	102	99	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-137)	FBP (29-107)	2FP (20-115)	NBZ (25-113)	PHL (28-109)	TPHL (27-123)
460-182200-1	PWEXBM04143	79	67	86	67	87	57
460-182200-1 MS	PWEXBM04143	76	73	67	59	63	68
460-182200-1 MSD	PWEXBM04143	75	65	82	69	83	56
460-182200-2	PWEXBM04140	79	69	69	69	66	66
LCS 460-610899/2-A	Lab Control Sample	100	83	78	76	80	83
LCS 460-610899/4-A	Lab Control Sample	121	102	99	98	95	98
LCSD 460-610899/3-A	Lab Control Sample Dup	105	91	90	90	91	88
MB 460-610899/1-A	Method Blank	101	88	88	88	85	86

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: AECOM

Job ID: 460-182200-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-611500/1-A

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 611500

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
2-Hexanone	ND		5.0	0.78	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Acetone	ND		5.0	3.8	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Benzene	ND		1.0	0.26	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Bromoform	ND		1.0	0.43	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Bromomethane	ND		1.0	0.47	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Carbon disulfide	ND		1.0	0.27	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chlorobenzene	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chloroethane	ND		1.0	0.52	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chloroform	ND		1.0	0.32	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chloromethane	ND		1.0	0.44	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Cyclohexane	ND		1.0	0.22	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Ethylbenzene	ND		1.0	0.20	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methyl acetate	ND		5.0	4.3	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methylene Chloride	0.203	J	1.0	0.16	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Styrene	ND		1.0	0.12	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Toluene	ND		1.0	0.63	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Trichloroethene	ND		1.0	0.14	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Vinyl chloride	ND		1.0	0.55	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Xylenes, Total	ND		2.0	0.25	ug/Kg		05/20/19 23:41	05/21/19 08:37	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: LB3 460-611500/1-A

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 611500

	LB3	LB3							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				05/20/19 23:41	05/21/19 08:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		78 - 135				05/20/19 23:41	05/21/19 08:37	1
4-Bromofluorobenzene	102		67 - 126				05/20/19 23:41	05/21/19 08:37	1
Dibromofluoromethane (Surr)	97		61 - 149				05/20/19 23:41	05/21/19 08:37	1
Toluene-d8 (Surr)	109		73 - 121				05/20/19 23:41	05/21/19 08:37	1

Lab Sample ID: MB 460-611522/8

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			05/21/19 08:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			05/21/19 08:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			05/21/19 08:08	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			05/21/19 08:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			05/21/19 08:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			05/21/19 08:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			05/21/19 08:08	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			05/21/19 08:08	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			05/21/19 08:08	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			05/21/19 08:08	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			05/21/19 08:08	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			05/21/19 08:08	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			05/21/19 08:08	1
2-Hexanone	ND		5.0	0.78	ug/Kg			05/21/19 08:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			05/21/19 08:08	1
Acetone	ND		5.0	3.8	ug/Kg			05/21/19 08:08	1
Benzene	ND		1.0	0.26	ug/Kg			05/21/19 08:08	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			05/21/19 08:08	1
Bromoform	ND		1.0	0.43	ug/Kg			05/21/19 08:08	1
Bromomethane	ND		1.0	0.47	ug/Kg			05/21/19 08:08	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			05/21/19 08:08	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
Chloroethane	ND		1.0	0.52	ug/Kg			05/21/19 08:08	1
Chloroform	ND		1.0	0.32	ug/Kg			05/21/19 08:08	1
Chloromethane	ND		1.0	0.44	ug/Kg			05/21/19 08:08	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			05/21/19 08:08	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/21/19 08:08	1
Cyclohexane	ND		1.0	0.22	ug/Kg			05/21/19 08:08	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			05/21/19 08:08	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			05/21/19 08:08	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			05/21/19 08:08	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			05/21/19 08:08	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: MB 460-611522/8

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		5.0	4.3	ug/Kg			05/21/19 08:08	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			05/21/19 08:08	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			05/21/19 08:08	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			05/21/19 08:08	1
Styrene	ND		1.0	0.12	ug/Kg			05/21/19 08:08	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			05/21/19 08:08	1
Toluene	ND		1.0	0.63	ug/Kg			05/21/19 08:08	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			05/21/19 08:08	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/21/19 08:08	1
Trichloroethene	ND		1.0	0.14	ug/Kg			05/21/19 08:08	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			05/21/19 08:08	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			05/21/19 08:08	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			05/21/19 08:08	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg					05/21/19 08:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		78 - 135		05/21/19 08:08	1
4-Bromofluorobenzene	102		67 - 126		05/21/19 08:08	1
Dibromofluoromethane (Surr)	99		61 - 149		05/21/19 08:08	1
Toluene-d8 (Surr)	108		73 - 121		05/21/19 08:08	1

Lab Sample ID: LCS 460-611522/3

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.0		ug/Kg		95	80 - 125
1,1,1,2-Tetrachloroethane	20.0	22.2		ug/Kg		111	72 - 131
1,1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.3		ug/Kg		96	78 - 132
1,1,2-Trichloroethane	20.0	20.5		ug/Kg		103	76 - 124
1,1-Dichloroethane	20.0	20.9		ug/Kg		104	80 - 124
1,1-Dichloroethene	20.0	19.3		ug/Kg		97	79 - 132
1,2,4-Trichlorobenzene	20.0	19.8		ug/Kg		99	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/Kg		93	65 - 129
1,2-Dibromoethane	20.0	18.3		ug/Kg		91	80 - 122
1,2-Dichlorobenzene	20.0	18.4		ug/Kg		92	80 - 121
1,2-Dichloroethane	20.0	20.7		ug/Kg		103	68 - 120
1,2-Dichloropropane	20.0	21.4		ug/Kg		107	77 - 124
1,3-Dichlorobenzene	20.0	18.3		ug/Kg		92	79 - 124
1,4-Dichlorobenzene	20.0	17.8		ug/Kg		89	79 - 121
2-Butanone (MEK)	100	80.2		ug/Kg		80	61 - 140
2-Hexanone	100	85.9		ug/Kg		86	78 - 120
4-Methyl-2-pentanone (MIBK)	100	94.8		ug/Kg		95	80 - 120
Acetone	100	88.7		ug/Kg		89	75 - 120
Benzene	20.0	22.1		ug/Kg		110	75 - 127

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: LCS 460-611522/3

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	18.5		ug/Kg		93	76 - 129
Bromoform	20.0	15.0		ug/Kg		75	19 - 150
Bromomethane	20.0	19.2		ug/Kg		96	59 - 136
Carbon disulfide	20.0	18.9		ug/Kg		94	74 - 130
Carbon tetrachloride	20.0	17.7		ug/Kg		89	77 - 138
Chlorobenzene	20.0	18.9		ug/Kg		94	80 - 120
Chloroethane	20.0	19.9		ug/Kg		100	50 - 139
Chloroform	20.0	20.0		ug/Kg		100	80 - 122
Chloromethane	20.0	22.4		ug/Kg		112	66 - 128
cis-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	80 - 123
cis-1,3-Dichloropropene	20.0	20.3		ug/Kg		102	75 - 124
Cyclohexane	20.0	20.3		ug/Kg		101	67 - 135
Dibromochloromethane	20.0	16.3		ug/Kg		82	67 - 143
Dichlorodifluoromethane	20.0	21.3		ug/Kg		106	72 - 127
Ethylbenzene	20.0	18.9		ug/Kg		95	79 - 124
Isopropylbenzene	20.0	19.5		ug/Kg		98	80 - 125
Methyl acetate	40.0	47.8		ug/Kg		120	73 - 123
Methyl tert-butyl ether	20.0	19.4		ug/Kg		97	80 - 120
Methylcyclohexane	20.0	21.0		ug/Kg		105	71 - 137
Methylene Chloride	20.0	19.6		ug/Kg		98	79 - 128
Styrene	20.0	19.2		ug/Kg		96	78 - 123
Tetrachloroethene	20.0	18.5		ug/Kg		92	73 - 130
Toluene	20.0	20.4		ug/Kg		102	75 - 122
trans-1,2-Dichloroethene	20.0	19.2		ug/Kg		96	80 - 129
trans-1,3-Dichloropropene	20.0	19.2		ug/Kg		96	72 - 121
Trichloroethene	20.0	19.2		ug/Kg		96	79 - 122
Trichlorofluoromethane	20.0	19.5		ug/Kg		98	68 - 136
Vinyl chloride	20.0	22.0		ug/Kg		110	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		78 - 135
4-Bromofluorobenzene	101		67 - 126
Dibromofluoromethane (Surr)	99		61 - 149
Toluene-d8 (Surr)	109		73 - 121

Lab Sample ID: LCSD 460-611522/4

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1-Trichloroethane	20.0	19.8		ug/Kg		99	80 - 125	4	30
1,1,2,2-Tetrachloroethane	20.0	24.8		ug/Kg		124	72 - 131	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.2		ug/Kg		101	78 - 132	5	30
1,1,2-Trichloroethane	20.0	21.8		ug/Kg		109	76 - 124	6	30
1,1-Dichloroethane	20.0	22.3		ug/Kg		111	80 - 124	7	30
1,1-Dichloroethene	20.0	20.1		ug/Kg		101	79 - 132	4	30
1,2,4-Trichlorobenzene	20.0	21.1		ug/Kg		106	74 - 124	6	30
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/Kg		104	65 - 129	11	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: LCSD 460-611522/4

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	19.3		ug/Kg		97	80 - 122	6	30
1,2-Dichlorobenzene	20.0	20.1		ug/Kg		100	80 - 121	9	30
1,2-Dichloroethane	20.0	21.9		ug/Kg		110	68 - 120	6	30
1,2-Dichloropropane	20.0	22.8		ug/Kg		114	77 - 124	6	30
1,3-Dichlorobenzene	20.0	20.0		ug/Kg		100	79 - 124	9	30
1,4-Dichlorobenzene	20.0	19.9		ug/Kg		99	79 - 121	11	30
2-Butanone (MEK)	100	84.4		ug/Kg		84	61 - 140	5	30
2-Hexanone	100	91.5		ug/Kg		92	78 - 120	6	30
4-Methyl-2-pentanone (MIBK)	100	100		ug/Kg		100	80 - 120	6	30
Acetone	100	95.0		ug/Kg		95	75 - 120	7	30
Benzene	20.0	23.6		ug/Kg		118	75 - 127	7	30
Bromodichloromethane	20.0	19.8		ug/Kg		99	76 - 129	7	30
Bromoform	20.0	16.2		ug/Kg		81	19 - 150	7	30
Bromomethane	20.0	20.3		ug/Kg		102	59 - 136	6	30
Carbon disulfide	20.0	19.8		ug/Kg		99	74 - 130	5	30
Carbon tetrachloride	20.0	18.5		ug/Kg		92	77 - 138	4	30
Chlorobenzene	20.0	20.2		ug/Kg		101	80 - 120	7	30
Chloroethane	20.0	21.0		ug/Kg		105	50 - 139	5	30
Chloroform	20.0	21.3		ug/Kg		107	80 - 122	6	30
Chloromethane	20.0	23.5		ug/Kg		118	66 - 128	5	30
cis-1,2-Dichloroethene	20.0	20.9		ug/Kg		104	80 - 123	8	30
cis-1,3-Dichloropropene	20.0	21.5		ug/Kg		107	75 - 124	6	30
Cyclohexane	20.0	21.6		ug/Kg		108	67 - 135	7	30
Dibromochloromethane	20.0	17.5		ug/Kg		88	67 - 143	7	30
Dichlorodifluoromethane	20.0	22.6		ug/Kg		113	72 - 127	6	30
Ethylbenzene	20.0	20.6		ug/Kg		103	79 - 124	9	30
Isopropylbenzene	20.0	21.4		ug/Kg		107	80 - 125	9	30
Methyl acetate	40.0	52.8 *		ug/Kg		132	73 - 123	10	30
Methyl tert-butyl ether	20.0	20.6		ug/Kg		103	80 - 120	6	30
Methylcyclohexane	20.0	22.3		ug/Kg		112	71 - 137	6	30
Methylene Chloride	20.0	20.4		ug/Kg		102	79 - 128	4	30
Styrene	20.0	20.3		ug/Kg		102	78 - 123	6	30
Tetrachloroethene	20.0	20.2		ug/Kg		101	73 - 130	9	30
Toluene	20.0	21.9		ug/Kg		109	75 - 122	7	30
trans-1,2-Dichloroethene	20.0	20.5		ug/Kg		103	80 - 129	7	30
trans-1,3-Dichloropropene	20.0	20.1		ug/Kg		100	72 - 121	5	30
Trichloroethene	20.0	20.4		ug/Kg		102	79 - 122	6	30
Trichlorofluoromethane	20.0	20.8		ug/Kg		104	68 - 136	6	30
Vinyl chloride	20.0	23.4		ug/Kg		117	70 - 134	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	120		78 - 135
4-Bromofluorobenzene	108		67 - 126
Dibromofluoromethane (Surr)	103		61 - 149
Toluene-d8 (Surr)	117		73 - 121

