

ANALYTICAL REPORT

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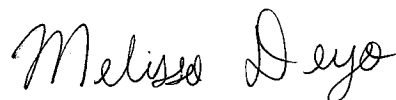
Laboratory Job ID: 480-151412-1

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

For:

AECOM
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Authorized for release by:
4/10/2019 1:24:38 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: 480-151412-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
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.
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: 480-151412-1

Job ID: 480-151412-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-151412-1

Receipt

The samples were received on 4/5/2019 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

GC/MS VOA

Method(s) 8260C: The following sample was analyzed at a reduced weight due to the nature of the sample matrix: PWEXSENA080 (480-151412-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was analyzed at a reduced weight due to the abundance of non-target analytes: PWEXSENA082 (480-151412-7). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-466630 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane]. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: PWEXSWNA076 (480-151412-1) and PWEXSWNA080 (480-151412-5). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: PWEXSWNA080 (480-151412-5). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample was diluted due to abundance of target analytes: PWEXSWNA080 (480-151412-5). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: PWEXSWNA080 (480-151412-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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.

Detection Summary

Client: AECOM

Job ID: 480-151412-1

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

Client Sample ID: PWEXSWNA076

Lab Sample ID: 480-151412-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J vs	30	5.1	ug/Kg	1	✱	8260C	Total/NA
Benzene	0.40	J vs	6.1	0.30	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	0.48	J vs	6.1	0.42	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	4600		1000	150	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	760	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Anthracene	2600		1000	250	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	1700		1000	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	1700		1000	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	1700		1000	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1200		1000	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	880	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Biphenyl	1100		1000	150	ug/Kg	5	✱	8270D	Total/NA
Carbazole	5000		1000	120	ug/Kg	5	✱	8270D	Total/NA
Chrysene	1600		1000	230	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	5000		1000	120	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	5900		1000	110	ug/Kg	5	✱	8270D	Total/NA
Fluorene	4400		1000	120	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	960	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Naphthalene	470	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	13000		1000	150	ug/Kg	5	✱	8270D	Total/NA
Pyrene	4900		1000	120	ug/Kg	5	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA077

Lab Sample ID: 480-151412-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	800	vs	28	4.8	ug/Kg	1	✱	8260C	Total/NA
Fluoranthene	77	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	38	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	80	J	200	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA078

Lab Sample ID: 480-151412-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	23	J vs	30	5.0	ug/Kg	1	✱	8260C	Total/NA
Fluoranthene	60	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	31	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	36	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Pyrene	28	J	210	25	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA079

Lab Sample ID: 480-151412-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	42	vs	30	5.0	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	100	J	210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	44	J	210	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	42	J	210	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	32	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Chrysene	90	J	210	46	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	130	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Pyrene	410		210	24	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM

Job ID: 480-151412-1

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

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	46	J vs	280	46	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	12	J vs	55	3.8	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	14	J vs	110	9.3	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	480	J	2000	400	ug/Kg	10	✱	8270D	Total/NA
Acenaphthene	3200		2000	300	ug/Kg	10	✱	8270D	Total/NA
Acenaphthylene	4900		2000	260	ug/Kg	10	✱	8270D	Total/NA
Anthracene	19000		2000	500	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	22000		2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	15000		2000	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	17000		2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	8100		2000	210	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	8700		2000	260	ug/Kg	10	✱	8270D	Total/NA
Biphenyl	660	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Carbazole	4000		2000	240	ug/Kg	10	✱	8270D	Total/NA
Chrysene	18000		2000	450	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	2600		2000	360	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	12000		2000	240	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	53000		2000	210	ug/Kg	10	✱	8270D	Total/NA
Fluorene	19000		2000	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	8200		2000	250	ug/Kg	10	✱	8270D	Total/NA
Naphthalene	5300		2000	260	ug/Kg	10	✱	8270D	Total/NA
Pyrene	43000		2000	240	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene - DL	75000		10000	1500	ug/Kg	50	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	29	J vs	30	5.0	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	34	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	150	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	1400		200	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	2700		200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	2000		200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	2100		200	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1100		200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	1100		200	25	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	210		200	29	ug/Kg	1	✱	8270D	Total/NA
Carbazole	270		200	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	2100		200	44	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	1100		200	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	5200		200	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	620		200	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1100		200	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	100	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	3200		200	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	5200		200	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	61	J vs	290	49	ug/Kg	1	✱	8260C	Total/NA
Benzene	10	J vs	58	2.8	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA082 (Continued)

Lab Sample ID: 480-151412-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	14	J vs	58	4.0	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	20	J vs	120	9.7	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	110	J	200	40	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	420		200	30	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	490		200	26	ug/Kg	1	✱	8270D	Total/NA
Anthracene	1600		200	50	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1300		200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1000		200	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1100		200	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	560		200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	530		200	26	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	310		200	30	ug/Kg	1	✱	8270D	Total/NA
Carbazole	500		200	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1000		200	45	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	170	J	200	35	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	1200		200	24	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	2600		200	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	1300		200	24	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	540		200	25	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	1900		200	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	5000		200	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	2100		200	24	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA083

Lab Sample ID: 480-151412-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Styrene	0.35	J vs	5.8	0.29	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	47	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	76	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Anthracene	130	J	200	49	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	49	J	200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	39	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	27	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	28	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	35	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Carbazole	190	J	200	23	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	180	J	200	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	140	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	150	J	200	23	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	36	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	390		200	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	92	J	200	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA084

Lab Sample ID: 480-151412-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.7	J vs	28	4.8	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	2.8	J vs	5.7	2.6	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	32	J	200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	29	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	24	J	200	21	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA084 (Continued)

Lab Sample ID: 480-151412-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	76	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	58	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	45	J	200	23	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: PWEXSWNA085

Lab Sample ID: 480-151412-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30	vs	29	4.9	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	70	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Anthracene	140	J	200	48	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	220		200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	230		200	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	170	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	140	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Carbazole	50	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene	220		200	44	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	57	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	470		200	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	64	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	200	24	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	38	J	200	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	420		200	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	430		200	23	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: PWEXSWNA086

Lab Sample ID: 480-151412-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	61	vs	30	5.1	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.1	J vs	6.0	2.8	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	34	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Anthracene	77	J	210	51	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	340		210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	330		210	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	450		210	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	280		210	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	170	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Carbazole	40	J	210	24	ug/Kg	1	☼	8270D	Total/NA
Chrysene	330		210	46	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	370		210	22	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	250		210	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	160	J	210	30	ug/Kg	1	☼	8270D	Total/NA
Pyrene	360		210	24	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151412-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	J vs	30	5.0	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	39	J	200	27	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	140	J	200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	150	J	200	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190	J	200	33	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM

Job ID: 480-151412-1

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

Client Sample ID: PWEXSWNA087 (Continued)

Lab Sample ID: 480-151412-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	130	J	200	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	94	J	200	27	ug/Kg	1	✱	8270D	Total/NA
Carbazole	33	J	200	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	160	J	200	46	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	250		200	22	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	100	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	38	J	200	27	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	120	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	240		200	24	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA076

Lab Sample ID: 480-151412-1

Date Collected: 04/03/19 14:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.1	0.44	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,1,2,2-Tetrachloroethane	ND	vs	6.1	0.98	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.1	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,1,2-Trichloroethane	ND	vs	6.1	0.79	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,1-Dichloroethane	ND	vs	6.1	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,1-Dichloroethene	ND	vs	6.1	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,2,4-Trichlorobenzene	ND	vs	6.1	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,2-Dibromoethane	ND	vs	6.1	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,2-Dichlorobenzene	ND	vs	6.1	0.47	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,2-Dichloroethane	ND	vs	6.1	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,2-Dichloropropane	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,3-Dichlorobenzene	ND	vs	6.1	0.31	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
1,4-Dichlorobenzene	ND	vs	6.1	0.85	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Acetone	18	J vs	30	5.1	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Benzene	0.40	J vs	6.1	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Bromodichloromethane	ND	vs	6.1	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Bromoform	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Bromomethane	ND	vs	6.1	0.54	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Carbon disulfide	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Carbon tetrachloride	ND	vs	6.1	0.59	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Chlorobenzene	ND	vs	6.1	0.80	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Chloroethane	ND	vs	6.1	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Chloroform	ND	vs	6.1	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Chloromethane	ND	vs	6.1	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
cis-1,2-Dichloroethene	ND	vs	6.1	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
cis-1,3-Dichloropropene	ND	vs	6.1	0.87	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Cyclohexane	ND	vs	6.1	0.85	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Dibromochloromethane	ND	vs	6.1	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Dichlorodifluoromethane	ND	vs	6.1	0.50	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Ethylbenzene	0.48	J vs	6.1	0.42	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Isopropylbenzene	ND	vs	6.1	0.91	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Methyl acetate	ND	vs	30	3.7	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Methyl tert-butyl ether	ND	vs	6.1	0.59	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Methylcyclohexane	ND	vs	6.1	0.92	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Methylene Chloride	ND	vs	6.1	2.8	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Styrene	ND	vs	6.1	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Tetrachloroethene	ND	vs	6.1	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Toluene	ND	vs	6.1	0.46	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
trans-1,2-Dichloroethene	ND	vs	6.1	0.62	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
trans-1,3-Dichloropropene	ND	vs	6.1	2.7	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Trichloroethene	ND	vs	6.1	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Trichlorofluoromethane	ND	vs	6.1	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Vinyl chloride	ND	vs	6.1	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA076

Lab Sample ID: 480-151412-1

Date Collected: 04/03/19 14:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzofuran, 7-methyl-	25	T J N	ug/Kg	☼	11.78	17059-52-8	04/08/19 07:58	04/08/19 11:53	1
Benzofuran, 2-methyl-	15	T J N	ug/Kg	☼	11.87	4265-25-2	04/08/19 07:58	04/08/19 11:53	1
2-Methylindene	6.2	T J N	ug/Kg	☼	12.28	2177-47-1	04/08/19 07:58	04/08/19 11:53	1
Unknown	7.0	T J	ug/Kg	☼	12.47		04/08/19 07:58	04/08/19 11:53	1
2-(2-Hydroxyphenyl)buta-1,3-diene	28	T J N	ug/Kg	☼	12.72	1000245-56-3	04/08/19 07:58	04/08/19 11:53	1
Naphthalene	110	T J N	ug/Kg	☼	12.81	91-20-3	04/08/19 07:58	04/08/19 11:53	1
Benzo[c]thiophene	130	T J N	ug/Kg	☼	12.93	270-82-6	04/08/19 07:58	04/08/19 11:53	1
Unknown	7.4	T J	ug/Kg	☼	13.19		04/08/19 07:58	04/08/19 11:53	1
Unknown	6.7	T J	ug/Kg	☼	13.30		04/08/19 07:58	04/08/19 11:53	1
Benzo[b]thiophene, 2-methyl-	33	T J N	ug/Kg	☼	13.90	1195-14-8	04/08/19 07:58	04/08/19 11:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126				04/08/19 07:58	04/08/19 11:53	1
4-Bromofluorobenzene (Surr)	98		72 - 126				04/08/19 07:58	04/08/19 11:53	1
Dibromofluoromethane (Surr)	106		60 - 140				04/08/19 07:58	04/08/19 11:53	1
Toluene-d8 (Surr)	99		71 - 125				04/08/19 07:58	04/08/19 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		1000	280	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2,4,6-Trichlorophenol	ND		1000	200	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2,4-Dimethylphenol	ND		1000	250	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2,4-Dinitrophenol	ND		10000	4700	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2-Chlorophenol	ND		1000	190	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2-Methylnaphthalene	ND		1000	200	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2-Nitroaniline	ND		2000	150	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
2-Nitrophenol	ND		1000	290	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
3,3'-Dichlorobenzidine	ND		2000	1200	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
3-Nitroaniline	ND		2000	280	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4,6-Dinitro-2-methylphenol	ND		2000	1000	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4-Bromophenyl phenyl ether	ND		1000	140	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4-Chloro-3-methylphenol	ND		1000	250	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4-Chloroaniline	ND		1000	250	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4-Chlorophenyl phenyl ether	ND		1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4-Methylphenol	ND		2000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4-Nitroaniline	ND		2000	530	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
4-Nitrophenol	ND		2000	720	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Acenaphthene	4600		1000	150	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Acenaphthylene	760	J	1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Acetophenone	ND		1000	140	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Anthracene	2600		1000	250	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Atrazine	ND		1000	350	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Benzaldehyde	ND		1000	810	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Benzo[a]anthracene	1700		1000	100	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Benzo[a]pyrene	1700		1000	150	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA076

Lab Sample ID: 480-151412-1

Date Collected: 04/03/19 14:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	1700		1000	160	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Benzo[g,h,i]perylene	1200		1000	110	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Benzo[k]fluoranthene	880	J	1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Biphenyl	1100		1000	150	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
bis (2-chloroisopropyl) ether	ND		1000	200	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Bis(2-chloroethoxy)methane	ND		1000	220	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Bis(2-chloroethyl)ether	ND		1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Bis(2-ethylhexyl) phthalate	ND		1000	350	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Caprolactam	ND		1000	310	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Carbazole	5000		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Chrysene	1600		1000	230	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Dibenzofuran	5000		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Diethyl phthalate	ND		1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Dimethyl phthalate	ND		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Di-n-butyl phthalate	ND		1000	170	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Fluoranthene	5900		1000	110	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Fluorene	4400		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Indeno[1,2,3-cd]pyrene	960	J	1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Isophorone	ND		1000	220	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Naphthalene	470	J	1000	130	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Nitrobenzene	ND		1000	110	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
N-Nitrosodi-n-propylamine	ND		1000	170	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
N-Nitrosodiphenylamine	ND		1000	830	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Pentachlorophenol	ND		2000	1000	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Phenanthrene	13000		1000	150	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Phenol	ND		1000	160	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5
Pyrene	4900		1000	120	ug/Kg	☼	04/05/19 14:01	04/07/19 20:38	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2300	T J	ug/Kg	☼	3.05		04/05/19 14:01	04/07/19 20:38	5
Unknown	810	T J	ug/Kg	☼	8.58		04/05/19 14:01	04/07/19 20:38	5
Dibenzothiophene	1500	T J N	ug/Kg	☼	10.49	132-65-0	04/05/19 14:01	04/07/19 20:38	5
1H-Cyclopropa[]phenanthrene, 1a,9b-dihydro-	890	T J N	ug/Kg	☼	11.11	949-41-7	04/05/19 14:01	04/07/19 20:38	5
Phenanthrene, 1-methyl-	1500	T J N	ug/Kg	☼	11.13	832-69-9	04/05/19 14:01	04/07/19 20:38	5
Unknown	2300	T J	ug/Kg	☼	11.21		04/05/19 14:01	04/07/19 20:38	5
Unknown	900	T J	ug/Kg	☼	12.82		04/05/19 14:01	04/07/19 20:38	5
Benzo[e]pyrene	1100	T J N	ug/Kg	☼	14.07	192-97-2	04/05/19 14:01	04/07/19 20:38	5
N-[4-Amino-3-nitrophenyl]-N-nitroso-4-chlorobenzylamine	1400	T J N	ug/Kg	☼	15.31	1000213-60-7	04/05/19 14:01	04/07/19 20:38	5
Unknown	3900	T J	ug/Kg	☼	16.23		04/05/19 14:01	04/07/19 20:38	5

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA076

Date Collected: 04/03/19 14:05

Date Received: 04/05/19 09:15

Lab Sample ID: 480-151412-1

Matrix: Solid

Percent Solids: 82.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		54 - 120	04/05/19 14:01	04/07/19 20:38	5
2-Fluorobiphenyl (Surr)	79		60 - 120	04/05/19 14:01	04/07/19 20:38	5
2-Fluorophenol (Surr)	70		52 - 120	04/05/19 14:01	04/07/19 20:38	5
Nitrobenzene-d5 (Surr)	73		53 - 120	04/05/19 14:01	04/07/19 20:38	5
Phenol-d5 (Surr)	71		54 - 120	04/05/19 14:01	04/07/19 20:38	5
p-Terphenyl-d14 (Surr)	95		65 - 121	04/05/19 14:01	04/07/19 20:38	5

Client Sample ID: PWEXSWNA077

Date Collected: 04/03/19 14:24

Date Received: 04/05/19 09:15

Lab Sample ID: 480-151412-2

Matrix: Solid

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.92	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,2-Dichloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.9	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Acetone	800	vs	28	4.8	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Bromodichloromethane	ND	vs	5.7	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Bromoform	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Carbon disulfide	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Chloroform	ND	vs	5.7	0.35	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA077

Lab Sample ID: 480-151412-2

Date Collected: 04/03/19 14:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Styrene	ND	vs	5.7	0.28	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Tetrachloroethene	ND	vs	5.7	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	04/06/19 06:02	04/06/19 11:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/06/19 06:02	04/06/19 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/06/19 06:02	04/06/19 11:43	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/06/19 06:02	04/06/19 11:43	1
Dibromofluoromethane (Surr)	103		60 - 140	04/06/19 06:02	04/06/19 11:43	1
Toluene-d8 (Surr)	101		71 - 125	04/06/19 06:02	04/06/19 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Acenaphthylene	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Acetophenone	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Anthracene	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA077

Lab Sample ID: 480-151412-2

Date Collected: 04/03/19 14:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		200	68	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Biphenyl	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Caprolactam	ND		200	59	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Carbazole	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Chrysene	ND		200	44	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Dibenzofuran	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Fluoranthene	77 J		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Fluorene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Hexachloroethane	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Isophorone	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Naphthalene	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Phenanthrene	38 J		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Phenol	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1
Pyrene	80 J		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 20:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4400	T J	ug/Kg	☼	1.75		04/05/19 14:01	04/07/19 20:13	1
Unknown	2400	T J	ug/Kg	☼	3.05		04/05/19 14:01	04/07/19 20:13	1
Unknown	260	T J	ug/Kg	☼	4.99		04/05/19 14:01	04/07/19 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		54 - 120	04/05/19 14:01	04/07/19 20:13	1
2-Fluorobiphenyl (Surr)	87		60 - 120	04/05/19 14:01	04/07/19 20:13	1
2-Fluorophenol (Surr)	69		52 - 120	04/05/19 14:01	04/07/19 20:13	1
Nitrobenzene-d5 (Surr)	73		53 - 120	04/05/19 14:01	04/07/19 20:13	1
Phenol-d5 (Surr)	73		54 - 120	04/05/19 14:01	04/07/19 20:13	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA077

Date Collected: 04/03/19 14:24

Date Received: 04/05/19 09:15

Lab Sample ID: 480-151412-2

Matrix: Solid

Percent Solids: 85.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	109		65 - 121	04/05/19 14:01	04/07/19 20:13	1

Client Sample ID: PWEXSWNA078

Date Collected: 04/04/19 09:56

Date Received: 04/05/19 09:15

Lab Sample ID: 480-151412-3

Matrix: Solid

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.43	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.97	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,1-Dichloroethene	ND	vs	6.0	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Acetone	23	J vs	30	5.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Benzene	ND	vs	6.0	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Bromodichloromethane	ND	vs	6.0	0.80	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.86	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Dichlorodifluoromethane	ND	vs	6.0	0.49	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Ethylbenzene	ND	vs	6.0	0.41	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Isopropylbenzene	ND	vs	6.0	0.90	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Tetrachloroethene	ND	vs	6.0	0.80	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA078

Lab Sample ID: 480-151412-3

Date Collected: 04/04/19 09:56

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	vs	6.0	0.45	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/06/19 06:02	04/06/19 12:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/06/19 06:02	04/06/19 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	04/06/19 06:02	04/06/19 12:09	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/06/19 06:02	04/06/19 12:09	1
Dibromofluoromethane (Surr)	103		60 - 140	04/06/19 06:02	04/06/19 12:09	1
Toluene-d8 (Surr)	100		71 - 125	04/06/19 06:02	04/06/19 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2,4-Dinitrophenol	ND		2000	970	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2-Methylphenol	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4-Methylphenol	ND		410	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Acenaphthene	ND		210	31	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Acenaphthylene	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Acetophenone	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Anthracene	ND		210	52	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Atrazine	ND		210	73	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Benzaldehyde	ND		210	170	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA078

Lab Sample ID: 480-151412-3

Date Collected: 04/04/19 09:56

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Biphenyl	ND		210	31	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Caprolactam	ND		210	63	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Carbazole	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Chrysene	ND		210	47	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Dibenzofuran	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Fluoranthene	60 J		210	22	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Fluorene	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Hexachloroethane	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Isophorone	ND		210	44	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Naphthalene	31 J		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Nitrobenzene	ND		210	23	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Phenanthrene	36 J		210	31	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Phenol	ND		210	32	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1
Pyrene	28 J		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	230	T J	ug/Kg	☼	1.55		04/05/19 14:01	04/07/19 21:03	1
Unknown	180	T J	ug/Kg	☼	1.64		04/05/19 14:01	04/07/19 21:03	1
Unknown	4800	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/07/19 21:03	1
Unknown	2300	T J	ug/Kg	☼	3.06		04/05/19 14:01	04/07/19 21:03	1
Column Bleed	270	T J	ug/Kg	☼	5.00		04/05/19 14:01	04/07/19 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		54 - 120	04/05/19 14:01	04/07/19 21:03	1
2-Fluorobiphenyl (Surr)	77		60 - 120	04/05/19 14:01	04/07/19 21:03	1
2-Fluorophenol (Surr)	61		52 - 120	04/05/19 14:01	04/07/19 21:03	1
Nitrobenzene-d5 (Surr)	66		53 - 120	04/05/19 14:01	04/07/19 21:03	1
Phenol-d5 (Surr)	65		54 - 120	04/05/19 14:01	04/07/19 21:03	1
p-Terphenyl-d14 (Surr)	94		65 - 121	04/05/19 14:01	04/07/19 21:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA079

Lab Sample ID: 480-151412-4

Date Collected: 04/04/19 10:04

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,1-Dichloroethene	ND	vs	5.9	0.73	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,2-Dichloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Acetone	42	vs	30	5.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Bromoform	ND	vs	5.9	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Bromomethane	ND	vs	5.9	0.53	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Carbon disulfide	ND	vs	5.9	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Chloroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Chloroform	ND	vs	5.9	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.76	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Dibromochloromethane	ND	vs	5.9	0.76	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Styrene	ND	vs	5.9	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Tetrachloroethene	ND	vs	5.9	0.80	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/08/19 07:58	04/08/19 11:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA079

Lab Sample ID: 480-151412-4

Date Collected: 04/04/19 10:04

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

<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>04/08/19 07:58</i>	<i>04/08/19 11:27</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126				04/08/19 07:58	04/08/19 11:27	1
4-Bromofluorobenzene (Surr)	99		72 - 126				04/08/19 07:58	04/08/19 11:27	1
Dibromofluoromethane (Surr)	103		60 - 140				04/08/19 07:58	04/08/19 11:27	1
Toluene-d8 (Surr)	99		71 - 125				04/08/19 07:58	04/08/19 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		210	55	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2,4-Dimethylphenol	ND		210	49	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2-Chlorophenol	ND		210	37	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2-Methylphenol	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4-Methylphenol	ND		400	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Acenaphthene	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Acenaphthylene	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Acetophenone	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Anthracene	ND		210	51	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Atrazine	ND		210	71	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Benzaldehyde	ND		210	160	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Benzo[a]anthracene	100	J	210	21	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Benzo[a]pyrene	44	J	210	30	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Benzo[b]fluoranthene	42	J	210	33	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Benzo[k]fluoranthene	32	J	210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Biphenyl	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Bis(2-chloroethoxy)methane	ND		210	43	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA079

Lab Sample ID: 480-151412-4

Date Collected: 04/04/19 10:04

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		210	62	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Carbazole	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Chrysene	90	J	210	46	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Dibenzofuran	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Fluoranthene	130	J	210	22	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Fluorene	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Hexachloroethane	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Indeno[1,2,3-cd]pyrene	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Isophorone	ND		210	43	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Naphthalene	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Nitrobenzene	ND		210	23	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Phenanthrene	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Phenol	ND		210	31	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1
Pyrene	410		210	24	ug/Kg	☼	04/05/19 14:01	04/07/19 21:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4200	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/07/19 21:29	1
Unknown	2500	T J	ug/Kg	☼	3.07		04/05/19 14:01	04/07/19 21:29	1
Unknown	510	T J	ug/Kg	☼	5.00		04/05/19 14:01	04/07/19 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120	04/05/19 14:01	04/07/19 21:29	1
2-Fluorobiphenyl (Surr)	87		60 - 120	04/05/19 14:01	04/07/19 21:29	1
2-Fluorophenol (Surr)	69		52 - 120	04/05/19 14:01	04/07/19 21:29	1
Nitrobenzene-d5 (Surr)	71		53 - 120	04/05/19 14:01	04/07/19 21:29	1
Phenol-d5 (Surr)	73		54 - 120	04/05/19 14:01	04/07/19 21:29	1
p-Terphenyl-d14 (Surr)	103		65 - 121	04/05/19 14:01	04/07/19 21:29	1

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Date Collected: 04/04/19 10:14

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	55	4.0	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,1,2,2-Tetrachloroethane	ND	vs	55	8.9	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	55	13	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,1,2-Trichloroethane	ND	vs	55	7.2	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,1-Dichloroethane	ND	vs	55	6.7	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Date Collected: 04/04/19 10:14

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	vs	55	6.7	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,2,4-Trichlorobenzene	ND	vs	55	3.3	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,2-Dibromo-3-Chloropropane	ND	vs	55	28	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,2-Dibromoethane	ND	vs	55	7.1	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,2-Dichlorobenzene	ND	vs	55	4.3	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,2-Dichloroethane	ND	vs	55	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,2-Dichloropropane	ND	vs	55	28	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,3-Dichlorobenzene	ND	vs	55	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
1,4-Dichlorobenzene	ND	vs	55	7.7	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
2-Butanone (MEK)	ND	vs	280	20	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
2-Hexanone	ND	vs	280	28	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
4-Methyl-2-pentanone (MIBK)	ND	vs	280	18	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Acetone	46	J vs	280	46	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Benzene	ND	vs	55	2.7	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Bromodichloromethane	ND	vs	55	7.4	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Bromoform	ND	vs	55	28	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Bromomethane	ND	vs	55	5.0	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Carbon disulfide	ND	vs	55	28	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Carbon tetrachloride	ND	vs	55	5.3	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Chlorobenzene	ND	vs	55	7.3	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Chloroethane	ND	vs	55	12	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Chloroform	ND	vs	55	3.4	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Chloromethane	ND	vs	55	3.3	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
cis-1,2-Dichloroethene	ND	vs	55	7.1	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
cis-1,3-Dichloropropene	ND	vs	55	7.9	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Cyclohexane	ND	vs	55	7.7	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Dibromochloromethane	ND	vs	55	7.1	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Dichlorodifluoromethane	ND	vs	55	4.6	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Ethylbenzene	12	J vs	55	3.8	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Isopropylbenzene	ND	vs	55	8.3	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Methyl acetate	ND	vs	280	33	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Methyl tert-butyl ether	ND	vs	55	5.4	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Methylcyclohexane	ND	vs	55	8.4	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Methylene Chloride	ND	vs	55	25	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Styrene	ND	vs	55	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Tetrachloroethene	ND	vs	55	7.4	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Toluene	ND	vs	55	4.2	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
trans-1,2-Dichloroethene	ND	vs	55	5.7	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
trans-1,3-Dichloropropene	ND	vs	55	24	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Trichloroethene	ND	vs	55	12	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Trichlorofluoromethane	ND	vs	55	5.2	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Vinyl chloride	ND	vs	55	6.7	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1
Xylenes, Total	14	J vs	110	9.3	ug/Kg	☼	04/06/19 06:02	04/06/19 15:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Biphenyl	140	T J N	ug/Kg	☼	8.91	92-52-4	04/06/19 06:02	04/06/19 15:37	1
Indane	270	T J N	ug/Kg	☼	11.10	496-11-7	04/06/19 06:02	04/06/19 15:37	1
Indene	78	T J N	ug/Kg	☼	11.30	95-13-6	04/06/19 06:02	04/06/19 15:37	1
3-Phenylbut-1-ene	58	T J N	ug/Kg	☼	12.21	934-10-1	04/06/19 06:02	04/06/19 15:37	1
Acenaphthene	530	T J N	ug/Kg	☼	12.51	83-32-9	04/06/19 06:02	04/06/19 15:37	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Date Collected: 04/04/19 10:14

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene	390	T J N	ug/Kg	☼	12.81	91-20-3	04/06/19 06:02	04/06/19 15:37	1
Benzo[b]thiophene	110	T J N	ug/Kg	☼	12.93	95-15-8	04/06/19 06:02	04/06/19 15:37	1
Dibenzofuran	190	T J N	ug/Kg	☼	13.23	132-64-9	04/06/19 06:02	04/06/19 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126				04/06/19 06:02	04/06/19 15:37	1
4-Bromofluorobenzene (Surr)	101		72 - 126				04/06/19 06:02	04/06/19 15:37	1
Dibromofluoromethane (Surr)	105		60 - 140				04/06/19 06:02	04/06/19 15:37	1
Toluene-d8 (Surr)	99		71 - 125				04/06/19 06:02	04/06/19 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		2000	550	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2,4,6-Trichlorophenol	ND		2000	400	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2,4-Dichlorophenol	ND		2000	210	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2,4-Dimethylphenol	ND		2000	490	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2,4-Dinitrophenol	ND		20000	9300	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2,4-Dinitrotoluene	ND		2000	420	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2,6-Dinitrotoluene	ND		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2-Chloronaphthalene	ND		2000	330	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2-Chlorophenol	ND		2000	370	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2-Methylnaphthalene	480	J	2000	400	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2-Methylphenol	ND		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2-Nitroaniline	ND		3900	300	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
2-Nitrophenol	ND		2000	570	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
3,3'-Dichlorobenzidine	ND		3900	2400	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
3-Nitroaniline	ND		3900	560	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4,6-Dinitro-2-methylphenol	ND		3900	2000	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4-Bromophenyl phenyl ether	ND		2000	290	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4-Chloro-3-methylphenol	ND		2000	500	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4-Chloroaniline	ND		2000	500	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4-Chlorophenyl phenyl ether	ND		2000	250	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4-Methylphenol	ND		3900	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4-Nitroaniline	ND		3900	1100	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
4-Nitrophenol	ND		3900	1400	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Acenaphthene	3200		2000	300	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Acenaphthylene	4900		2000	260	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Acetophenone	ND		2000	270	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Anthracene	19000		2000	500	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Atrazine	ND		2000	700	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Benzaldehyde	ND		2000	1600	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Benzo[a]anthracene	22000		2000	200	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Benzo[a]pyrene	15000		2000	300	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Benzo[b]fluoranthene	17000		2000	320	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Benzo[g,h,i]perylene	8100		2000	210	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Benzo[k]fluoranthene	8700		2000	260	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Biphenyl	660	J	2000	300	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
bis (2-chloroisopropyl) ether	ND		2000	400	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Bis(2-chloroethoxy)methane	ND		2000	430	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Date Collected: 04/04/19 10:14