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: MB 460-610899/1-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 610899

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2-Chloronaphthalene	ND		330	15	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2-Chlorophenol	ND		330	4.6	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2-Methylphenol	ND		330	5.3	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2-Nitroaniline	ND		330	12	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
2-Nitrophenol	ND		330	11	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
3-Nitroaniline	ND		330	18	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4-Chloroaniline	ND		330	23	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4-Methylphenol	ND		330	5.6	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4-Nitroaniline	ND		330	12	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
4-Nitrophenol	ND		670	54	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Acenaphthene	ND		330	24	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Acenaphthylene	ND		330	3.4	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Acetophenone	ND		330	5.3	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Anthracene	ND		330	3.7	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Atrazine	ND		130	8.3	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Benzaldehyde	ND		330	14	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Benzo[a]anthracene	ND		33	12	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Biphenyl	ND		330	4.4	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Caprolactam	ND		330	20	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Carbazole	ND		330	3.9	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Chrysene	ND		330	5.6	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Dibenzofuran	ND		330	4.6	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Diethyl phthalate	ND		330	4.8	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		05/17/19 19:03	05/18/19 01:35	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: MB 460-610899/1-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 610899

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		330	18	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Fluoranthene	ND		330	4.3	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Fluorene	ND		330	4.5	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Hexachloroethane	ND		33	5.1	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Isophorone	ND		130	8.7	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Naphthalene	ND		330	5.7	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Nitrobenzene	ND		33	7.9	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Pentachlorophenol	ND		270	68	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Phenanthrene	ND		330	5.8	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Phenol	ND		330	4.9	ug/Kg		05/17/19 19:03	05/18/19 01:35	1
Pyrene	ND		330	8.2	ug/Kg		05/17/19 19:03	05/18/19 01:35	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				05/17/19 19:03	05/18/19 01:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		10 - 137	05/17/19 19:03	05/18/19 01:35	1
2-Fluorobiphenyl (Surr)	88		29 - 107	05/17/19 19:03	05/18/19 01:35	1
2-Fluorophenol (Surr)	88		20 - 115	05/17/19 19:03	05/18/19 01:35	1
Nitrobenzene-d5 (Surr)	88		25 - 113	05/17/19 19:03	05/18/19 01:35	1
Phenol-d5 (Surr)	85		28 - 109	05/17/19 19:03	05/18/19 01:35	1
Terphenyl-d14 (Surr)	86		27 - 123	05/17/19 19:03	05/18/19 01:35	1

Lab Sample ID: LCS 460-610899/2-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	3330	3070		ug/Kg		92	60 - 106
2,4,6-Trichlorophenol	3330	3060		ug/Kg		92	62 - 110
2,4-Dichlorophenol	3330	3040		ug/Kg		91	61 - 103
2,4-Dimethylphenol	3330	2870		ug/Kg		86	63 - 101
2,4-Dinitrophenol	6670	6860		ug/Kg		103	56 - 122
2,4-Dinitrotoluene	3330	3340		ug/Kg		100	66 - 122
2,6-Dinitrotoluene	3330	3260		ug/Kg		98	70 - 114
2-Chloronaphthalene	3330	2870		ug/Kg		86	63 - 107
2-Chlorophenol	3330	2690		ug/Kg		81	62 - 97
2-Methylnaphthalene	3330	2870		ug/Kg		86	65 - 104
2-Methylphenol	3330	2730		ug/Kg		82	61 - 103
2-Nitroaniline	3330	2970		ug/Kg		89	57 - 114
2-Nitrophenol	3330	2840		ug/Kg		85	65 - 104
3,3'-Dichlorobenzidine	3330	2880		ug/Kg		86	18 - 88

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: LCS 460-610899/2-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	3330	2690		ug/Kg		81	30 - 94
4,6-Dinitro-2-methylphenol	6670	7200		ug/Kg		108	67 - 120
4-Bromophenyl phenyl ether	3330	3070		ug/Kg		92	59 - 122
4-Chloro-3-methylphenol	3330	3110		ug/Kg		93	62 - 111
4-Chloroaniline	3330	2180		ug/Kg		65	18 - 94
4-Chlorophenyl phenyl ether	3330	3040		ug/Kg		91	66 - 110
4-Methylphenol	3330	2770		ug/Kg		83	61 - 105
4-Nitroaniline	3330	2660		ug/Kg		80	49 - 118
4-Nitrophenol	6670	5510		ug/Kg		83	43 - 141
Acenaphthene	3330	2920		ug/Kg		88	62 - 108
Acenaphthylene	3330	2950		ug/Kg		89	67 - 107
Acetophenone	3330	2610		ug/Kg		78	60 - 109
Anthracene	3330	2950		ug/Kg		88	69 - 111
Benzo[a]anthracene	3330	2920		ug/Kg		88	68 - 110
Benzo[a]pyrene	3330	3190		ug/Kg		96	72 - 115
Benzo[b]fluoranthene	3330	3290		ug/Kg		99	69 - 119
Benzo[g,h,i]perylene	3330	3090		ug/Kg		93	54 - 128
Benzo[k]fluoranthene	3330	3030		ug/Kg		91	70 - 115
Biphenyl	3330	2840		ug/Kg		85	64 - 108
bis (2-chloroisopropyl) ether	3330	2290		ug/Kg		69	39 - 122
Bis(2-chloroethoxy)methane	3330	2600		ug/Kg		78	65 - 106
Bis(2-chloroethyl)ether	3330	2540		ug/Kg		76	64 - 105
Bis(2-ethylhexyl) phthalate	3330	3060		ug/Kg		92	63 - 125
Butyl benzyl phthalate	3330	3020		ug/Kg		91	65 - 125
Carbazole	3330	2840		ug/Kg		85	66 - 115
Chrysene	3330	2970		ug/Kg		89	70 - 111
Dibenz(a,h)anthracene	3330	3580		ug/Kg		108	60 - 130
Dibenzofuran	3330	3010		ug/Kg		90	67 - 107
Diethyl phthalate	3330	3060		ug/Kg		92	66 - 117
Dimethyl phthalate	3330	3030		ug/Kg		91	68 - 112
Di-n-butyl phthalate	3330	3040		ug/Kg		91	67 - 119
Di-n-octyl phthalate	3330	3040		ug/Kg		91	57 - 138
Fluoranthene	3330	3030		ug/Kg		91	64 - 114
Fluorene	3330	2990		ug/Kg		90	66 - 110
Hexachlorobenzene	3330	3140		ug/Kg		94	57 - 128
Hexachlorobutadiene	3330	2750		ug/Kg		82	60 - 108
Hexachlorocyclopentadiene	3330	1690		ug/Kg		51	50 - 129
Hexachloroethane	3330	2500		ug/Kg		75	63 - 99
Indeno[1,2,3-cd]pyrene	3330	3380		ug/Kg		101	53 - 137
Isophorone	3330	2700		ug/Kg		81	68 - 111
Naphthalene	3330	2680		ug/Kg		80	65 - 102
Nitrobenzene	3330	2730		ug/Kg		82	66 - 108
N-Nitrosodi-n-propylamine	3330	2650		ug/Kg		80	63 - 117
N-Nitrosodiphenylamine	3330	2940		ug/Kg		88	65 - 114
Pentachlorophenol	6670	6540		ug/Kg		98	56 - 116
Phenanthrene	3330	2950		ug/Kg		89	68 - 111
Phenol	3330	2710		ug/Kg		81	58 - 103
Pyrene	3330	2980		ug/Kg		89	64 - 121

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: LCS 460-610899/2-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610899

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	100		10 - 137
2-Fluorobiphenyl (Surr)	83		29 - 107
2-Fluorophenol (Surr)	78		20 - 115
Nitrobenzene-d5 (Surr)	76		25 - 113
Phenol-d5 (Surr)	80		28 - 109
Terphenyl-d14 (Surr)	83		27 - 123

Lab Sample ID: LCS 460-610899/4-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	5120		ug/Kg		77	62 - 137
Benzaldehyde	6670	5460		ug/Kg		82	52 - 113
Caprolactam	6670	9730		ug/Kg		146	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	121		10 - 137
2-Fluorobiphenyl (Surr)	102		29 - 107
2-Fluorophenol (Surr)	99		20 - 115
Nitrobenzene-d5 (Surr)	98		25 - 113
Phenol-d5 (Surr)	95		28 - 109
Terphenyl-d14 (Surr)	98		27 - 123

Lab Sample ID: LCSD 460-610899/3-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	3330	3140		ug/Kg		94	60 - 106	2	30
2,4,6-Trichlorophenol	3330	3140		ug/Kg		94	62 - 110	3	30
2,4-Dichlorophenol	3330	3210		ug/Kg		96	61 - 103	5	30
2,4-Dimethylphenol	3330	3050		ug/Kg		91	63 - 101	6	30
2,4-Dinitrophenol	6670	6980		ug/Kg		105	56 - 122	2	30
2,4-Dinitrotoluene	3330	3390		ug/Kg		102	66 - 122	2	30
2,6-Dinitrotoluene	3330	3360		ug/Kg		101	70 - 114	3	30
2-Chloronaphthalene	3330	3030		ug/Kg		91	63 - 107	5	30
2-Chlorophenol	3330	2940		ug/Kg		88	62 - 97	9	30
2-Methylnaphthalene	3330	3120		ug/Kg		94	65 - 104	8	30
2-Methylphenol	3330	2980		ug/Kg		89	61 - 103	9	30
2-Nitroaniline	3330	3000		ug/Kg		90	57 - 114	1	30
2-Nitrophenol	3330	3210		ug/Kg		96	65 - 104	12	30
3,3'-Dichlorobenzidine	3330	2790		ug/Kg		84	18 - 88	3	30
3-Nitroaniline	3330	2560		ug/Kg		77	30 - 94	5	30
4,6-Dinitro-2-methylphenol	6670	7330		ug/Kg		110	67 - 120	2	30
4-Bromophenyl phenyl ether	3330	3030		ug/Kg		91	59 - 122	1	30
4-Chloro-3-methylphenol	3330	3190		ug/Kg		96	62 - 111	3	30
4-Chloroaniline	3330	1990		ug/Kg		60	18 - 94	9	30

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: LCSD 460-610899/3-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	3330	3110		ug/Kg		93	66 - 110	2	30
4-Methylphenol	3330	2900		ug/Kg		87	61 - 105	5	30
4-Nitroaniline	3330	2740		ug/Kg		82	49 - 118	3	30
4-Nitrophenol	6670	5710		ug/Kg		86	43 - 141	4	30
Acenaphthene	3330	3030		ug/Kg		91	62 - 108	4	30
Acenaphthylene	3330	3080		ug/Kg		92	67 - 107	4	30
Acetophenone	3330	2910		ug/Kg		87	60 - 109	11	30
Anthracene	3330	3030		ug/Kg		91	69 - 111	3	30
Benzo[a]anthracene	3330	3000		ug/Kg		90	68 - 110	3	30
Benzo[a]pyrene	3330	3270		ug/Kg		98	72 - 115	2	30
Benzo[b]fluoranthene	3330	3500		ug/Kg		105	69 - 119	6	30
Benzo[g,h,i]perylene	3330	3180		ug/Kg		95	54 - 128	3	30
Benzo[k]fluoranthene	3330	3000		ug/Kg		90	70 - 115	1	30
Biphenyl	3330	3030		ug/Kg		91	64 - 108	7	30
bis (2-chloroisopropyl) ether	3330	2600		ug/Kg		78	39 - 122	12	30
Bis(2-chloroethoxy)methane	3330	2880		ug/Kg		86	65 - 106	10	30
Bis(2-chloroethyl)ether	3330	2920		ug/Kg		87	64 - 105	14	30
Bis(2-ethylhexyl) phthalate	3330	3090		ug/Kg		93	63 - 125	1	30
Butyl benzyl phthalate	3330	3050		ug/Kg		92	65 - 125	1	30
Carbazole	3330	2920		ug/Kg		88	66 - 115	3	30
Chrysene	3330	3040		ug/Kg		91	70 - 111	2	30
Dibenz(a,h)anthracene	3330	3670		ug/Kg		110	60 - 130	2	30
Dibenzofuran	3330	3070		ug/Kg		92	67 - 107	2	30
Diethyl phthalate	3330	3120		ug/Kg		94	66 - 117	2	30
Dimethyl phthalate	3330	3100		ug/Kg		93	68 - 112	2	30
Di-n-butyl phthalate	3330	3090		ug/Kg		93	67 - 119	2	30
Di-n-octyl phthalate	3330	3130		ug/Kg		94	57 - 138	3	30
Fluoranthene	3330	3070		ug/Kg		92	64 - 114	1	30
Fluorene	3330	3060		ug/Kg		92	66 - 110	2	30
Hexachlorobenzene	3330	3170		ug/Kg		95	57 - 128	1	30
Hexachlorobutadiene	3330	3150		ug/Kg		95	60 - 108	14	30
Hexachlorocyclopentadiene	3330	1900		ug/Kg		57	50 - 129	12	30
Hexachloroethane	3330	2880		ug/Kg		86	63 - 99	14	30
Indeno[1,2,3-cd]pyrene	3330	3530		ug/Kg		106	53 - 137	4	30
Isophorone	3330	2920		ug/Kg		87	68 - 111	8	30
Naphthalene	3330	3040		ug/Kg		91	65 - 102	13	30
Nitrobenzene	3330	3020		ug/Kg		91	66 - 108	10	30
N-Nitrosodi-n-propylamine	3330	2880		ug/Kg		87	63 - 117	8	30
N-Nitrosodiphenylamine	3330	3010		ug/Kg		90	65 - 114	2	30
Pentachlorophenol	6670	6640		ug/Kg		100	56 - 116	2	30
Phenanthrene	3330	2990		ug/Kg		90	68 - 111	1	30
Phenol	3330	2950		ug/Kg		88	58 - 103	8	30
Pyrene	3330	2990		ug/Kg		90	64 - 121	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	105		10 - 137
2-Fluorobiphenyl (Surr)	91		29 - 107
2-Fluorophenol (Surr)	90		20 - 115

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: LCSD 460-610899/3-A

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 610899

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	90		25 - 113
Phenol-d5 (Surr)	91		28 - 109
Terphenyl-d14 (Surr)	88		27 - 123

Lab Sample ID: 460-182200-1 MS

Matrix: Solid

Analysis Batch: 611228

Client Sample ID: PWEXBM04143

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	ND		4040	2760		ug/Kg	☼	68	60 - 106
2,4,6-Trichlorophenol	ND		4040	2900		ug/Kg	☼	72	62 - 110
2,4-Dichlorophenol	ND		4040	3040		ug/Kg	☼	75	61 - 103
2,4-Dimethylphenol	ND		4040	2720		ug/Kg	☼	67	63 - 101
2,4-Dinitrophenol	ND	F1 F2	8090	216	J	ug/Kg	☼	3	56 - 122
2,4-Dinitrotoluene	ND		4040	2440		ug/Kg	☼	60	66 - 122
2,6-Dinitrotoluene	ND	F1	4040	2470		ug/Kg	☼	61	70 - 114
2-Chloronaphthalene	ND		4040	2770		ug/Kg	☼	69	63 - 107
2-Chlorophenol	ND		4040	2760		ug/Kg	☼	68	62 - 97
2-Methylnaphthalene	ND		4040	2840		ug/Kg	☼	70	65 - 104
2-Methylphenol	ND		4040	2570		ug/Kg	☼	64	61 - 103
2-Nitroaniline	ND		4040	2190		ug/Kg	☼	54	57 - 114
2-Nitrophenol	ND	F1 F2	4040	1580		ug/Kg	☼	39	65 - 104
3,3'-Dichlorobenzidine	ND		4040	2640		ug/Kg	☼	65	18 - 88
3-Nitroaniline	ND		4040	2680		ug/Kg	☼	66	30 - 94
4,6-Dinitro-2-methylphenol	ND	F1 F2	8090	530		ug/Kg	☼	7	67 - 120
4-Bromophenyl phenyl ether	ND		4040	2800		ug/Kg	☼	69	59 - 122
4-Chloro-3-methylphenol	ND		4040	2820		ug/Kg	☼	70	62 - 111
4-Chloroaniline	ND		4040	2590		ug/Kg	☼	64	18 - 94
4-Chlorophenyl phenyl ether	ND		4040	2900		ug/Kg	☼	72	66 - 110
4-Methylphenol	ND	F2	4040	2190		ug/Kg	☼	54	61 - 105
4-Nitroaniline	ND		4040	2150		ug/Kg	☼	53	49 - 118
4-Nitrophenol	ND		8090	4260		ug/Kg	☼	53	43 - 141
Acenaphthene	35	J	4040	2460		ug/Kg	☼	60	62 - 108
Acenaphthylene	ND		4040	2750		ug/Kg	☼	68	67 - 107
Acetophenone	ND		4040	2390		ug/Kg	☼	59	60 - 109
Anthracene	24	J F1	4040	2570		ug/Kg	☼	63	69 - 111
Atrazine	ND		8090	5750		ug/Kg	☼	71	62 - 137
Benzaldehyde	ND	F2	8090	4540		ug/Kg	☼	56	52 - 113
Benzo[a]anthracene	15	J F1	4040	2540		ug/Kg	☼	62	68 - 110
Benzo[a]pyrene	ND	F1	4040	2530		ug/Kg	☼	63	72 - 115
Benzo[b]fluoranthene	ND	F1	4040	2790		ug/Kg	☼	69	69 - 119
Benzo[g,h,i]perylene	ND		4040	2250		ug/Kg	☼	56	54 - 128
Benzo[k]fluoranthene	ND	F1	4040	2690		ug/Kg	☼	66	70 - 115
Biphenyl	ND		4040	2800		ug/Kg	☼	69	64 - 108
bis (2-chloroisopropyl) ether	ND		4040	1990		ug/Kg	☼	49	39 - 122
Bis(2-chloroethoxy)methane	ND		4040	2620		ug/Kg	☼	65	65 - 106
Bis(2-chloroethyl)ether	ND	F2	4040	2460		ug/Kg	☼	61	64 - 105
Bis(2-ethylhexyl) phthalate	ND	F1	4040	2560		ug/Kg	☼	63	63 - 125

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: 460-182200-1 MS

Matrix: Solid

Analysis Batch: 611228

Client Sample ID: PWEXBM04143

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	ND	F1	4040	2710		ug/Kg	☼	67	65 - 125
Caprolactam	ND	F2	8090	1760		ug/Kg	☼	22	53 - 148
Carbazole	18	J F1	4040	2520		ug/Kg	☼	62	66 - 115
Chrysene	ND	F1	4040	2570		ug/Kg	☼	64	70 - 111
Dibenz(a,h)anthracene	ND		4040	2610		ug/Kg	☼	65	60 - 130
Dibenzofuran	31	J F1	4040	2820		ug/Kg	☼	69	67 - 107
Diethyl phthalate	ND		4040	2770		ug/Kg	☼	69	66 - 117
Dimethyl phthalate	ND		4040	2690		ug/Kg	☼	66	68 - 112
Di-n-butyl phthalate	ND	F1	4040	2630		ug/Kg	☼	65	67 - 119
Di-n-octyl phthalate	ND		4040	2630		ug/Kg	☼	65	57 - 138
Fluoranthene	47	J	4040	2660		ug/Kg	☼	65	64 - 114
Fluorene	86	J F1	4040	2860		ug/Kg	☼	69	66 - 110
Hexachlorobenzene	ND		4040	2630		ug/Kg	☼	65	57 - 128
Hexachlorobutadiene	ND		4040	2690		ug/Kg	☼	67	60 - 108
Hexachlorocyclopentadiene	ND	F1	4040	ND		ug/Kg	☼	0	50 - 129
Hexachloroethane	ND	F1 F2	4040	1730		ug/Kg	☼	43	63 - 99
Indeno[1,2,3-cd]pyrene	ND		4040	2650		ug/Kg	☼	66	53 - 137
Isophorone	ND		4040	2410		ug/Kg	☼	60	68 - 111
Naphthalene	21	J	4040	2640		ug/Kg	☼	65	65 - 102
Nitrobenzene	ND		4040	2500		ug/Kg	☼	62	66 - 108
N-Nitrosodi-n-propylamine	ND	F2	4040	2360		ug/Kg	☼	58	63 - 117
N-Nitrosodiphenylamine	ND		4040	2680		ug/Kg	☼	66	65 - 114
Pentachlorophenol	ND		8090	4000		ug/Kg	☼	49	56 - 116
Phenanthrene	13	J F1	4040	2590		ug/Kg	☼	64	68 - 111
Phenol	ND	F2	4040	2450		ug/Kg	☼	61	58 - 103
Pyrene	30	J F1	4040	2700		ug/Kg	☼	66	64 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	76		10 - 137
2-Fluorobiphenyl (Surr)	73		29 - 107
2-Fluorophenol (Surr)	67		20 - 115
Nitrobenzene-d5 (Surr)	59		25 - 113
Phenol-d5 (Surr)	63		28 - 109
Terphenyl-d14 (Surr)	68		27 - 123