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		2000	260	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Bis(2-ethylhexyl) phthalate	ND		2000	690	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Butyl benzyl phthalate	ND		2000	330	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Caprolactam	ND		2000	610	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Carbazole	4000		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Chrysene	18000		2000	450	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Dibenz(a,h)anthracene	2600		2000	360	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Dibenzofuran	12000		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Diethyl phthalate	ND		2000	260	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Dimethyl phthalate	ND		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Di-n-butyl phthalate	ND		2000	350	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Di-n-octyl phthalate	ND		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Fluoranthene	53000		2000	210	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Fluorene	19000		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Hexachlorobenzene	ND		2000	270	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Hexachlorobutadiene	ND		2000	300	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Hexachlorocyclopentadiene	ND		2000	270	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Hexachloroethane	ND		2000	260	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Indeno[1,2,3-cd]pyrene	8200		2000	250	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Isophorone	ND		2000	430	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Naphthalene	5300		2000	260	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Nitrobenzene	ND		2000	230	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
N-Nitrosodi-n-propylamine	ND		2000	350	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
N-Nitrosodiphenylamine	ND		2000	1600	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Pentachlorophenol	ND		3900	2000	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Phenol	ND		2000	310	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10
Pyrene	43000		2000	240	ug/Kg	☼	04/05/19 14:01	04/07/19 21:54	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene, 1,5-dimethyl-	7300	T J N	ug/Kg	☼	8.61	571-61-9	04/05/19 14:01	04/07/19 21:54	10
Naphthalene, 1,3-dimethyl-	4300	T J N	ug/Kg	☼	8.75	575-41-7	04/05/19 14:01	04/07/19 21:54	10
[1,1'-Biphenyl]-4-carboxaldehyde	6100	T J N	ug/Kg	☼	9.83	3218-36-8	04/05/19 14:01	04/07/19 21:54	10
9H-Fluorene, 1-methyl-	5200	T J N	ug/Kg	☼	10.25	1730-37-6	04/05/19 14:01	04/07/19 21:54	10
Unknown	4100	T J	ug/Kg	☼	10.42		04/05/19 14:01	04/07/19 21:54	10
Dibenzothiophene	8700	T J N	ug/Kg	☼	10.54	132-65-0	04/05/19 14:01	04/07/19 21:54	10
Phenanthrene, 1-methyl-	15000	T J N	ug/Kg	☼	11.15	832-69-9	04/05/19 14:01	04/07/19 21:54	10
1H-Cyclopropa[1]phenanthrene, 1a,9b-dihydro-	6200	T J N	ug/Kg	☼	11.20	949-41-7	04/05/19 14:01	04/07/19 21:54	10
Unknown	24000	T J	ug/Kg	☼	11.23		04/05/19 14:01	04/07/19 21:54	10
Unknown	6200	T J	ug/Kg	☼	11.41		04/05/19 14:01	04/07/19 21:54	10
Unknown	3900	T J	ug/Kg	☼	11.58		04/05/19 14:01	04/07/19 21:54	10
Phenanthrene, 2,5-dimethyl-	5400	T J N	ug/Kg	☼	11.64	3674-66-6	04/05/19 14:01	04/07/19 21:54	10
Unknown	6600	T J	ug/Kg	☼	11.67		04/05/19 14:01	04/07/19 21:54	10
Benzo[e]pyrene	3700	T J N	ug/Kg	☼	13.94	192-97-2	04/05/19 14:01	04/07/19 21:54	10
Benzo[j]fluoranthene	7600	T J N	ug/Kg	☼	14.07	205-82-3	04/05/19 14:01	04/07/19 21:54	10
Unknown	4800	T J	ug/Kg	☼	14.27		04/05/19 14:01	04/07/19 21:54	10
1H-1,4-Benzodiazepine-2,5-dione, 3,4-dihydro-4-methyl-3-(phe di(p-Nitrophenyl) sulfide	4600	T J N	ug/Kg	☼	15.32	1223-31-0	04/05/19 14:01	04/07/19 21:54	10
1,2:4,5-Dibenzopyrene	4600	T J N	ug/Kg	☼	16.27	192-65-4	04/05/19 14:01	04/07/19 21:54	10

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Date Collected: 04/04/19 10:14

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		54 - 120	04/05/19 14:01	04/07/19 21:54	10
2-Fluorobiphenyl (Surr)	77		60 - 120	04/05/19 14:01	04/07/19 21:54	10
2-Fluorophenol (Surr)	80		52 - 120	04/05/19 14:01	04/07/19 21:54	10
Nitrobenzene-d5 (Surr)	72		53 - 120	04/05/19 14:01	04/07/19 21:54	10
Phenol-d5 (Surr)	77		54 - 120	04/05/19 14:01	04/07/19 21:54	10
p-Terphenyl-d14 (Surr)	88		65 - 121	04/05/19 14:01	04/07/19 21:54	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	75000		10000	1500	ug/Kg	☼	04/05/19 14:01	04/08/19 19:33	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Column Bleed	19000	T J	ug/Kg	☼	4.98		04/05/19 14:01	04/08/19 19:33	50
Naphthalene, 1-methyl-	9900	T J N	ug/Kg	☼	7.89	90-12-0	04/05/19 14:01	04/08/19 19:33	50
Dibenzofuran, 4-methyl-	8100	T J N	ug/Kg	☼	9.90	7320-53-8	04/05/19 14:01	04/08/19 19:33	50
Phenanthrene, 4-methyl-	9400	T J N	ug/Kg	☼	11.14	832-64-4	04/05/19 14:01	04/08/19 19:33	50
Phenanthrene, 1-methyl-	13000	T J N	ug/Kg	☼	11.17	832-69-9	04/05/19 14:01	04/08/19 19:33	50
Unknown	24000	T J	ug/Kg	☼	11.24		04/05/19 14:01	04/08/19 19:33	50
11H-Benzo[a]fluorene	8300	T J N	ug/Kg	☼	12.29	238-84-6	04/05/19 14:01	04/08/19 19:33	50
Perylene	18000	T J N	ug/Kg	☼	14.13	198-55-0	04/05/19 14:01	04/08/19 19:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	X	54 - 120	04/05/19 14:01	04/08/19 19:33	50
2-Fluorobiphenyl (Surr)	83		60 - 120	04/05/19 14:01	04/08/19 19:33	50
2-Fluorophenol (Surr)	0	X	52 - 120	04/05/19 14:01	04/08/19 19:33	50
Nitrobenzene-d5 (Surr)	82		53 - 120	04/05/19 14:01	04/08/19 19:33	50
Phenol-d5 (Surr)	0	X	54 - 120	04/05/19 14:01	04/08/19 19:33	50
p-Terphenyl-d14 (Surr)	102		65 - 121	04/05/19 14:01	04/08/19 19:33	50

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Date Collected: 04/04/19 10:20

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.4	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,2-Dichloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Date Collected: 04/04/19 10:20

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Acetone	29	J vs	30	5.0	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Bromoform	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Bromomethane	ND	vs	5.9	0.53	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Carbon disulfide	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Chloroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Chloroform	ND	vs	5.9	0.37	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Dibromochloromethane	ND	vs	5.9	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Styrene	ND	vs	5.9	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Tetrachloroethene	ND	vs	5.9	0.79	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1
Xylenes, Total	ND	vs	12	0.99	ug/Kg	☼	04/06/19 06:02	04/06/19 13:01	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/06/19 06:02	04/06/19 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/06/19 06:02	04/06/19 13:01	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/06/19 06:02	04/06/19 13:01	1
Dibromofluoromethane (Surr)	104		60 - 140	04/06/19 06:02	04/06/19 13:01	1
Toluene-d8 (Surr)	100		71 - 125	04/06/19 06:02	04/06/19 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Date Collected: 04/04/19 10:20

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Acenaphthene	34	J	200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Acenaphthylene	150	J	200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Acetophenone	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Anthracene	1400		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Atrazine	ND		200	68	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Benzo[a]anthracene	2700		200	20	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Benzo[a]pyrene	2000		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Benzo[b]fluoranthene	2100		200	31	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Benzo[g,h,i]perylene	1100		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Benzo[k]fluoranthene	1100		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Biphenyl	210		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Caprolactam	ND		200	59	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Carbazole	270		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Chrysene	2100		200	44	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Dibenzofuran	1100		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Fluoranthene	5200		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Fluorene	620		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Hexachloroethane	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Date Collected: 04/04/19 10:20

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	1100		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Isophorone	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Naphthalene	100	J	200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Phenanthrene	3200		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Phenol	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1
Pyrene	5200		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 22:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4100	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/07/19 22:19	1
Unknown	2400	T J	ug/Kg	☼	3.07		04/05/19 14:01	04/07/19 22:19	1
Ethanethioic acid, S-[8-(diethylphosphono)octyl] ester	510	T J N	ug/Kg	☼	5.00	129065-11-8	04/05/19 14:01	04/07/19 22:19	1
Naphthalene, 1,5-dimethyl-	390	T J N	ug/Kg	☼	8.57	571-61-9	04/05/19 14:01	04/07/19 22:19	1
Dibenzofuran, 4-methyl-	530	T J N	ug/Kg	☼	9.80	7320-53-8	04/05/19 14:01	04/07/19 22:19	1
Dibenzothiophene	390	T J N	ug/Kg	☼	10.51	132-65-0	04/05/19 14:01	04/07/19 22:19	1
Anthracene, 2-methyl-	700	T J N	ug/Kg	☼	11.12	613-12-7	04/05/19 14:01	04/07/19 22:19	1
Phenanthrene, 4-methyl-	820	T J N	ug/Kg	☼	11.14	832-64-4	04/05/19 14:01	04/07/19 22:19	1
1H-Cyclopropa[1]phenanthrene, 1a,9b-dihydro-	490	T J N	ug/Kg	☼	11.19	949-41-7	04/05/19 14:01	04/07/19 22:19	1
4H-Cyclopenta[def]phenanthrene	1500	T J N	ug/Kg	☼	11.22	203-64-5	04/05/19 14:01	04/07/19 22:19	1
2-Phenylnaphthalene	540	T J N	ug/Kg	☼	11.41	35465-71-5	04/05/19 14:01	04/07/19 22:19	1
Fluoranthene, 2-methyl-	470	T J N	ug/Kg	☼	12.28	33543-31-6	04/05/19 14:01	04/07/19 22:19	1
Benzo[e]pyrene	510	T J N	ug/Kg	☼	13.95	192-97-2	04/05/19 14:01	04/07/19 22:19	1
Unknown	390	T J	ug/Kg	☼	14.29		04/05/19 14:01	04/07/19 22:19	1
Benzo[b]triphenylene	510	T J N	ug/Kg	☼	15.11	215-58-7	04/05/19 14:01	04/07/19 22:19	1
Dibenzo[def,mno]chrysene	580	T J N	ug/Kg	☼	15.34	191-26-4	04/05/19 14:01	04/07/19 22:19	1
1,2:3,4-Dibenzopyrene	520	T J N	ug/Kg	☼	16.30	191-30-0	04/05/19 14:01	04/07/19 22:19	1
1,2:4,5-Dibenzopyrene	420	T J N	ug/Kg	☼	16.38	192-65-4	04/05/19 14:01	04/07/19 22:19	1
Androst-4-ene-3,17-dione, 15-hydroxy-, (15.alpha.)-	410	T J N	ug/Kg	☼	16.86	566-08-5	04/05/19 14:01	04/07/19 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		54 - 120	04/05/19 14:01	04/07/19 22:19	1
2-Fluorobiphenyl (Surr)	89		60 - 120	04/05/19 14:01	04/07/19 22:19	1
2-Fluorophenol (Surr)	67		52 - 120	04/05/19 14:01	04/07/19 22:19	1
Nitrobenzene-d5 (Surr)	74		53 - 120	04/05/19 14:01	04/07/19 22:19	1
Phenol-d5 (Surr)	71		54 - 120	04/05/19 14:01	04/07/19 22:19	1
p-Terphenyl-d14 (Surr)	109		65 - 121	04/05/19 14:01	04/07/19 22:19	1

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Date Collected: 04/04/19 10:30

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	58	4.2	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,1,2,2-Tetrachloroethane	ND	vs	58	9.4	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Date Collected: 04/04/19 10:30

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	58	13	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,1,2-Trichloroethane	ND	vs	58	7.5	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,1-Dichloroethane	ND	vs	58	7.0	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,1-Dichloroethene	ND	vs	58	7.1	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,2,4-Trichlorobenzene	ND	vs	58	3.5	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,2-Dibromo-3-Chloropropane	ND	vs	58	29	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,2-Dibromoethane	ND	vs	58	7.4	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,2-Dichlorobenzene	ND	vs	58	4.5	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,2-Dichloroethane	ND	vs	58	2.9	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,2-Dichloropropane	ND	vs	58	29	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,3-Dichlorobenzene	ND	vs	58	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
1,4-Dichlorobenzene	ND	vs	58	8.1	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
2-Butanone (MEK)	ND	vs	290	21	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
2-Hexanone	ND	vs	290	29	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
4-Methyl-2-pentanone (MIBK)	ND	vs	290	19	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Acetone	61	J vs	290	49	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Benzene	10	J vs	58	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Bromodichloromethane	ND	vs	58	7.7	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Bromoform	ND	vs	58	29	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Bromomethane	ND	vs	58	5.2	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Carbon disulfide	ND	vs	58	29	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Carbon tetrachloride	ND	vs	58	5.6	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Chlorobenzene	ND	vs	58	7.6	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Chloroethane	ND	vs	58	13	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Chloroform	ND	vs	58	3.6	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Chloromethane	ND	vs	58	3.5	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
cis-1,2-Dichloroethene	ND	vs	58	7.4	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
cis-1,3-Dichloropropene	ND	vs	58	8.3	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Cyclohexane	ND	vs	58	8.1	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Dibromochloromethane	ND	vs	58	7.4	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Dichlorodifluoromethane	ND	vs	58	4.8	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Ethylbenzene	14	J vs	58	4.0	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Isopropylbenzene	ND	vs	58	8.7	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Methyl acetate	ND	vs	290	35	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Methyl tert-butyl ether	ND	vs	58	5.7	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Methylcyclohexane	ND	vs	58	8.8	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Methylene Chloride	ND	vs	58	27	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Styrene	ND	vs	58	2.9	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Tetrachloroethene	ND	vs	58	7.7	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Toluene	ND	vs	58	4.4	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
trans-1,2-Dichloroethene	ND	vs	58	5.9	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
trans-1,3-Dichloropropene	ND	vs	58	25	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Trichloroethene	ND	vs	58	13	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Trichlorofluoromethane	ND	vs	58	5.5	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Vinyl chloride	ND	vs	58	7.0	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1
Xylenes, Total	20	J vs	120	9.7	ug/Kg	☼	04/06/19 06:02	04/06/19 16:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene, 2,7-dimethyl-	120	T J N	ug/Kg	☼	10.43	582-16-1	04/06/19 06:02	04/06/19 16:03	1
Benzene, 1,3,5-trimethyl-	74	T J N	ug/Kg	☼	10.51	108-67-8	04/06/19 06:02	04/06/19 16:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Date Collected: 04/04/19 10:30

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 83.4

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Indane	110	T J N	ug/Kg	☼	11.10	496-11-7	04/06/19 06:02	04/06/19 16:03	1
Benzofuran, 2-methyl-	68	T J N	ug/Kg	☼	11.87	4265-25-2	04/06/19 06:02	04/06/19 16:03	1
Acenaphthene	99	T J N	ug/Kg	☼	12.51	83-32-9	04/06/19 06:02	04/06/19 16:03	1
Naphthalene	1100	T J N	ug/Kg	☼	12.81	91-20-3	04/06/19 06:02	04/06/19 16:03	1
Benzo[b]thiophene	58	T J N	ug/Kg	☼	12.93	95-15-8	04/06/19 06:02	04/06/19 16:03	1
Dibenzofuran	140	T J N	ug/Kg	☼	13.23	132-64-9	04/06/19 06:02	04/06/19 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	04/06/19 06:02	04/06/19 16:03	1
4-Bromofluorobenzene (Surr)	99		72 - 126	04/06/19 06:02	04/06/19 16:03	1
Dibromofluoromethane (Surr)	103		60 - 140	04/06/19 06:02	04/06/19 16:03	1
Toluene-d8 (Surr)	99		71 - 125	04/06/19 06:02	04/06/19 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2-Methylnaphthalene	110	J	200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2-Methylphenol	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4-Methylphenol	ND		390	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Acenaphthene	420		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Acenaphthylene	490		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Acetophenone	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Anthracene	1600		200	50	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Atrazine	ND		200	70	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Benzo[a]anthracene	1300		200	20	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Benzo[a]pyrene	1000		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Benzo[b]fluoranthene	1100		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Benzo[g,h,i]perylene	560		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Benzo[k]fluoranthene	530		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Date Collected: 04/04/19 10:30

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	310		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Caprolactam	ND		200	60	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Carbazole	500		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Chrysene	1000		200	45	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Dibenz(a,h)anthracene	170 J		200	35	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Dibenzofuran	1200		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Fluoranthene	2600		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Fluorene	1300		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Indeno[1,2,3-cd]pyrene	540		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Isophorone	ND		200	43	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Naphthalene	1900		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Phenanthrene	5000		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Phenol	ND		200	31	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1
Pyrene	2100		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 22:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	690	T J	ug/Kg	☼	1.63		04/05/19 14:01	04/07/19 22:44	1
Unknown	6400	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/07/19 22:44	1
Unknown	2200	T J	ug/Kg	☼	3.05		04/05/19 14:01	04/07/19 22:44	1
1,4-Methanonaphthalene, 1,4-dihydro-	1000	T J N	ug/Kg	☼	7.89	4453-90-1	04/05/19 14:01	04/07/19 22:44	1
Naphthalene, 1,5-dimethyl-	510	T J N	ug/Kg	☼	8.51	571-61-9	04/05/19 14:01	04/07/19 22:44	1
Naphthalene, 1,6-dimethyl-	610	T J N	ug/Kg	☼	8.60	575-43-9	04/05/19 14:01	04/07/19 22:44	1
Naphthalene, 2,6-dimethyl-	330	T J N	ug/Kg	☼	8.62	581-42-0	04/05/19 14:01	04/07/19 22:44	1
Naphthalene, 1,3-dimethyl-	440	T J N	ug/Kg	☼	8.72	575-41-7	04/05/19 14:01	04/07/19 22:44	1
Dibenzofuran, 4-methyl-	430	T J N	ug/Kg	☼	9.81	7320-53-8	04/05/19 14:01	04/07/19 22:44	1
9H-Fluorene, 2-methyl-	360	T J N	ug/Kg	☼	10.24	1430-97-3	04/05/19 14:01	04/07/19 22:44	1
Cyclohexanecarboxylic acid, 1-methyl-2-oxo-, ethyl ester	380	T J N	ug/Kg	☼	10.52	5453-94-1	04/05/19 14:01	04/07/19 22:44	1
Phenanthrene, 1-methyl-	620	T J N	ug/Kg	☼	11.13	832-69-9	04/05/19 14:01	04/07/19 22:44	1
Anthracene, 2-methyl-	440	T J N	ug/Kg	☼	11.20	613-12-7	04/05/19 14:01	04/07/19 22:44	1
Unknown	1400	T J	ug/Kg	☼	11.24		04/05/19 14:01	04/07/19 22:44	1
Naphthalene, 2-phenyl-	390	T J N	ug/Kg	☼	11.42	612-94-2	04/05/19 14:01	04/07/19 22:44	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Date Collected: 04/04/19 10:30

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 83.4

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
11H-Benzo[b]fluorene	390	T J N	ug/Kg	☼	12.29	243-17-4	04/05/19 14:01	04/07/19 22:44	1
Benzo[e]pyrene	390	T J N	ug/Kg	☼	13.97	192-97-2	04/05/19 14:01	04/07/19 22:44	1
Perylene	490	T J N	ug/Kg	☼	14.10	198-55-0	04/05/19 14:01	04/07/19 22:44	1
Dibenzo[def,mno]chrysene	390	T J N	ug/Kg	☼	15.36	191-26-4	04/05/19 14:01	04/07/19 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		54 - 120				04/05/19 14:01	04/07/19 22:44	1
2-Fluorobiphenyl (Surr)	84		60 - 120				04/05/19 14:01	04/07/19 22:44	1
2-Fluorophenol (Surr)	67		52 - 120				04/05/19 14:01	04/07/19 22:44	1
Nitrobenzene-d5 (Surr)	74		53 - 120				04/05/19 14:01	04/07/19 22:44	1
Phenol-d5 (Surr)	72		54 - 120				04/05/19 14:01	04/07/19 22:44	1
p-Terphenyl-d14 (Surr)	92		65 - 121				04/05/19 14:01	04/07/19 22:44	1

Client Sample ID: PWEXSWNA083

Lab Sample ID: 480-151412-8

Date Collected: 04/04/19 10:37

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.94	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Acetone	18	J vs	29	4.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Chloroform	ND	vs	5.8	0.36	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA083

Lab Sample ID: 480-151412-8

Date Collected: 04/04/19 10:37

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Styrene	0.35	J vs	5.8	0.29	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1
Xylenes, Total	ND	vs	12	0.97	ug/Kg	☼	04/08/19 07:58	04/08/19 12:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Biphenyl	65	T J N	ug/Kg	☼	8.97	92-52-4	04/08/19 07:58	04/08/19 12:19	1
Naphthalene, 2,3-dimethyl-	17	T J N	ug/Kg	☼	10.93	581-40-8	04/08/19 07:58	04/08/19 12:19	1
Naphthalene, 2,6-dimethyl-	6.8	T J N	ug/Kg	☼	11.53	581-42-0	04/08/19 07:58	04/08/19 12:19	1
Unknown	6.5	T J	ug/Kg	☼	11.78		04/08/19 07:58	04/08/19 12:19	1
3-Phenyl-2-propyn-1-ol	12	T J N	ug/Kg	☼	11.87	1504-58-1	04/08/19 07:58	04/08/19 12:19	1
Acenaphthene	160	T J N	ug/Kg	☼	12.53	83-32-9	04/08/19 07:58	04/08/19 12:19	1
Naphthalene	6.9	T J N	ug/Kg	☼	12.81	91-20-3	04/08/19 07:58	04/08/19 12:19	1
Benzo[c]thiophene	7.3	T J N	ug/Kg	☼	12.93	270-82-6	04/08/19 07:58	04/08/19 12:19	1
Dibenzofuran	60	T J N	ug/Kg	☼	13.24	132-64-9	04/08/19 07:58	04/08/19 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	04/08/19 07:58	04/08/19 12:19	1
4-Bromofluorobenzene (Surr)	102		72 - 126	04/08/19 07:58	04/08/19 12:19	1
Dibromofluoromethane (Surr)	103		60 - 140	04/08/19 07:58	04/08/19 12:19	1
Toluene-d8 (Surr)	98		71 - 125	04/08/19 07:58	04/08/19 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA083

Lab Sample ID: 480-151412-8

Date Collected: 04/04/19 10:37

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4-Methylphenol	ND		390	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Acenaphthene	47	J	200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Acenaphthylene	76	J	200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Acetophenone	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Anthracene	130	J	200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Atrazine	ND		200	69	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Benzo[a]anthracene	49	J	200	20	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Benzo[a]pyrene	39	J	200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Benzo[g,h,i]perylene	27	J	200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Benzo[k]fluoranthene	28	J	200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Biphenyl	35	J	200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Caprolactam	ND		200	60	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Carbazole	190	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Chrysene	ND		200	45	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Dibenzofuran	180	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Fluoranthene	140	J	200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Fluorene	150	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Isophorone	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Naphthalene	36	J	200	26	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA083

Lab Sample ID: 480-151412-8

Date Collected: 04/04/19 10:37

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	390		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Phenol	ND		200	31	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1
Pyrene	92	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4200	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/07/19 23:09	1
Unknown	2000	T J	ug/Kg	☼	3.06		04/05/19 14:01	04/07/19 23:09	1
Unknown	510	T J	ug/Kg	☼	4.99		04/05/19 14:01	04/07/19 23:09	1
Unknown	160	T J	ug/Kg	☼	13.74		04/05/19 14:01	04/07/19 23:09	1
Unknown	190	T J	ug/Kg	☼	13.98		04/05/19 14:01	04/07/19 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		54 - 120	04/05/19 14:01	04/07/19 23:09	1
2-Fluorobiphenyl (Surr)	85		60 - 120	04/05/19 14:01	04/07/19 23:09	1
2-Fluorophenol (Surr)	66		52 - 120	04/05/19 14:01	04/07/19 23:09	1
Nitrobenzene-d5 (Surr)	70		53 - 120	04/05/19 14:01	04/07/19 23:09	1
Phenol-d5 (Surr)	71		54 - 120	04/05/19 14:01	04/07/19 23:09	1
p-Terphenyl-d14 (Surr)	100		65 - 121	04/05/19 14:01	04/07/19 23:09	1

Client Sample ID: PWEXSWNA084

Lab Sample ID: 480-151412-9

Date Collected: 04/04/19 10:42

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.92	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,1-Dichloroethane	ND	vs	5.7	0.69	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,2-Dichloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Acetone	6.7	J vs	28	4.8	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Bromodichloromethane	ND	vs	5.7	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Bromoform	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Carbon disulfide	ND	vs	5.7	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA084

Lab Sample ID: 480-151412-9

Date Collected: 04/04/19 10:42

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Chloroform	ND	vs	5.7	0.35	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Methylene Chloride	2.8	J vs	5.7	2.6	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Styrene	ND	vs	5.7	0.28	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Tetrachloroethene	ND	vs	5.7	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Vinyl chloride	ND	vs	5.7	0.69	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	04/06/19 06:02	04/06/19 13:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/06/19 06:02	04/06/19 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	04/06/19 06:02	04/06/19 13:28	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/06/19 06:02	04/06/19 13:28	1
Dibromofluoromethane (Surr)	105		60 - 140	04/06/19 06:02	04/06/19 13:28	1
Toluene-d8 (Surr)	100		71 - 125	04/06/19 06:02	04/06/19 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA084

Lab Sample ID: 480-151412-9

Date Collected: 04/04/19 10:42

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Acenaphthylene	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Acetophenone	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Anthracene	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Atrazine	ND		200	68	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Benzo[a]anthracene	32	J	200	20	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Benzo[a]pyrene	29	J	200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Benzo[g,h,i]perylene	24	J	200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Biphenyl	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Caprolactam	ND		200	59	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Carbazole	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Chrysene	ND		200	44	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Dibenzofuran	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Fluoranthene	76	J	200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Fluorene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Hexachloroethane	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Isophorone	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Naphthalene	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Phenanthrene	58	J	200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Phenol	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA084

Lab Sample ID: 480-151412-9

Date Collected: 04/04/19 10:42

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	45	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:33	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	480	T J	ug/Kg	☼	1.62		04/05/19 14:01	04/07/19 23:33	1
Unknown	4800	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/07/19 23:33	1
Unknown	1800	T J	ug/Kg	☼	3.06		04/05/19 14:01	04/07/19 23:33	1
Column Bleed	550	T J	ug/Kg	☼	4.99		04/05/19 14:01	04/07/19 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		54 - 120				04/05/19 14:01	04/07/19 23:33	1
2-Fluorobiphenyl (Surr)	85		60 - 120				04/05/19 14:01	04/07/19 23:33	1
2-Fluorophenol (Surr)	67		52 - 120				04/05/19 14:01	04/07/19 23:33	1
Nitrobenzene-d5 (Surr)	73		53 - 120				04/05/19 14:01	04/07/19 23:33	1
Phenol-d5 (Surr)	70		54 - 120				04/05/19 14:01	04/07/19 23:33	1
p-Terphenyl-d14 (Surr)	101		65 - 121				04/05/19 14:01	04/07/19 23:33	1

Client Sample ID: PWEXSWNA085

Lab Sample ID: 480-151412-10

Date Collected: 04/04/19 11:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.95	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,1,2-Trichloroethane	ND	vs	5.8	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,2-Dibromoethane	ND	vs	5.8	0.75	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,2-Dichlorobenzene	ND	vs	5.8	0.46	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
1,4-Dichlorobenzene	ND	vs	5.8	0.82	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Acetone	30	vs	29	4.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Benzene	ND	vs	5.8	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Bromodichloromethane	ND	vs	5.8	0.78	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Bromomethane	ND	vs	5.8	0.53	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Carbon tetrachloride	ND	vs	5.8	0.57	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Chlorobenzene	ND	vs	5.8	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Chloroform	ND	vs	5.8	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA085

Lab Sample ID: 480-151412-10

Date Collected: 04/04/19 11:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	vs	5.8	0.75	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.84	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Cyclohexane	ND	vs	5.8	0.82	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Dibromochloromethane	ND	vs	5.8	0.75	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Isopropylbenzene	ND	vs	5.8	0.88	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Methylcyclohexane	ND	vs	5.8	0.89	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.6	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1
Xylenes, Total	ND	vs	12	0.98	ug/Kg	☼	04/06/19 06:02	04/06/19 13:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/06/19 06:02	04/06/19 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	04/06/19 06:02	04/06/19 13:53	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/06/19 06:02	04/06/19 13:53	1
Dibromofluoromethane (Surr)	106		60 - 140	04/06/19 06:02	04/06/19 13:53	1
Toluene-d8 (Surr)	100		71 - 125	04/06/19 06:02	04/06/19 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA085

Lab Sample ID: 480-151412-10

Date Collected: 04/04/19 11:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Acenaphthylene	70	J	200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Acetophenone	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Anthracene	140	J	200	48	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Atrazine	ND		200	68	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Benzo[a]anthracene	220		200	20	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Benzo[a]pyrene	200		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Benzo[b]fluoranthene	230		200	31	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Benzo[g,h,i]perylene	170	J	200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Benzo[k]fluoranthene	140	J	200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Biphenyl	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Caprolactam	ND		200	59	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Carbazole	50	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Chrysene	220		200	44	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Dibenzofuran	57	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Fluoranthene	470		200	21	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Fluorene	64	J	200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Hexachloroethane	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Indeno[1,2,3-cd]pyrene	150	J	200	24	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Isophorone	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Naphthalene	38	J	200	25	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Phenanthrene	420		200	29	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Phenol	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1
Pyrene	430		200	23	ug/Kg	☼	04/05/19 14:01	04/07/19 23:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	650	T J	ug/Kg	☼	1.66		04/05/19 14:01	04/07/19 23:58	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA085

Lab Sample ID: 480-151412-10

Date Collected: 04/04/19 11:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.6

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5100	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/07/19 23:58	1
Unknown	2000	T J	ug/Kg	☼	3.05		04/05/19 14:01	04/07/19 23:58	1
Column Bleed	790	T J	ug/Kg	☼	4.98		04/05/19 14:01	04/07/19 23:58	1
Unknown	160	T J	ug/Kg	☼	11.24		04/05/19 14:01	04/07/19 23:58	1
Benzene, 1,1'-ethylidenebis[4-ethyl-	320	T J N	ug/Kg	☼	11.85	10224-91-6	04/05/19 14:01	04/07/19 23:58	1
Heptadecane	190	T J N	ug/Kg	☼	13.48	629-78-7	04/05/19 14:01	04/07/19 23:58	1
Eicosane	420	T J N	ug/Kg	☼	13.98	112-95-8	04/05/19 14:01	04/07/19 23:58	1
Perylene	180	T J N	ug/Kg	☼	14.10	198-55-0	04/05/19 14:01	04/07/19 23:58	1
Unknown	240	T J	ug/Kg	☼	16.30		04/05/19 14:01	04/07/19 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120				04/05/19 14:01	04/07/19 23:58	1
2-Fluorobiphenyl (Surr)	78		60 - 120				04/05/19 14:01	04/07/19 23:58	1
2-Fluorophenol (Surr)	62		52 - 120				04/05/19 14:01	04/07/19 23:58	1
Nitrobenzene-d5 (Surr)	66		53 - 120				04/05/19 14:01	04/07/19 23:58	1
Phenol-d5 (Surr)	66		54 - 120				04/05/19 14:01	04/07/19 23:58	1
p-Terphenyl-d14 (Surr)	94		65 - 121				04/05/19 14:01	04/07/19 23:58	1

Client Sample ID: PWEXSWNA086

Lab Sample ID: 480-151412-11

Date Collected: 04/04/19 11:12

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.44	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,1-Dichloroethane	ND	vs	6.0	0.74	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,1-Dichloroethene	ND	vs	6.0	0.74	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.37	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Acetone	61	vs	30	5.1	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Benzene	ND	vs	6.0	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Bromodichloromethane	ND	vs	6.0	0.81	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Chlorobenzene	ND	vs	6.0	0.80	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA086

Lab Sample ID: 480-151412-11

Date Collected: 04/04/19 11:12

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.87	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Ethylbenzene	ND	vs	6.0	0.42	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Methylcyclohexane	ND	vs	6.0	0.92	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Methylene Chloride	3.1	J vs	6.0	2.8	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Tetrachloroethene	ND	vs	6.0	0.81	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Toluene	ND	vs	6.0	0.46	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.7	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Vinyl chloride	ND	vs	6.0	0.74	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/06/19 06:02	04/06/19 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	04/06/19 06:02	04/06/19 14:19	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/06/19 06:02	04/06/19 14:19	1
Dibromofluoromethane (Surr)	107		60 - 140	04/06/19 06:02	04/06/19 14:19	1
Toluene-d8 (Surr)	100		71 - 125	04/06/19 06:02	04/06/19 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2-Methylphenol	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA086

Lab Sample ID: 480-151412-11

Date Collected: 04/04/19 11:12

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
4-Methylphenol	ND		400	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Acenaphthene	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Acenaphthylene	34	J	210	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Acetophenone	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Anthracene	77	J	210	51	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Atrazine	ND		210	71	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Benzaldehyde	ND		210	160	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Benzo[a]anthracene	340		210	21	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Benzo[a]pyrene	330		210	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Benzo[b]fluoranthene	450		210	33	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Benzo[g,h,i]perylene	280		210	22	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Benzo[k]fluoranthene	170	J	210	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Biphenyl	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Caprolactam	ND		210	62	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Carbazole	40	J	210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Chrysene	330		210	46	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Dibenzofuran	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Fluoranthene	370		210	22	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Fluorene	ND		210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Hexachloroethane	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Indeno[1,2,3-cd]pyrene	250		210	25	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Isophorone	ND		210	44	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Naphthalene	ND		210	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Nitrobenzene	ND		210	23	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Phenanthrene	160	J	210	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Phenol	ND		210	31	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1
Pyrene	360		210	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:23	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA086

Lab Sample ID: 480-151412-11

Date Collected: 04/04/19 11:12

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 81.5

<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>
Unknown	5600	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/08/19 00:23	1
Unknown	2200	T J	ug/Kg	☼	3.04		04/05/19 14:01	04/08/19 00:23	1
Column Bleed	540	T J	ug/Kg	☼	4.98		04/05/19 14:01	04/08/19 00:23	1
Hexadecane	180	T J N	ug/Kg	☼	13.48	544-76-3	04/05/19 14:01	04/08/19 00:23	1
Benzo[j]fluoranthene	190	T J N	ug/Kg	☼	13.96	205-82-3	04/05/19 14:01	04/08/19 00:23	1
Benzo[e]pyrene	300	T J N	ug/Kg	☼	14.10	192-97-2	04/05/19 14:01	04/08/19 00:23	1
Unknown	200	T J	ug/Kg	☼	14.93		04/05/19 14:01	04/08/19 00:23	1
Unknown	240	T J	ug/Kg	☼	15.13		04/05/19 14:01	04/08/19 00:23	1
Unknown	190	T J	ug/Kg	☼	16.29		04/05/19 14:01	04/08/19 00:23	1
1,2:3,4-Dibenzopyrene	220	T J N	ug/Kg	☼	16.33	191-30-0	04/05/19 14:01	04/08/19 00:23	1
3,4:9,10-Dibenzopyrene	170	T J N	ug/Kg	☼	16.47	189-55-9	04/05/19 14:01	04/08/19 00:23	1
1,2:4,5-Dibenzopyrene	160	T J N	ug/Kg	☼	16.90	192-65-4	04/05/19 14:01	04/08/19 00:23	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	103		54 - 120				04/05/19 14:01	04/08/19 00:23	1
2-Fluorobiphenyl (Surr)	81		60 - 120				04/05/19 14:01	04/08/19 00:23	1
2-Fluorophenol (Surr)	62		52 - 120				04/05/19 14:01	04/08/19 00:23	1
Nitrobenzene-d5 (Surr)	67		53 - 120				04/05/19 14:01	04/08/19 00:23	1
Phenol-d5 (Surr)	69		54 - 120				04/05/19 14:01	04/08/19 00:23	1
p-Terphenyl-d14 (Surr)	96		65 - 121				04/05/19 14:01	04/08/19 00:23	1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151412-12

Date Collected: 04/04/19 11:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.0

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,2-Dichloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Acetone	5.9	J vs	30	5.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Bromoform	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Bromomethane	ND	vs	5.9	0.53	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Carbon disulfide	ND	vs	5.9	3.0	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151412-12

Date Collected: 04/04/19 11:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Chloroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Chloroform	ND	vs	5.9	0.37	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Dibromochloromethane	ND	vs	5.9	0.76	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Styrene	ND	vs	5.9	0.30	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Tetrachloroethene	ND	vs	5.9	0.79	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1
Xylenes, Total	ND	vs	12	0.99	ug/Kg	☼	04/06/19 06:02	04/06/19 14:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/06/19 06:02	04/06/19 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		64 - 126	04/06/19 06:02	04/06/19 14:45	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/06/19 06:02	04/06/19 14:45	1
Dibromofluoromethane (Surr)	115		60 - 140	04/06/19 06:02	04/06/19 14:45	1
Toluene-d8 (Surr)	101		71 - 125	04/06/19 06:02	04/06/19 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2-Methylphenol	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
2-Nitrophenol	ND		200	58	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151412-12

Date Collected: 04/04/19 11:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		400	57	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4-Chloro-3-methylphenol	ND		200	51	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4-Chloroaniline	ND		200	51	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4-Methylphenol	ND		400	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Acenaphthene	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Acenaphthylene	39	J	200	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Acetophenone	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Anthracene	ND		200	51	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Atrazine	ND		200	71	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Benzo[a]anthracene	140	J	200	20	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Benzo[a]pyrene	150	J	200	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Benzo[b]fluoranthene	190	J	200	33	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Benzo[g,h,i]perylene	130	J	200	22	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Benzo[k]fluoranthene	94	J	200	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Biphenyl	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Bis(2-chloroethyl)ether	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Bis(2-ethylhexyl) phthalate	ND		200	70	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Caprolactam	ND		200	61	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Carbazole	33	J	200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Chrysene	160	J	200	46	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Dibenzofuran	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Diethyl phthalate	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Fluoranthene	250		200	22	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Fluorene	ND		200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Hexachloroethane	ND		200	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Indeno[1,2,3-cd]pyrene	100	J	200	25	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Isophorone	ND		200	43	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Naphthalene	38	J	200	27	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Nitrobenzene	ND		200	23	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Phenanthrene	120	J	200	30	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1

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Client Sample Results

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151412-12

Date Collected: 04/04/19 11:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		200	31	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1
Pyrene	240		200	24	ug/Kg	☼	04/05/19 14:01	04/08/19 00:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4400	T J	ug/Kg	☼	1.76		04/05/19 14:01	04/08/19 00:47	1
Unknown	2200	T J	ug/Kg	☼	3.03		04/05/19 14:01	04/08/19 00:47	1
Column Bleed	640	T J	ug/Kg	☼	4.96		04/05/19 14:01	04/08/19 00:47	1
Hexadecane	180	T J N	ug/Kg	☼	13.98	544-76-3	04/05/19 14:01	04/08/19 00:47	1
Unknown	180	T J	ug/Kg	☼	15.33		04/05/19 14:01	04/08/19 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		54 - 120	04/05/19 14:01	04/08/19 00:47	1
2-Fluorobiphenyl (Surr)	82		60 - 120	04/05/19 14:01	04/08/19 00:47	1
2-Fluorophenol (Surr)	65		52 - 120	04/05/19 14:01	04/08/19 00:47	1
Nitrobenzene-d5 (Surr)	69		53 - 120	04/05/19 14:01	04/08/19 00:47	1
Phenol-d5 (Surr)	71		54 - 120	04/05/19 14:01	04/08/19 00:47	1
p-Terphenyl-d14 (Surr)	100		65 - 121	04/05/19 14:01	04/08/19 00:47	1

Surrogate Summary

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

Job ID: 480-151412-1

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 (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-151412-1	PWEXSWNA076	108	98	106	99
480-151412-2	PWEXSWNA077	108	98	103	101
480-151412-3	PWEXSWNA078	106	96	103	100
480-151412-4	PWEXSWNA079	105	99	103	99
480-151412-5	PWEXSWNA080	109	101	105	99
480-151412-6	PWEXSWNA081	108	96	104	100
480-151412-7	PWEXSWNA082	107	99	103	99
480-151412-8	PWEXSWNA083	105	102	103	98
480-151412-9	PWEXSWNA084	110	95	105	100
480-151412-10	PWEXSWNA085	107	95	106	100
480-151412-11	PWEXSWNA086	112	95	107	100
480-151412-12	PWEXSWNA087	114	95	115	101
LCS 480-466552/1-A	Lab Control Sample	101	103	100	101
LCS 480-46659/1-A	Lab Control Sample	104	106	102	100
MB 480-466552/2-A	Method Blank	102	97	102	101
MB 480-46659/2-A	Method Blank	104	97	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
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 (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (65-121)
480-151412-1	PWEXSWNA076	103	79	70	73	71	95
480-151412-2	PWEXSWNA077	97	87	69	73	73	109
480-151412-2 MS	PWEXSWNA077	101	83	65	70	69	98
480-151412-2 MSD	PWEXSWNA077	107	82	64	70	67	93
480-151412-3	PWEXSWNA078	89	77	61	66	65	94
480-151412-4	PWEXSWNA079	96	87	69	71	73	103
480-151412-5	PWEXSWNA080	103	77	80	72	77	88
480-151412-5 - DL	PWEXSWNA080	0 X	83	0 X	82	0 X	102
480-151412-6	PWEXSWNA081	105	89	67	74	71	109
480-151412-7	PWEXSWNA082	100	84	67	74	72	92
480-151412-8	PWEXSWNA083	99	85	66	70	71	100
480-151412-9	PWEXSWNA084	97	85	67	73	70	101
480-151412-10	PWEXSWNA085	96	78	62	66	66	94
480-151412-11	PWEXSWNA086	103	81	62	67	69	96
480-151412-12	PWEXSWNA087	94	82	65	69	71	100
LCS 480-466497/2-A	Lab Control Sample	102	82	65	71	67	95
MB 480-466497/1-A	Method Blank	93	84	69	72	74	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

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Surrogate Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 480-151412-1

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QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: MB 480-466552/2-A

Matrix: Solid

Analysis Batch: 466554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
2-Hexanone	ND		25	2.5	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Acetone	ND		25	4.1	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Benzene	ND		4.9	0.24	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Bromoform	ND		4.9	2.5	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Bromomethane	ND		4.9	0.44	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Carbon disulfide	ND		4.9	2.5	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Chlorobenzene	ND		4.9	0.65	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Chloroethane	ND		4.9	1.1	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Chloroform	ND		4.9	0.30	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Chloromethane	ND		4.9	0.30	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Cyclohexane	ND		4.9	0.69	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Methyl acetate	ND		25	3.0	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Methylene Chloride	ND		4.9	2.3	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Styrene	ND		4.9	0.25	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Toluene	ND		4.9	0.37	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Trichloroethene	ND		4.9	1.1	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Trichlorofluoromethane	ND		4.9	0.47	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		04/06/19 06:02	04/06/19 08:57	1
Xylenes, Total	ND		9.8	0.83	ug/Kg		04/06/19 06:02	04/06/19 08:57	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: MB 480-466552/2-A

Matrix: Solid

Analysis Batch: 466554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466552

<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>				04/06/19 06:02	04/06/19 08:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	102		64 - 126				04/06/19 06:02	04/06/19 08:57	1
4-Bromofluorobenzene (Surr)	97		72 - 126				04/06/19 06:02	04/06/19 08:57	1
Dibromofluoromethane (Surr)	102		60 - 140				04/06/19 06:02	04/06/19 08:57	1
Toluene-d8 (Surr)	101		71 - 125				04/06/19 06:02	04/06/19 08:57	1

Lab Sample ID: LCS 480-466552/1-A

Matrix: Solid

Analysis Batch: 466554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466552

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
1,1,1-Trichloroethane	50.0	52.2		ug/Kg		104	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.5		ug/Kg		111	60 - 140
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	78 - 122
1,1-Dichloroethane	50.0	53.1		ug/Kg		106	73 - 126
1,1-Dichloroethene	50.0	53.2		ug/Kg		106	59 - 125
1,2,4-Trichlorobenzene	50.0	50.1		ug/Kg		100	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	41.5		ug/Kg		83	63 - 124
1,2-Dibromoethane	50.0	49.4		ug/Kg		99	78 - 120
1,2-Dichlorobenzene	50.0	49.5		ug/Kg		99	75 - 120
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	77 - 122
1,2-Dichloropropane	50.0	51.8		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	74 - 120
1,4-Dichlorobenzene	50.0	49.9		ug/Kg		100	73 - 120
2-Butanone (MEK)	250	257		ug/Kg		103	70 - 134
2-Hexanone	250	252		ug/Kg		101	59 - 130
4-Methyl-2-pentanone (MIBK)	250	253		ug/Kg		101	65 - 133
Acetone	250	248		ug/Kg		99	61 - 137
Benzene	50.0	52.6		ug/Kg		105	79 - 127
Bromodichloromethane	50.0	48.6		ug/Kg		97	80 - 122
Bromoform	50.0	51.1		ug/Kg		102	68 - 126
Bromomethane	50.0	57.1		ug/Kg		114	37 - 149
Carbon disulfide	50.0	54.9		ug/Kg		110	64 - 131
Carbon tetrachloride	50.0	53.8		ug/Kg		108	75 - 135
Chlorobenzene	50.0	51.0		ug/Kg		102	76 - 124
Chloroethane	50.0	55.8		ug/Kg		112	69 - 135
Chloroform	50.0	52.2		ug/Kg		104	80 - 120
Chloromethane	50.0	48.8		ug/Kg		98	63 - 127
cis-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	81 - 120
cis-1,3-Dichloropropene	50.0	49.7		ug/Kg		99	80 - 120
Cyclohexane	50.0	51.4		ug/Kg		103	65 - 120
Dibromochloromethane	50.0	49.8		ug/Kg		100	76 - 125
Dichlorodifluoromethane	50.0	40.1		ug/Kg		80	57 - 142
Ethylbenzene	50.0	51.1		ug/Kg		102	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: LCS 480-466552/1-A

Matrix: Solid

Analysis Batch: 466554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	48.2		ug/Kg		96	72 - 120
Methyl acetate	100	93.7		ug/Kg		94	55 - 136
Methyl tert-butyl ether	50.0	47.4		ug/Kg		95	63 - 125
Methylcyclohexane	50.0	51.1		ug/Kg		102	60 - 140
Methylene Chloride	50.0	48.7		ug/Kg		97	61 - 127
Styrene	50.0	47.5		ug/Kg		95	80 - 120
Tetrachloroethene	50.0	55.6		ug/Kg		111	74 - 122
Toluene	50.0	51.7		ug/Kg		103	74 - 128
trans-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	78 - 126
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	73 - 123
Trichloroethene	50.0	52.3		ug/Kg		105	77 - 129
Trichlorofluoromethane	50.0	57.3		ug/Kg		115	65 - 146
Vinyl chloride	50.0	55.0		ug/Kg		110	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	101		71 - 125

Lab Sample ID: MB 480-466659/2-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
2-Hexanone	ND		25	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Acetone	ND		25	4.2	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Benzene	ND		5.0	0.25	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Bromoform	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1

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QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: MB 480-466659/2-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chloroform	ND		5.0	0.31	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methyl acetate	ND		25	3.0	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Styrene	ND		5.0	0.25	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Toluene	ND		5.0	0.38	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/08/19 07:58	04/08/19 10:52	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				04/08/19 07:58	04/08/19 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	04/08/19 07:58	04/08/19 10:52	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/08/19 07:58	04/08/19 10:52	1
Dibromofluoromethane (Surr)	99		60 - 140	04/08/19 07:58	04/08/19 10:52	1
Toluene-d8 (Surr)	99		71 - 125	04/08/19 07:58	04/08/19 10:52	1

Lab Sample ID: LCS 480-466659/1-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.6		ug/Kg		97	77 - 121
1,1,2,2-Tetrachloroethane	50.0	45.1		ug/Kg		90	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.1		ug/Kg		100	60 - 140
1,1,2-Trichloroethane	50.0	48.0		ug/Kg		96	78 - 122
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	73 - 126
1,1-Dichloroethene	50.0	48.8		ug/Kg		98	59 - 125
1,2,4-Trichlorobenzene	50.0	44.6		ug/Kg		89	64 - 120

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QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: LCS 480-466659/1-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	38.0		ug/Kg		76	63 - 124
1,2-Dibromoethane	50.0	47.3		ug/Kg		95	78 - 120
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	47.7		ug/Kg		95	77 - 122
1,2-Dichloropropane	50.0	49.5		ug/Kg		99	75 - 124
1,3-Dichlorobenzene	50.0	45.6		ug/Kg		91	74 - 120
1,4-Dichlorobenzene	50.0	45.2		ug/Kg		90	73 - 120
2-Butanone (MEK)	250	247		ug/Kg		99	70 - 134
2-Hexanone	250	243		ug/Kg		97	59 - 130
4-Methyl-2-pentanone (MIBK)	250	241		ug/Kg		96	65 - 133
Acetone	250	236		ug/Kg		94	61 - 137
Benzene	50.0	49.5		ug/Kg		99	79 - 127
Bromodichloromethane	50.0	46.6		ug/Kg		93	80 - 122
Bromoform	50.0	49.3		ug/Kg		99	68 - 126
Bromomethane	50.0	53.6		ug/Kg		107	37 - 149
Carbon disulfide	50.0	48.9		ug/Kg		98	64 - 131
Carbon tetrachloride	50.0	49.2		ug/Kg		98	75 - 135
Chlorobenzene	50.0	47.6		ug/Kg		95	76 - 124
Chloroethane	50.0	51.7		ug/Kg		103	69 - 135
Chloroform	50.0	49.2		ug/Kg		98	80 - 120
Chloromethane	50.0	46.2		ug/Kg		92	63 - 127
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	47.8		ug/Kg		96	80 - 120
Cyclohexane	50.0	47.5		ug/Kg		95	65 - 120
Dibromochloromethane	50.0	46.8		ug/Kg		94	76 - 125
Dichlorodifluoromethane	50.0	37.8		ug/Kg		76	57 - 142
Ethylbenzene	50.0	47.9		ug/Kg		96	80 - 120
Isopropylbenzene	50.0	42.9		ug/Kg		86	72 - 120
Methyl acetate	100	88.7		ug/Kg		89	55 - 136
Methyl tert-butyl ether	50.0	45.1		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	46.3		ug/Kg		93	60 - 140
Methylene Chloride	50.0	43.6		ug/Kg		87	61 - 127
Styrene	50.0	44.9		ug/Kg		90	80 - 120
Tetrachloroethene	50.0	51.5		ug/Kg		103	74 - 122
Toluene	50.0	47.9		ug/Kg		96	74 - 128
trans-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	78 - 126
trans-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	73 - 123
Trichloroethene	50.0	48.6		ug/Kg		97	77 - 129
Trichlorofluoromethane	50.0	54.4		ug/Kg		109	65 - 146
Vinyl chloride	50.0	50.9		ug/Kg		102	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
4-Bromofluorobenzene (Surr)	106		72 - 126
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		71 - 125

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-151412-1

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

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

Lab Sample ID: MB 480-466497/1-A

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2-Chloronaphthalene	ND		170	28	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2-Chlorophenol	ND		170	31	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2-Methylnaphthalene	ND		170	34	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2-Methylphenol	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2-Nitroaniline	ND		330	25	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
2-Nitrophenol	ND		170	48	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
3-Nitroaniline	ND		330	47	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4-Chloroaniline	ND		170	42	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4-Methylphenol	ND		330	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4-Nitroaniline	ND		330	89	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
4-Nitrophenol	ND		330	120	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Acenaphthene	ND		170	25	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Acenaphthylene	ND		170	22	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Acetophenone	ND		170	23	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Anthracene	ND		170	42	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Atrazine	ND		170	59	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Benzaldehyde	ND		170	130	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Benzo[a]pyrene	ND		170	25	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Biphenyl	ND		170	25	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Caprolactam	ND		170	51	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Carbazole	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Chrysene	ND		170	38	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Dibenzofuran	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Diethyl phthalate	ND		170	22	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Dimethyl phthalate	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		04/05/19 14:01	04/07/19 18:32	1

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QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: MB 480-466497/1-A

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Fluoranthene	ND		170	18	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Fluorene	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Hexachlorobenzene	ND		170	23	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Hexachlorobutadiene	ND		170	25	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Hexachloroethane	ND		170	22	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Isophorone	ND		170	36	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Naphthalene	ND		170	22	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Nitrobenzene	ND		170	19	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Pentachlorophenol	ND		330	170	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Phenanthrene	ND		170	25	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Phenol	ND		170	26	ug/Kg		04/05/19 14:01	04/07/19 18:32	1
Pyrene	ND		170	20	ug/Kg		04/05/19 14:01	04/07/19 18:32	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	175	T J	ug/Kg		1.55		04/05/19 14:01	04/07/19 18:32	1
Unknown	264	T J	ug/Kg		1.62		04/05/19 14:01	04/07/19 18:32	1
Unknown	4640	T J	ug/Kg		1.76		04/05/19 14:01	04/07/19 18:32	1
Unknown	2120	T J	ug/Kg		3.05		04/05/19 14:01	04/07/19 18:32	1
Unknown	174	T J	ug/Kg		4.98		04/05/19 14:01	04/07/19 18:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		54 - 120	04/05/19 14:01	04/07/19 18:32	1
2-Fluorobiphenyl (Surr)	84		60 - 120	04/05/19 14:01	04/07/19 18:32	1
2-Fluorophenol (Surr)	69		52 - 120	04/05/19 14:01	04/07/19 18:32	1
Nitrobenzene-d5 (Surr)	72		53 - 120	04/05/19 14:01	04/07/19 18:32	1
Phenol-d5 (Surr)	74		54 - 120	04/05/19 14:01	04/07/19 18:32	1
p-Terphenyl-d14 (Surr)	104		65 - 121	04/05/19 14:01	04/07/19 18:32	1

Lab Sample ID: LCS 480-466497/2-A

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	1640	1400		ug/Kg		85	59 - 126
2,4,6-Trichlorophenol	1640	1410		ug/Kg		86	59 - 123
2,4-Dichlorophenol	1640	1380		ug/Kg		84	61 - 120
2,4-Dimethylphenol	1640	1280		ug/Kg		78	59 - 120
2,4-Dinitrophenol	3280	2330		ug/Kg		71	41 - 146
2,4-Dinitrotoluene	1640	1430		ug/Kg		87	63 - 120
2,6-Dinitrotoluene	1640	1430		ug/Kg		87	66 - 120
2-Chloronaphthalene	1640	1330		ug/Kg		81	57 - 120
2-Chlorophenol	1640	1180		ug/Kg		72	53 - 120
2-Methylnaphthalene	1640	1360		ug/Kg		83	59 - 120

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QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: LCS 480-466497/2-A

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	1640	1240		ug/Kg		75	54 - 120
2-Nitroaniline	1640	1180		ug/Kg		72	61 - 120
2-Nitrophenol	1640	1290		ug/Kg		78	56 - 120
3,3'-Dichlorobenzidine	3280	2640		ug/Kg		81	54 - 120
3-Nitroaniline	1640	1050		ug/Kg		64	48 - 120
4,6-Dinitro-2-methylphenol	3280	3270		ug/Kg		100	49 - 122
4-Bromophenyl phenyl ether	1640	1590		ug/Kg		97	58 - 120
4-Chloro-3-methylphenol	1640	1270		ug/Kg		77	61 - 120
4-Chloroaniline	1640	1150		ug/Kg		70	38 - 120
4-Chlorophenyl phenyl ether	1640	1460		ug/Kg		89	63 - 124
4-Methylphenol	1640	1210		ug/Kg		74	55 - 120
4-Nitroaniline	1640	1200		ug/Kg		73	56 - 120
4-Nitrophenol	3280	2950		ug/Kg		90	43 - 147
Acenaphthene	1640	1350		ug/Kg		82	62 - 120
Acenaphthylene	1640	1280		ug/Kg		78	58 - 121
Acetophenone	1640	1150		ug/Kg		70	54 - 120
Anthracene	1640	1410		ug/Kg		86	62 - 120
Atrazine	3280	2870		ug/Kg		87	60 - 127
Benzaldehyde	3280	2210		ug/Kg		67	10 - 150
Benzo[a]anthracene	1640	1290		ug/Kg		79	65 - 120
Benzo[a]pyrene	1640	1450		ug/Kg		88	64 - 120
Benzo[b]fluoranthene	1640	1380		ug/Kg		84	64 - 120
Benzo[g,h,i]perylene	1640	1530		ug/Kg		93	45 - 145
Benzo[k]fluoranthene	1640	1400		ug/Kg		85	65 - 120
Biphenyl	1640	1350		ug/Kg		82	59 - 120
bis (2-chloroisopropyl) ether	1640	828		ug/Kg		50	44 - 120
Bis(2-chloroethoxy)methane	1640	1170		ug/Kg		71	55 - 120
Bis(2-chloroethyl)ether	1640	1050		ug/Kg		64	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1470		ug/Kg		90	61 - 133
Butyl benzyl phthalate	1640	1370		ug/Kg		83	61 - 129
Caprolactam	3280	2380		ug/Kg		73	47 - 120
Carbazole	1640	1350		ug/Kg		82	65 - 120
Chrysene	1640	1400		ug/Kg		85	64 - 120
Dibenz(a,h)anthracene	1640	1520		ug/Kg		93	54 - 132
Dibenzofuran	1640	1330		ug/Kg		81	63 - 120
Diethyl phthalate	1640	1370		ug/Kg		83	66 - 120
Dimethyl phthalate	1640	1350		ug/Kg		82	65 - 124
Di-n-butyl phthalate	1640	1270		ug/Kg		77	58 - 130
Di-n-octyl phthalate	1640	1390		ug/Kg		85	57 - 133
Fluoranthene	1640	1210		ug/Kg		74	62 - 120
Fluorene	1640	1410		ug/Kg		86	63 - 120
Hexachlorobenzene	1640	1620		ug/Kg		99	60 - 120
Hexachlorobutadiene	1640	1450		ug/Kg		88	45 - 120
Hexachlorocyclopentadiene	1640	1450		ug/Kg		88	47 - 120
Hexachloroethane	1640	1050		ug/Kg		64	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1590		ug/Kg		97	56 - 134
Isophorone	1640	1160		ug/Kg		70	56 - 120
Naphthalene	1640	1190		ug/Kg		73	55 - 120
Nitrobenzene	1640	1170		ug/Kg		71	54 - 120

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QC Sample Results

Client: AECOM

Job ID: 480-151412-1

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

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

Lab Sample ID: LCS 480-466497/2-A

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	1640	1070		ug/Kg		65	52 - 120
N-Nitrosodiphenylamine	1640	1550		ug/Kg		94	51 - 128
Pentachlorophenol	3280	3200		ug/Kg		98	51 - 120
Phenanthrene	1640	1420		ug/Kg		87	60 - 120
Phenol	1640	1060		ug/Kg		65	53 - 120
Pyrene	1640	1400		ug/Kg		86	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	102		54 - 120
2-Fluorobiphenyl (Surr)	82		60 - 120
2-Fluorophenol (Surr)	65		52 - 120
Nitrobenzene-d5 (Surr)	71		53 - 120
Phenol-d5 (Surr)	67		54 - 120
p-Terphenyl-d14 (Surr)	95		65 - 121

Lab Sample ID: 480-151412-2 MS

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: PWEXSWNA077

Prep Type: Total/NA

Prep Batch: 466497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		1940	1640		ug/Kg	☼	85	46 - 120
2,4,6-Trichlorophenol	ND		1940	1720		ug/Kg	☼	89	41 - 123
2,4-Dichlorophenol	ND		1940	1610		ug/Kg	☼	83	45 - 120
2,4-Dimethylphenol	ND		1940	1430		ug/Kg	☼	74	52 - 120
2,4-Dinitrophenol	ND		3870	2660		ug/Kg	☼	69	41 - 146
2,4-Dinitrotoluene	ND		1940	1640		ug/Kg	☼	85	63 - 125
2,6-Dinitrotoluene	ND		1940	1660		ug/Kg	☼	86	66 - 120
2-Chloronaphthalene	ND		1940	1620		ug/Kg	☼	83	57 - 120
2-Chlorophenol	ND		1940	1370		ug/Kg	☼	71	43 - 120
2-Methylnaphthalene	ND		1940	1580		ug/Kg	☼	81	55 - 120
2-Methylphenol	ND		1940	1400		ug/Kg	☼	72	48 - 120
2-Nitroaniline	ND		1940	1440		ug/Kg	☼	74	61 - 120
2-Nitrophenol	ND		1940	1530		ug/Kg	☼	79	37 - 120
3,3'-Dichlorobenzidine	ND		3870	3260		ug/Kg	☼	84	37 - 126
3-Nitroaniline	ND		1940	1290		ug/Kg	☼	67	48 - 120
4,6-Dinitro-2-methylphenol	ND		3870	3730		ug/Kg	☼	96	23 - 149
4-Bromophenyl phenyl ether	ND		1940	1760		ug/Kg	☼	91	58 - 120
4-Chloro-3-methylphenol	ND		1940	1470		ug/Kg	☼	76	49 - 125
4-Chloroaniline	ND		1940	1280		ug/Kg	☼	66	38 - 120
4-Chlorophenyl phenyl ether	ND		1940	1740		ug/Kg	☼	90	63 - 124
4-Methylphenol	ND		1940	1420		ug/Kg	☼	73	50 - 120
4-Nitroaniline	ND		1940	1420		ug/Kg	☼	73	47 - 120
4-Nitrophenol	ND		3870	3640		ug/Kg	☼	94	31 - 147
Acenaphthene	ND		1940	1620		ug/Kg	☼	84	60 - 120
Acenaphthylene	ND		1940	1510		ug/Kg	☼	78	58 - 121
Acetophenone	ND		1940	1360		ug/Kg	☼	70	47 - 120
Anthracene	ND		1940	1600		ug/Kg	☼	83	62 - 120
Atrazine	ND		3870	3380		ug/Kg	☼	87	60 - 150