Lab Sample ID: 460-182200-1 MSD

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: PWEXBM04143

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
2,4,5-Trichlorophenol	ND		4040	2830		ug/Kg	☼	70	60 - 106	2	30
2,4,6-Trichlorophenol	ND		4040	2750		ug/Kg	☼	68	62 - 110	5	30
2,4-Dichlorophenol	ND		4040	3130		ug/Kg	☼	77	61 - 103	3	30
2,4-Dimethylphenol	ND		4040	3150		ug/Kg	☼	78	63 - 101	15	30
2,4-Dinitrophenol	ND	F1 F2	8090	633	F1 F2	ug/Kg	☼	8	56 - 122	98	30
2,4-Dinitrotoluene	ND		4040	2670		ug/Kg	☼	66	66 - 122	9	30
2,6-Dinitrotoluene	ND	F1	4040	2640	F1	ug/Kg	☼	65	70 - 114	7	30
2-Chloronaphthalene	ND		4040	2700		ug/Kg	☼	67	63 - 107	3	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: 460-182200-1 MSD

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: PWEXBM04143

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol	ND		4040	3330		ug/Kg	☼	82	62 - 97	19	30
2-Methylnaphthalene	ND		4040	2920		ug/Kg	☼	72	65 - 104	3	30
2-Methylphenol	ND		4040	3380		ug/Kg	☼	83	61 - 103	27	30
2-Nitroaniline	ND		4040	2790		ug/Kg	☼	69	57 - 114	24	30
2-Nitrophenol	ND	F1 F2	4040	2230	F1 F2	ug/Kg	☼	55	65 - 104	34	30
3,3'-Dichlorobenzidine	ND		4040	2770		ug/Kg	☼	68	18 - 88	5	30
3-Nitroaniline	ND		4040	3070		ug/Kg	☼	76	30 - 94	14	30
4,6-Dinitro-2-methylphenol	ND	F1 F2	8090	1120	F1 F2	ug/Kg	☼	14	67 - 120	72	30
4-Bromophenyl phenyl ether	ND		4040	2540		ug/Kg	☼	63	59 - 122	10	30
4-Chloro-3-methylphenol	ND		4040	3200		ug/Kg	☼	79	62 - 111	13	30
4-Chloroaniline	ND		4040	2910		ug/Kg	☼	72	18 - 94	12	30
4-Chlorophenyl phenyl ether	ND		4040	2700		ug/Kg	☼	67	66 - 110	7	30
4-Methylphenol	ND	F2	4040	3290	F2	ug/Kg	☼	81	61 - 105	40	30
4-Nitroaniline	ND		4040	2690		ug/Kg	☼	67	49 - 118	22	30
4-Nitrophenol	ND		8090	5480		ug/Kg	☼	68	43 - 141	25	30
Acenaphthene	35	J	4040	2670		ug/Kg	☼	65	62 - 108	8	30
Acenaphthylene	ND		4040	2740		ug/Kg	☼	68	67 - 107	0	30
Acetophenone	ND		4040	3180		ug/Kg	☼	79	60 - 109	28	30
Anthracene	24	J F1	4040	2600	F1	ug/Kg	☼	64	69 - 111	1	30
Atrazine	ND		8090	5990		ug/Kg	☼	74	62 - 137	4	30
Benzaldehyde	ND	F2	8090	6190	F2	ug/Kg	☼	76	52 - 113	31	30
Benzo[a]anthracene	15	J F1	4040	2460	F1	ug/Kg	☼	61	68 - 110	3	30
Benzo[a]pyrene	ND	F1	4040	2580	F1	ug/Kg	☼	64	72 - 115	2	30
Benzo[b]fluoranthene	ND	F1	4040	2710	F1	ug/Kg	☼	67	69 - 119	3	30
Benzo[g,h,i]perylene	ND		4040	2570		ug/Kg	☼	63	54 - 128	13	30
Benzo[k]fluoranthene	ND	F1	4040	2490	F1	ug/Kg	☼	62	70 - 115	7	30
Biphenyl	ND		4040	2680		ug/Kg	☼	66	64 - 108	4	30
bis (2-chloroisopropyl) ether	ND		4040	2560		ug/Kg	☼	63	39 - 122	25	30
Bis(2-chloroethoxy)methane	ND		4040	2970		ug/Kg	☼	73	65 - 106	12	30
Bis(2-chloroethyl)ether	ND	F2	4040	3350	F2	ug/Kg	☼	83	64 - 105	31	30
Bis(2-ethylhexyl) phthalate	ND	F1	4040	2460	F1	ug/Kg	☼	61	63 - 125	4	30
Butyl benzyl phthalate	ND	F1	4040	2490	F1	ug/Kg	☼	62	65 - 125	8	30
Caprolactam	ND	F2	8090	7210	F2	ug/Kg	☼	89	53 - 148	121	30
Carbazole	18	J F1	4040	2520	F1	ug/Kg	☼	62	66 - 115	0	30
Chrysene	ND	F1	4040	2570	F1	ug/Kg	☼	64	70 - 111	0	30
Dibenz(a,h)anthracene	ND		4040	3020		ug/Kg	☼	75	60 - 130	15	30
Dibenzofuran	31	J F1	4040	2720	F1	ug/Kg	☼	66	67 - 107	4	30
Diethyl phthalate	ND		4040	2870		ug/Kg	☼	71	66 - 117	4	30
Dimethyl phthalate	ND		4040	3040		ug/Kg	☼	75	68 - 112	12	30
Di-n-butyl phthalate	ND	F1	4040	2620	F1	ug/Kg	☼	65	67 - 119	0	30
Di-n-octyl phthalate	ND		4040	2450		ug/Kg	☼	61	57 - 138	7	30
Fluoranthene	47	J	4040	2620		ug/Kg	☼	64	64 - 114	1	30
Fluorene	86	J F1	4040	2710	F1	ug/Kg	☼	65	66 - 110	5	30
Hexachlorobenzene	ND		4040	2580		ug/Kg	☼	64	57 - 128	2	30
Hexachlorobutadiene	ND		4040	2730		ug/Kg	☼	67	60 - 108	1	30
Hexachlorocyclopentadiene	ND	F1	4040	527	F1	ug/Kg	☼	13	50 - 129	NC	30
Hexachloroethane	ND	F1 F2	4040	2410	F1 F2	ug/Kg	☼	60	63 - 99	33	30
Indeno[1,2,3-cd]pyrene	ND		4040	2540		ug/Kg	☼	63	53 - 137	4	30
Isophorone	ND		4040	3000		ug/Kg	☼	74	68 - 111	22	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

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

Lab Sample ID: 460-182200-1 MSD

Matrix: Solid

Analysis Batch: 610928

Client Sample ID: PWEXBM04143

Prep Type: Total/NA

Prep Batch: 610899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	21	J	4040	2890		ug/Kg	☼	71	65 - 102	9	30
Nitrobenzene	ND		4040	3060		ug/Kg	☼	76	66 - 108	20	30
N-Nitrosodi-n-propylamine	ND	F2	4040	3270	F2	ug/Kg	☼	81	63 - 117	32	30
N-Nitrosodiphenylamine	ND		4040	2620		ug/Kg	☼	65	65 - 114	2	30
Pentachlorophenol	ND		8090	5290		ug/Kg	☼	65	56 - 116	28	30
Phenanthrene	13	J F1	4040	2550	F1	ug/Kg	☼	63	68 - 111	2	30
Phenol	ND	F2	4040	3540	F2	ug/Kg	☼	88	58 - 103	37	30
Pyrene	30	J F1	4040	2510	F1	ug/Kg	☼	61	64 - 121	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	75		10 - 137
2-Fluorobiphenyl (Surr)	65		29 - 107
2-Fluorophenol (Surr)	82		20 - 115
Nitrobenzene-d5 (Surr)	69		25 - 113
Phenol-d5 (Surr)	83		28 - 109
Terphenyl-d14 (Surr)	56		27 - 123

QC Association Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

GC/MS VOA

Prep Batch: 611500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182200-1	PWEXBM04143	Total/NA	Solid	5035	
460-182200-2	PWEXBM04140	Total/NA	Solid	5035	
LB3 460-611500/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 611522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182200-1	PWEXBM04143	Total/NA	Solid	8260C	611500
460-182200-2	PWEXBM04140	Total/NA	Solid	8260C	611500
LB3 460-611500/1-A	Method Blank	Total/NA	Solid	8260C	611500
MB 460-611522/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-611522/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-611522/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 610899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182200-1	PWEXBM04143	Total/NA	Solid	3546	
460-182200-2	PWEXBM04140	Total/NA	Solid	3546	
MB 460-610899/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-610899/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-610899/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-610899/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-182200-1 MS	PWEXBM04143	Total/NA	Solid	3546	
460-182200-1 MSD	PWEXBM04143	Total/NA	Solid	3546	

Analysis Batch: 610928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182200-1	PWEXBM04143	Total/NA	Solid	8270D	610899
460-182200-2	PWEXBM04140	Total/NA	Solid	8270D	610899
MB 460-610899/1-A	Method Blank	Total/NA	Solid	8270D	610899
LCS 460-610899/2-A	Lab Control Sample	Total/NA	Solid	8270D	610899
LCS 460-610899/4-A	Lab Control Sample	Total/NA	Solid	8270D	610899
LCSD 460-610899/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	610899
460-182200-1 MSD	PWEXBM04143	Total/NA	Solid	8270D	610899

Analysis Batch: 611228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182200-1 MS	PWEXBM04143	Total/NA	Solid	8270D	610899

General Chemistry

Analysis Batch: 611213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182200-1	PWEXBM04143	Total/NA	Solid	Moisture	
460-182200-2	PWEXBM04140	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Client Sample ID: PWEXBM04143

Date Collected: 05/16/19 10:23

Date Received: 05/17/19 09:40

Lab Sample ID: 460-182200-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	611213	05/19/19 20:52	APV	TAL EDI

Client Sample ID: PWEXBM04143

Date Collected: 05/16/19 10:23

Date Received: 05/17/19 09:40

Lab Sample ID: 460-182200-1

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			611500	05/20/19 23:41	AVM	TAL EDI
Total/NA	Analysis	8260C		1	611522	05/21/19 09:02	AAT	TAL EDI
Total/NA	Prep	3546			610899	05/17/19 19:03	GRB	TAL EDI
Total/NA	Analysis	8270D		1	610928	05/18/19 02:42	YAH	TAL EDI

Client Sample ID: PWEXBM04140

Date Collected: 05/16/19 12:50

Date Received: 05/17/19 09:40

Lab Sample ID: 460-182200-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	611213	05/19/19 20:52	APV	TAL EDI

Client Sample ID: PWEXBM04140

Date Collected: 05/16/19 12:50

Date Received: 05/17/19 09:40

Lab Sample ID: 460-182200-2

Matrix: Solid

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			611500	05/20/19 23:42	AVM	TAL EDI
Total/NA	Analysis	8260C		1	611522	05/21/19 09:26	AAT	TAL EDI
Total/NA	Prep	3546			610899	05/17/19 19:03	GRB	TAL EDI
Total/NA	Analysis	8270D		1	610928	05/18/19 03:33	YAH	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182200-1

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-20

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

Client: AECOM

Job ID: 460-182200-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AECOM

Job ID: 460-182200-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Assest ID
460-182200-1	PWEXBM04143	Solid	05/16/19 10:23	05/17/19 09:40	
460-182200-2	PWEXBM04140	Solid	05/16/19 12:50	05/17/19 09:40	

Client Information Client Contact: George Hermance Phone: 716-861-7882 Company: AECOM		Lab PM: Devo, Melissa L E-Mail: melissa.devo@restamericainc.com		Carrier Tracking No(s): 480-128476-28976.1		COC No: 480-128476-28976.1	
Address: 150 Water Street City: Penn Yan State, Zip: NY, 14527 Phone: 716-861-7882 Email: George.Hermance@aecom.com		Due Date Requested: 5/20/2019 TAT Requested (days): 48 Hour per Melissa Devo		Job #: 182200		Page: 1 of 2	
Project Name: 60584654, Penn Yan Former MGP Phase 2 Site:		PO #: 107852 WO #: Matthew.Thorpe@aecom.com		Analysis Requested		Job #:	
Sample Identification PWEXBM04143 PWEXBM04140		Sample Date 5/16/19 5/16/19		Sample Time 1023 1250		Sample Type G G	
Matrix (Non-aqueous, Organic, Inorganic, etc.)		Preservation Code:		Field Filtered Sample (Yes or No)		8270D - TCL SVOCs + 20 TICs 8260C - TCL VOCs + TICs	
Total Number of Containers		Special Instructions/Note:		Total Number of Containers		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - other (specify)	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:		Date/Time:	
Relinquished by: George Hermance		Date/Time: 5/16/17 1500		Received by: FedEx		Date/Time:	
Relinquished by:		Date/Time:		Received by: Angela Pilla		Date/Time: 5/17/19 9:40	
Relinquished by:		Date/Time:		Received by: via FedEx		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.: 832183		Cooler Temperature(s) °C and Other Remarks: 2.5°C IR #9		Company:	

Job Number:

Number of Coolers:

IR Gun #

Cooler Temperatures

RAW		CORRECTED		RAW		CORRECTED	
Goblet #1:	2.5°C	2.5°C	Cooler #4:	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	Cooler #9:	°C	°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

Date:

EDS-WI-038, Rev 4, 06/09/2014

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-182200-1

Login Number: 182200

List Number: 1

Creator: Lysy, Susan

List Source: Eurofins TestAmerica, Edison

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.	True	832183
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	
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.	False	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-182200-1

Login Number: 182200

List Number: 2

Creator: Lysy, Susan

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	832183
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

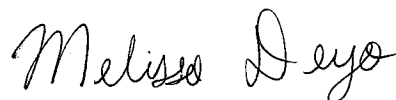
Laboratory Job ID: 460-182351-1

Client Project/Site: 60584654, Penn Yan Former MGP Phase 2

For:

AECOM
40 British American Blvd
Latham, New York 12110

Attn: Mr. Matt Thorpe



Authorized for release by:
5/21/2019 4:45:55 PM

Melissa Deyo, Project Manager I
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Definitions/Glossary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.

GC/MS VOA TICs

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

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)

Case Narrative

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Job ID: 460-182351-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-182351-1

Receipt

The sample was received on 5/18/2019 11:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

Receipt Exceptions

The following samples analyzed for method 8260C were received and analyzed from an unpreserved bulk soil jar: PWEXBM04138 (460-182351-1).

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 460-611522 was outside the method criteria for the following analytes: Bromoform (biased low) and Methyl acetate (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 460-611522 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 460-611223 was outside the method criteria for the following analyte(s): 4-Nitrophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits due to poor performance. The LCS associated with batch 460-611146 had (Hexachlorocyclopentadiene) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 460-611146 and analytical batch 460-611223 recovered outside control limits for the following analyte(s): Atrazine and Caprolactam. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

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

Organic Prep

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

VOA Prep

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

Detection Summary

Client: AECOM

Job ID: 460-182351-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Client Sample ID: PWEXBM04138

Lab Sample ID: 460-182351-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.72	J B	1.1	0.17	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Client Sample ID: PWEXBM04138

Lab Sample ID: 460-182351-1

Date Collected: 05/17/19 08:50

Matrix: Solid

Date Received: 05/18/19 11:30

Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.25	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.32	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,2,4-Trichlorobenzene	ND		1.1	0.098	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.49	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,2-Dibromoethane	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,2-Dichlorobenzene	ND		1.1	0.15	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,2-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,2-Dichloropropane	ND		1.1	0.45	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,3-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
1,4-Dichlorobenzene	ND		1.1	0.11	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
2-Butanone (MEK)	ND		5.3	1.2	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
2-Hexanone	ND		5.3	0.83	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.3	0.71	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Acetone	ND		5.3	4.0	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Benzene	ND		1.1	0.27	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Bromodichloromethane	ND		1.1	0.27	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Bromoform	ND		1.1	0.45	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Bromomethane	ND		1.1	0.50	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Carbon disulfide	ND		1.1	0.28	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Carbon tetrachloride	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Chloroethane	ND		1.1	0.56	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Chloroform	ND		1.1	0.34	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Chloromethane	ND		1.1	0.46	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
cis-1,2-Dichloroethene	ND		1.1	0.16	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
cis-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Cyclohexane	ND		1.1	0.24	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Dibromochloromethane	ND		1.1	0.21	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Dichlorodifluoromethane	ND		1.1	0.36	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Ethylbenzene	ND		1.1	0.21	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Isopropylbenzene	ND		1.1	0.13	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Methyl acetate	ND *		5.3	4.6	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Methyl tert-butyl ether	ND		1.1	0.13	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Methylcyclohexane	ND		1.1	0.17	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Methylene Chloride	0.72	J B	1.1	0.17	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Styrene	ND		1.1	0.13	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Tetrachloroethene	ND		1.1	0.15	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Toluene	ND		1.1	0.67	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
trans-1,2-Dichloroethene	ND		1.1	0.26	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
trans-1,3-Dichloropropene	ND		1.1	0.28	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Trichloroethene	ND		1.1	0.15	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Trichlorofluoromethane	ND		1.1	0.43	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Vinyl chloride	ND		1.1	0.58	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1
Xylenes, Total	ND		2.1	0.27	ug/Kg	☼	05/20/19 23:43	05/21/19 09:51	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Client Sample ID: PWEXBM04138

Lab Sample ID: 460-182351-1

Date Collected: 05/17/19 08:50

Matrix: Solid

Date Received: 05/18/19 11:30

Percent Solids: 87.7

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/Kg</i>	<i>☼</i>			<i>05/20/19 23:43</i>	<i>05/21/19 09:51</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		78 - 135				05/20/19 23:43	05/21/19 09:51	1
4-Bromofluorobenzene	99		67 - 126				05/20/19 23:43	05/21/19 09:51	1
Dibromofluoromethane (Surr)	102		61 - 149				05/20/19 23:43	05/21/19 09:51	1
Toluene-d8 (Surr)	104		73 - 121				05/20/19 23:43	05/21/19 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		380	12	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2,4,6-Trichlorophenol	ND		150	19	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2,4-Dichlorophenol	ND		150	8.0	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2,4-Dimethylphenol	ND		380	17	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2,4-Dinitrophenol	ND		300	180	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2,4-Dinitrotoluene	ND		76	19	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2,6-Dinitrotoluene	ND		76	12	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2-Chloronaphthalene	ND		380	17	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2-Chlorophenol	ND		380	5.3	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2-Methylnaphthalene	ND		380	4.7	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2-Methylphenol	ND		380	6.1	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2-Nitroaniline	ND		380	14	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
2-Nitrophenol	ND		380	12	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
3,3'-Dichlorobenzidine	ND		150	57	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
3-Nitroaniline	ND		380	20	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4,6-Dinitro-2-methylphenol	ND		300	61	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4-Bromophenyl phenyl ether	ND		380	4.9	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4-Chloro-3-methylphenol	ND		380	6.3	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4-Chloroaniline	ND		380	26	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4-Chlorophenyl phenyl ether	ND		380	5.9	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4-Methylphenol	ND		380	6.4	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4-Nitroaniline	ND		380	14	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
4-Nitrophenol	ND		760	61	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Acenaphthene	ND		380	27	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Acenaphthylene	ND		380	3.9	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Acetophenone	ND		380	6.1	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Anthracene	ND		380	4.2	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Atrazine	ND *		150	9.5	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Benzaldehyde	ND *		380	16	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Benzo[a]anthracene	ND		38	13	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Benzo[a]pyrene	ND		38	10	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Benzo[b]fluoranthene	ND		38	9.7	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Benzo[g,h,i]perylene	ND		380	11	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Benzo[k]fluoranthene	ND		38	7.4	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Biphenyl	ND		380	5.0	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
bis (2-chloroisopropyl) ether	ND		380	6.8	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Bis(2-chloroethoxy)methane	ND		380	13	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Bis(2-chloroethyl)ether	ND		38	4.6	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Bis(2-ethylhexyl) phthalate	ND		380	20	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Butyl benzyl phthalate	ND		380	18	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Client Sample ID: PWEXBM04138

Lab Sample ID: 460-182351-1

Date Collected: 05/17/19 08:50

Matrix: Solid

Date Received: 05/18/19 11:30

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		380	23	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Carbazole	ND		380	4.4	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Chrysene	ND		380	6.4	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Dibenz(a,h)anthracene	ND		38	16	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Dibenzofuran	ND		380	5.3	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Diethyl phthalate	ND		380	5.5	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Dimethyl phthalate	ND		380	4.5	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Di-n-butyl phthalate	ND		380	66	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Di-n-octyl phthalate	ND		380	20	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Fluoranthene	ND		380	4.9	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Fluorene	ND		380	5.1	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Hexachlorobenzene	ND		38	5.5	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Hexachlorobutadiene	ND		76	8.0	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Hexachlorocyclopentadiene	ND *		380	33	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Hexachloroethane	ND		38	5.8	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Indeno[1,2,3-cd]pyrene	ND		38	15	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Isophorone	ND		150	9.9	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Naphthalene	ND		380	6.5	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Nitrobenzene	ND		38	9.0	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
N-Nitrosodi-n-propylamine	ND		38	6.0	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
N-Nitrosodiphenylamine	ND		380	7.2	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Pentachlorophenol	ND		300	77	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Phenanthrene	ND		380	6.6	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Phenol	ND		380	5.6	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1
Pyrene	ND		380	9.4	ug/Kg	☼	05/19/19 11:06	05/20/19 02:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			05/19/19 11:06	05/20/19 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		10 - 137	05/19/19 11:06	05/20/19 02:51	1
2-Fluorobiphenyl (Surr)	59		29 - 107	05/19/19 11:06	05/20/19 02:51	1
2-Fluorophenol (Surr)	65		20 - 115	05/19/19 11:06	05/20/19 02:51	1
Nitrobenzene-d5 (Surr)	56		25 - 113	05/19/19 11:06	05/20/19 02:51	1
Phenol-d5 (Surr)	66		28 - 109	05/19/19 11:06	05/20/19 02:51	1
Terphenyl-d14 (Surr)	58		27 - 123	05/19/19 11:06	05/20/19 02:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		1.0	1.0	%			05/19/19 22:35	1
Percent Solids	87.7		1.0	1.0	%			05/19/19 22:35	1

Eurofins TestAmerica, Edison

Surrogate Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (78-135)	BFB (67-126)	DBFM (61-149)	TOL (73-121)
460-182351-1	PWEXBM04138	130	99	102	104
LB3 460-611500/1-A	Method Blank	113	102	97	109
LCS 460-611522/3	Lab Control Sample	113	101	99	109
LCSD 460-611522/4	Lab Control Sample Dup	120	108	103	117
MB 460-611522/8	Method Blank	118	102	99	108

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-137)	FBP (29-107)	2FP (20-115)	NBZ (25-113)	PHL (28-109)	TPHL (27-123)
460-182351-1	PWEXBM04138	57	59	65	56	66	58
LCS 460-611146/2-A	Lab Control Sample	87	77	78	75	78	83
LCS 460-611146/4-A	Lab Control Sample	70	63	65	60	64	64
MB 460-611146/1-A	Method Blank	73	66	70	63	68	69