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QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: 480-151412-2 MS

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: PWEXSWNA077

Prep Type: Total/NA

Prep Batch: 466497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	ND		3870	2650		ug/Kg	☼	68	10 - 150
Benzo[a]anthracene	ND		1940	1480		ug/Kg	☼	77	65 - 120
Benzo[a]pyrene	ND		1940	1630		ug/Kg	☼	84	64 - 120
Benzo[b]fluoranthene	ND		1940	1630		ug/Kg	☼	84	64 - 120
Benzo[g,h,i]perylene	ND		1940	1820		ug/Kg	☼	94	45 - 145
Benzo[k]fluoranthene	ND		1940	1570		ug/Kg	☼	81	65 - 120
Biphenyl	ND		1940	1570		ug/Kg	☼	81	58 - 120
bis (2-chloroisopropyl) ether	ND		1940	995		ug/Kg	☼	51	31 - 120
Bis(2-chloroethoxy)methane	ND		1940	1390		ug/Kg	☼	72	52 - 120
Bis(2-chloroethyl)ether	ND		1940	1230		ug/Kg	☼	64	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1940	1710		ug/Kg	☼	89	61 - 133
Butyl benzyl phthalate	ND		1940	1640		ug/Kg	☼	85	61 - 120
Caprolactam	ND		3870	2690		ug/Kg	☼	69	37 - 133
Carbazole	ND		1940	1520		ug/Kg	☼	79	59 - 120
Chrysene	ND		1940	1630		ug/Kg	☼	84	64 - 120
Dibenz(a,h)anthracene	ND		1940	1820		ug/Kg	☼	94	54 - 132
Dibenzofuran	ND		1940	1580		ug/Kg	☼	82	62 - 120
Diethyl phthalate	ND		1940	1640		ug/Kg	☼	85	66 - 120
Dimethyl phthalate	ND		1940	1580		ug/Kg	☼	81	65 - 124
Di-n-butyl phthalate	ND		1940	1410		ug/Kg	☼	73	58 - 130
Di-n-octyl phthalate	ND		1940	1550		ug/Kg	☼	80	57 - 133
Fluoranthene	77 J		1940	1430		ug/Kg	☼	70	62 - 120
Fluorene	ND		1940	1630		ug/Kg	☼	84	63 - 120
Hexachlorobenzene	ND		1940	1940		ug/Kg	☼	100	60 - 120
Hexachlorobutadiene	ND		1940	1720		ug/Kg	☼	89	45 - 120
Hexachlorocyclopentadiene	ND		1940	1770		ug/Kg	☼	91	31 - 120
Hexachloroethane	ND		1940	1270		ug/Kg	☼	65	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1940	1920		ug/Kg	☼	99	56 - 134
Isophorone	ND		1940	1360		ug/Kg	☼	70	56 - 120
Naphthalene	ND		1940	1410		ug/Kg	☼	73	46 - 120
Nitrobenzene	ND		1940	1340		ug/Kg	☼	69	49 - 120
N-Nitrosodi-n-propylamine	ND		1940	1230		ug/Kg	☼	64	46 - 120
N-Nitrosodiphenylamine	ND		1940	1770		ug/Kg	☼	91	20 - 128
Pentachlorophenol	ND		3870	3520		ug/Kg	☼	91	25 - 136
Phenanthrene	38 J		1940	1600		ug/Kg	☼	81	60 - 122
Phenol	ND		1940	1230		ug/Kg	☼	64	50 - 120
Pyrene	80 J		1940	1770		ug/Kg	☼	87	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	101		54 - 120
2-Fluorobiphenyl (Surr)	83		60 - 120
2-Fluorophenol (Surr)	65		52 - 120
Nitrobenzene-d5 (Surr)	70		53 - 120
Phenol-d5 (Surr)	69		54 - 120
p-Terphenyl-d14 (Surr)	98		65 - 121

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: 480-151412-2 MSD

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: PWEXSWNA077

Prep Type: Total/NA

Prep Batch: 466497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		1920	1660		ug/Kg	☼	87	46 - 120	1	18
2,4,6-Trichlorophenol	ND		1920	1650		ug/Kg	☼	86	41 - 123	4	19
2,4-Dichlorophenol	ND		1920	1590		ug/Kg	☼	83	45 - 120	1	19
2,4-Dimethylphenol	ND		1920	1420		ug/Kg	☼	74	52 - 120	0	42
2,4-Dinitrophenol	ND		3840	2690		ug/Kg	☼	70	41 - 146	1	22
2,4-Dinitrotoluene	ND		1920	1650		ug/Kg	☼	86	63 - 125	1	20
2,6-Dinitrotoluene	ND		1920	1620		ug/Kg	☼	84	66 - 120	3	15
2-Chloronaphthalene	ND		1920	1580		ug/Kg	☼	83	57 - 120	2	21
2-Chlorophenol	ND		1920	1370		ug/Kg	☼	71	43 - 120	0	25
2-Methylnaphthalene	ND		1920	1510		ug/Kg	☼	79	55 - 120	4	21
2-Methylphenol	ND		1920	1440		ug/Kg	☼	75	48 - 120	3	27
2-Nitroaniline	ND		1920	1440		ug/Kg	☼	75	61 - 120	0	15
2-Nitrophenol	ND		1920	1510		ug/Kg	☼	79	37 - 120	1	18
3,3'-Dichlorobenzidine	ND		3840	3340		ug/Kg	☼	87	37 - 126	2	25
3-Nitroaniline	ND		1920	1320		ug/Kg	☼	69	48 - 120	2	19
4,6-Dinitro-2-methylphenol	ND		3840	3840		ug/Kg	☼	100	23 - 149	3	15
4-Bromophenyl phenyl ether	ND		1920	1800		ug/Kg	☼	94	58 - 120	2	15
4-Chloro-3-methylphenol	ND		1920	1500		ug/Kg	☼	78	49 - 125	2	27
4-Chloroaniline	ND		1920	1270		ug/Kg	☼	66	38 - 120	1	22
4-Chlorophenyl phenyl ether	ND		1920	1680		ug/Kg	☼	88	63 - 124	4	16
4-Methylphenol	ND		1920	1410		ug/Kg	☼	73	50 - 120	1	24
4-Nitroaniline	ND		1920	1470		ug/Kg	☼	77	47 - 120	4	24
4-Nitrophenol	ND		3840	3720		ug/Kg	☼	97	31 - 147	2	25
Acenaphthene	ND		1920	1610		ug/Kg	☼	84	60 - 120	1	35
Acenaphthylene	ND		1920	1490		ug/Kg	☼	78	58 - 121	1	18
Acetophenone	ND		1920	1310		ug/Kg	☼	68	47 - 120	4	20
Anthracene	ND		1920	1590		ug/Kg	☼	83	62 - 120	1	15
Atrazine	ND		3840	3360		ug/Kg	☼	88	60 - 150	1	20
Benzaldehyde	ND		3840	2500		ug/Kg	☼	65	10 - 150	6	20
Benzo[a]anthracene	ND		1920	1490		ug/Kg	☼	78	65 - 120	1	15
Benzo[a]pyrene	ND		1920	1600		ug/Kg	☼	83	64 - 120	2	15
Benzo[b]fluoranthene	ND		1920	1560		ug/Kg	☼	82	64 - 120	4	15
Benzo[g,h,i]perylene	ND		1920	1730		ug/Kg	☼	90	45 - 145	5	15
Benzo[k]fluoranthene	ND		1920	1520		ug/Kg	☼	79	65 - 120	3	22
Biphenyl	ND		1920	1550		ug/Kg	☼	81	58 - 120	2	20
bis (2-chloroisopropyl) ether	ND		1920	956		ug/Kg	☼	50	31 - 120	4	24
Bis(2-chloroethoxy)methane	ND		1920	1340		ug/Kg	☼	70	52 - 120	3	17
Bis(2-chloroethyl)ether	ND		1920	1190		ug/Kg	☼	62	45 - 120	4	21
Bis(2-ethylhexyl) phthalate	ND		1920	1740		ug/Kg	☼	91	61 - 133	2	15
Butyl benzyl phthalate	ND		1920	1630		ug/Kg	☼	85	61 - 120	0	16
Caprolactam	ND		3840	2670		ug/Kg	☼	70	37 - 133	1	20
Carbazole	ND		1920	1540		ug/Kg	☼	80	59 - 120	1	20
Chrysene	ND		1920	1640		ug/Kg	☼	85	64 - 120	1	15
Dibenz(a,h)anthracene	ND		1920	1730		ug/Kg	☼	90	54 - 132	5	15
Dibenzofuran	ND		1920	1600		ug/Kg	☼	84	62 - 120	1	15
Diethyl phthalate	ND		1920	1590		ug/Kg	☼	83	66 - 120	3	15
Dimethyl phthalate	ND		1920	1570		ug/Kg	☼	82	65 - 124	1	15
Di-n-butyl phthalate	ND		1920	1490		ug/Kg	☼	78	58 - 130	6	15

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QC Sample Results

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

Job ID: 480-151412-1

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

Lab Sample ID: 480-151412-2 MSD

Matrix: Solid

Analysis Batch: 466630

Client Sample ID: PWEXSWNA077

Prep Type: Total/NA

Prep Batch: 466497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-octyl phthalate	ND		1920	1610		ug/Kg	☼	84	57 - 133	3	16
Fluoranthene	77	J	1920	1470		ug/Kg	☼	72	62 - 120	2	15
Fluorene	ND		1920	1590		ug/Kg	☼	83	63 - 120	3	15
Hexachlorobenzene	ND		1920	1840		ug/Kg	☼	96	60 - 120	5	15
Hexachlorobutadiene	ND		1920	1610		ug/Kg	☼	84	45 - 120	7	44
Hexachlorocyclopentadiene	ND		1920	1720		ug/Kg	☼	90	31 - 120	2	49
Hexachloroethane	ND		1920	1240		ug/Kg	☼	64	21 - 120	2	46
Indeno[1,2,3-cd]pyrene	ND		1920	1790		ug/Kg	☼	93	56 - 134	7	15
Isophorone	ND		1920	1310		ug/Kg	☼	68	56 - 120	4	17
Naphthalene	ND		1920	1360		ug/Kg	☼	71	46 - 120	3	29
Nitrobenzene	ND		1920	1290		ug/Kg	☼	67	49 - 120	3	24
N-Nitrosodi-n-propylamine	ND		1920	1230		ug/Kg	☼	64	46 - 120	0	31
N-Nitrosodiphenylamine	ND		1920	1740		ug/Kg	☼	91	20 - 128	2	15
Pentachlorophenol	ND		3840	3500		ug/Kg	☼	91	25 - 136	1	35
Phenanthrene	38	J	1920	1620		ug/Kg	☼	83	60 - 122	1	15
Phenol	ND		1920	1200		ug/Kg	☼	62	50 - 120	3	35
Pyrene	80	J	1920	1720		ug/Kg	☼	86	61 - 133	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	107		54 - 120
2-Fluorobiphenyl (Surr)	82		60 - 120
2-Fluorophenol (Surr)	64		52 - 120
Nitrobenzene-d5 (Surr)	70		53 - 120
Phenol-d5 (Surr)	67		54 - 120
p-Terphenyl-d14 (Surr)	93		65 - 121

QC Association Summary

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

Job ID: 480-151412-1

GC/MS VOA

Prep Batch: 466552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-2	PWEXSWNA077	Total/NA	Solid	5035A_L	
480-151412-3	PWEXSWNA078	Total/NA	Solid	5035A_L	
480-151412-5	PWEXSWNA080	Total/NA	Solid	5035A_L	
480-151412-6	PWEXSWNA081	Total/NA	Solid	5035A_L	
480-151412-7	PWEXSWNA082	Total/NA	Solid	5035A_L	
480-151412-9	PWEXSWNA084	Total/NA	Solid	5035A_L	
480-151412-10	PWEXSWNA085	Total/NA	Solid	5035A_L	
480-151412-11	PWEXSWNA086	Total/NA	Solid	5035A_L	
480-151412-12	PWEXSWNA087	Total/NA	Solid	5035A_L	
MB 480-466552/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-466552/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 466554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-2	PWEXSWNA077	Total/NA	Solid	8260C	466552
480-151412-3	PWEXSWNA078	Total/NA	Solid	8260C	466552
480-151412-5	PWEXSWNA080	Total/NA	Solid	8260C	466552
480-151412-6	PWEXSWNA081	Total/NA	Solid	8260C	466552
480-151412-7	PWEXSWNA082	Total/NA	Solid	8260C	466552
480-151412-9	PWEXSWNA084	Total/NA	Solid	8260C	466552
480-151412-10	PWEXSWNA085	Total/NA	Solid	8260C	466552
480-151412-11	PWEXSWNA086	Total/NA	Solid	8260C	466552
480-151412-12	PWEXSWNA087	Total/NA	Solid	8260C	466552
MB 480-466552/2-A	Method Blank	Total/NA	Solid	8260C	466552
LCS 480-466552/1-A	Lab Control Sample	Total/NA	Solid	8260C	466552

Prep Batch: 466659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-1	PWEXSWNA076	Total/NA	Solid	5035A_L	
480-151412-4	PWEXSWNA079	Total/NA	Solid	5035A_L	
480-151412-8	PWEXSWNA083	Total/NA	Solid	5035A_L	
MB 480-466659/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-466659/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 466662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-1	PWEXSWNA076	Total/NA	Solid	8260C	466659
480-151412-4	PWEXSWNA079	Total/NA	Solid	8260C	466659
480-151412-8	PWEXSWNA083	Total/NA	Solid	8260C	466659
MB 480-466659/2-A	Method Blank	Total/NA	Solid	8260C	466659
LCS 480-466659/1-A	Lab Control Sample	Total/NA	Solid	8260C	466659

GC/MS Semi VOA

Prep Batch: 466497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-1	PWEXSWNA076	Total/NA	Solid	3550C	
480-151412-2	PWEXSWNA077	Total/NA	Solid	3550C	
480-151412-3	PWEXSWNA078	Total/NA	Solid	3550C	
480-151412-4	PWEXSWNA079	Total/NA	Solid	3550C	
480-151412-5 - DL	PWEXSWNA080	Total/NA	Solid	3550C	

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QC Association Summary

Client: AECOM

Job ID: 480-151412-1

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

GC/MS Semi VOA (Continued)

Prep Batch: 466497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-5	PWEXSWNA080	Total/NA	Solid	3550C	
480-151412-6	PWEXSWNA081	Total/NA	Solid	3550C	
480-151412-7	PWEXSWNA082	Total/NA	Solid	3550C	
480-151412-8	PWEXSWNA083	Total/NA	Solid	3550C	
480-151412-9	PWEXSWNA084	Total/NA	Solid	3550C	
480-151412-10	PWEXSWNA085	Total/NA	Solid	3550C	
480-151412-11	PWEXSWNA086	Total/NA	Solid	3550C	
480-151412-12	PWEXSWNA087	Total/NA	Solid	3550C	
MB 480-466497/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-466497/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-151412-2 MS	PWEXSWNA077	Total/NA	Solid	3550C	
480-151412-2 MSD	PWEXSWNA077	Total/NA	Solid	3550C	

Analysis Batch: 466630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-1	PWEXSWNA076	Total/NA	Solid	8270D	466497
480-151412-2	PWEXSWNA077	Total/NA	Solid	8270D	466497
480-151412-3	PWEXSWNA078	Total/NA	Solid	8270D	466497
480-151412-4	PWEXSWNA079	Total/NA	Solid	8270D	466497
480-151412-5	PWEXSWNA080	Total/NA	Solid	8270D	466497
480-151412-6	PWEXSWNA081	Total/NA	Solid	8270D	466497
480-151412-7	PWEXSWNA082	Total/NA	Solid	8270D	466497
480-151412-8	PWEXSWNA083	Total/NA	Solid	8270D	466497
480-151412-9	PWEXSWNA084	Total/NA	Solid	8270D	466497
480-151412-10	PWEXSWNA085	Total/NA	Solid	8270D	466497
480-151412-11	PWEXSWNA086	Total/NA	Solid	8270D	466497
480-151412-12	PWEXSWNA087	Total/NA	Solid	8270D	466497
MB 480-466497/1-A	Method Blank	Total/NA	Solid	8270D	466497
LCS 480-466497/2-A	Lab Control Sample	Total/NA	Solid	8270D	466497
480-151412-2 MS	PWEXSWNA077	Total/NA	Solid	8270D	466497
480-151412-2 MSD	PWEXSWNA077	Total/NA	Solid	8270D	466497

Analysis Batch: 466816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-5 - DL	PWEXSWNA080	Total/NA	Solid	8270D	466497

General Chemistry

Analysis Batch: 466482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-1	PWEXSWNA076	Total/NA	Solid	Moisture	
480-151412-2	PWEXSWNA077	Total/NA	Solid	Moisture	
480-151412-3	PWEXSWNA078	Total/NA	Solid	Moisture	
480-151412-4	PWEXSWNA079	Total/NA	Solid	Moisture	
480-151412-5	PWEXSWNA080	Total/NA	Solid	Moisture	
480-151412-6	PWEXSWNA081	Total/NA	Solid	Moisture	
480-151412-7	PWEXSWNA082	Total/NA	Solid	Moisture	
480-151412-8	PWEXSWNA083	Total/NA	Solid	Moisture	
480-151412-9	PWEXSWNA084	Total/NA	Solid	Moisture	
480-151412-10	PWEXSWNA085	Total/NA	Solid	Moisture	
480-151412-11	PWEXSWNA086	Total/NA	Solid	Moisture	

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QC Association Summary

Client: AECOM

Job ID: 480-151412-1

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

General Chemistry (Continued)

Analysis Batch: 466482 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151412-12	PWEXSWNA087	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA076

Lab Sample ID: 480-151412-1

Date Collected: 04/03/19 14:05

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA076

Lab Sample ID: 480-151412-1

Date Collected: 04/03/19 14:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466659	04/08/19 07:58	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466662	04/08/19 11:53	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		5	466630	04/07/19 20:38	DMR	TAL BUF

Client Sample ID: PWEXSWNA077

Lab Sample ID: 480-151412-2

Date Collected: 04/03/19 14:24

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA077

Lab Sample ID: 480-151412-2

Date Collected: 04/03/19 14:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 11:43	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 20:13	DMR	TAL BUF

Client Sample ID: PWEXSWNA078

Lab Sample ID: 480-151412-3

Date Collected: 04/04/19 09:56

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA078

Lab Sample ID: 480-151412-3

Date Collected: 04/04/19 09:56

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 12:09	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 21:03	DMR	TAL BUF

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Lab Chronicle

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA079

Lab Sample ID: 480-151412-4

Date Collected: 04/04/19 10:04

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA079

Lab Sample ID: 480-151412-4

Date Collected: 04/04/19 10:04

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466659	04/08/19 07:58	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466662	04/08/19 11:27	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 21:29	DMR	TAL BUF

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Date Collected: 04/04/19 10:14

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA080

Lab Sample ID: 480-151412-5

Date Collected: 04/04/19 10:14

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 15:37	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		10	466630	04/07/19 21:54	DMR	TAL BUF
Total/NA	Prep	3550C	DL		466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D	DL	50	466816	04/08/19 19:33	DMR	TAL BUF

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Date Collected: 04/04/19 10:20

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Date Collected: 04/04/19 10:20

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 13:01	CDC	TAL BUF

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Lab Chronicle

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA081

Lab Sample ID: 480-151412-6

Date Collected: 04/04/19 10:20

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 22:19	DMR	TAL BUF

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Date Collected: 04/04/19 10:30

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA082

Lab Sample ID: 480-151412-7

Date Collected: 04/04/19 10:30

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 16:03	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 22:44	DMR	TAL BUF

Client Sample ID: PWEXSWNA083

Lab Sample ID: 480-151412-8

Date Collected: 04/04/19 10:37

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA083

Lab Sample ID: 480-151412-8

Date Collected: 04/04/19 10:37

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466659	04/08/19 07:58	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466662	04/08/19 12:19	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 23:09	DMR	TAL BUF

Client Sample ID: PWEXSWNA084

Lab Sample ID: 480-151412-9

Date Collected: 04/04/19 10:42

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

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

Job ID: 480-151412-1

Client Sample ID: PWEXSWNA084

Lab Sample ID: 480-151412-9

Date Collected: 04/04/19 10:42

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 13:28	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 23:33	DMR	TAL BUF

Client Sample ID: PWEXSWNA085

Lab Sample ID: 480-151412-10

Date Collected: 04/04/19 11:05

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA085

Lab Sample ID: 480-151412-10

Date Collected: 04/04/19 11:05

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 13:53	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/07/19 23:58	DMR	TAL BUF

Client Sample ID: PWEXSWNA086

Lab Sample ID: 480-151412-11

Date Collected: 04/04/19 11:12

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Client Sample ID: PWEXSWNA086

Lab Sample ID: 480-151412-11

Date Collected: 04/04/19 11:12

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 14:19	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/08/19 00:23	DMR	TAL BUF

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151412-12

Date Collected: 04/04/19 11:24

Matrix: Solid

Date Received: 04/05/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466482	04/05/19 13:05	CMK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: AECOM

Job ID: 480-151412-1

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

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151412-12

Date Collected: 04/04/19 11:24

Matrix: Solid

Date Received: 04/05/19 09:15

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466552	04/06/19 06:02	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466554	04/06/19 14:45	CDC	TAL BUF
Total/NA	Prep	3550C			466497	04/05/19 14:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466630	04/08/19 00:47	DMR	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM

Job ID: 480-151412-1

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

Laboratory: Eurofins TestAmerica, Buffalo

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	10026	03-31-20

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

Method Summary

Client: AECOM

Job ID: 480-151412-1

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

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM

Job ID: 480-151412-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-151412-1	PWEXSWNA076	Solid	04/03/19 14:05	04/05/19 09:15
480-151412-2	PWEXSWNA077	Solid	04/03/19 14:24	04/05/19 09:15
480-151412-3	PWEXSWNA078	Solid	04/04/19 09:56	04/05/19 09:15
480-151412-4	PWEXSWNA079	Solid	04/04/19 10:04	04/05/19 09:15
480-151412-5	PWEXSWNA080	Solid	04/04/19 10:14	04/05/19 09:15
480-151412-6	PWEXSWNA081	Solid	04/04/19 10:20	04/05/19 09:15
480-151412-7	PWEXSWNA082	Solid	04/04/19 10:30	04/05/19 09:15
480-151412-8	PWEXSWNA083	Solid	04/04/19 10:37	04/05/19 09:15
480-151412-9	PWEXSWNA084	Solid	04/04/19 10:42	04/05/19 09:15
480-151412-10	PWEXSWNA085	Solid	04/04/19 11:05	04/05/19 09:15
480-151412-11	PWEXSWNA086	Solid	04/04/19 11:12	04/05/19 09:15
480-151412-12	PWEXSWNA087	Solid	04/04/19 11:24	04/05/19 09:15

Chain of Custody Record

Client Information Client Contact: George Hermance Company: AECOM Address: 257 West Genesee Street Suite 400 City: Buffalo State, Zip: NY, 14202-2857 Phone: 518-428-4383(Tel) Email: George.Hermance@aecom.com Project Name: 60584654, Penn Yan Former MGP Phase 2 Site:		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 #:						
Analysis Requested Due Date Requested: 4/8/2019 TAT Requested (days): 72 Hour PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015558 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 M - Hexane N - None O - AsH2O2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - TSP Decalhydrate T - Acetone U - MCAA V - pH 4-5 W - other (specify)						
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=volatile, BT=biological, AT=air) Preservation Code:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8270D - TCL SVOCs + 20 TICs 8260C - TCL VOCs + TICs Total Number						
PWEXSWNA076	4/3/19	1405	G	Solid	X	X	2	Process First
PWEXSWNA077	4/3/19	1424	G	Solid	X	X	2	Process First
PWEXSWNA078	4/4/19	0956	G	Solid	X	X	2	
PWEXSWNA079	4/4/19	1004	G	Solid	X	X	2	
PWEXSWNA080	4/4/19	1014	G	Solid	X	X	2	
PWEXSWNA081	4/4/19	1020	G	Solid	X	X	2	
PWEXSWNA082	4/4/19	1030	G	Solid	X	X	2	
PWEXSWNA083	4/4/19	1037	G	Solid	X	X	2	
PWEXSWNA084	4/4/19	1042	G	Solid	X	X	2	
PWEXSWNA085	4/4/19	1105	G	Solid	X	X	2	
PWEXSWNA086	4/4/19	1112	G	Solid	X	X	2	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months				
Empty Kit Relinquished by: Relinquished by: George Hermance Date/Time: 4/4/19 1:50 PM Company: AECOM				Method of Shipment: Received by: FedEx Date/Time: 4/5-19 9:15 Company: TAB				
Custody Seals Intact: Δ Yes Δ No				Cooler Temperature(s) °C and Other Remarks: 1.9 #1				

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-151412-1

Login Number: 151412

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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.	N/A	
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	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

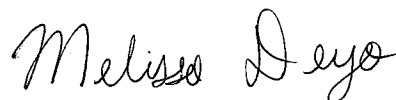
Laboratory Job ID: 480-151436-1

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:
4/11/2019 12:45:37 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: 480-151436-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.
X	Surrogate is outside control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
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.
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: 480-151436-1

Job ID: 480-151436-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-151436-1

Receipt

The samples were received on 4/5/2019 4:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

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

GC/MS Semi VOA

Method(s) 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: (480-151436-A-1-A MS). The parent sample's surrogate recovery was within limits. The MS sample has been qualified and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-466980 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Phenol and N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-466786 and analytical batch 480-466980 recovered outside control limits for the following analyte: Pentachlorophenol. This analyte was biased high in the LCS 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.

Organic 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: 480-151436-1

Client Sample ID: PWEXBM04072

Lab Sample ID: 480-151436-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	35	J	200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	33	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	78	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	54	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	49	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	47	J	200	24	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXBM07079

Lab Sample ID: 480-151436-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J vs	30	5.0	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	73	J	210	30	ug/Kg	1	✱	8270D	Total/NA
Carbazole	28	J	210	24	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	79	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Fluorene	38	J	210	24	ug/Kg	1	✱	8270D	Total/NA
Pyrene	38	J	210	24	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA127

Lab Sample ID: 480-151436-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	73	J	220	44	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	120	J	220	28	ug/Kg	1	✱	8270D	Total/NA
Anthracene	170	J	220	54	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	860		220	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	730		220	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	680		220	35	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	660		220	23	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	400		220	28	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	57	J	220	32	ug/Kg	1	✱	8270D	Total/NA
Carbazole	74	J	220	26	ug/Kg	1	✱	8270D	Total/NA
Chrysene	920		220	49	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	120	J	220	26	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	900		220	23	ug/Kg	1	✱	8270D	Total/NA
Fluorene	55	J	220	26	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	550		220	27	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	420		220	28	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	470		220	32	ug/Kg	1	✱	8270D	Total/NA
Pyrene	1500		220	26	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA128

Lab Sample ID: 480-151436-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	67	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	230		210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	290		210	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	380		210	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	340		210	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	200	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Carbazole	31	J	210	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	300		210	46	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	300		210	22	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM

Job ID: 480-151436-1

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

Client Sample ID: PWEXSWNA128 (Continued)

Lab Sample ID: 480-151436-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	310		210	26	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	53	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	78	J	210	31	ug/Kg	1	☼	8270D	Total/NA
Pyrene	370		210	24	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXBM04072

Lab Sample ID: 480-151436-1

Date Collected: 04/05/19 08:21

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.95	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,1,2-Trichloroethane	ND	vs	5.8	0.76	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,1-Dichloroethene	ND	vs	5.8	0.72	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.36	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,2-Dibromoethane	ND	vs	5.8	0.75	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,2-Dichlorobenzene	ND	vs	5.8	0.46	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
1,4-Dichlorobenzene	ND	vs	5.8	0.82	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Acetone	13	J vs	29	4.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Benzene	ND	vs	5.8	0.29	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Bromodichloromethane	ND	vs	5.8	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Bromomethane	ND	vs	5.8	0.53	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Carbon tetrachloride	ND	vs	5.8	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Chlorobenzene	ND	vs	5.8	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Chloroform	ND	vs	5.8	0.36	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.75	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.84	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Cyclohexane	ND	vs	5.8	0.82	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Dibromochloromethane	ND	vs	5.8	0.75	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Isopropylbenzene	ND	vs	5.8	0.88	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Methylcyclohexane	ND	vs	5.8	0.89	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.6	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1
Xylenes, Total	ND	vs	12	0.98	ug/Kg	☼	04/08/19 07:58	04/08/19 12:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXBM04072

Lab Sample ID: 480-151436-1

Date Collected: 04/05/19 08:21

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 83.3

<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>
Unknown	13	T J	ug/Kg	☼	12.53		04/08/19 07:58	04/08/19 12:45	1
Naphthalene	12	T J N	ug/Kg	☼	12.81	91-20-3	04/08/19 07:58	04/08/19 12:45	1
Dibenzofuran	14	T J N	ug/Kg	☼	13.24	132-64-9	04/08/19 07:58	04/08/19 12:45	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	104		64 - 126				04/08/19 07:58	04/08/19 12:45	1
4-Bromofluorobenzene (Surr)	99		72 - 126				04/08/19 07:58	04/08/19 12:45	1
Dibromofluoromethane (Surr)	101		60 - 140				04/08/19 07:58	04/08/19 12:45	1
Toluene-d8 (Surr)	99		71 - 125				04/08/19 07:58	04/08/19 12:45	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2-Methylphenol	ND		200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
2-Nitrophenol	ND F2		200	57	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4-Methylphenol	ND		390	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Acenaphthene	ND		200	30	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Acenaphthylene	ND		200	26	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Acetophenone	ND		200	27	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Anthracene	ND		200	50	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Atrazine	ND		200	70	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Benzo[a]anthracene	35 J		200	20	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Benzo[a]pyrene	33 J		200	30	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Biphenyl	ND		200	30	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Bis(2-chloroethyl)ether	ND F1		200	26	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXBM04072