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

QC Sample Results

Client: AECOM

Job ID: 460-182351-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-611500/1-A

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 611500

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
2-Hexanone	ND		5.0	0.78	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Acetone	ND		5.0	3.8	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Benzene	ND		1.0	0.26	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Bromoform	ND		1.0	0.43	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Bromomethane	ND		1.0	0.47	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Carbon disulfide	ND		1.0	0.27	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chlorobenzene	ND		1.0	0.18	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chloroethane	ND		1.0	0.52	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chloroform	ND		1.0	0.32	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Chloromethane	ND		1.0	0.44	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Cyclohexane	ND		1.0	0.22	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Ethylbenzene	ND		1.0	0.20	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methyl acetate	ND		5.0	4.3	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Methylene Chloride	0.203	J	1.0	0.16	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Styrene	ND		1.0	0.12	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Toluene	ND		1.0	0.63	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Trichloroethene	ND		1.0	0.14	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Vinyl chloride	ND		1.0	0.55	ug/Kg		05/20/19 23:41	05/21/19 08:37	1
Xylenes, Total	ND		2.0	0.25	ug/Kg		05/20/19 23:41	05/21/19 08:37	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: LB3 460-611500/1-A

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 611500

	LB3	LB3							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
n-Butyl acetate	0.521	J	ug/Kg		8.76	123-86-4	05/20/19 23:41	05/21/19 08:37	1
n-Butyl acrylate	0.297	J	ug/Kg		9.78	141-32-2	05/20/19 23:41	05/21/19 08:37	1
Naphthalene	0.493	J	ug/Kg		13.08	91-20-3	05/20/19 23:41	05/21/19 08:37	1
Tentatively Identified Compound	None		ug/Kg				05/20/19 23:41	05/21/19 08:37	1

	LB3	LB3							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		78 - 135				05/20/19 23:41	05/21/19 08:37	1
4-Bromofluorobenzene	102		67 - 126				05/20/19 23:41	05/21/19 08:37	1
Dibromofluoromethane (Surr)	97		61 - 149				05/20/19 23:41	05/21/19 08:37	1
Toluene-d8 (Surr)	109		73 - 121				05/20/19 23:41	05/21/19 08:37	1

Lab Sample ID: MB 460-611522/8

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			05/21/19 08:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			05/21/19 08:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			05/21/19 08:08	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			05/21/19 08:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			05/21/19 08:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			05/21/19 08:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			05/21/19 08:08	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			05/21/19 08:08	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			05/21/19 08:08	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			05/21/19 08:08	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			05/21/19 08:08	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			05/21/19 08:08	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			05/21/19 08:08	1
2-Hexanone	ND		5.0	0.78	ug/Kg			05/21/19 08:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			05/21/19 08:08	1
Acetone	ND		5.0	3.8	ug/Kg			05/21/19 08:08	1
Benzene	ND		1.0	0.26	ug/Kg			05/21/19 08:08	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			05/21/19 08:08	1
Bromoform	ND		1.0	0.43	ug/Kg			05/21/19 08:08	1
Bromomethane	ND		1.0	0.47	ug/Kg			05/21/19 08:08	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			05/21/19 08:08	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			05/21/19 08:08	1
Chloroethane	ND		1.0	0.52	ug/Kg			05/21/19 08:08	1
Chloroform	ND		1.0	0.32	ug/Kg			05/21/19 08:08	1
Chloromethane	ND		1.0	0.44	ug/Kg			05/21/19 08:08	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			05/21/19 08:08	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/21/19 08:08	1
Cyclohexane	ND		1.0	0.22	ug/Kg			05/21/19 08:08	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			05/21/19 08:08	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: MB 460-611522/8

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			05/21/19 08:08	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			05/21/19 08:08	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			05/21/19 08:08	1
Methyl acetate	ND		5.0	4.3	ug/Kg			05/21/19 08:08	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			05/21/19 08:08	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			05/21/19 08:08	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			05/21/19 08:08	1
Styrene	ND		1.0	0.12	ug/Kg			05/21/19 08:08	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			05/21/19 08:08	1
Toluene	ND		1.0	0.63	ug/Kg			05/21/19 08:08	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			05/21/19 08:08	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/21/19 08:08	1
Trichloroethene	ND		1.0	0.14	ug/Kg			05/21/19 08:08	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			05/21/19 08:08	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			05/21/19 08:08	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			05/21/19 08:08	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
n-Butyl acetate	0.270	J	ug/Kg		8.77	123-86-4		05/21/19 08:08	1
n-Butyl acrylate	0.294	J	ug/Kg		9.78	141-32-2		05/21/19 08:08	1
Naphthalene	0.441	J	ug/Kg		13.07	91-20-3		05/21/19 08:08	1
Tentatively Identified Compound	None		ug/Kg					05/21/19 08:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		78 - 135		05/21/19 08:08	1
4-Bromofluorobenzene	102		67 - 126		05/21/19 08:08	1
Dibromofluoromethane (Surr)	99		61 - 149		05/21/19 08:08	1
Toluene-d8 (Surr)	108		73 - 121		05/21/19 08:08	1

Lab Sample ID: LCS 460-611522/3

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.0		ug/Kg		95	80 - 125
1,1,2,2-Tetrachloroethane	20.0	22.2		ug/Kg		111	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.3		ug/Kg		96	78 - 132
1,1,2-Trichloroethane	20.0	20.5		ug/Kg		103	76 - 124
1,1-Dichloroethane	20.0	20.9		ug/Kg		104	80 - 124
1,1-Dichloroethene	20.0	19.3		ug/Kg		97	79 - 132
1,2,4-Trichlorobenzene	20.0	19.8		ug/Kg		99	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/Kg		93	65 - 129
1,2-Dibromoethane	20.0	18.3		ug/Kg		91	80 - 122
1,2-Dichlorobenzene	20.0	18.4		ug/Kg		92	80 - 121
1,2-Dichloroethane	20.0	20.7		ug/Kg		103	68 - 120
1,2-Dichloropropane	20.0	21.4		ug/Kg		107	77 - 124
1,3-Dichlorobenzene	20.0	18.3		ug/Kg		92	79 - 124

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: LCS 460-611522/3

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	20.0	17.8		ug/Kg		89	79 - 121
2-Butanone (MEK)	100	80.2		ug/Kg		80	61 - 140
2-Hexanone	100	85.9		ug/Kg		86	78 - 120
4-Methyl-2-pentanone (MIBK)	100	94.8		ug/Kg		95	80 - 120
Acetone	100	88.7		ug/Kg		89	75 - 120
Benzene	20.0	22.1		ug/Kg		110	75 - 127
Bromodichloromethane	20.0	18.5		ug/Kg		93	76 - 129
Bromoform	20.0	15.0		ug/Kg		75	19 - 150
Bromomethane	20.0	19.2		ug/Kg		96	59 - 136
Carbon disulfide	20.0	18.9		ug/Kg		94	74 - 130
Carbon tetrachloride	20.0	17.7		ug/Kg		89	77 - 138
Chlorobenzene	20.0	18.9		ug/Kg		94	80 - 120
Chloroethane	20.0	19.9		ug/Kg		100	50 - 139
Chloroform	20.0	20.0		ug/Kg		100	80 - 122
Chloromethane	20.0	22.4		ug/Kg		112	66 - 128
cis-1,2-Dichloroethene	20.0	19.3		ug/Kg		97	80 - 123
cis-1,3-Dichloropropene	20.0	20.3		ug/Kg		102	75 - 124
Cyclohexane	20.0	20.3		ug/Kg		101	67 - 135
Dibromochloromethane	20.0	16.3		ug/Kg		82	67 - 143
Dichlorodifluoromethane	20.0	21.3		ug/Kg		106	72 - 127
Ethylbenzene	20.0	18.9		ug/Kg		95	79 - 124
Isopropylbenzene	20.0	19.5		ug/Kg		98	80 - 125
Methyl acetate	40.0	47.8		ug/Kg		120	73 - 123
Methyl tert-butyl ether	20.0	19.4		ug/Kg		97	80 - 120
Methylcyclohexane	20.0	21.0		ug/Kg		105	71 - 137
Methylene Chloride	20.0	19.6		ug/Kg		98	79 - 128
Styrene	20.0	19.2		ug/Kg		96	78 - 123
Tetrachloroethene	20.0	18.5		ug/Kg		92	73 - 130
Toluene	20.0	20.4		ug/Kg		102	75 - 122
trans-1,2-Dichloroethene	20.0	19.2		ug/Kg		96	80 - 129
trans-1,3-Dichloropropene	20.0	19.2		ug/Kg		96	72 - 121
Trichloroethene	20.0	19.2		ug/Kg		96	79 - 122
Trichlorofluoromethane	20.0	19.5		ug/Kg		98	68 - 136
Vinyl chloride	20.0	22.0		ug/Kg		110	70 - 134
Xylenes, Total	40.0	38.5		ug/Kg		96	79 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		78 - 135
4-Bromofluorobenzene	101		67 - 126
Dibromofluoromethane (Surr)	99		61 - 149
Toluene-d8 (Surr)	109		73 - 121

Lab Sample ID: LCSD 460-611522/4

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	19.8		ug/Kg		99	80 - 125	4	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: LCSD 460-611522/4

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	20.0	24.8		ug/Kg		124	72 - 131	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.2		ug/Kg		101	78 - 132	5	30
1,1,2-Trichloroethane	20.0	21.8		ug/Kg		109	76 - 124	6	30
1,1-Dichloroethane	20.0	22.3		ug/Kg		111	80 - 124	7	30
1,1-Dichloroethene	20.0	20.1		ug/Kg		101	79 - 132	4	30
1,2,4-Trichlorobenzene	20.0	21.1		ug/Kg		106	74 - 124	6	30
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/Kg		104	65 - 129	11	30
1,2-Dibromoethane	20.0	19.3		ug/Kg		97	80 - 122	6	30
1,2-Dichlorobenzene	20.0	20.1		ug/Kg		100	80 - 121	9	30
1,2-Dichloroethane	20.0	21.9		ug/Kg		110	68 - 120	6	30
1,2-Dichloropropane	20.0	22.8		ug/Kg		114	77 - 124	6	30
1,3-Dichlorobenzene	20.0	20.0		ug/Kg		100	79 - 124	9	30
1,4-Dichlorobenzene	20.0	19.9		ug/Kg		99	79 - 121	11	30
2-Butanone (MEK)	100	84.4		ug/Kg		84	61 - 140	5	30
2-Hexanone	100	91.5		ug/Kg		92	78 - 120	6	30
4-Methyl-2-pentanone (MIBK)	100	100		ug/Kg		100	80 - 120	6	30
Acetone	100	95.0		ug/Kg		95	75 - 120	7	30
Benzene	20.0	23.6		ug/Kg		118	75 - 127	7	30
Bromodichloromethane	20.0	19.8		ug/Kg		99	76 - 129	7	30
Bromoform	20.0	16.2		ug/Kg		81	19 - 150	7	30
Bromomethane	20.0	20.3		ug/Kg		102	59 - 136	6	30
Carbon disulfide	20.0	19.8		ug/Kg		99	74 - 130	5	30
Carbon tetrachloride	20.0	18.5		ug/Kg		92	77 - 138	4	30
Chlorobenzene	20.0	20.2		ug/Kg		101	80 - 120	7	30
Chloroethane	20.0	21.0		ug/Kg		105	50 - 139	5	30
Chloroform	20.0	21.3		ug/Kg		107	80 - 122	6	30
Chloromethane	20.0	23.5		ug/Kg		118	66 - 128	5	30
cis-1,2-Dichloroethene	20.0	20.9		ug/Kg		104	80 - 123	8	30
cis-1,3-Dichloropropene	20.0	21.5		ug/Kg		107	75 - 124	6	30
Cyclohexane	20.0	21.6		ug/Kg		108	67 - 135	7	30
Dibromochloromethane	20.0	17.5		ug/Kg		88	67 - 143	7	30
Dichlorodifluoromethane	20.0	22.6		ug/Kg		113	72 - 127	6	30
Ethylbenzene	20.0	20.6		ug/Kg		103	79 - 124	9	30
Isopropylbenzene	20.0	21.4		ug/Kg		107	80 - 125	9	30
Methyl acetate	40.0	52.8	*	ug/Kg		132	73 - 123	10	30
Methyl tert-butyl ether	20.0	20.6		ug/Kg		103	80 - 120	6	30
Methylcyclohexane	20.0	22.3		ug/Kg		112	71 - 137	6	30
Methylene Chloride	20.0	20.4		ug/Kg		102	79 - 128	4	30
Styrene	20.0	20.3		ug/Kg		102	78 - 123	6	30
Tetrachloroethene	20.0	20.2		ug/Kg		101	73 - 130	9	30
Toluene	20.0	21.9		ug/Kg		109	75 - 122	7	30
trans-1,2-Dichloroethene	20.0	20.5		ug/Kg		103	80 - 129	7	30
trans-1,3-Dichloropropene	20.0	20.1		ug/Kg		100	72 - 121	5	30
Trichloroethene	20.0	20.4		ug/Kg		102	79 - 122	6	30
Trichlorofluoromethane	20.0	20.8		ug/Kg		104	68 - 136	6	30
Vinyl chloride	20.0	23.4		ug/Kg		117	70 - 134	6	30
Xylenes, Total	40.0	41.8		ug/Kg		104	79 - 122	8	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: LCSD 460-611522/4

Matrix: Solid

Analysis Batch: 611522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	120		78 - 135
4-Bromofluorobenzene	108		67 - 126
Dibromofluoromethane (Surr)	103		61 - 149
Toluene-d8 (Surr)	117		73 - 121

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

Lab Sample ID: MB 460-611146/1-A

Matrix: Solid

Analysis Batch: 611223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 611146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2-Chloronaphthalene	ND		330	15	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2-Chlorophenol	ND		330	4.6	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2-Methylphenol	ND		330	5.3	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2-Nitroaniline	ND		330	12	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
2-Nitrophenol	ND		330	11	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
3-Nitroaniline	ND		330	18	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4-Chloroaniline	ND		330	23	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4-Methylphenol	ND		330	5.6	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4-Nitroaniline	ND		330	12	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
4-Nitrophenol	ND		670	54	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Acenaphthene	ND		330	24	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Acenaphthylene	ND		330	3.4	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Acetophenone	ND		330	5.3	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Anthracene	ND		330	3.7	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Atrazine	ND		130	8.3	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Benzaldehyde	ND		330	14	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Benzo[a]anthracene	ND		33	12	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Biphenyl	ND		330	4.4	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		05/19/19 11:06	05/19/19 23:21	1

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: MB 460-611146/1-A

Matrix: Solid

Analysis Batch: 611223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 611146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Caprolactam	ND		330	20	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Carbazole	ND		330	3.9	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Chrysene	ND		330	5.6	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Dibenzofuran	ND		330	4.6	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Diethyl phthalate	ND		330	4.8	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Di-n-octyl phthalate	ND		330	18	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Fluoranthene	ND		330	4.3	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Fluorene	ND		330	4.5	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Hexachloroethane	ND		33	5.1	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Isophorone	ND		130	8.7	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Naphthalene	ND		330	5.7	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Nitrobenzene	ND		33	7.9	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Pentachlorophenol	ND		270	68	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Phenanthrene	ND		330	5.8	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Phenol	ND		330	4.9	ug/Kg		05/19/19 11:06	05/19/19 23:21	1
Pyrene	ND		330	8.2	ug/Kg		05/19/19 11:06	05/19/19 23:21	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				05/19/19 11:06	05/19/19 23:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		10 - 137	05/19/19 11:06	05/19/19 23:21	1
2-Fluorobiphenyl (Surr)	66		29 - 107	05/19/19 11:06	05/19/19 23:21	1
2-Fluorophenol (Surr)	70		20 - 115	05/19/19 11:06	05/19/19 23:21	1
Nitrobenzene-d5 (Surr)	63		25 - 113	05/19/19 11:06	05/19/19 23:21	1
Phenol-d5 (Surr)	68		28 - 109	05/19/19 11:06	05/19/19 23:21	1
Terphenyl-d14 (Surr)	69		27 - 123	05/19/19 11:06	05/19/19 23:21	1

Lab Sample ID: LCS 460-611146/2-A

Matrix: Solid

Analysis Batch: 611223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 611146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	3330	2620		ug/Kg		79	60 - 106
2,4,6-Trichlorophenol	3330	2790		ug/Kg		84	62 - 110
2,4-Dichlorophenol	3330	2770		ug/Kg		83	61 - 103

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: LCS 460-611146/2-A

Matrix: Solid

Analysis Batch: 611223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 611146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	3330	2560		ug/Kg		77	63 - 101
2,4-Dinitrophenol	6670	4910		ug/Kg		74	56 - 122
2,4-Dinitrotoluene	3330	2850		ug/Kg		85	66 - 122
2,6-Dinitrotoluene	3330	3030		ug/Kg		91	70 - 114
2-Chloronaphthalene	3330	2660		ug/Kg		80	63 - 107
2-Chlorophenol	3330	2720		ug/Kg		82	62 - 97
2-Methylnaphthalene	3330	2730		ug/Kg		82	65 - 104
2-Methylphenol	3330	2650		ug/Kg		80	61 - 103
2-Nitroaniline	3330	2560		ug/Kg		77	57 - 114
2-Nitrophenol	3330	2710		ug/Kg		81	65 - 104
3,3'-Dichlorobenzidine	3330	2260		ug/Kg		68	18 - 88
3-Nitroaniline	3330	2090		ug/Kg		63	30 - 94
4,6-Dinitro-2-methylphenol	6670	5660		ug/Kg		85	67 - 120
4-Bromophenyl phenyl ether	3330	2890		ug/Kg		87	59 - 122
4-Chloro-3-methylphenol	3330	2690		ug/Kg		81	62 - 111
4-Chloroaniline	3330	2180		ug/Kg		65	18 - 94
4-Chlorophenyl phenyl ether	3330	3110		ug/Kg		93	66 - 110
4-Methylphenol	3330	2860		ug/Kg		86	61 - 105
4-Nitroaniline	3330	2490		ug/Kg		75	49 - 118
4-Nitrophenol	6670	4570		ug/Kg		69	43 - 141
Acenaphthene	3330	2290		ug/Kg		69	62 - 108
Acenaphthylene	3330	2630		ug/Kg		79	67 - 107
Acetophenone	3330	2750		ug/Kg		82	60 - 109
Anthracene	3330	2780		ug/Kg		83	69 - 111
Benzo[a]anthracene	3330	2750		ug/Kg		82	68 - 110
Benzo[a]pyrene	3330	2860		ug/Kg		86	72 - 115
Benzo[b]fluoranthene	3330	3250		ug/Kg		98	69 - 119
Benzo[g,h,i]perylene	3330	3020		ug/Kg		91	54 - 128
Benzo[k]fluoranthene	3330	3030		ug/Kg		91	70 - 115
Biphenyl	3330	2640		ug/Kg		79	64 - 108
bis (2-chloroisopropyl) ether	3330	2250		ug/Kg		67	39 - 122
Bis(2-chloroethoxy)methane	3330	2570		ug/Kg		77	65 - 106
Bis(2-chloroethyl)ether	3330	2440		ug/Kg		73	64 - 105
Bis(2-ethylhexyl) phthalate	3330	2940		ug/Kg		88	63 - 125
Butyl benzyl phthalate	3330	2900		ug/Kg		87	65 - 125
Carbazole	3330	2570		ug/Kg		77	66 - 115
Chrysene	3330	2790		ug/Kg		84	70 - 111
Dibenz(a,h)anthracene	3330	3210		ug/Kg		96	60 - 130
Dibenzofuran	3330	2720		ug/Kg		82	67 - 107
Diethyl phthalate	3330	2710		ug/Kg		81	66 - 117
Dimethyl phthalate	3330	2650		ug/Kg		80	68 - 112
Di-n-butyl phthalate	3330	2770		ug/Kg		83	67 - 119
Di-n-octyl phthalate	3330	3280		ug/Kg		98	57 - 138
Fluoranthene	3330	2680		ug/Kg		80	64 - 114
Fluorene	3330	2820		ug/Kg		84	66 - 110
Hexachlorobenzene	3330	2960		ug/Kg		89	57 - 128
Hexachlorobutadiene	3330	2730		ug/Kg		82	60 - 108
Hexachlorocyclopentadiene	3330	1650	*	ug/Kg		49	50 - 129
Hexachloroethane	3330	2780		ug/Kg		83	63 - 99

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

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

Lab Sample ID: LCS 460-611146/2-A

Matrix: Solid

Analysis Batch: 611223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 611146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	3330	3190		ug/Kg		96	53 - 137
Isophorone	3330	2450		ug/Kg		74	68 - 111
Naphthalene	3330	2560		ug/Kg		77	65 - 102
Nitrobenzene	3330	2840		ug/Kg		85	66 - 108
N-Nitrosodi-n-propylamine	3330	2520		ug/Kg		75	63 - 117
N-Nitrosodiphenylamine	3330	2720		ug/Kg		82	65 - 114
Pentachlorophenol	6670	4870		ug/Kg		73	56 - 116
Phenanthrene	3330	2650		ug/Kg		80	68 - 111
Phenol	3330	2860		ug/Kg		86	58 - 103
Pyrene	3330	2820		ug/Kg		85	64 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		10 - 137
2-Fluorobiphenyl (Surr)	77		29 - 107
2-Fluorophenol (Surr)	78		20 - 115
Nitrobenzene-d5 (Surr)	75		25 - 113
Phenol-d5 (Surr)	78		28 - 109
Terphenyl-d14 (Surr)	83		27 - 123

Lab Sample ID: LCS 460-611146/4-A

Matrix: Solid

Analysis Batch: 611223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 611146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	2780	*	ug/Kg		42	62 - 137
Benzaldehyde	6670	1490	*	ug/Kg		22	52 - 113
Caprolactam	6670	4290		ug/Kg		64	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	70		10 - 137
2-Fluorobiphenyl (Surr)	63		29 - 107
2-Fluorophenol (Surr)	65		20 - 115
Nitrobenzene-d5 (Surr)	60		25 - 113
Phenol-d5 (Surr)	64		28 - 109
Terphenyl-d14 (Surr)	64		27 - 123

QC Association Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

GC/MS VOA

Prep Batch: 611500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182351-1	PWEXBM04138	Total/NA	Solid	5035	
LB3 460-611500/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 611522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182351-1	PWEXBM04138	Total/NA	Solid	8260C	611500
LB3 460-611500/1-A	Method Blank	Total/NA	Solid	8260C	611500
MB 460-611522/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-611522/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-611522/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 611146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182351-1	PWEXBM04138	Total/NA	Solid	3546	
MB 460-611146/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-611146/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-611146/4-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 611223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182351-1	PWEXBM04138	Total/NA	Solid	8270D	611146
MB 460-611146/1-A	Method Blank	Total/NA	Solid	8270D	611146
LCS 460-611146/2-A	Lab Control Sample	Total/NA	Solid	8270D	611146
LCS 460-611146/4-A	Lab Control Sample	Total/NA	Solid	8270D	611146