Lab Sample ID: 480-151436-1

Date Collected: 04/05/19 08:21

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Caprolactam	ND		200	61	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Carbazole	ND		200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Chrysene	ND		200	45	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Dibenzofuran	ND		200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Fluoranthene	78	J	200	21	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Fluorene	ND		200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Isophorone	ND	F1	200	43	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Naphthalene	54	J	200	26	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Nitrobenzene	ND		200	23	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Pentachlorophenol	ND	*	390	200	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Phenanthrene	49	J	200	30	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Phenol	ND	F1	200	31	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1
Pyrene	47	J	200	24	ug/Kg	☼	04/08/19 14:32	04/09/19 16:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	170	T J	ug/Kg	☼	1.57		04/08/19 14:32	04/09/19 16:40	1
Unknown	260	T J	ug/Kg	☼	1.62		04/08/19 14:32	04/09/19 16:40	1
Unknown	6600	T J	ug/Kg	☼	1.76		04/08/19 14:32	04/09/19 16:40	1
Unknown	3000	T J	ug/Kg	☼	3.05		04/08/19 14:32	04/09/19 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		54 - 120	04/08/19 14:32	04/09/19 16:40	1
2-Fluorobiphenyl (Surr)	83		60 - 120	04/08/19 14:32	04/09/19 16:40	1
2-Fluorophenol (Surr)	62		52 - 120	04/08/19 14:32	04/09/19 16:40	1
Nitrobenzene-d5 (Surr)	68		53 - 120	04/08/19 14:32	04/09/19 16:40	1
Phenol-d5 (Surr)	65		54 - 120	04/08/19 14:32	04/09/19 16:40	1
p-Terphenyl-d14 (Surr)	100		65 - 121	04/08/19 14:32	04/09/19 16:40	1

Client Sample ID: PWEXBM07079

Lab Sample ID: 480-151436-2

Date Collected: 04/05/19 09:30

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.43	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.97	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXBM07079

Lab Sample ID: 480-151436-2

Date Collected: 04/05/19 09:30

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,1-Dichloroethene	ND	vs	6.0	0.73	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.36	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Acetone	16	J vs	30	5.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Benzene	ND	vs	6.0	0.29	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Bromodichloromethane	ND	vs	6.0	0.80	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Chloroethane	ND	vs	6.0	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.76	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.86	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Dibromochloromethane	ND	vs	6.0	0.76	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Dichlorodifluoromethane	ND	vs	6.0	0.49	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Ethylbenzene	ND	vs	6.0	0.41	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Isopropylbenzene	ND	vs	6.0	0.90	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Methylene Chloride	ND	vs	6.0	2.7	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Tetrachloroethene	ND	vs	6.0	0.80	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Toluene	ND	vs	6.0	0.45	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/08/19 07:58	04/08/19 13:11	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXBM07079

Lab Sample ID: 480-151436-2

Date Collected: 04/05/19 09:30

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	04/08/19 07:58	04/08/19 13:11	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/08/19 07:58	04/08/19 13:11	1
Dibromofluoromethane (Surr)	104		60 - 140	04/08/19 07:58	04/08/19 13:11	1
Toluene-d8 (Surr)	100		71 - 125	04/08/19 07:58	04/08/19 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2,4-Dinitrophenol	ND		2000	960	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2-Methylphenol	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4-Methylphenol	ND		400	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Acenaphthene	73 J		210	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Acenaphthylene	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Acetophenone	ND		210	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Anthracene	ND		210	51	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Atrazine	ND		210	72	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Benzaldehyde	ND		210	160	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Benzo[a]pyrene	ND		210	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Benzo[b]fluoranthene	ND		210	33	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Benzo[g,h,i]perylene	ND		210	22	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Biphenyl	ND		210	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Caprolactam	ND		210	62	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Carbazole	28 J		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Chrysene	ND		210	46	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXBM07079

Lab Sample ID: 480-151436-2

Date Collected: 04/05/19 09:30

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Dibenzofuran	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Fluoranthene	79	J	210	22	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Fluorene	38	J	210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Hexachloroethane	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Isophorone	ND		210	44	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Naphthalene	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Nitrobenzene	ND		210	23	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Pentachlorophenol	ND *		400	210	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Phenanthrene	ND		210	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Phenol	ND		210	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1
Pyrene	38	J	210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:05	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	230	T J	ug/Kg	☼	1.57		04/08/19 14:32	04/09/19 17:05	1
Unknown	3600	T J	ug/Kg	☼	1.76		04/08/19 14:32	04/09/19 17:05	1
Unknown	2900	T J	ug/Kg	☼	3.06		04/08/19 14:32	04/09/19 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		54 - 120	04/08/19 14:32	04/09/19 17:05	1
2-Fluorobiphenyl (Surr)	80		60 - 120	04/08/19 14:32	04/09/19 17:05	1
2-Fluorophenol (Surr)	58		52 - 120	04/08/19 14:32	04/09/19 17:05	1
Nitrobenzene-d5 (Surr)	64		53 - 120	04/08/19 14:32	04/09/19 17:05	1
Phenol-d5 (Surr)	63		54 - 120	04/08/19 14:32	04/09/19 17:05	1
p-Terphenyl-d14 (Surr)	97		65 - 121	04/08/19 14:32	04/09/19 17:05	1

Client Sample ID: PWEXSWNA127

Lab Sample ID: 480-151436-3

Date Collected: 04/04/19 11:03

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.4	0.46	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,1,2,2-Tetrachloroethane	ND	vs	6.4	1.0	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.4	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,1,2-Trichloroethane	ND	vs	6.4	0.83	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,1-Dichloroethane	ND	vs	6.4	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,1-Dichloroethene	ND	vs	6.4	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,2,4-Trichlorobenzene	ND	vs	6.4	0.39	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.4	3.2	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXSWNA127

Lab Sample ID: 480-151436-3

Date Collected: 04/04/19 11:03

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND	vs	6.4	0.82	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,2-Dichlorobenzene	ND	vs	6.4	0.50	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,2-Dichloroethane	ND	vs	6.4	0.32	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,2-Dichloropropane	ND	vs	6.4	3.2	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,3-Dichlorobenzene	ND	vs	6.4	0.33	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
1,4-Dichlorobenzene	ND	vs	6.4	0.89	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
2-Butanone (MEK)	ND	vs	32	2.3	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Acetone	ND	vs	32	5.4	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Benzene	ND	vs	6.4	0.31	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Bromodichloromethane	ND	vs	6.4	0.85	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Bromoform	ND	vs	6.4	3.2	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Bromomethane	ND	vs	6.4	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Carbon disulfide	ND	vs	6.4	3.2	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Carbon tetrachloride	ND	vs	6.4	0.62	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Chlorobenzene	ND	vs	6.4	0.84	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Chloroethane	ND	vs	6.4	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Chloroform	ND	vs	6.4	0.39	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Chloromethane	ND	vs	6.4	0.38	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
cis-1,2-Dichloroethene	ND	vs	6.4	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
cis-1,3-Dichloropropene	ND	vs	6.4	0.92	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Cyclohexane	ND	vs	6.4	0.89	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Dibromochloromethane	ND	vs	6.4	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Dichlorodifluoromethane	ND	vs	6.4	0.53	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Ethylbenzene	ND	vs	6.4	0.44	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Isopropylbenzene	ND	vs	6.4	0.96	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Methyl acetate	ND	vs	32	3.8	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Methyl tert-butyl ether	ND	vs	6.4	0.62	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Methylcyclohexane	ND	vs	6.4	0.97	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Methylene Chloride	ND	vs	6.4	2.9	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Styrene	ND	vs	6.4	0.32	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Tetrachloroethene	ND	vs	6.4	0.85	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Toluene	ND	vs	6.4	0.48	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
trans-1,2-Dichloroethene	ND	vs	6.4	0.66	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
trans-1,3-Dichloropropene	ND	vs	6.4	2.8	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Trichloroethene	ND	vs	6.4	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Trichlorofluoromethane	ND	vs	6.4	0.60	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Vinyl chloride	ND	vs	6.4	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	04/08/19 07:58	04/08/19 13:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/08/19 07:58	04/08/19 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	04/08/19 07:58	04/08/19 13:37	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/08/19 07:58	04/08/19 13:37	1
Dibromofluoromethane (Surr)	103		60 - 140	04/08/19 07:58	04/08/19 13:37	1
Toluene-d8 (Surr)	103		71 - 125	04/08/19 07:58	04/08/19 13:37	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXSWNA127

Lab Sample ID: 480-151436-3

Date Collected: 04/04/19 11:03

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		220	59	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2,4,6-Trichlorophenol	ND		220	44	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2,4-Dichlorophenol	ND		220	23	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2,4-Dimethylphenol	ND		220	53	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2,4-Dinitrophenol	ND		2100	1000	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2,4-Dinitrotoluene	ND		220	45	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2,6-Dinitrotoluene	ND		220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2-Chloronaphthalene	ND		220	36	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2-Chlorophenol	ND		220	40	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2-Methylnaphthalene	73	J	220	44	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2-Methylphenol	ND		220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2-Nitroaniline	ND		430	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
2-Nitrophenol	ND		220	62	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
3,3'-Dichlorobenzidine	ND		430	260	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
3-Nitroaniline	ND		430	61	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4,6-Dinitro-2-methylphenol	ND		430	220	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4-Bromophenyl phenyl ether	ND		220	31	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4-Chloro-3-methylphenol	ND		220	54	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4-Chloroaniline	ND		220	54	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4-Chlorophenyl phenyl ether	ND		220	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4-Methylphenol	ND		430	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4-Nitroaniline	ND		430	120	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
4-Nitrophenol	ND		430	150	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Acenaphthene	ND		220	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Acenaphthylene	120	J	220	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Acetophenone	ND		220	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Anthracene	170	J	220	54	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Atrazine	ND		220	76	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Benzaldehyde	ND		220	170	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Benzo[a]anthracene	860		220	22	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Benzo[a]pyrene	730		220	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Benzo[b]fluoranthene	680		220	35	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Benzo[g,h,i]perylene	660		220	23	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Benzo[k]fluoranthene	400		220	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Biphenyl	57	J	220	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
bis (2-chloroisopropyl) ether	ND		220	44	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Bis(2-chloroethoxy)methane	ND		220	47	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Bis(2-chloroethyl)ether	ND		220	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Bis(2-ethylhexyl) phthalate	ND		220	75	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Butyl benzyl phthalate	ND		220	36	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Caprolactam	ND		220	66	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Carbazole	74	J	220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Chrysene	920		220	49	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Dibenz(a,h)anthracene	ND		220	39	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Dibenzofuran	120	J	220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Diethyl phthalate	ND		220	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Dimethyl phthalate	ND		220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Di-n-butyl phthalate	ND		220	38	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Di-n-octyl phthalate	ND		220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXSWNA127

Lab Sample ID: 480-151436-3

Date Collected: 04/04/19 11:03

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	900		220	23	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Fluorene	55	J	220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Hexachlorobenzene	ND		220	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Hexachlorobutadiene	ND		220	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Hexachlorocyclopentadiene	ND		220	30	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Hexachloroethane	ND		220	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Indeno[1,2,3-cd]pyrene	550		220	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Isophorone	ND		220	47	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Naphthalene	420		220	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Nitrobenzene	ND		220	25	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
N-Nitrosodi-n-propylamine	ND		220	38	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
N-Nitrosodiphenylamine	ND		220	180	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Pentachlorophenol	ND	*	430	220	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Phenanthrene	470		220	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Phenol	ND		220	34	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1
Pyrene	1500		220	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Column Bleed	210	T J	ug/Kg	☼	4.99		04/08/19 14:32	04/09/19 17:30	1
Benzeneacetic acid	280	T J N	ug/Kg	☼	7.34	103-82-2	04/08/19 14:32	04/09/19 17:30	1
Phenanthrene, 1-methyl-	200	T J N	ug/Kg	☼	11.14	832-69-9	04/08/19 14:32	04/09/19 17:30	1
Anthracene, 2-methyl-	240	T J N	ug/Kg	☼	11.16	613-12-7	04/08/19 14:32	04/09/19 17:30	1
Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8,10,12,13,15-octaene	200	T J N	ug/Kg	☼	11.42	6572-60-7	04/08/19 14:32	04/09/19 17:30	1
1,3-Diphenyl-3-methylcyclopropene	310	T J N	ug/Kg	☼	11.66	86544-79-8	04/08/19 14:32	04/09/19 17:30	1
Unknown	190	T J	ug/Kg	☼	11.68		04/08/19 14:32	04/09/19 17:30	1
Phenanthrene, 4,5-dimethyl-	210	T J N	ug/Kg	☼	11.73	3674-69-9	04/08/19 14:32	04/09/19 17:30	1
Pyrene, 1-methyl-	260	T J N	ug/Kg	☼	12.29	2381-21-7	04/08/19 14:32	04/09/19 17:30	1
Benz[a]anthracene, 8-methyl-	210	T J N	ug/Kg	☼	13.36	2381-31-9	04/08/19 14:32	04/09/19 17:30	1
Unknown	230	T J	ug/Kg	☼	13.48		04/08/19 14:32	04/09/19 17:30	1
Benzo[e]pyrene	460	T J N	ug/Kg	☼	14.08	192-97-2	04/08/19 14:32	04/09/19 17:30	1
Unknown	210	T J	ug/Kg	☼	14.81		04/08/19 14:32	04/09/19 17:30	1
Unknown	220	T J	ug/Kg	☼	15.08		04/08/19 14:32	04/09/19 17:30	1
Dibenzo[def,mno]chrysene	230	T J N	ug/Kg	☼	15.34	191-26-4	04/08/19 14:32	04/09/19 17:30	1
Unknown	200	T J	ug/Kg	☼	15.80		04/08/19 14:32	04/09/19 17:30	1
3,4,8,9-Dibenzopyrene	430	T J N	ug/Kg	☼	16.30	189-64-0	04/08/19 14:32	04/09/19 17:30	1
1,2,3,4-Dibenzopyrene	250	T J N	ug/Kg	☼	16.39	191-30-0	04/08/19 14:32	04/09/19 17:30	1
Unknown	270	T J	ug/Kg	☼	16.88		04/08/19 14:32	04/09/19 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		54 - 120	04/08/19 14:32	04/09/19 17:30	1
2-Fluorobiphenyl (Surr)	91		60 - 120	04/08/19 14:32	04/09/19 17:30	1
2-Fluorophenol (Surr)	60		52 - 120	04/08/19 14:32	04/09/19 17:30	1
Nitrobenzene-d5 (Surr)	68		53 - 120	04/08/19 14:32	04/09/19 17:30	1
Phenol-d5 (Surr)	63		54 - 120	04/08/19 14:32	04/09/19 17:30	1
p-Terphenyl-d14 (Surr)	94		65 - 121	04/08/19 14:32	04/09/19 17:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXSWNA128

Lab Sample ID: 480-151436-4

Date Collected: 04/04/19 11:19

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.1	0.44	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,1,2,2-Tetrachloroethane	ND	vs	6.1	0.98	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.1	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,1,2-Trichloroethane	ND	vs	6.1	0.79	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,1-Dichloroethane	ND	vs	6.1	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,1-Dichloroethene	ND	vs	6.1	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,2,4-Trichlorobenzene	ND	vs	6.1	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,2-Dibromoethane	ND	vs	6.1	0.78	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,2-Dichlorobenzene	ND	vs	6.1	0.47	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,2-Dichloroethane	ND	vs	6.1	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,2-Dichloropropane	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,3-Dichlorobenzene	ND	vs	6.1	0.31	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
1,4-Dichlorobenzene	ND	vs	6.1	0.85	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Acetone	ND	vs	30	5.1	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Benzene	ND	vs	6.1	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Bromodichloromethane	ND	vs	6.1	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Bromoform	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Bromomethane	ND	vs	6.1	0.54	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Carbon disulfide	ND	vs	6.1	3.0	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Carbon tetrachloride	ND	vs	6.1	0.59	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Chlorobenzene	ND	vs	6.1	0.80	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Chloroethane	ND	vs	6.1	1.4	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Chloroform	ND	vs	6.1	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Chloromethane	ND	vs	6.1	0.37	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
cis-1,2-Dichloroethene	ND	vs	6.1	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
cis-1,3-Dichloropropene	ND	vs	6.1	0.87	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Cyclohexane	ND	vs	6.1	0.85	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Dibromochloromethane	ND	vs	6.1	0.77	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Dichlorodifluoromethane	ND	vs	6.1	0.50	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Ethylbenzene	ND	vs	6.1	0.42	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Isopropylbenzene	ND	vs	6.1	0.91	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Methyl acetate	ND	vs	30	3.7	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Methyl tert-butyl ether	ND	vs	6.1	0.59	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Methylcyclohexane	ND	vs	6.1	0.92	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Methylene Chloride	ND	vs	6.1	2.8	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Styrene	ND	vs	6.1	0.30	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Tetrachloroethene	ND	vs	6.1	0.81	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Toluene	ND	vs	6.1	0.46	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
trans-1,2-Dichloroethene	ND	vs	6.1	0.62	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
trans-1,3-Dichloropropene	ND	vs	6.1	2.7	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Trichloroethene	ND	vs	6.1	1.3	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Trichlorofluoromethane	ND	vs	6.1	0.57	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Vinyl chloride	ND	vs	6.1	0.74	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/08/19 07:58	04/08/19 14:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXSWNA128

Lab Sample ID: 480-151436-4

Date Collected: 04/04/19 11:19

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.6

<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>04/08/19 07:58</i>	<i>04/08/19 14:03</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126				04/08/19 07:58	04/08/19 14:03	1
4-Bromofluorobenzene (Surr)	94		72 - 126				04/08/19 07:58	04/08/19 14:03	1
Dibromofluoromethane (Surr)	104		60 - 140				04/08/19 07:58	04/08/19 14:03	1
Toluene-d8 (Surr)	102		71 - 125				04/08/19 07:58	04/08/19 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2,4-Dinitrophenol	ND		2000	960	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2-Methylphenol	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2-Nitroaniline	ND		400	31	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4-Methylphenol	ND		400	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
4-Nitrophenol	ND		400	150	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Acenaphthene	ND		210	31	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Acenaphthylene	67	J	210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Acetophenone	ND		210	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Anthracene	ND		210	51	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Atrazine	ND		210	72	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Benzaldehyde	ND		210	160	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Benzo[a]anthracene	230		210	21	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Benzo[a]pyrene	290		210	31	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Benzo[b]fluoranthene	380		210	33	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Benzo[g,h,i]perylene	340		210	22	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Benzo[k]fluoranthene	200	J	210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Biphenyl	ND		210	31	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1

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Client Sample Results

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

Job ID: 480-151436-1

Client Sample ID: PWEXSWNA128

Lab Sample ID: 480-151436-4

Date Collected: 04/04/19 11:19

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		210	62	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Carbazole	31	J	210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Chrysene	300		210	46	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Dibenzofuran	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Fluoranthene	300		210	22	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Fluorene	ND		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Hexachloroethane	ND		210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Indeno[1,2,3-cd]pyrene	310		210	26	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Isophorone	ND		210	44	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Naphthalene	53	J	210	27	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Nitrobenzene	ND		210	23	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Pentachlorophenol	ND *		400	210	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Phenanthrene	78	J	210	31	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Phenol	ND		210	32	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1
Pyrene	370		210	24	ug/Kg	☼	04/08/19 14:32	04/09/19 17:55	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4700	T J	ug/Kg	☼	1.76		04/08/19 14:32	04/09/19 17:55	1
Unknown	2900	T J	ug/Kg	☼	3.06		04/08/19 14:32	04/09/19 17:55	1
Unknown	260	T J	ug/Kg	☼	4.98		04/08/19 14:32	04/09/19 17:55	1
Unknown	210	T J	ug/Kg	☼	16.30		04/08/19 14:32	04/09/19 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120	04/08/19 14:32	04/09/19 17:55	1
2-Fluorobiphenyl (Surr)	88		60 - 120	04/08/19 14:32	04/09/19 17:55	1
2-Fluorophenol (Surr)	59		52 - 120	04/08/19 14:32	04/09/19 17:55	1
Nitrobenzene-d5 (Surr)	65		53 - 120	04/08/19 14:32	04/09/19 17:55	1
Phenol-d5 (Surr)	63		54 - 120	04/08/19 14:32	04/09/19 17:55	1
p-Terphenyl-d14 (Surr)	100		65 - 121	04/08/19 14:32	04/09/19 17:55	1

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Surrogate Summary

Client: AECOM

Job ID: 480-151436-1

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	BFB	DBFM	TOL
		(64-126)	(72-126)	(60-140)	(71-125)
480-151436-1	PWEXBM04072	104	99	101	99
480-151436-2	PWEXBM07079	106	98	104	100
480-151436-3	PWEXSWNA127	105	95	103	103
480-151436-4	PWEXSWNA128	107	94	104	102
LCS 480-466659/1-A	Lab Control Sample	104	106	102	100
MB 480-466659/2-A	Method Blank	104	97	99	99

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

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	FBP	2FP	NBZ	PHL	TPHd14
		(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(65-121)
480-151436-1	PWEXBM04072	88	83	62	68	65	100
480-151436-1 MS	PWEXBM04072	98	69	48 X	53	51 X	100
480-151436-1 MSD	PWEXBM04072	97	80	52	60	57	99
480-151436-2	PWEXBM07079	83	80	58	64	63	97
480-151436-3	PWEXSWNA127	98	91	60	68	63	94
480-151436-4	PWEXSWNA128	96	88	59	65	63	100
LCS 480-466786/2-A	Lab Control Sample	87	84	70	63	74	99
MB 480-466786/1-A	Method Blank	85	82	64	68	67	100

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: MB 480-466659/2-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
2-Hexanone	ND		25	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Acetone	ND		25	4.2	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Benzene	ND		5.0	0.25	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Bromoform	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chloroform	ND		5.0	0.31	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methyl acetate	ND		25	3.0	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Styrene	ND		5.0	0.25	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Toluene	ND		5.0	0.38	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/08/19 07:58	04/08/19 10:52	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/08/19 07:58	04/08/19 10:52	1

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QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: MB 480-466659/2-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466659

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				04/08/19 07:58	04/08/19 10:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126				04/08/19 07:58	04/08/19 10:52	1
4-Bromofluorobenzene (Surr)	97		72 - 126				04/08/19 07:58	04/08/19 10:52	1
Dibromofluoromethane (Surr)	99		60 - 140				04/08/19 07:58	04/08/19 10:52	1
Toluene-d8 (Surr)	99		71 - 125				04/08/19 07:58	04/08/19 10:52	1

Lab Sample ID: LCS 480-466659/1-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.6		ug/Kg		97	77 - 121
1,1,2,2-Tetrachloroethane	50.0	45.1		ug/Kg		90	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.1		ug/Kg		100	60 - 140
1,1,2-Trichloroethane	50.0	48.0		ug/Kg		96	78 - 122
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	73 - 126
1,1-Dichloroethene	50.0	48.8		ug/Kg		98	59 - 125
1,2,4-Trichlorobenzene	50.0	44.6		ug/Kg		89	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	38.0		ug/Kg		76	63 - 124
1,2-Dibromoethane	50.0	47.3		ug/Kg		95	78 - 120
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	47.7		ug/Kg		95	77 - 122
1,2-Dichloropropane	50.0	49.5		ug/Kg		99	75 - 124
1,3-Dichlorobenzene	50.0	45.6		ug/Kg		91	74 - 120
1,4-Dichlorobenzene	50.0	45.2		ug/Kg		90	73 - 120
2-Butanone (MEK)	250	247		ug/Kg		99	70 - 134
2-Hexanone	250	243		ug/Kg		97	59 - 130
4-Methyl-2-pentanone (MIBK)	250	241		ug/Kg		96	65 - 133
Acetone	250	236		ug/Kg		94	61 - 137
Benzene	50.0	49.5		ug/Kg		99	79 - 127
Bromodichloromethane	50.0	46.6		ug/Kg		93	80 - 122
Bromoform	50.0	49.3		ug/Kg		99	68 - 126
Bromomethane	50.0	53.6		ug/Kg		107	37 - 149
Carbon disulfide	50.0	48.9		ug/Kg		98	64 - 131
Carbon tetrachloride	50.0	49.2		ug/Kg		98	75 - 135
Chlorobenzene	50.0	47.6		ug/Kg		95	76 - 124
Chloroethane	50.0	51.7		ug/Kg		103	69 - 135
Chloroform	50.0	49.2		ug/Kg		98	80 - 120
Chloromethane	50.0	46.2		ug/Kg		92	63 - 127
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	47.8		ug/Kg		96	80 - 120
Cyclohexane	50.0	47.5		ug/Kg		95	65 - 120
Dibromochloromethane	50.0	46.8		ug/Kg		94	76 - 125
Dichlorodifluoromethane	50.0	37.8		ug/Kg		76	57 - 142
Ethylbenzene	50.0	47.9		ug/Kg		96	80 - 120

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QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: LCS 480-466659/1-A

Matrix: Solid

Analysis Batch: 466662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	42.9		ug/Kg		86	72 - 120
Methyl acetate	100	88.7		ug/Kg		89	55 - 136
Methyl tert-butyl ether	50.0	45.1		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	46.3		ug/Kg		93	60 - 140
Methylene Chloride	50.0	43.6		ug/Kg		87	61 - 127
Styrene	50.0	44.9		ug/Kg		90	80 - 120
Tetrachloroethene	50.0	51.5		ug/Kg		103	74 - 122
Toluene	50.0	47.9		ug/Kg		96	74 - 128
trans-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	78 - 126
trans-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	73 - 123
Trichloroethene	50.0	48.6		ug/Kg		97	77 - 129
Trichlorofluoromethane	50.0	54.4		ug/Kg		109	65 - 146
Vinyl chloride	50.0	50.9		ug/Kg		102	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
4-Bromofluorobenzene (Surr)	106		72 - 126
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		71 - 125

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

Lab Sample ID: MB 480-466786/1-A

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2-Chloronaphthalene	ND		170	28	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2-Chlorophenol	ND		170	31	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2-Methylnaphthalene	ND		170	34	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2-Methylphenol	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2-Nitroaniline	ND		330	25	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
2-Nitrophenol	ND		170	48	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
3-Nitroaniline	ND		330	47	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
4-Chloroaniline	ND		170	42	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
4-Methylphenol	ND		330	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
4-Nitroaniline	ND		330	89	ug/Kg		04/08/19 14:32	04/09/19 15:01	1

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QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: MB 480-466786/1-A

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		330	120	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Acenaphthene	ND		170	25	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Acenaphthylene	ND		170	22	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Acetophenone	ND		170	23	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Anthracene	ND		170	42	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Atrazine	ND		170	59	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Benzaldehyde	ND		170	130	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Benzo[a]pyrene	ND		170	25	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Biphenyl	ND		170	25	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Caprolactam	ND		170	51	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Carbazole	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Chrysene	ND		170	38	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Dibenzofuran	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Diethyl phthalate	ND		170	22	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Dimethyl phthalate	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Fluoranthene	ND		170	18	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Fluorene	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Hexachlorobenzene	ND		170	23	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Hexachlorobutadiene	ND		170	25	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Hexachloroethane	ND		170	22	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Isophorone	ND		170	36	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Naphthalene	ND		170	22	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Nitrobenzene	ND		170	19	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Pentachlorophenol	ND		330	170	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Phenanthrene	ND		170	25	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Phenol	ND		170	26	ug/Kg		04/08/19 14:32	04/09/19 15:01	1
Pyrene	ND		170	20	ug/Kg		04/08/19 14:32	04/09/19 15:01	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	401	T J	ug/Kg		1.61		04/08/19 14:32	04/09/19 15:01	1
Unknown	4130	T J	ug/Kg		1.76		04/08/19 14:32	04/09/19 15:01	1
Unknown	2490	T J	ug/Kg		3.04		04/08/19 14:32	04/09/19 15:01	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: MB 480-466786/1-A

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466786

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB 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>
Unknown	170	T J	ug/Kg		4.96		04/08/19 14:32	04/09/19 15:01	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	85		54 - 120	04/08/19 14:32	04/09/19 15:01	1
2-Fluorobiphenyl (Surr)	82		60 - 120	04/08/19 14:32	04/09/19 15:01	1
2-Fluorophenol (Surr)	64		52 - 120	04/08/19 14:32	04/09/19 15:01	1
Nitrobenzene-d5 (Surr)	68		53 - 120	04/08/19 14:32	04/09/19 15:01	1
Phenol-d5 (Surr)	67		54 - 120	04/08/19 14:32	04/09/19 15:01	1
p-Terphenyl-d14 (Surr)	100		65 - 121	04/08/19 14:32	04/09/19 15:01	1

Lab Sample ID: LCS 480-466786/2-A

Matrix: Solid

Analysis Batch: 467202

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466786

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
2,4,5-Trichlorophenol	1620	1330		ug/Kg		82	59 - 126
2,4,6-Trichlorophenol	1620	1290		ug/Kg		80	59 - 123
2,4-Dichlorophenol	1620	1160		ug/Kg		72	61 - 120
2,4-Dimethylphenol	1620	1280		ug/Kg		79	59 - 120
2,4-Dinitrophenol	3230	2080		ug/Kg		64	41 - 146
2,4-Dinitrotoluene	1620	1400		ug/Kg		87	63 - 120
2,6-Dinitrotoluene	1620	1460		ug/Kg		91	66 - 120
2-Chloronaphthalene	1620	1260		ug/Kg		78	57 - 120
2-Chlorophenol	1620	1130		ug/Kg		70	53 - 120
2-Methylnaphthalene	1620	1060		ug/Kg		65	59 - 120
2-Methylphenol	1620	1230		ug/Kg		76	54 - 120
2-Nitroaniline	1620	1510		ug/Kg		94	61 - 120
2-Nitrophenol	1620	1010		ug/Kg		63	56 - 120
3,3'-Dichlorobenzidine	3230	2710		ug/Kg		84	54 - 120
3-Nitroaniline	1620	1170		ug/Kg		72	48 - 120
4,6-Dinitro-2-methylphenol	3230	3430		ug/Kg		106	49 - 122
4-Bromophenyl phenyl ether	1620	1250		ug/Kg		77	58 - 120
4-Chloro-3-methylphenol	1620	1150		ug/Kg		71	61 - 120
4-Chloroaniline	1620	1150		ug/Kg		71	38 - 120
4-Chlorophenyl phenyl ether	1620	1410		ug/Kg		87	63 - 124
4-Methylphenol	1620	1220		ug/Kg		76	55 - 120
4-Nitroaniline	1620	1510		ug/Kg		93	56 - 120
4-Nitrophenol	3230	2970		ug/Kg		92	43 - 147
Acenaphthene	1620	1360		ug/Kg		84	62 - 120
Acenaphthylene	1620	1370		ug/Kg		85	58 - 121
Acetophenone	1620	1190		ug/Kg		74	54 - 120
Anthracene	1620	1500		ug/Kg		93	62 - 120
Atrazine	3230	2520		ug/Kg		78	60 - 127
Benzaldehyde	3230	2430		ug/Kg		75	10 - 150
Benzo[a]anthracene	1620	1510		ug/Kg		94	65 - 120
Benzo[a]pyrene	1620	1490		ug/Kg		92	64 - 120
Benzo[b]fluoranthene	1620	1560		ug/Kg		96	64 - 120
Benzo[g,h,i]perylene	1620	1260		ug/Kg		78	45 - 145

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QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: LCS 480-466786/2-A

Matrix: Solid

Analysis Batch: 467202

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[k]fluoranthene	1620	1350		ug/Kg		84	65 - 120
Biphenyl	1620	1310		ug/Kg		81	59 - 120
bis (2-chloroisopropyl) ether	1620	1170		ug/Kg		72	44 - 120
Bis(2-chloroethoxy)methane	1620	1220		ug/Kg		76	55 - 120
Bis(2-chloroethyl)ether	1620	1140		ug/Kg		71	45 - 120
Bis(2-ethylhexyl) phthalate	1620	1710		ug/Kg		106	61 - 133
Butyl benzyl phthalate	1620	1640		ug/Kg		101	61 - 129
Caprolactam	3230	2840		ug/Kg		88	47 - 120
Carbazole	1620	1530		ug/Kg		94	65 - 120
Chrysene	1620	1560		ug/Kg		97	64 - 120
Dibenz(a,h)anthracene	1620	1220		ug/Kg		76	54 - 132
Dibenzofuran	1620	1420		ug/Kg		88	63 - 120
Diethyl phthalate	1620	1520		ug/Kg		94	66 - 120
Dimethyl phthalate	1620	1490		ug/Kg		92	65 - 124
Di-n-butyl phthalate	1620	1550		ug/Kg		96	58 - 130
Di-n-octyl phthalate	1620	1690		ug/Kg		104	57 - 133
Fluoranthene	1620	1430		ug/Kg		88	62 - 120
Fluorene	1620	1340		ug/Kg		83	63 - 120
Hexachlorobenzene	1620	1440		ug/Kg		89	60 - 120
Hexachlorobutadiene	1620	1070		ug/Kg		66	45 - 120
Hexachlorocyclopentadiene	1620	1180		ug/Kg		73	47 - 120
Hexachloroethane	1620	979		ug/Kg		61	41 - 120
Indeno[1,2,3-cd]pyrene	1620	1190		ug/Kg		74	56 - 134
Isophorone	1620	1170		ug/Kg		72	56 - 120
Naphthalene	1620	1170		ug/Kg		73	55 - 120
Nitrobenzene	1620	1040		ug/Kg		64	54 - 120
N-Nitrosodi-n-propylamine	1620	1230		ug/Kg		76	52 - 120
N-Nitrosodiphenylamine	1620	1510		ug/Kg		93	51 - 128
Pentachlorophenol	3230	3970	*	ug/Kg		123	51 - 120
Phenanthrene	1620	1520		ug/Kg		94	60 - 120
Phenol	1620	1150		ug/Kg		71	53 - 120
Pyrene	1620	1520		ug/Kg		94	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		54 - 120
2-Fluorobiphenyl (Surr)	84		60 - 120
2-Fluorophenol (Surr)	70		52 - 120
Nitrobenzene-d5 (Surr)	63		53 - 120
Phenol-d5 (Surr)	74		54 - 120
p-Terphenyl-d14 (Surr)	99		65 - 121

Lab Sample ID: 480-151436-1 MS

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: PWEXBM04072

Prep Type: Total/NA

Prep Batch: 466786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		1960	1530		ug/Kg	☼	78	46 - 120
2,4,6-Trichlorophenol	ND		1960	1530		ug/Kg	☼	78	41 - 123

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QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: 480-151436-1 MS

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: PWEXBM04072

Prep Type: Total/NA

Prep Batch: 466786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	ND		1960	1350		ug/Kg	☼	69	45 - 120
2,4-Dimethylphenol	ND		1960	1210		ug/Kg	☼	62	52 - 120
2,4-Dinitrophenol	ND		3910	2970		ug/Kg	☼	76	41 - 146
2,4-Dinitrotoluene	ND		1960	1530		ug/Kg	☼	78	63 - 125
2,6-Dinitrotoluene	ND		1960	1480		ug/Kg	☼	76	66 - 120
2-Chloronaphthalene	ND		1960	1350		ug/Kg	☼	69	57 - 120
2-Chlorophenol	ND		1960	1030		ug/Kg	☼	53	43 - 120
2-Methylnaphthalene	ND		1960	1270		ug/Kg	☼	65	55 - 120
2-Methylphenol	ND		1960	1100		ug/Kg	☼	56	48 - 120
2-Nitroaniline	ND		1960	1270		ug/Kg	☼	65	61 - 120
2-Nitrophenol	ND	F2	1960	1210		ug/Kg	☼	62	37 - 120
3,3'-Dichlorobenzidine	ND		3910	3380		ug/Kg	☼	86	37 - 126
3-Nitroaniline	ND		1960	1290		ug/Kg	☼	66	48 - 120
4,6-Dinitro-2-methylphenol	ND		3910	3860		ug/Kg	☼	99	23 - 149
4-Bromophenyl phenyl ether	ND		1960	1710		ug/Kg	☼	87	58 - 120
4-Chloro-3-methylphenol	ND		1960	1290		ug/Kg	☼	66	49 - 125
4-Chloroaniline	ND		1960	1150		ug/Kg	☼	59	38 - 120
4-Chlorophenyl phenyl ether	ND		1960	1620		ug/Kg	☼	83	63 - 124
4-Methylphenol	ND		1960	1080		ug/Kg	☼	55	50 - 120
4-Nitroaniline	ND		1960	1420		ug/Kg	☼	73	47 - 120
4-Nitrophenol	ND		3910	3180		ug/Kg	☼	81	31 - 147
Acenaphthene	ND		1960	1400		ug/Kg	☼	72	60 - 120
Acenaphthylene	ND		1960	1320		ug/Kg	☼	68	58 - 121
Acetophenone	ND		1960	1020		ug/Kg	☼	52	47 - 120
Anthracene	ND		1960	1590		ug/Kg	☼	81	62 - 120
Atrazine	ND		3910	3340		ug/Kg	☼	85	60 - 150
Benzaldehyde	ND		3910	1920		ug/Kg	☼	49	10 - 150
Benzo[a]anthracene	35	J	1960	1550		ug/Kg	☼	77	65 - 120
Benzo[a]pyrene	33	J	1960	1620		ug/Kg	☼	81	64 - 120
Benzo[b]fluoranthene	ND		1960	1630		ug/Kg	☼	83	64 - 120
Benzo[g,h,i]perylene	ND		1960	1960		ug/Kg	☼	100	45 - 145
Benzo[k]fluoranthene	ND		1960	1670		ug/Kg	☼	85	65 - 120
Biphenyl	ND		1960	1340		ug/Kg	☼	69	58 - 120
bis (2-chloroisopropyl) ether	ND		1960	908		ug/Kg	☼	46	31 - 120
Bis(2-chloroethoxy)methane	ND		1960	1040		ug/Kg	☼	53	52 - 120
Bis(2-chloroethyl)ether	ND	F1	1960	844	F1	ug/Kg	☼	43	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1960	1620		ug/Kg	☼	83	61 - 133
Butyl benzyl phthalate	ND		1960	1610		ug/Kg	☼	82	61 - 120
Caprolactam	ND		3910	2510		ug/Kg	☼	64	37 - 133
Carbazole	ND		1960	1540		ug/Kg	☼	79	59 - 120
Chrysene	ND		1960	1660		ug/Kg	☼	85	64 - 120
Dibenz(a,h)anthracene	ND		1960	1910		ug/Kg	☼	98	54 - 132
Dibenzofuran	ND		1960	1400		ug/Kg	☼	71	62 - 120
Diethyl phthalate	ND		1960	1480		ug/Kg	☼	75	66 - 120
Dimethyl phthalate	ND		1960	1430		ug/Kg	☼	73	65 - 124
Di-n-butyl phthalate	ND		1960	1310		ug/Kg	☼	67	58 - 130
Di-n-octyl phthalate	ND		1960	1450		ug/Kg	☼	74	57 - 133
Fluoranthene	78	J	1960	1450		ug/Kg	☼	70	62 - 120
Fluorene	ND		1960	1460		ug/Kg	☼	75	63 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: 480-151436-1 MS

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: PWEXBM04072

Prep Type: Total/NA

Prep Batch: 466786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	ND		1960	1830		ug/Kg	☼	93	60 - 120
Hexachlorobutadiene	ND		1960	1300		ug/Kg	☼	67	45 - 120
Hexachlorocyclopentadiene	ND		1960	1310		ug/Kg	☼	67	31 - 120
Hexachloroethane	ND		1960	840		ug/Kg	☼	43	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1960	2010		ug/Kg	☼	103	56 - 134
Isophorone	ND	F1	1960	1030	F1	ug/Kg	☼	53	56 - 120
Naphthalene	54	J	1960	1090		ug/Kg	☼	53	46 - 120
Nitrobenzene	ND		1960	1020		ug/Kg	☼	52	49 - 120
N-Nitrosodi-n-propylamine	ND		1960	934		ug/Kg	☼	48	46 - 120
N-Nitrosodiphenylamine	ND		1960	1710		ug/Kg	☼	87	20 - 128
Pentachlorophenol	ND	*	3910	3300		ug/Kg	☼	84	25 - 136
Phenanthrene	49	J	1960	1570		ug/Kg	☼	78	60 - 122
Phenol	ND	F1	1960	918	F1	ug/Kg	☼	47	50 - 120
Pyrene	47	J	1960	1900		ug/Kg	☼	95	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		54 - 120
2-Fluorobiphenyl (Surr)	69		60 - 120
2-Fluorophenol (Surr)	48	X	52 - 120
Nitrobenzene-d5 (Surr)	53		53 - 120
Phenol-d5 (Surr)	51	X	54 - 120
p-Terphenyl-d14 (Surr)	100		65 - 121

Lab Sample ID: 480-151436-1 MSD

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: PWEXBM04072

Prep Type: Total/NA

Prep Batch: 466786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		1980	1640		ug/Kg	☼	83	46 - 120	7	18
2,4,6-Trichlorophenol	ND		1980	1730		ug/Kg	☼	87	41 - 123	12	19
2,4-Dichlorophenol	ND		1980	1540		ug/Kg	☼	78	45 - 120	13	19
2,4-Dimethylphenol	ND		1980	1360		ug/Kg	☼	69	52 - 120	12	42
2,4-Dinitrophenol	ND		3960	2760		ug/Kg	☼	70	41 - 146	7	22
2,4-Dinitrotoluene	ND		1980	1570		ug/Kg	☼	79	63 - 125	3	20
2,6-Dinitrotoluene	ND		1980	1540		ug/Kg	☼	78	66 - 120	4	15
2-Chloronaphthalene	ND		1980	1600		ug/Kg	☼	81	57 - 120	17	21
2-Chlorophenol	ND		1980	1150		ug/Kg	☼	58	43 - 120	11	25
2-Methylnaphthalene	ND		1980	1490		ug/Kg	☼	75	55 - 120	16	21
2-Methylphenol	ND		1980	1170		ug/Kg	☼	59	48 - 120	6	27
2-Nitroaniline	ND		1980	1410		ug/Kg	☼	71	61 - 120	10	15
2-Nitrophenol	ND	F2	1980	1480	F2	ug/Kg	☼	75	37 - 120	20	18
3,3'-Dichlorobenzidine	ND		3960	3400		ug/Kg	☼	86	37 - 126	1	25
3-Nitroaniline	ND		1980	1220		ug/Kg	☼	62	48 - 120	5	19
4,6-Dinitro-2-methylphenol	ND		3960	3860		ug/Kg	☼	97	23 - 149	0	15
4-Bromophenyl phenyl ether	ND		1980	1830		ug/Kg	☼	93	58 - 120	7	15
4-Chloro-3-methylphenol	ND		1980	1320		ug/Kg	☼	67	49 - 125	2	27
4-Chloroaniline	ND		1980	1230		ug/Kg	☼	62	38 - 120	7	22
4-Chlorophenyl phenyl ether	ND		1980	1730		ug/Kg	☼	87	63 - 124	6	16

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151436-1

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

Lab Sample ID: 480-151436-1 MSD

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: PWEXBM04072

Prep Type: Total/NA

Prep Batch: 466786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methylphenol	ND		1980	1200		ug/Kg	☼	61	50 - 120	11	24
4-Nitroaniline	ND		1980	1300		ug/Kg	☼	66	47 - 120	9	24
4-Nitrophenol	ND		3960	2960		ug/Kg	☼	75	31 - 147	7	25
Acenaphthene	ND		1980	1560		ug/Kg	☼	79	60 - 120	11	35
Acenaphthylene	ND		1980	1440		ug/Kg	☼	73	58 - 121	8	18
Acetophenone	ND		1980	1130		ug/Kg	☼	57	47 - 120	10	20
Anthracene	ND		1980	1590		ug/Kg	☼	80	62 - 120	0	15
Atrazine	ND		3960	3110		ug/Kg	☼	78	60 - 150	7	20
Benzaldehyde	ND		3960	2140		ug/Kg	☼	54	10 - 150	11	20
Benzo[a]anthracene	35	J	1980	1570		ug/Kg	☼	77	65 - 120	1	15
Benzo[a]pyrene	33	J	1980	1650		ug/Kg	☼	82	64 - 120	2	15
Benzo[b]fluoranthene	ND		1980	1690		ug/Kg	☼	86	64 - 120	4	15
Benzo[g,h,i]perylene	ND		1980	1940		ug/Kg	☼	98	45 - 145	1	15
Benzo[k]fluoranthene	ND		1980	1610		ug/Kg	☼	81	65 - 120	4	22
Biphenyl	ND		1980	1550		ug/Kg	☼	78	58 - 120	15	20
bis (2-chloroisopropyl) ether	ND		1980	1060		ug/Kg	☼	54	31 - 120	16	24
Bis(2-chloroethoxy)methane	ND		1980	1190		ug/Kg	☼	60	52 - 120	14	17
Bis(2-chloroethyl)ether	ND	F1	1980	964		ug/Kg	☼	49	45 - 120	13	21
Bis(2-ethylhexyl) phthalate	ND		1980	1610		ug/Kg	☼	82	61 - 133	1	15
Butyl benzyl phthalate	ND		1980	1610		ug/Kg	☼	81	61 - 120	0	16
Caprolactam	ND		3960	2400		ug/Kg	☼	61	37 - 133	4	20
Carbazole	ND		1980	1470		ug/Kg	☼	75	59 - 120	5	20
Chrysene	ND		1980	1660		ug/Kg	☼	84	64 - 120	0	15
Dibenz(a,h)anthracene	ND		1980	1900		ug/Kg	☼	96	54 - 132	1	15
Dibenzofuran	ND		1980	1570		ug/Kg	☼	79	62 - 120	12	15
Diethyl phthalate	ND		1980	1470		ug/Kg	☼	74	66 - 120	0	15
Dimethyl phthalate	ND		1980	1490		ug/Kg	☼	75	65 - 124	4	15
Di-n-butyl phthalate	ND		1980	1240		ug/Kg	☼	63	58 - 130	5	15
Di-n-octyl phthalate	ND		1980	1450		ug/Kg	☼	73	57 - 133	0	16
Fluoranthene	78	J	1980	1380		ug/Kg	☼	66	62 - 120	5	15
Fluorene	ND		1980	1560		ug/Kg	☼	79	63 - 120	7	15
Hexachlorobenzene	ND		1980	1870		ug/Kg	☼	95	60 - 120	2	15
Hexachlorobutadiene	ND		1980	1530		ug/Kg	☼	77	45 - 120	16	44
Hexachlorocyclopentadiene	ND		1980	1670		ug/Kg	☼	84	31 - 120	24	49
Hexachloroethane	ND		1980	962		ug/Kg	☼	49	21 - 120	14	46
Indeno[1,2,3-cd]pyrene	ND		1980	1970		ug/Kg	☼	100	56 - 134	2	15
Isophorone	ND	F1	1980	1200		ug/Kg	☼	61	56 - 120	16	17
Naphthalene	54	J	1980	1290		ug/Kg	☼	62	46 - 120	16	29
Nitrobenzene	ND		1980	1180		ug/Kg	☼	59	49 - 120	15	24
N-Nitrosodi-n-propylamine	ND		1980	1050		ug/Kg	☼	53	46 - 120	12	31
N-Nitrosodiphenylamine	ND		1980	1770		ug/Kg	☼	90	20 - 128	4	15
Pentachlorophenol	ND	*	3960	3270		ug/Kg	☼	83	25 - 136	1	35
Phenanthrene	49	J	1980	1630		ug/Kg	☼	80	60 - 122	4	15
Phenol	ND	F1	1980	988		ug/Kg	☼	50	50 - 120	7	35
Pyrene	47	J	1980	1850		ug/Kg	☼	91	61 - 133	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		54 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-151436-1

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

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

Lab Sample ID: 480-151436-1 MSD

Matrix: Solid

Analysis Batch: 466980

Client Sample ID: PWEXBM04072

Prep Type: Total/NA

Prep Batch: 466786

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	80		60 - 120
2-Fluorophenol (Surr)	52		52 - 120
Nitrobenzene-d5 (Surr)	60		53 - 120
Phenol-d5 (Surr)	57		54 - 120
p-Terphenyl-d14 (Surr)	99		65 - 121

QC Association Summary

Client: AECOM

Job ID: 480-151436-1

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

GC/MS VOA

Prep Batch: 466659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151436-1	PWEXBM04072	Total/NA	Solid	5035A_L	
480-151436-2	PWEXBM07079	Total/NA	Solid	5035A_L	
480-151436-3	PWEXSWNA127	Total/NA	Solid	5035A_L	
480-151436-4	PWEXSWNA128	Total/NA	Solid	5035A_L	
MB 480-466659/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-466659/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 466662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151436-1	PWEXBM04072	Total/NA	Solid	8260C	466659
480-151436-2	PWEXBM07079	Total/NA	Solid	8260C	466659
480-151436-3	PWEXSWNA127	Total/NA	Solid	8260C	466659
480-151436-4	PWEXSWNA128	Total/NA	Solid	8260C	466659
MB 480-466659/2-A	Method Blank	Total/NA	Solid	8260C	466659
LCS 480-466659/1-A	Lab Control Sample	Total/NA	Solid	8260C	466659

GC/MS Semi VOA

Prep Batch: 466786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151436-1	PWEXBM04072	Total/NA	Solid	3550C	
480-151436-2	PWEXBM07079	Total/NA	Solid	3550C	
480-151436-3	PWEXSWNA127	Total/NA	Solid	3550C	
480-151436-4	PWEXSWNA128	Total/NA	Solid	3550C	
MB 480-466786/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-466786/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-151436-1 MS	PWEXBM04072	Total/NA	Solid	3550C	
480-151436-1 MSD	PWEXBM04072	Total/NA	Solid	3550C	

Analysis Batch: 466980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151436-1	PWEXBM04072	Total/NA	Solid	8270D	466786
480-151436-2	PWEXBM07079	Total/NA	Solid	8270D	466786
480-151436-3	PWEXSWNA127	Total/NA	Solid	8270D	466786
480-151436-4	PWEXSWNA128	Total/NA	Solid	8270D	466786
MB 480-466786/1-A	Method Blank	Total/NA	Solid	8270D	466786
480-151436-1 MS	PWEXBM04072	Total/NA	Solid	8270D	466786
480-151436-1 MSD	PWEXBM04072	Total/NA	Solid	8270D	466786

Analysis Batch: 467202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-466786/2-A	Lab Control Sample	Total/NA	Solid	8270D	466786

General Chemistry

Analysis Batch: 466744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151436-1	PWEXBM04072	Total/NA	Solid	Moisture	
480-151436-2	PWEXBM07079	Total/NA	Solid	Moisture	
480-151436-3	PWEXSWNA127	Total/NA	Solid	Moisture	
480-151436-4	PWEXSWNA128	Total/NA	Solid	Moisture	

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Lab Chronicle

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

Job ID: 480-151436-1

Client Sample ID: PWEXBM04072

Lab Sample ID: 480-151436-1

Date Collected: 04/05/19 08:21

Matrix: Solid

Date Received: 04/05/19 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466744	04/08/19 11:36	CDC	TAL BUF

Client Sample ID: PWEXBM04072

Lab Sample ID: 480-151436-1

Date Collected: 04/05/19 08:21

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466659	04/08/19 07:58	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466662	04/08/19 12:45	CDC	TAL BUF
Total/NA	Prep	3550C			466786	04/08/19 14:32	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466980	04/09/19 16:40	RJS	TAL BUF

Client Sample ID: PWEXBM07079

Lab Sample ID: 480-151436-2

Date Collected: 04/05/19 09:30

Matrix: Solid

Date Received: 04/05/19 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466744	04/08/19 11:36	CDC	TAL BUF

Client Sample ID: PWEXBM07079

Lab Sample ID: 480-151436-2

Date Collected: 04/05/19 09:30

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466659	04/08/19 07:58	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466662	04/08/19 13:11	CDC	TAL BUF
Total/NA	Prep	3550C			466786	04/08/19 14:32	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466980	04/09/19 17:05	RJS	TAL BUF

Client Sample ID: PWEXSWNA127

Lab Sample ID: 480-151436-3

Date Collected: 04/04/19 11:03

Matrix: Solid

Date Received: 04/05/19 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466744	04/08/19 11:36	CDC	TAL BUF

Client Sample ID: PWEXSWNA127

Lab Sample ID: 480-151436-3

Date Collected: 04/04/19 11:03

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466659	04/08/19 07:58	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466662	04/08/19 13:37	CDC	TAL BUF
Total/NA	Prep	3550C			466786	04/08/19 14:32	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466980	04/09/19 17:30	RJS	TAL BUF

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Lab Chronicle

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

Job ID: 480-151436-1

Client Sample ID: PWEXSWNA128

Lab Sample ID: 480-151436-4

Date Collected: 04/04/19 11:19

Matrix: Solid

Date Received: 04/05/19 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	466744	04/08/19 11:36	CDC	TAL BUF

Client Sample ID: PWEXSWNA128

Lab Sample ID: 480-151436-4

Date Collected: 04/04/19 11:19

Matrix: Solid

Date Received: 04/05/19 16:55

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			466659	04/08/19 07:58	CDC	TAL BUF
Total/NA	Analysis	8260C		1	466662	04/08/19 14:03	CDC	TAL BUF
Total/NA	Prep	3550C			466786	04/08/19 14:32	SGD	TAL BUF
Total/NA	Analysis	8270D		1	466980	04/09/19 17:55	RJS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM

Job ID: 480-151436-1

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

Laboratory: Eurofins TestAmerica, Buffalo

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	10026	03-31-20

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

Method Summary

Client: AECOM

Job ID: 480-151436-1

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

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM

Job ID: 480-151436-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-151436-1	PWEXBM04072	Solid	04/05/19 08:21	04/05/19 16:55
480-151436-2	PWEXBM07079	Solid	04/05/19 09:30	04/05/19 16:55
480-151436-3	PWEXSWNA127	Solid	04/04/19 11:03	04/05/19 16:55
480-151436-4	PWEXSWNA128	Solid	04/04/19 11:19	04/05/19 16:55

TestAmerica Buffalo
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Client Information		Sampler: George Hermance		Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-128476-28976.1
Client Contact: George Hermance		Phone: 716-861-7882		E-Mail: melissa.deyo@testamericainc.com	Page: Page 1 of 2	
Company: AECOM		Job #:				
Address: 257 West Genesee Street Suite 400		Due Date Requested: 4/9/2019				
City: Buffalo		TAT Requested (days): 72 Hour (3 day)				
State, Zip: NY, 14202-2657		PO #: 107852				
Phone: 518-428-4383 (Tel)		WO #: Matthew.Thorpe@aecom.com				
Email: George.Hermance@aecom.com		Project #: 48015558				
Project Name: 60584654, Penn Yan Former MGP Phase 2		SSOW#:				
Site:		Field Filtered Sample (Yes or No)				
		Perform MS/MSD (Yes or No)				
		8270D - TCL SVOCs + 20 TICs				
		8260C - TCL VOCs + TICs				
		Other:				
		Total Number of co				
		Special Instructions/Note:				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
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		480-151436 Chain of Custody				
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		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
		O2				
		IS				
		O3				
		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)				
		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
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		M - Hexane				
		B - NaOH				
		N - None				
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		Preservation Codes:				
		A - HCL				
		M - Hexane				
		B - NaOH				
		N - None				
		C - 7% A...				
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		M - Hexane				
		B - NaOH				
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		idecahydrate				
		.pecify)				
		480-151436 Chain of Custody				
		idecahydrate				
		.pecify)</				

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-151436-1

Login Number: 151436

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	AECOM
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, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-151556-1

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:

4/16/2019 3:36:06 PM

Rebecca Jones, Project Management Assistant I
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Designee for

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

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results through

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www.testamericainc.com

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: 480-151556-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated 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.
X	Surrogate is outside control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
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.
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: 480-151556-1

Job ID: 480-151556-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-151556-1

Receipt

The samples were received on 4/9/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-467119 recovered above the upper control limit for Trichlorofluoromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PWEXSWNA115 (480-151556-1), PWEXSWNA116 (480-151556-2), PWEXSWNA117 (480-151556-3), PWEXSWNA118 (480-151556-4), PWEXSWNA119 (480-151556-5), PWEXSWNA120 (480-151556-6), PWEXSWNA123 (480-151556-7), PWEXSWNA124 (480-151556-8) and PWEXSWNA125 (480-151556-9).

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) associated with batch 480-467474 recovered above the upper control limit for Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PWEXSWNA115 (480-151556-1), PWEXSWNA116 (480-151556-2) and PWEXSWNA117 (480-151556-3).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 480-467258 recovered outside control limits for the following analytes: Pentachlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: PWEXSWNA115 (480-151556-1), PWEXSWNA116 (480-151556-2), PWEXSWNA117 (480-151556-3), PWEXSWNA118 (480-151556-4), PWEXSWNA119 (480-151556-5), PWEXSWNA120 (480-151556-6), PWEXSWNA123 (480-151556-7), PWEXSWNA124 (480-151556-8) and PWEXSWNA125 (480-151556-9).

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: PWEXSWNA120 (480-151556-6). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: PWEXSWNA120 (480-151556-6). These results have been reported and qualified.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: PWEXSWNA120 (480-151556-6). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: PWEXSWNA120 (480-151556-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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.

Detection Summary

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA115

Lab Sample ID: 480-151556-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	67	vs	32	5.3	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXSWNA116

Lab Sample ID: 480-151556-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22	J vs	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.8	J vs	5.6	2.6	ug/Kg	1	☼	8260C	Total/NA
Fluoranthene	24	J	190	20	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: PWEXSWNA117

Lab Sample ID: 480-151556-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35	vs	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.61	J vs	5.6	0.28	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	2.4	J vs	5.6	0.39	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	4.1	J vs	11	0.95	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	120	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	63	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Anthracene	120	J	190	48	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	67	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Biphenyl	35	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Carbazole	230		190	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene	61	J	190	43	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	190		190	23	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	190		190	20	ug/Kg	1	☼	8270D	Total/NA
Fluorene	200		190	23	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	61	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	420		190	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	160	J	190	23	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: PWEXSWNA118

Lab Sample ID: 480-151556-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J vs	28	4.7	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXSWNA119

Lab Sample ID: 480-151556-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.5	J vs	27	4.6	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J vs	29	4.9	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J vs	5.8	0.29	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.61	J vs	5.8	0.44	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	4100		2000	300	ug/Kg	10	☼	8270D	Total/NA
Acenaphthylene	11000		2000	260	ug/Kg	10	☼	8270D	Total/NA
Anthracene	49000		2000	500	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene	46000		2000	200	ug/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene	31000		2000	300	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	32000		2000	320	ug/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene	15000		2000	210	ug/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA120 (Continued)

Lab Sample ID: 480-151556-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	15000		2000	260	ug/Kg	10	✱	8270D	Total/NA
Biphenyl	3500		2000	300	ug/Kg	10	✱	8270D	Total/NA
Carbazole	4800		2000	240	ug/Kg	10	✱	8270D	Total/NA
Chrysene	37000		2000	450	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	24000		2000	240	ug/Kg	10	✱	8270D	Total/NA
Fluorene	30000		2000	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	15000		2000	250	ug/Kg	10	✱	8270D	Total/NA
Naphthalene	1500	J	2000	260	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene - DL	120000		10000	1100	ug/Kg	50	✱	8270D	Total/NA
Phenanthrene - DL	160000		10000	1500	ug/Kg	50	✱	8270D	Total/NA
Pyrene - DL	77000		10000	1200	ug/Kg	50	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA123

Lab Sample ID: 480-151556-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J vs	28	4.7	ug/Kg	1	✱	8260C	Total/NA
Acenaphthylene	25	J	190	24	ug/Kg	1	✱	8270D	Total/NA
Anthracene	140	J	190	46	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	660		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	510		190	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	540		190	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	260		190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	340		190	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	630		190	42	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1000		190	20	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	240		190	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	220		190	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	880		190	22	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA124

Lab Sample ID: 480-151556-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.8	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]pyrene	69	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	45	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Chrysene	54	J	200	44	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	100	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	38	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	120	J	200	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA125

Lab Sample ID: 480-151556-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25	J vs	31	5.2	ug/Kg	1	✱	8260C	Total/NA
Acenaphthylene	60	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Anthracene	240		210	52	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	740		210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	690		210	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	860		210	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	470		210	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	330		210	27	ug/Kg	1	✱	8270D	Total/NA
Carbazole	57	J	210	25	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA125 (Continued)

Lab Sample ID: 480-151556-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	720		210	47	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	31	J	210	25	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1500		210	22	ug/Kg	1	✱	8270D	Total/NA
Fluorene	47	J	210	25	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	440		210	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	990		210	31	ug/Kg	1	✱	8270D	Total/NA
Pyrene	1300		210	25	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA115

Lab Sample ID: 480-151556-1

Date Collected: 04/08/19 08:50

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.3	0.46	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,1,2,2-Tetrachloroethane	ND	vs	6.3	1.0	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,1,2-Trichloroethane	ND	vs	6.3	0.82	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,1-Dichloroethane	ND	vs	6.3	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,1-Dichloroethene	ND	vs	6.3	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,2,4-Trichlorobenzene	ND	vs	6.3	0.38	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.3	3.2	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,2-Dibromoethane	ND	vs	6.3	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,2-Dichlorobenzene	ND	vs	6.3	0.49	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,2-Dichloroethane	ND	vs	6.3	0.32	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,2-Dichloropropane	ND	vs	6.3	3.2	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,3-Dichlorobenzene	ND	vs	6.3	0.32	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
1,4-Dichlorobenzene	ND	vs	6.3	0.88	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
2-Butanone (MEK)	ND	vs	32	2.3	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Acetone	67	vs	32	5.3	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Benzene	ND	vs	6.3	0.31	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Bromodichloromethane	ND	vs	6.3	0.85	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Bromoform	ND	vs	6.3	3.2	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Bromomethane	ND	vs	6.3	0.57	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Carbon disulfide	ND	vs	6.3	3.2	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Carbon tetrachloride	ND	vs	6.3	0.61	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Chlorobenzene	ND	vs	6.3	0.83	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Chloroethane	ND	vs	6.3	1.4	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Chloroform	ND	vs	6.3	0.39	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Chloromethane	ND	vs	6.3	0.38	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
cis-1,2-Dichloroethene	ND	vs	6.3	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
cis-1,3-Dichloropropene	ND	vs	6.3	0.91	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Cyclohexane	ND	vs	6.3	0.88	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Dibromochloromethane	ND	vs	6.3	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Dichlorodifluoromethane	ND	vs	6.3	0.52	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Ethylbenzene	ND	vs	6.3	0.44	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Isopropylbenzene	ND	vs	6.3	0.95	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Methyl acetate	ND	vs	32	3.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Methyl tert-butyl ether	ND	vs	6.3	0.62	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Methylcyclohexane	ND	vs	6.3	0.96	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Methylene Chloride	ND	vs	6.3	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Styrene	ND	vs	6.3	0.32	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Tetrachloroethene	ND	vs	6.3	0.85	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Toluene	ND	vs	6.3	0.48	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
trans-1,2-Dichloroethene	ND	vs	6.3	0.65	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
trans-1,3-Dichloropropene	ND	vs	6.3	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Trichloroethene	ND	vs	6.3	1.4	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Trichlorofluoromethane	ND	vs	6.3	0.60	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Vinyl chloride	ND	vs	6.3	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	04/10/19 07:50	04/10/19 13:14	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA115