General Chemistry

Analysis Batch: 611236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-182351-1	PWEXBM04138	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Client Sample ID: PWEXBM04138

Lab Sample ID: 460-182351-1

Date Collected: 05/17/19 08:50

Matrix: Solid

Date Received: 05/18/19 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	611236	05/19/19 22:35	APV	TAL EDI

Client Sample ID: PWEXBM04138

Lab Sample ID: 460-182351-1

Date Collected: 05/17/19 08:50

Matrix: Solid

Date Received: 05/18/19 11:30

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			611500	05/20/19 23:43	AVM	TAL EDI
Total/NA	Analysis	8260C		1	611522	05/21/19 09:51	AAT	TAL EDI
Total/NA	Prep	3546			611146	05/19/19 11:06	JNP	TAL EDI
Total/NA	Analysis	8270D		1	611223	05/20/19 02:51	YAH	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-182351-1

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-20

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
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

Client: AECOM

Job ID: 460-182351-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AECOM

Job ID: 460-182351-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Assest ID
460-182351-1	PWEXBM04138	Solid	05/17/19 08:50	05/18/19 11:30	

Ver: 01/16,

Job Number:

182351

Number of Coolers: _____ IR Gun # _____

Cooler Temperatures

Cooler #1		Cooler #4		Cooler #7	
RAW	CORRECTED	RAW	CORRECTED	RAW	CORRECTED
3.9	3.4				
Cooler #2:		Cooler #5:		Cooler #8:	
	°C		°C		°C
Cooler #3:		Cooler #6:		Cooler #9:	
	°C		°C		°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

EDS-WI-038, Rev 4, 06/09/2014

Initials:

6

Date: 05/18/19

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-182351-1

Login Number: 182351

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: Villanueva, Angelica P

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.	True	645720
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Location ID Sample Date Sample ID	NYSDEC Part 375-6 Restricted- Res	PWEXBM04095 4/24/2019 460-180464-1	PWEXBM04137 4/24/2019 460-180464-2	PWEXBM04092 4/25/2019 460-180465-1	PWEXBM04097 4/29/2019 460-180726-1	PWEXBM04141 4/29/2019 460-180726-2	PWEXBM04144 4/30/2019 460-180817-1	PWEXBM04146 5/1/2019 460-180912-1	PWEXBM4145 5/15/2019 460-182074-1
Volatile Organic Compounds (ppm)									
1,1,1-Trichloroethane	100	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	26	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.1	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	49	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND	ND	ND	ND
Acetone	100	0.0081	0.012	0.022	0.015	0.0098	0.0051	0.014	0.016
Benzene	4.8	ND	ND	0.0051	ND	0.00064	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide		ND	ND	0.00036	0.00066	0.00027	ND	ND	ND
Carbon tetrachloride	2.4	ND	ND	ND	0.0025	0.0016	0.0011	ND	ND
Chlorobenzene	100	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	49	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	41	ND	ND	0.0083	ND	0.00049	ND	ND	ND
Isopropylbenzene		ND	ND	0.00088	ND	0.00021	ND	ND	ND
Methyl acetate		ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	100	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	0.00032	ND	ND	ND	ND	ND
Methylene Chloride	100	0.00082	0.0013	0.0015	ND	ND	0.00047	0.00034	0.0051
Styrene		ND	ND	0.00029	ND	ND	ND	ND	ND
Tetrachloroethene	19	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	ND	ND	0.001	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	100000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	21	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.9	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	100	ND	ND	0.0074	0.00048	0.0017	ND	ND	0.00094
Total Conc		0.00892	0.0133	0.04715	0.01864	0.01471	0.00667	0.01434	0.02204
Total Estimated Conc. (TICs)			0.0063	0.971	0.0065	0.2377			

Notes:

Results are pending data validation and DUSR preparation.

Results do not include laboratory data qualifier codes.

ND = Not detected above given laboratory reporting limit.

Bold = Detected above reporting limit.

ppm = Parts per million

Location ID Sample Date Sample ID	NYSDEC Part 375-6 Restricted- Res	PWEXBM04095 4/24/2019 460-180464-1	PWEXBM04137 4/24/2019 460-180464-2	PWEXBM04092 4/25/2019 460-180465-1	PWEXBM04097 4/29/2019 460-180726-1	PWEXBM04141 4/29/2019 460-180726-2	PWEXBM04144 4/30/2019 460-180817-1	PWEXBM04146 5/1/2019 460-180912-1	PWEXBM04145 5/15/2019 460-182074-1
Semivolatile Organic Compounds (ppm)									
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	0.067	0.062	0.0097	0.012	ND	ND	0.0086
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	100	0.11	0.044	0.11	0.046	0.078	ND	ND	ND
Acenaphthylene	100	0.026	0.028	0.11	ND	ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	ND	0.13	0.33	ND	ND	ND	ND	0.042
Atrazine		ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1	ND	0.028	0.084	ND	ND	ND	0.035	0.053
Benzo[a]pyrene	1	ND	ND	ND	ND	ND	ND	0.026	0.03
Benzo[b]fluoranthene	1	ND	0.021	0.012	0.011	ND	ND	0.034	0.052
Benzo[g,h,i]perylene	100	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	3.9	ND	ND	ND	ND	ND	ND	0.014	0.027
Biphenyl		ND	0.099	0.13	ND	ND	ND	ND	ND
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	0.17	0.47	0.012	0.025	ND	ND	ND
Chrysene	3.9	ND	0.021	0.051	ND	ND	ND	0.028	0.051
Dibenz(a,h)anthracene	0.33	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	59	0.04	0.59	0.51	0.04	0.047	ND	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	ND	0.33	0.68	0.027	0.013	ND	0.046	0.14
Fluorene	100	0.081	0.35	0.35	0.073	0.043	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	ND	ND	ND	ND	ND	0.019
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	100	0.037	0.22	1	0.024	0.042	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	ND	0.44	1.5	0.027	0.034	ND	0.04	0.12
Phenol	100	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100	ND	0.24	0.5	0.026	ND	ND	0.052	0.1
Total Conc		0.294	2.778	5.899	0.2957	0.294		0.275	0.6426
Total Estimated Conc. (TICs)			0.45		0.61				0.55

Notes:
Results are pending data validation and DUSR preparation.
Results do not include laboratory data qualifier codes.
ND = Not detected above given laboratory reporting limit.
NR = Not reported
Bold = Detected above reporting limit.
ppm = Parts per million
D = Diluted results

Location ID Sample Date Sample ID	NYSDEC Part 375-6 Restricted- Res	PWEXBM04095 4/24/2019 460-180464-1	PWEXBM04137 4/24/2019 460-180464-2	PWEXBM04092 4/25/2019 460-180465-1	PWEXBM04097 4/29/2019 460-180726-1	PWEXBM04141 4/29/2019 460-180726-2	PWEXBM04144 4/30/2019 460-180817-1	PWEXBM04146 5/1/2019 460-180912-1	PWEXBM04145 5/15/2019 460-182074-1	PWEXBM04143 5/16/2019 460-182200-1	PWEXBM04140 5/16/2019 460-182200-2	PWEXBM04138 5/17/2019 460-182351-1
Volatile Organic Compounds (ppm)												
1,1,1-Trichloroethane	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	100	0.0081	0.012	0.022	0.015	0.0098	0.0051	0.014	0.016	0.0095	0.015	ND
Benzene	4.8	ND	ND	0.0051	ND	0.00064	ND	ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide		ND	ND	0.00036	0.00066	0.00027	ND	ND	ND	0.00029	ND	ND
Carbon tetrachloride	2.4	ND	ND	ND	0.0025	0.0016	0.0011	ND	ND	ND	ND	ND
Chlorobenzene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	41	ND	ND	0.0083	ND	0.00049	ND	ND	ND	0.00021	ND	ND
Isopropylbenzene		ND	ND	0.00088	ND	0.00021	ND	ND	ND	ND	ND	ND
Methyl acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	0.00032	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	0.00082	0.0013	0.0015	ND	ND	0.00047	0.00034	0.0051	0.0014	0.0028	0.00072
Styrene		ND	ND	0.00029	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	100	ND	ND	0.0074	0.00048	0.0017	ND	ND	0.00094	ND	ND	ND
Total Conc		0.00892	0.0133	0.04715	0.01864	0.01471	0.00667	0.01434	0.02204	0.0114	0.0178	0.00072
Total Estimated Conc. (TICs)			0.0063	0.971	0.0065	0.2377						

Notes:
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ppm = Parts per million

Location ID Sample Date Sample ID	NYSDEC Part 375-6 Restricted- Res	PWEXBM04095 4/24/2019 460-180464-1	PWEXBM04137 4/24/2019 460-180464-2	PWEXBM04092 4/25/2019 460-180465-1	PWEXBM04097 4/29/2019 460-180726-1	PWEXBM04141 4/29/2019 460-180726-2	PWEXBM04144 4/30/2019 460-180817-1	PWEXBM04146 5/1/2019 460-180912-1	PWEXBM04145 5/15/2019 460-182074-1	PWEXBM04143 5/16/2019 460-182200-1	PWEXBM04140 5/16/2019 460-182200-2	PWEXBM04138 5/17/2019 460-182351-1
Semivolatile Organic Compounds (ppm)												
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	0.067	0.062	0.0097	0.012	ND	ND	0.0086	ND	ND	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	100	0.11	0.044	0.11	0.046	0.078	ND	ND	ND	0.035	ND	ND
Acenaphthylene	100	0.026	0.028	0.11	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	ND	0.13	0.33	ND	ND	ND	ND	0.042	0.024	ND	ND
Atrazine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1	ND	0.028	0.084	ND	ND	ND	0.035	0.053	0.015	ND	ND
Benzo[a]pyrene	1	ND	ND	ND	ND	ND	ND	0.026	0.03	ND	ND	ND
Benzo[b]fluoranthene	1	ND	0.021	0.012	0.011	ND	ND	0.034	0.052	ND	ND	ND
Benzo[g,h,i]perylene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	3.9	ND	ND	ND	ND	ND	ND	0.014	0.027	ND	ND	ND
Biphenyl		ND	0.099	0.13	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	0.17	0.47	0.012	0.025	ND	ND	ND	0.018	ND	ND
Chrysene	3.9	ND	0.021	0.051	ND	ND	ND	0.028	0.051	ND	ND	ND
Dibenz(a,h)anthracene	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	59	0.04	0.59	0.51	0.04	0.047	ND	ND	ND	0.031	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	ND	0.33	0.68	0.027	0.013	ND	0.046	0.14	0.047	ND	ND
Fluorene	100	0.081	0.35	0.35	0.073	0.043	ND	ND	ND	0.086	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	ND	ND	ND	ND	ND	0.019	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	100	0.037	0.22	1	0.024	0.042	ND	ND	ND	0.021	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	ND	0.44	1.5	0.027	0.034	ND	0.04	0.12	0.013	ND	ND
Phenol	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100	ND	0.24	0.5	0.026	ND	ND	0.052	0.1	0.03	ND	ND
Total Conc		0.294	2.778	5.899	0.2957	0.294		0.275	0.6426	0.32	0.13	
Total Estimated Conc. (TICs)			0.45		0.61				0.55			

Notes:
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Results do not include laboratory data qualifier codes.
ND = Not detected above given laboratory reporting limit.
NR = Not reported
Bold = Detected above reporting limit.
ppm = Parts per million
D = Diluted results