Lab Sample ID: 480-151556-1

Date Collected: 04/08/19 08:50

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 78.4

<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>04/10/19 07:50</i>	<i>04/10/19 13:14</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126				04/10/19 07:50	04/10/19 13:14	1
4-Bromofluorobenzene (Surr)	93		72 - 126				04/10/19 07:50	04/10/19 13:14	1
Dibromofluoromethane (Surr)	107		60 - 140				04/10/19 07:50	04/10/19 13:14	1
Toluene-d8 (Surr)	101		71 - 125				04/10/19 07:50	04/10/19 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		210	58	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2,4,6-Trichlorophenol	ND		210	43	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2,4-Dichlorophenol	ND		210	23	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2,4-Dinitrophenol	ND		2100	980	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2-Chlorophenol	ND		210	39	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2-Methylnaphthalene	ND		210	43	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2-Methylphenol	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
2-Nitrophenol	ND		210	60	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
3-Nitroaniline	ND		410	59	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4-Chloro-3-methylphenol	ND		210	53	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4-Chloroaniline	ND		210	53	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4-Methylphenol	ND		410	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Acenaphthene	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Acenaphthylene	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Acetophenone	ND		210	29	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Anthracene	ND		210	53	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Atrazine	ND		210	74	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Benzaldehyde	ND		210	170	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Benzo[a]anthracene	ND		210	21	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Benzo[a]pyrene	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Benzo[g,h,i]perylene	ND		210	23	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Benzo[k]fluoranthene	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Biphenyl	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Bis(2-chloroethyl)ether	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Bis(2-ethylhexyl) phthalate	ND		210	73	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA115

Lab Sample ID: 480-151556-1

Date Collected: 04/08/19 08:50

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		210	64	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Carbazole	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Chrysene	ND		210	48	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Dibenz(a,h)anthracene	ND		210	38	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Dibenzofuran	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Diethyl phthalate	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Fluoranthene	ND		210	23	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Fluorene	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Hexachloroethane	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Isophorone	ND		210	45	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Naphthalene	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Nitrobenzene	ND		210	24	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Pentachlorophenol	ND *		410	210	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Phenanthrene	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Phenol	ND		210	33	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1
Pyrene	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/11/19 22:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1100	T J	ug/Kg	☼	2.28		04/10/19 15:26	04/11/19 22:34	1
Unknown	2900	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/11/19 22:34	1
Unknown	210	T J	ug/Kg	☼	8.55		04/10/19 15:26	04/11/19 22:34	1
Unknown	170	T J	ug/Kg	☼	11.53		04/10/19 15:26	04/11/19 22:34	1
Unknown	1400	T J	ug/Kg	☼	13.60		04/10/19 15:26	04/11/19 22:34	1
Unknown	390	T J	ug/Kg	☼	13.98		04/10/19 15:26	04/11/19 22:34	1
Cyclopentadecane	260	T J N	ug/Kg	☼	14.02	295-48-7	04/10/19 15:26	04/11/19 22:34	1
Unknown	240	T J	ug/Kg	☼	14.36		04/10/19 15:26	04/11/19 22:34	1
Cyclotetradecane	360	T J N	ug/Kg	☼	14.61	295-17-0	04/10/19 15:26	04/11/19 22:34	1
Unknown	280	T J	ug/Kg	☼	16.40		04/10/19 15:26	04/11/19 22:34	1
Unknown	820	T J	ug/Kg	☼	17.86		04/10/19 15:26	04/11/19 22:34	1
Unknown	440	T J	ug/Kg	☼	17.96		04/10/19 15:26	04/11/19 22:34	1
Unknown	370	T J	ug/Kg	☼	18.61		04/10/19 15:26	04/11/19 22:34	1
Unknown	250	T J	ug/Kg	☼	19.04		04/10/19 15:26	04/11/19 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		54 - 120	04/10/19 15:26	04/11/19 22:34	1
2-Fluorobiphenyl (Surr)	97		60 - 120	04/10/19 15:26	04/11/19 22:34	1
2-Fluorophenol (Surr)	80		52 - 120	04/10/19 15:26	04/11/19 22:34	1
Nitrobenzene-d5 (Surr)	87		53 - 120	04/10/19 15:26	04/11/19 22:34	1
Phenol-d5 (Surr)	80		54 - 120	04/10/19 15:26	04/11/19 22:34	1
p-Terphenyl-d14 (Surr)	99		65 - 121	04/10/19 15:26	04/11/19 22:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA116

Lab Sample ID: 480-151556-2

Date Collected: 04/08/19 08:56

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.40	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6	0.90	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,1,2-Trichloroethane	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,1-Dichloroethane	ND	vs	5.6	0.68	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,1-Dichloroethene	ND	vs	5.6	0.68	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,2,4-Trichlorobenzene	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,2-Dibromoethane	ND	vs	5.6	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,2-Dichlorobenzene	ND	vs	5.6	0.43	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,3-Dichlorobenzene	ND	vs	5.6	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
1,4-Dichlorobenzene	ND	vs	5.6	0.78	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
2-Butanone (MEK)	ND	vs	28	2.0	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Acetone	22	J vs	28	4.7	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Benzene	ND	vs	5.6	0.27	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Bromodichloromethane	ND	vs	5.6	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Bromomethane	ND	vs	5.6	0.50	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Carbon disulfide	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Carbon tetrachloride	ND	vs	5.6	0.54	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Chlorobenzene	ND	vs	5.6	0.73	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Chloroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Chloroform	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.80	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Cyclohexane	ND	vs	5.6	0.78	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Dibromochloromethane	ND	vs	5.6	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Dichlorodifluoromethane	ND	vs	5.6	0.46	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Ethylbenzene	ND	vs	5.6	0.38	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Isopropylbenzene	ND	vs	5.6	0.84	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Methylcyclohexane	ND	vs	5.6	0.84	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Methylene Chloride	2.8	J vs	5.6	2.6	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Tetrachloroethene	ND	vs	5.6	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Toluene	ND	vs	5.6	0.42	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.57	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
trans-1,3-Dichloropropene	ND	vs	5.6	2.4	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Trichloroethene	ND	vs	5.6	1.2	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Vinyl chloride	ND	vs	5.6	0.68	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1
Xylenes, Total	ND	vs	11	0.93	ug/Kg	☼	04/10/19 07:50	04/10/19 13:40	1

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Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA116

Lab Sample ID: 480-151556-2

Date Collected: 04/08/19 08:56

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.5

<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>04/10/19 07:50</i>	<i>04/10/19 13:40</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126				04/10/19 07:50	04/10/19 13:40	1
4-Bromofluorobenzene (Surr)	97		72 - 126				04/10/19 07:50	04/10/19 13:40	1
Dibromofluoromethane (Surr)	104		60 - 140				04/10/19 07:50	04/10/19 13:40	1
Toluene-d8 (Surr)	99		71 - 125				04/10/19 07:50	04/10/19 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2,4-Dinitrophenol	ND		1800	870	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2-Chlorophenol	ND		190	34	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4-Methylphenol	ND		370	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4-Nitroaniline	ND		370	98	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Acenaphthene	ND		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Acenaphthylene	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Acetophenone	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Anthracene	ND		190	46	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Atrazine	ND		190	65	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Biphenyl	ND		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1

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Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA116

Lab Sample ID: 480-151556-2

Date Collected: 04/08/19 08:56

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		190	56	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Carbazole	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Chrysene	ND		190	42	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Fluoranthene	24	J	190	20	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Fluorene	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Hexachloroethane	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Isophorone	ND		190	40	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Naphthalene	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Pentachlorophenol	ND *		370	190	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Phenanthrene	ND		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Phenol	ND		190	29	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1
Pyrene	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	930	T J	ug/Kg	☼	2.28		04/10/19 15:26	04/11/19 23:02	1
Unknown	2300	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/11/19 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120	04/10/19 15:26	04/11/19 23:02	1
2-Fluorobiphenyl (Surr)	86		60 - 120	04/10/19 15:26	04/11/19 23:02	1
2-Fluorophenol (Surr)	79		52 - 120	04/10/19 15:26	04/11/19 23:02	1
Nitrobenzene-d5 (Surr)	81		53 - 120	04/10/19 15:26	04/11/19 23:02	1
Phenol-d5 (Surr)	79		54 - 120	04/10/19 15:26	04/11/19 23:02	1
p-Terphenyl-d14 (Surr)	101		65 - 121	04/10/19 15:26	04/11/19 23:02	1

Client Sample ID: PWEXSWNA117

Lab Sample ID: 480-151556-3

Date Collected: 04/08/19 09:27

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.41	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6	0.91	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,1,2-Trichloroethane	ND	vs	5.6	0.73	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,1-Dichloroethane	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,1-Dichloroethene	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA117

Lab Sample ID: 480-151556-3

Date Collected: 04/08/19 09:27

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,2-Dibromoethane	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,2-Dichlorobenzene	ND	vs	5.6	0.44	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,3-Dichlorobenzene	ND	vs	5.6	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
1,4-Dichlorobenzene	ND	vs	5.6	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Acetone	35	vs	28	4.7	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Benzene	0.61	J vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Bromodichloromethane	ND	vs	5.6	0.76	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Bromomethane	ND	vs	5.6	0.51	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Carbon disulfide	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Carbon tetrachloride	ND	vs	5.6	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Chlorobenzene	ND	vs	5.6	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Chloroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Chloroform	ND	vs	5.6	0.35	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Cyclohexane	ND	vs	5.6	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Dibromochloromethane	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Dichlorodifluoromethane	ND	vs	5.6	0.47	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Ethylbenzene	2.4	J vs	5.6	0.39	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Isopropylbenzene	ND	vs	5.6	0.85	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Methylcyclohexane	ND	vs	5.6	0.86	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Methylene Chloride	ND	vs	5.6	2.6	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Tetrachloroethene	ND	vs	5.6	0.76	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Toluene	ND	vs	5.6	0.43	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.58	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
trans-1,3-Dichloropropene	ND	vs	5.6	2.5	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Trichloroethene	ND	vs	5.6	1.2	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Vinyl chloride	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1
Xylenes, Total	4.1	J vs	11	0.95	ug/Kg	☼	04/10/19 07:50	04/10/19 18:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1,2,4-trimethyl-	11	T J N	ug/Kg	☼	10.51	95-63-6	04/10/19 07:50	04/10/19 18:52	1
Indane	31	T J N	ug/Kg	☼	11.10	496-11-7	04/10/19 07:50	04/10/19 18:52	1
Indene	15	T J N	ug/Kg	☼	11.30	95-13-6	04/10/19 07:50	04/10/19 18:52	1
Benzofuran, 7-methyl-	11	T J N	ug/Kg	☼	11.78	17059-52-8	04/10/19 07:50	04/10/19 18:52	1
Benzofuran, 2-methyl-	13	T J N	ug/Kg	☼	11.87	4265-25-2	04/10/19 07:50	04/10/19 18:52	1
Benzene, 2-ethenyl-1,4-dimethyl-	8.4	T J N	ug/Kg	☼	12.21	2039-89-6	04/10/19 07:50	04/10/19 18:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA117

Lab Sample ID: 480-151556-3

Date Collected: 04/08/19 09:27

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 87.0

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Methylindene	9.6	T J N	ug/Kg	☼	12.37	2177-47-1	04/10/19 07:50	04/10/19 18:52	1
Naphthalene	140	T J N	ug/Kg	☼	12.81	91-20-3	04/10/19 07:50	04/10/19 18:52	1
Benzo[c]thiophene	15	T J N	ug/Kg	☼	12.93	270-82-6	04/10/19 07:50	04/10/19 18:52	1
Naphthalene, 2-methyl-	21	T J N	ug/Kg	☼	13.94	91-57-6	04/10/19 07:50	04/10/19 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126				04/10/19 07:50	04/10/19 18:52	1
4-Bromofluorobenzene (Surr)	100		72 - 126				04/10/19 07:50	04/10/19 18:52	1
Dibromofluoromethane (Surr)	107		60 - 140				04/10/19 07:50	04/10/19 18:52	1
Toluene-d8 (Surr)	96		71 - 125				04/10/19 07:50	04/10/19 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2-Methylphenol	ND		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4-Methylphenol	ND		370	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Acenaphthene	120	J	190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Acenaphthylene	63	J	190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Acetophenone	ND		190	26	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Anthracene	120	J	190	48	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Atrazine	ND		190	67	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Benzo[a]anthracene	67	J	190	19	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Biphenyl	35	J	190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA117

Lab Sample ID: 480-151556-3

Date Collected: 04/08/19 09:27

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Caprolactam	ND		190	58	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Carbazole	230		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Chrysene	61 J		190	43	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Dibenzofuran	190		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Fluoranthene	190		190	20	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Fluorene	200		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Isophorone	ND		190	41	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Naphthalene	61 J		190	25	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Nitrobenzene	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Pentachlorophenol	ND *		370	190	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Phenanthrene	420		190	28	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Phenol	ND		190	29	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1
Pyrene	160 J		190	23	ug/Kg	☼	04/10/19 15:26	04/11/19 23:29	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	900	T J	ug/Kg	☼	2.28		04/10/19 15:26	04/11/19 23:29	1
Unknown	2500	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/11/19 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		54 - 120	04/10/19 15:26	04/11/19 23:29	1
2-Fluorobiphenyl (Surr)	87		60 - 120	04/10/19 15:26	04/11/19 23:29	1
2-Fluorophenol (Surr)	76		52 - 120	04/10/19 15:26	04/11/19 23:29	1
Nitrobenzene-d5 (Surr)	81		53 - 120	04/10/19 15:26	04/11/19 23:29	1
Phenol-d5 (Surr)	73		54 - 120	04/10/19 15:26	04/11/19 23:29	1
p-Terphenyl-d14 (Surr)	99		65 - 121	04/10/19 15:26	04/11/19 23:29	1

Client Sample ID: PWEXSWNA118

Lab Sample ID: 480-151556-4

Date Collected: 04/08/19 10:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.41	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6	0.91	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA118

Lab Sample ID: 480-151556-4

Date Collected: 04/08/19 10:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,1,2-Trichloroethane	ND	vs	5.6	0.73	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,1-Dichloroethane	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,1-Dichloroethene	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,2,4-Trichlorobenzene	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,2-Dibromoethane	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,2-Dichlorobenzene	ND	vs	5.6	0.44	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,3-Dichlorobenzene	ND	vs	5.6	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
1,4-Dichlorobenzene	ND	vs	5.6	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Acetone	14	J vs	28	4.7	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Benzene	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Bromodichloromethane	ND	vs	5.6	0.76	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Bromomethane	ND	vs	5.6	0.51	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Carbon disulfide	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Carbon tetrachloride	ND	vs	5.6	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Chlorobenzene	ND	vs	5.6	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Chloroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Chloroform	ND	vs	5.6	0.35	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Cyclohexane	ND	vs	5.6	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Dibromochloromethane	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Dichlorodifluoromethane	ND	vs	5.6	0.47	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Ethylbenzene	ND	vs	5.6	0.39	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Isopropylbenzene	ND	vs	5.6	0.85	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Methylcyclohexane	ND	vs	5.6	0.86	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Methylene Chloride	ND	vs	5.6	2.6	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Tetrachloroethene	ND	vs	5.6	0.76	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Toluene	ND	vs	5.6	0.43	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.58	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
trans-1,3-Dichloropropene	ND	vs	5.6	2.5	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Trichloroethene	ND	vs	5.6	1.2	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Vinyl chloride	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1
Xylenes, Total	ND	vs	11	0.95	ug/Kg	☼	04/10/19 07:50	04/10/19 14:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/10/19 07:50	04/10/19 14:32	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA118

Lab Sample ID: 480-151556-4

Date Collected: 04/08/19 10:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	04/10/19 07:50	04/10/19 14:32	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/10/19 07:50	04/10/19 14:32	1
Dibromofluoromethane (Surr)	105		60 - 140	04/10/19 07:50	04/10/19 14:32	1
Toluene-d8 (Surr)	98		71 - 125	04/10/19 07:50	04/10/19 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4-Methylphenol	ND		390	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Acenaphthylene	ND		200	26	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Acetophenone	ND		200	27	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Anthracene	ND		200	49	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Atrazine	ND		200	69	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Biphenyl	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Caprolactam	ND		200	60	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Carbazole	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Chrysene	ND		200	45	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1

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Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA118

Lab Sample ID: 480-151556-4

Date Collected: 04/08/19 10:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Dibenzofuran	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Fluoranthene	ND		200	21	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Fluorene	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Isophorone	ND		200	42	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Naphthalene	ND		200	26	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Pentachlorophenol	ND *		390	200	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Phenanthrene	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Phenol	ND		200	30	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1
Pyrene	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 14:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1100	T J	ug/Kg	☼	2.29		04/10/19 15:26	04/12/19 14:57	1
Unknown	2700	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/12/19 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		54 - 120	04/10/19 15:26	04/12/19 14:57	1
2-Fluorobiphenyl (Surr)	88		60 - 120	04/10/19 15:26	04/12/19 14:57	1
2-Fluorophenol (Surr)	80		52 - 120	04/10/19 15:26	04/12/19 14:57	1
Nitrobenzene-d5 (Surr)	82		53 - 120	04/10/19 15:26	04/12/19 14:57	1
Phenol-d5 (Surr)	78		54 - 120	04/10/19 15:26	04/12/19 14:57	1
p-Terphenyl-d14 (Surr)	109		65 - 121	04/10/19 15:26	04/12/19 14:57	1

Client Sample ID: PWEXSWNA119

Lab Sample ID: 480-151556-5

Date Collected: 04/08/19 10:32

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,1,2-Trichloroethane	ND	vs	5.5	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.33	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,2-Dibromoethane	ND	vs	5.5	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA119

Lab Sample ID: 480-151556-5

Date Collected: 04/08/19 10:32

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,2-Dichloropropane	ND	vs	5.5	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Acetone	8.5	J vs	27	4.6	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Bromoform	ND	vs	5.5	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Bromomethane	ND	vs	5.5	0.49	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Carbon disulfide	ND	vs	5.5	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Chlorobenzene	ND	vs	5.5	0.73	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Chloroform	ND	vs	5.5	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.70	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Dibromochloromethane	ND	vs	5.5	0.70	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Methylcyclohexane	ND	vs	5.5	0.84	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Methylene Chloride	ND	vs	5.5	2.5	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Styrene	ND	vs	5.5	0.27	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Toluene	ND	vs	5.5	0.42	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1
Xylenes, Total	ND	vs	11	0.92	ug/Kg	☼	04/10/19 07:50	04/10/19 14:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/10/19 07:50	04/10/19 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/10/19 07:50	04/10/19 14:58	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/10/19 07:50	04/10/19 14:58	1
Dibromofluoromethane (Surr)	106		60 - 140	04/10/19 07:50	04/10/19 14:58	1
Toluene-d8 (Surr)	98		71 - 125	04/10/19 07:50	04/10/19 14:58	1

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Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA119

Lab Sample ID: 480-151556-5

Date Collected: 04/08/19 10:32

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	50	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2,4,6-Trichlorophenol	ND		180	37	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2,4-Dichlorophenol	ND		180	19	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2,4-Dimethylphenol	ND		180	44	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2,4-Dinitrophenol	ND		1800	850	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2,4-Dinitrotoluene	ND		180	38	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2,6-Dinitrotoluene	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2-Chloronaphthalene	ND		180	30	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2-Chlorophenol	ND		180	34	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2-Methylnaphthalene	ND		180	37	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2-Methylphenol	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2-Nitroaniline	ND		360	27	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
2-Nitrophenol	ND		180	52	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
3-Nitroaniline	ND		360	51	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4,6-Dinitro-2-methylphenol	ND		360	180	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4-Bromophenyl phenyl ether	ND		180	26	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4-Chloro-3-methylphenol	ND		180	45	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4-Chloroaniline	ND		180	45	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4-Chlorophenyl phenyl ether	ND		180	23	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4-Methylphenol	ND		360	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4-Nitroaniline	ND		360	96	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Acenaphthene	ND		180	27	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Acenaphthylene	ND		180	24	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Acetophenone	ND		180	25	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Anthracene	ND		180	45	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Atrazine	ND		180	64	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Benzaldehyde	ND		180	150	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Benzo[a]anthracene	ND		180	18	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Benzo[a]pyrene	ND		180	27	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Benzo[b]fluoranthene	ND		180	29	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Benzo[g,h,i]perylene	ND		180	19	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Benzo[k]fluoranthene	ND		180	24	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Biphenyl	ND		180	27	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Bis(2-chloroethoxy)methane	ND		180	39	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Bis(2-chloroethyl)ether	ND		180	24	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Bis(2-ethylhexyl) phthalate	ND		180	63	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Butyl benzyl phthalate	ND		180	30	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Caprolactam	ND		180	55	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Carbazole	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Chrysene	ND		180	41	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Dibenz(a,h)anthracene	ND		180	32	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Dibenzofuran	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Diethyl phthalate	ND		180	24	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Dimethyl phthalate	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Di-n-butyl phthalate	ND		180	31	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Di-n-octyl phthalate	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA119

Lab Sample ID: 480-151556-5

Date Collected: 04/08/19 10:32

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		180	19	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Fluorene	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Hexachlorobenzene	ND		180	25	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Hexachlorocyclopentadiene	ND		180	25	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Hexachloroethane	ND		180	24	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Indeno[1,2,3-cd]pyrene	ND		180	23	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Isophorone	ND		180	39	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Naphthalene	ND		180	24	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Nitrobenzene	ND		180	21	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
N-Nitrosodi-n-propylamine	ND		180	31	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
N-Nitrosodiphenylamine	ND		180	150	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Pentachlorophenol	ND *		360	180	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Phenanthrene	ND		180	27	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Phenol	ND		180	28	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1
Pyrene	ND		180	22	ug/Kg	☼	04/10/19 15:26	04/12/19 15:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1100	T J	ug/Kg	☼	2.27		04/10/19 15:26	04/12/19 15:24	1
Unknown	2100	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/12/19 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		54 - 120	04/10/19 15:26	04/12/19 15:24	1
2-Fluorobiphenyl (Surr)	85		60 - 120	04/10/19 15:26	04/12/19 15:24	1
2-Fluorophenol (Surr)	78		52 - 120	04/10/19 15:26	04/12/19 15:24	1
Nitrobenzene-d5 (Surr)	77		53 - 120	04/10/19 15:26	04/12/19 15:24	1
Phenol-d5 (Surr)	77		54 - 120	04/10/19 15:26	04/12/19 15:24	1
p-Terphenyl-d14 (Surr)	90		65 - 121	04/10/19 15:26	04/12/19 15:24	1

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.95	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,1,2-Trichloroethane	ND	vs	5.8	0.76	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,2-Dibromoethane	ND	vs	5.8	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,2-Dichlorobenzene	ND	vs	5.8	0.46	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
1,4-Dichlorobenzene	ND	vs	5.8	0.82	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Acetone	10	J vs	29	4.9	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Benzene	1.1	J vs	5.8	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Bromodichloromethane	ND	vs	5.8	0.78	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Chlorobenzene	ND	vs	5.8	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Chloroform	ND	vs	5.8	0.36	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.84	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Cyclohexane	ND	vs	5.8	0.82	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Dibromochloromethane	ND	vs	5.8	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Isopropylbenzene	ND	vs	5.8	0.88	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Methylcyclohexane	ND	vs	5.8	0.89	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Toluene	0.61	J vs	5.8	0.44	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.6	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1
Xylenes, Total	ND	vs	12	0.98	ug/Kg	☼	04/10/19 07:50	04/10/19 15:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/10/19 07:50	04/10/19 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	04/10/19 07:50	04/10/19 15:24	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/10/19 07:50	04/10/19 15:24	1
Dibromofluoromethane (Surr)	105		60 - 140	04/10/19 07:50	04/10/19 15:24	1
Toluene-d8 (Surr)	98		71 - 125	04/10/19 07:50	04/10/19 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		2000	550	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2,4,6-Trichlorophenol	ND		2000	400	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2,4-Dichlorophenol	ND		2000	210	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2,4-Dimethylphenol	ND		2000	490	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2,4-Dinitrophenol	ND		20000	9300	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		2000	420	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2,6-Dinitrotoluene	ND		2000	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2-Chloronaphthalene	ND		2000	330	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2-Chlorophenol	ND		2000	370	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2-Methylnaphthalene	ND		2000	400	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2-Methylphenol	ND		2000	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2-Nitroaniline	ND		3900	300	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
2-Nitrophenol	ND		2000	570	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
3,3'-Dichlorobenzidine	ND		3900	2400	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
3-Nitroaniline	ND		3900	560	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4,6-Dinitro-2-methylphenol	ND		3900	2000	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4-Bromophenyl phenyl ether	ND		2000	290	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4-Chloro-3-methylphenol	ND		2000	500	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4-Chloroaniline	ND		2000	500	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4-Chlorophenyl phenyl ether	ND		2000	250	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4-Methylphenol	ND		3900	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4-Nitroaniline	ND		3900	1100	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
4-Nitrophenol	ND		3900	1400	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Acenaphthene	4100		2000	300	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Acenaphthylene	11000		2000	260	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Acetophenone	ND		2000	270	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Anthracene	49000		2000	500	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Atrazine	ND		2000	700	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Benzaldehyde	ND		2000	1600	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Benzo[a]anthracene	46000		2000	200	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Benzo[a]pyrene	31000		2000	300	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Benzo[b]fluoranthene	32000		2000	320	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Benzo[g,h,i]perylene	15000		2000	210	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Benzo[k]fluoranthene	15000		2000	260	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Biphenyl	3500		2000	300	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
bis (2-chloroisopropyl) ether	ND		2000	400	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Bis(2-chloroethoxy)methane	ND		2000	430	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Bis(2-chloroethyl)ether	ND		2000	260	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Bis(2-ethylhexyl) phthalate	ND		2000	690	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Butyl benzyl phthalate	ND		2000	330	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Caprolactam	ND		2000	610	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Carbazole	4800		2000	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Chrysene	37000		2000	450	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Dibenz(a,h)anthracene	ND		2000	360	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Dibenzofuran	24000		2000	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Diethyl phthalate	ND		2000	260	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Dimethyl phthalate	ND		2000	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Di-n-butyl phthalate	ND		2000	340	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Di-n-octyl phthalate	ND		2000	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Fluorene	30000		2000	240	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Hexachlorobenzene	ND		2000	270	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Hexachlorobutadiene	ND		2000	300	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Hexachlorocyclopentadiene	ND		2000	270	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Hexachloroethane	ND		2000	260	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	15000		2000	250	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Isophorone	ND		2000	430	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Naphthalene	1500	J	2000	260	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Nitrobenzene	ND		2000	230	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
N-Nitrosodi-n-propylamine	ND		2000	340	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
N-Nitrosodiphenylamine	ND		2000	1600	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Pentachlorophenol	ND	*	3900	2000	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10
Phenol	ND		2000	310	ug/Kg	☼	04/10/19 15:26	04/12/19 15:52	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene, 2,3-dimethyl-	7400	T J N	ug/Kg	☼	9.99	581-40-8	04/10/19 15:26	04/12/19 15:52	10
Dibenzofuran, 4-methyl-	11000	T J N	ug/Kg	☼	11.11	7320-53-8	04/10/19 15:26	04/12/19 15:52	10
9H-Fluorene, 2-methyl-	9000	T J N	ug/Kg	☼	11.50	1430-97-3	04/10/19 15:26	04/12/19 15:52	10
Unknown	5000	T J	ug/Kg	☼	11.62		04/10/19 15:26	04/12/19 15:52	10
Unknown	5700	T J	ug/Kg	☼	11.65		04/10/19 15:26	04/12/19 15:52	10
Unknown	5300	T J	ug/Kg	☼	11.73		04/10/19 15:26	04/12/19 15:52	10
Dibenzothiophene	9500	T J N	ug/Kg	☼	11.79	132-65-0	04/10/19 15:26	04/12/19 15:52	10
Anthracene, 1-methyl-	15000	T J N	ug/Kg	☼	12.35	610-48-0	04/10/19 15:26	04/12/19 15:52	10
1H-Cyclopropa[1]phenanthrene, 1a,9b	19000	T J N	ug/Kg	☼	12.37	949-41-7	04/10/19 15:26	04/12/19 15:52	10
-dihydro-									
Phenanthrene, 1-methyl-	11000	T J N	ug/Kg	☼	12.42	832-69-9	04/10/19 15:26	04/12/19 15:52	10
Unknown	34000	T J	ug/Kg	☼	12.46		04/10/19 15:26	04/12/19 15:52	10
5,16[1',2']:8,13[1'',2'']	8900	T J N	ug/Kg	☼	12.61	5672-97-9	04/10/19 15:26	04/12/19 15:52	10
-Dibenzenodibenzo[a,g]cyclodo									
Phenanthrene, 2,5-dimethyl-	8200	T J N	ug/Kg	☼	12.84	3674-66-6	04/10/19 15:26	04/12/19 15:52	10
Unknown	8800	T J	ug/Kg	☼	12.88		04/10/19 15:26	04/12/19 15:52	10
Fluoranthene, 2-methyl-	5600	T J N	ug/Kg	☼	13.49	33543-31-6	04/10/19 15:26	04/12/19 15:52	10
Unknown	5300	T J	ug/Kg	☼	15.57		04/10/19 15:26	04/12/19 15:52	10
Benzo[e]pyrene	20000	T J N	ug/Kg	☼	15.70	192-97-2	04/10/19 15:26	04/12/19 15:52	10
Unknown	10000	T J	ug/Kg	☼	15.87		04/10/19 15:26	04/12/19 15:52	10
Dibenzo[def,mno]chrysene	9500	T J N	ug/Kg	☼	18.13	191-26-4	04/10/19 15:26	04/12/19 15:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	123	X	54 - 120	04/10/19 15:26	04/12/19 15:52	10
2-Fluorobiphenyl (Surr)	81		60 - 120	04/10/19 15:26	04/12/19 15:52	10
2-Fluorophenol (Surr)	82		52 - 120	04/10/19 15:26	04/12/19 15:52	10
Nitrobenzene-d5 (Surr)	75		53 - 120	04/10/19 15:26	04/12/19 15:52	10
Phenol-d5 (Surr)	67		54 - 120	04/10/19 15:26	04/12/19 15:52	10
p-Terphenyl-d14 (Surr)	97		65 - 121	04/10/19 15:26	04/12/19 15:52	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	120000		10000	1100	ug/Kg	☼	04/10/19 15:26	04/16/19 00:38	50
Phenanthrene	160000		10000	1500	ug/Kg	☼	04/10/19 15:26	04/16/19 00:38	50
Pyrene	77000		10000	1200	ug/Kg	☼	04/10/19 15:26	04/16/19 00:38	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Dibenzofuran, 4-methyl-	12000	T J N	ug/Kg	☼	10.13	7320-53-8	04/10/19 15:26	04/16/19 00:38	50
9H-Fluorene, 2-methyl-	11000	T J N	ug/Kg	☼	10.54	1430-97-3	04/10/19 15:26	04/16/19 00:38	50
Dibenzothiophene	9600	T J N	ug/Kg	☼	10.82	132-65-0	04/10/19 15:26	04/16/19 00:38	50
Anthracene, 2-methyl-	24000	T J N	ug/Kg	☼	11.45	613-12-7	04/10/19 15:26	04/16/19 00:38	50

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Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 83.6

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Anthracene, 1-methyl-	15000	T J N	ug/Kg	☼	11.49	610-48-0	04/10/19 15:26	04/16/19 00:38	50
Unknown	34000	T J	ug/Kg	☼	11.52		04/10/19 15:26	04/16/19 00:38	50
2-Phenylnaphthalene	16000	T J N	ug/Kg	☼	11.71	35465-71-5	04/10/19 15:26	04/16/19 00:38	50
9,10-Dimethylantracene	13000	T J N	ug/Kg	☼	11.94	781-43-1	04/10/19 15:26	04/16/19 00:38	50
Unknown	9100	T J	ug/Kg	☼	11.97		04/10/19 15:26	04/16/19 00:38	50
Unknown	8600	T J	ug/Kg	☼	12.02		04/10/19 15:26	04/16/19 00:38	50
Pyrene, 1-methyl-	15000	T J N	ug/Kg	☼	12.57	2381-21-7	04/10/19 15:26	04/16/19 00:38	50
Fluoranthene, 2-methyl-	9500	T J N	ug/Kg	☼	12.62	33543-31-6	04/10/19 15:26	04/16/19 00:38	50
Unknown	9400	T J	ug/Kg	☼	13.10		04/10/19 15:26	04/16/19 00:38	50
Unknown	80000	T J	ug/Kg	☼	13.59		04/10/19 15:26	04/16/19 00:38	50
Unknown	950000	T J	ug/Kg	☼	14.30		04/10/19 15:26	04/16/19 00:38	50
Unknown	1200000	T J	ug/Kg	☼	14.38		04/10/19 15:26	04/16/19 00:38	50
Unknown	12000	T J	ug/Kg	☼	15.49		04/10/19 15:26	04/16/19 00:38	50
Dibenzo[def,mno]chrysene	8300	T J N	ug/Kg	☼	15.78	191-26-4	04/10/19 15:26	04/16/19 00:38	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	175	X	54 - 120				04/10/19 15:26	04/16/19 00:38	50
2-Fluorobiphenyl (Surr)	87		60 - 120				04/10/19 15:26	04/16/19 00:38	50
2-Fluorophenol (Surr)	75		52 - 120				04/10/19 15:26	04/16/19 00:38	50
Nitrobenzene-d5 (Surr)	80		53 - 120				04/10/19 15:26	04/16/19 00:38	50
Phenol-d5 (Surr)	78		54 - 120				04/10/19 15:26	04/16/19 00:38	50
p-Terphenyl-d14 (Surr)	102		65 - 121				04/10/19 15:26	04/16/19 00:38	50

Client Sample ID: PWEXSWNA123

Lab Sample ID: 480-151556-7

Date Collected: 04/08/19 08:39

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.41	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6	0.91	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,1,2-Trichloroethane	ND	vs	5.6	0.73	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,1-Dichloroethane	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,1-Dichloroethene	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,2,4-Trichlorobenzene	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,2-Dibromoethane	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,2-Dichlorobenzene	ND	vs	5.6	0.44	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,3-Dichlorobenzene	ND	vs	5.6	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
1,4-Dichlorobenzene	ND	vs	5.6	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Acetone	18	J vs	28	4.7	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Benzene	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Bromodichloromethane	ND	vs	5.6	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1

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Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA123

Lab Sample ID: 480-151556-7

Date Collected: 04/08/19 08:39

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	vs	5.6	0.51	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Carbon disulfide	ND	vs	5.6	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Carbon tetrachloride	ND	vs	5.6	0.54	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Chlorobenzene	ND	vs	5.6	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Chloroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Chloroform	ND	vs	5.6	0.35	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Cyclohexane	ND	vs	5.6	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Dibromochloromethane	ND	vs	5.6	0.72	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Dichlorodifluoromethane	ND	vs	5.6	0.46	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Ethylbenzene	ND	vs	5.6	0.39	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Isopropylbenzene	ND	vs	5.6	0.85	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Methylcyclohexane	ND	vs	5.6	0.85	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Methylene Chloride	ND	vs	5.6	2.6	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Tetrachloroethene	ND	vs	5.6	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Toluene	ND	vs	5.6	0.42	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.58	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
trans-1,3-Dichloropropene	ND	vs	5.6	2.5	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Trichloroethene	ND	vs	5.6	1.2	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Vinyl chloride	ND	vs	5.6	0.69	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1
Xylenes, Total	ND	vs	11	0.94	ug/Kg	☼	04/10/19 07:50	04/10/19 15:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/10/19 07:50	04/10/19 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	04/10/19 07:50	04/10/19 15:51	1
4-Bromofluorobenzene (Surr)	94		72 - 126	04/10/19 07:50	04/10/19 15:51	1
Dibromofluoromethane (Surr)	104		60 - 140	04/10/19 07:50	04/10/19 15:51	1
Toluene-d8 (Surr)	99		71 - 125	04/10/19 07:50	04/10/19 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	50	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2,4,6-Trichlorophenol	ND		190	37	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2,4-Dinitrophenol	ND		1800	860	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2,4-Dinitrotoluene	ND		190	38	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2-Chlorophenol	ND		190	34	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2-Methylnaphthalene	ND		190	37	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1

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Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA123

Lab Sample ID: 480-151556-7

Date Collected: 04/08/19 08:39

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		360	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
3-Nitroaniline	ND		360	52	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4-Bromophenyl phenyl ether	ND		190	26	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4-Methylphenol	ND		360	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4-Nitroaniline	ND		360	98	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Acenaphthene	ND		190	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Acenaphthylene	25	J	190	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Acetophenone	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Anthracene	140	J	190	46	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Atrazine	ND		190	65	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Benzo[a]anthracene	660		190	19	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Benzo[a]pyrene	510		190	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Benzo[b]fluoranthene	540		190	30	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Benzo[g,h,i]perylene	260		190	20	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Benzo[k]fluoranthene	340		190	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Biphenyl	ND		190	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
bis (2-chloroisopropyl) ether	ND		190	37	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Bis(2-chloroethoxy)methane	ND		190	39	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Caprolactam	ND		190	56	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Carbazole	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Chrysene	630		190	42	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Fluoranthene	1000		190	20	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Fluorene	ND		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Hexachlorobutadiene	ND		190	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Hexachloroethane	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Indeno[1,2,3-cd]pyrene	240		190	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Isophorone	ND		190	39	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Naphthalene	ND		190	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1

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Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA123

Lab Sample ID: 480-151556-7

Date Collected: 04/08/19 08:39

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Pentachlorophenol	ND	*	360	190	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Phenanthrene	220		190	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Phenol	ND		190	29	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1
Pyrene	880		190	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1100	T J	ug/Kg	☼	2.27		04/10/19 15:26	04/12/19 16:19	1
Unknown	2200	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/12/19 16:19	1
Unknown	190	T J	ug/Kg	☼	12.35		04/10/19 15:26	04/12/19 16:19	1
1H-Indene, 3-phenyl-	200	T J N	ug/Kg	☼	12.37	1961-97-3	04/10/19 15:26	04/12/19 16:19	1
Unknown	200	T J	ug/Kg	☼	12.42		04/10/19 15:26	04/12/19 16:19	1
Unknown	650	T J	ug/Kg	☼	12.46		04/10/19 15:26	04/12/19 16:19	1
Unknown	160	T J	ug/Kg	☼	12.61		04/10/19 15:26	04/12/19 16:19	1
Unknown	300	T J	ug/Kg	☼	12.84		04/10/19 15:26	04/12/19 16:19	1
Unknown	300	T J	ug/Kg	☼	12.88		04/10/19 15:26	04/12/19 16:19	1
Unknown	220	T J	ug/Kg	☼	12.92		04/10/19 15:26	04/12/19 16:19	1
Unknown	180	T J	ug/Kg	☼	13.38		04/10/19 15:26	04/12/19 16:19	1
11H-Benzo[b]fluorene	290	T J N	ug/Kg	☼	13.49	243-17-4	04/10/19 15:26	04/12/19 16:19	1
Unknown	230	T J	ug/Kg	☼	14.38		04/10/19 15:26	04/12/19 16:19	1
7H-Benz[de]anthracen-7-one	300	T J N	ug/Kg	☼	14.41	82-05-3	04/10/19 15:26	04/12/19 16:19	1
Unknown	190	T J	ug/Kg	☼	15.17		04/10/19 15:26	04/12/19 16:19	1
Unknown	190	T J	ug/Kg	☼	15.47		04/10/19 15:26	04/12/19 16:19	1
Unknown	380	T J	ug/Kg	☼	15.69		04/10/19 15:26	04/12/19 16:19	1
Unknown	150	T J	ug/Kg	☼	16.04		04/10/19 15:26	04/12/19 16:19	1
Unknown	190	T J	ug/Kg	☼	17.86		04/10/19 15:26	04/12/19 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		54 - 120	04/10/19 15:26	04/12/19 16:19	1
2-Fluorobiphenyl (Surr)	85		60 - 120	04/10/19 15:26	04/12/19 16:19	1
2-Fluorophenol (Surr)	79		52 - 120	04/10/19 15:26	04/12/19 16:19	1
Nitrobenzene-d5 (Surr)	77		53 - 120	04/10/19 15:26	04/12/19 16:19	1
Phenol-d5 (Surr)	89		54 - 120	04/10/19 15:26	04/12/19 16:19	1
p-Terphenyl-d14 (Surr)	92		65 - 121	04/10/19 15:26	04/12/19 16:19	1

Client Sample ID: PWEXSWNA124

Lab Sample ID: 480-151556-8

Date Collected: 04/08/19 09:31

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.93	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,1-Dichloroethane	ND	vs	5.8	0.70	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA124

Lab Sample ID: 480-151556-8

Date Collected: 04/08/19 09:31

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Acetone	7.8	J vs	29	4.9	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Chloroform	ND	vs	5.8	0.36	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Tetrachloroethene	ND	vs	5.8	0.77	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.59	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Vinyl chloride	ND	vs	5.8	0.70	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1
Xylenes, Total	ND	vs	12	0.97	ug/Kg	☼	04/10/19 07:50	04/10/19 16:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/10/19 07:50	04/10/19 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	04/10/19 07:50	04/10/19 16:16	1
4-Bromofluorobenzene (Surr)	93		72 - 126	04/10/19 07:50	04/10/19 16:16	1
Dibromofluoromethane (Surr)	108		60 - 140	04/10/19 07:50	04/10/19 16:16	1
Toluene-d8 (Surr)	98		71 - 125	04/10/19 07:50	04/10/19 16:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA124

Lab Sample ID: 480-151556-8

Date Collected: 04/08/19 09:31

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Acenaphthylene	ND		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Acetophenone	ND		200	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Anthracene	ND		200	48	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Atrazine	ND		200	68	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Benzo[a]pyrene	69 J		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Benzo[k]fluoranthene	45 J		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Biphenyl	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Caprolactam	ND		200	59	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Carbazole	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Chrysene	54 J		200	44	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Dibenzofuran	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA124

Lab Sample ID: 480-151556-8

Date Collected: 04/08/19 09:31

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	100	J	200	21	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Fluorene	ND		200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Hexachloroethane	ND		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Isophorone	ND		200	42	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Naphthalene	ND		200	25	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Pentachlorophenol	ND *		380	200	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Phenanthrene	38	J	200	29	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Phenol	ND		200	30	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1
Pyrene	120	J	200	23	ug/Kg	☼	04/10/19 15:26	04/12/19 16:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	750	T J	ug/Kg	☼	2.29		04/10/19 15:26	04/12/19 16:47	1
Unknown	2500	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/12/19 16:47	1
Unknown	160	T J	ug/Kg	☼	14.02		04/10/19 15:26	04/12/19 16:47	1
Unknown	180	T J	ug/Kg	☼	14.61		04/10/19 15:26	04/12/19 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		54 - 120	04/10/19 15:26	04/12/19 16:47	1
2-Fluorobiphenyl (Surr)	92		60 - 120	04/10/19 15:26	04/12/19 16:47	1
2-Fluorophenol (Surr)	80		52 - 120	04/10/19 15:26	04/12/19 16:47	1
Nitrobenzene-d5 (Surr)	81		53 - 120	04/10/19 15:26	04/12/19 16:47	1
Phenol-d5 (Surr)	87		54 - 120	04/10/19 15:26	04/12/19 16:47	1
p-Terphenyl-d14 (Surr)	116		65 - 121	04/10/19 15:26	04/12/19 16:47	1

Client Sample ID: PWEXSWNA125

Lab Sample ID: 480-151556-9

Date Collected: 04/08/19 09:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.2	0.45	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,1,2,2-Tetrachloroethane	ND	vs	6.2	1.0	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,1,2-Trichloroethane	ND	vs	6.2	0.80	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,1-Dichloroethane	ND	vs	6.2	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,1-Dichloroethene	ND	vs	6.2	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,2,4-Trichlorobenzene	ND	vs	6.2	0.37	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.2	3.1	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,2-Dibromoethane	ND	vs	6.2	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,2-Dichlorobenzene	ND	vs	6.2	0.48	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,2-Dichloroethane	ND	vs	6.2	0.31	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,2-Dichloropropane	ND	vs	6.2	3.1	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
1,3-Dichlorobenzene	ND	vs	6.2	0.32	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1

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Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA125

Lab Sample ID: 480-151556-9

Date Collected: 04/08/19 09:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	vs	6.2	0.86	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
2-Butanone (MEK)	ND	vs	31	2.3	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Acetone	25	J vs	31	5.2	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Benzene	ND	vs	6.2	0.30	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Bromodichloromethane	ND	vs	6.2	0.83	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Bromoform	ND	vs	6.2	3.1	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Bromomethane	ND	vs	6.2	0.55	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Carbon disulfide	ND	vs	6.2	3.1	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Carbon tetrachloride	ND	vs	6.2	0.60	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Chlorobenzene	ND	vs	6.2	0.81	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Chloroethane	ND	vs	6.2	1.4	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Chloroform	ND	vs	6.2	0.38	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Chloromethane	ND	vs	6.2	0.37	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
cis-1,2-Dichloroethene	ND	vs	6.2	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
cis-1,3-Dichloropropene	ND	vs	6.2	0.89	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Cyclohexane	ND	vs	6.2	0.86	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Dibromochloromethane	ND	vs	6.2	0.79	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Dichlorodifluoromethane	ND	vs	6.2	0.51	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Ethylbenzene	ND	vs	6.2	0.43	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Isopropylbenzene	ND	vs	6.2	0.93	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Methyl tert-butyl ether	ND	vs	6.2	0.61	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Methylcyclohexane	ND	vs	6.2	0.94	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Methylene Chloride	ND	vs	6.2	2.8	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Styrene	ND	vs	6.2	0.31	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Tetrachloroethene	ND	vs	6.2	0.83	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Toluene	ND	vs	6.2	0.47	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
trans-1,2-Dichloroethene	ND	vs	6.2	0.64	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
trans-1,3-Dichloropropene	ND	vs	6.2	2.7	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Trichloroethene	ND	vs	6.2	1.4	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Trichlorofluoromethane	ND	vs	6.2	0.58	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Vinyl chloride	ND	vs	6.2	0.75	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	04/10/19 07:50	04/10/19 16:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/10/19 07:50	04/10/19 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/10/19 07:50	04/10/19 16:43	1
4-Bromofluorobenzene (Surr)	94		72 - 126	04/10/19 07:50	04/10/19 16:43	1
Dibromofluoromethane (Surr)	104		60 - 140	04/10/19 07:50	04/10/19 16:43	1
Toluene-d8 (Surr)	100		71 - 125	04/10/19 07:50	04/10/19 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1

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Client Sample Results

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA125

Lab Sample ID: 480-151556-9

Date Collected: 04/08/19 09:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2,4-Dinitrophenol	ND		2000	970	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2-Chlorophenol	ND		210	38	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2-Methylphenol	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
2-Nitrophenol	ND		210	59	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4-Methylphenol	ND		410	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Acenaphthene	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Acenaphthylene	60	J	210	27	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Acetophenone	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Anthracene	240		210	52	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Atrazine	ND		210	73	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Benzaldehyde	ND		210	170	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Benzo[a]anthracene	740		210	21	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Benzo[a]pyrene	690		210	31	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Benzo[b]fluoranthene	860		210	33	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Benzo[g,h,i]perylene	470		210	22	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Benzo[k]fluoranthene	330		210	27	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Biphenyl	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Caprolactam	ND		210	63	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Carbazole	57	J	210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Chrysene	720		210	47	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Dibenzofuran	31	J	210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Fluoranthene	1500		210	22	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Fluorene	47	J	210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1

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Client Sample Results

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA125

Lab Sample ID: 480-151556-9

Date Collected: 04/08/19 09:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Hexachloroethane	ND		210	27	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Indeno[1,2,3-cd]pyrene	440		210	26	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Isophorone	ND		210	44	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Naphthalene	ND		210	27	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Nitrobenzene	ND		210	23	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Pentachlorophenol	ND *		410	210	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Phenanthrene	990		210	31	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Phenol	ND		210	32	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1
Pyrene	1300		210	25	ug/Kg	☼	04/10/19 15:26	04/12/19 17:14	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1100	T J	ug/Kg	☼	2.28		04/10/19 15:26	04/12/19 17:14	1
Unknown	2700	T J	ug/Kg	☼	4.76		04/10/19 15:26	04/12/19 17:14	1
Anthracene, 9-methyl-	170	T J N	ug/Kg	☼	12.35	779-02-2	04/10/19 15:26	04/12/19 17:14	1
Unknown	250	T J	ug/Kg	☼	12.37		04/10/19 15:26	04/12/19 17:14	1
Unknown	390	T J	ug/Kg	☼	12.46		04/10/19 15:26	04/12/19 17:14	1
Phenanthrene, 3,6-dimethyl-	180	T J N	ug/Kg	☼	12.84	1576-67-6	04/10/19 15:26	04/12/19 17:14	1
Benzo[b]naphtho[2,3-d]furan	190	T J N	ug/Kg	☼	13.18	243-42-5	04/10/19 15:26	04/12/19 17:14	1
Pyrene, 2-methyl-	180	T J N	ug/Kg	☼	13.48	3442-78-2	04/10/19 15:26	04/12/19 17:14	1
Unknown	230	T J	ug/Kg	☼	15.47		04/10/19 15:26	04/12/19 17:14	1
Unknown	200	T J	ug/Kg	☼	15.57		04/10/19 15:26	04/12/19 17:14	1
Unknown	600	T J	ug/Kg	☼	15.69		04/10/19 15:26	04/12/19 17:14	1
Unknown	200	T J	ug/Kg	☼	15.86		04/10/19 15:26	04/12/19 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		54 - 120	04/10/19 15:26	04/12/19 17:14	1
2-Fluorobiphenyl (Surr)	91		60 - 120	04/10/19 15:26	04/12/19 17:14	1
2-Fluorophenol (Surr)	79		52 - 120	04/10/19 15:26	04/12/19 17:14	1
Nitrobenzene-d5 (Surr)	74		53 - 120	04/10/19 15:26	04/12/19 17:14	1
Phenol-d5 (Surr)	77		54 - 120	04/10/19 15:26	04/12/19 17:14	1
p-Terphenyl-d14 (Surr)	99		65 - 121	04/10/19 15:26	04/12/19 17:14	1

Surrogate Summary

Client: AECOM

Job ID: 480-151556-1

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

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 (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-151556-1	PWEXSWNA115	109	93	107	101
480-151556-2	PWEXSWNA116	108	97	104	99
480-151556-3	PWEXSWNA117	111	100	107	96
480-151556-4	PWEXSWNA118	110	95	105	98
480-151556-5	PWEXSWNA119	108	96	106	98
480-151556-6	PWEXSWNA120	110	96	105	98
480-151556-7	PWEXSWNA123	107	94	104	99
480-151556-8	PWEXSWNA124	111	93	108	98
480-151556-9	PWEXSWNA125	108	94	104	100
LCS 480-467114/1-A	Lab Control Sample	103	105	101	99
MB 480-467114/2-A	Method Blank	106	97	103	99

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

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 (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (65-121)
480-151556-1	PWEXSWNA115	92	97	80	87	80	99
480-151556-2	PWEXSWNA116	85	86	79	81	79	101
480-151556-3	PWEXSWNA117	94	87	76	81	73	99
480-151556-4	PWEXSWNA118	91	88	80	82	78	109
480-151556-5	PWEXSWNA119	86	85	78	77	77	90
480-151556-6	PWEXSWNA120	123 X	81	82	75	67	97
480-151556-6 - DL	PWEXSWNA120	175 X	87	75	80	78	102
480-151556-7	PWEXSWNA123	98	85	79	77	89	92
480-151556-8	PWEXSWNA124	105	92	80	81	87	116
480-151556-9	PWEXSWNA125	98	91	79	74	77	99
LCS 480-467258/2-A	Lab Control Sample	99	92	81	81	84	108
MB 480-467258/1-A	Method Blank	92	91	76	81	79	98

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: AECOM

Job ID: 480-151556-1

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

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

Lab Sample ID: MB 480-467114/2-A

Matrix: Solid

Analysis Batch: 467119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
2-Hexanone	ND		25	2.5	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Acetone	ND		25	4.2	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Benzene	ND		5.0	0.25	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Bromoform	ND		5.0	2.5	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Chloroform	ND		5.0	0.31	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Methyl acetate	ND		25	3.0	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Styrene	ND		5.0	0.25	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Toluene	ND		5.0	0.38	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/10/19 07:50	04/10/19 10:31	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/10/19 07:50	04/10/19 10:31	1

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QC Sample Results

Client: AECOM

Job ID: 480-151556-1

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

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

Lab Sample ID: MB 480-467114/2-A

Matrix: Solid

Analysis Batch: 467119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467114

<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>		ug/Kg				04/10/19 07:50	04/10/19 10:31	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		64 - 126				04/10/19 07:50	04/10/19 10:31	1
4-Bromofluorobenzene (Surr)	97		72 - 126				04/10/19 07:50	04/10/19 10:31	1
Dibromofluoromethane (Surr)	103		60 - 140				04/10/19 07:50	04/10/19 10:31	1
Toluene-d8 (Surr)	99		71 - 125				04/10/19 07:50	04/10/19 10:31	1

Lab Sample ID: LCS 480-467114/1-A

Matrix: Solid

Analysis Batch: 467119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467114

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	77 - 121
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/Kg		91	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.6		ug/Kg		95	60 - 140
1,1,2-Trichloroethane	50.0	47.2		ug/Kg		94	78 - 122
1,1-Dichloroethane	50.0	48.8		ug/Kg		98	73 - 126
1,1-Dichloroethene	50.0	45.9		ug/Kg		92	59 - 125
1,2,4-Trichlorobenzene	50.0	43.3		ug/Kg		87	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	38.1		ug/Kg		76	63 - 124
1,2-Dibromoethane	50.0	47.1		ug/Kg		94	78 - 120
1,2-Dichlorobenzene	50.0	44.9		ug/Kg		90	75 - 120
1,2-Dichloroethane	50.0	47.2		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	49.4		ug/Kg		99	75 - 124
1,3-Dichlorobenzene	50.0	45.5		ug/Kg		91	74 - 120
1,4-Dichlorobenzene	50.0	45.0		ug/Kg		90	73 - 120
2-Butanone (MEK)	250	254		ug/Kg		102	70 - 134
2-Hexanone	250	245		ug/Kg		98	59 - 130
4-Methyl-2-pentanone (MIBK)	250	242		ug/Kg		97	65 - 133
Acetone	250	238		ug/Kg		95	61 - 137
Benzene	50.0	49.1		ug/Kg		98	79 - 127
Bromodichloromethane	50.0	46.9		ug/Kg		94	80 - 122
Bromoform	50.0	49.2		ug/Kg		98	68 - 126
Bromomethane	50.0	56.1		ug/Kg		112	37 - 149
Carbon disulfide	50.0	45.7		ug/Kg		91	64 - 131
Carbon tetrachloride	50.0	48.4		ug/Kg		97	75 - 135
Chlorobenzene	50.0	47.2		ug/Kg		94	76 - 124
Chloroethane	50.0	53.9		ug/Kg		108	69 - 135
Chloroform	50.0	48.9		ug/Kg		98	80 - 120
Chloromethane	50.0	50.5		ug/Kg		101	63 - 127
cis-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	81 - 120
cis-1,3-Dichloropropene	50.0	48.4		ug/Kg		97	80 - 120
Cyclohexane	50.0	45.8		ug/Kg		92	65 - 120
Dibromochloromethane	50.0	47.0		ug/Kg		94	76 - 125
Dichlorodifluoromethane	50.0	45.2		ug/Kg		90	57 - 142
Ethylbenzene	50.0	47.0		ug/Kg		94	80 - 120

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QC Sample Results

Client: AECOM

Job ID: 480-151556-1

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

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

Lab Sample ID: LCS 480-467114/1-A

Matrix: Solid

Analysis Batch: 467119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	42.2		ug/Kg		84	72 - 120
Methyl acetate	100	91.1		ug/Kg		91	55 - 136
Methyl tert-butyl ether	50.0	44.8		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	44.5		ug/Kg		89	60 - 140
Methylene Chloride	50.0	42.4		ug/Kg		85	61 - 127
Styrene	50.0	44.3		ug/Kg		89	80 - 120
Tetrachloroethene	50.0	49.5		ug/Kg		99	74 - 122
Toluene	50.0	47.0		ug/Kg		94	74 - 128
trans-1,2-Dichloroethene	50.0	48.9		ug/Kg		98	78 - 126
trans-1,3-Dichloropropene	50.0	47.3		ug/Kg		95	73 - 123
Trichloroethene	50.0	48.2		ug/Kg		96	77 - 129
Trichlorofluoromethane	50.0	56.3		ug/Kg		113	65 - 146
Vinyl chloride	50.0	54.4		ug/Kg		109	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	99		71 - 125

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

Lab Sample ID: MB 480-467258/1-A

Matrix: Solid

Analysis Batch: 467474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		160	45	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2,4,6-Trichlorophenol	ND		160	33	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2,4-Dichlorophenol	ND		160	17	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2,4-Dimethylphenol	ND		160	40	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2,4-Dinitrophenol	ND		1600	760	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2,4-Dinitrotoluene	ND		160	34	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2,6-Dinitrotoluene	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2-Chloronaphthalene	ND		160	27	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2-Chlorophenol	ND		160	30	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2-Methylnaphthalene	ND		160	33	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2-Methylphenol	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2-Nitroaniline	ND		320	24	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
2-Nitrophenol	ND		160	47	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
3,3'-Dichlorobenzidine	ND		320	190	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
3-Nitroaniline	ND		320	46	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
4,6-Dinitro-2-methylphenol	ND		320	160	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
4-Bromophenyl phenyl ether	ND		160	23	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
4-Chloro-3-methylphenol	ND		160	41	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
4-Chloroaniline	ND		160	41	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
4-Chlorophenyl phenyl ether	ND		160	20	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
4-Methylphenol	ND		320	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
4-Nitroaniline	ND		320	86	ug/Kg		04/10/19 15:26	04/11/19 16:09	1

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QC Sample Results

Client: AECOM

Job ID: 480-151556-1

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

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

Lab Sample ID: MB 480-467258/1-A

Matrix: Solid

Analysis Batch: 467474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		320	120	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Acenaphthene	ND		160	24	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Acenaphthylene	ND		160	21	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Acetophenone	ND		160	22	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Anthracene	ND		160	41	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Atrazine	ND		160	57	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Benzaldehyde	ND		160	130	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Benzo[a]anthracene	ND		160	16	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Benzo[a]pyrene	ND		160	24	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Benzo[b]fluoranthene	ND		160	26	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Benzo[g,h,i]perylene	ND		160	17	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Benzo[k]fluoranthene	ND		160	21	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Biphenyl	ND		160	24	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
bis (2-chloroisopropyl) ether	ND		160	33	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Bis(2-chloroethoxy)methane	ND		160	35	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Bis(2-chloroethyl)ether	ND		160	21	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Bis(2-ethylhexyl) phthalate	ND		160	56	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Butyl benzyl phthalate	ND		160	27	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Caprolactam	ND		160	49	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Carbazole	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Chrysene	ND		160	37	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Dibenz(a,h)anthracene	ND		160	29	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Dibenzofuran	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Diethyl phthalate	ND		160	21	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Dimethyl phthalate	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Di-n-butyl phthalate	ND		160	28	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Di-n-octyl phthalate	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Fluoranthene	ND		160	17	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Fluorene	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Hexachlorobenzene	ND		160	22	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Hexachlorobutadiene	ND		160	24	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Hexachlorocyclopentadiene	ND		160	22	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Hexachloroethane	ND		160	21	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Indeno[1,2,3-cd]pyrene	ND		160	20	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Isophorone	ND		160	35	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Naphthalene	ND		160	21	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Nitrobenzene	ND		160	18	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
N-Nitrosodi-n-propylamine	ND		160	28	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
N-Nitrosodiphenylamine	ND		160	130	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Pentachlorophenol	ND		320	160	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Phenanthrene	ND		160	24	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Phenol	ND		160	25	ug/Kg		04/10/19 15:26	04/11/19 16:09	1
Pyrene	ND		160	19	ug/Kg		04/10/19 15:26	04/11/19 16:09	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	804	T J	ug/Kg		2.29		04/10/19 15:26	04/11/19 16:09	1
Unknown	2460	T J	ug/Kg		4.76		04/10/19 15:26	04/11/19 16:09	1

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QC Sample Results

Client: AECOM

Job ID: 480-151556-1

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

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

Lab Sample ID: MB 480-467258/1-A

Matrix: Solid

Analysis Batch: 467474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467258

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		54 - 120	04/10/19 15:26	04/11/19 16:09	1
2-Fluorobiphenyl (Surr)	91		60 - 120	04/10/19 15:26	04/11/19 16:09	1
2-Fluorophenol (Surr)	76		52 - 120	04/10/19 15:26	04/11/19 16:09	1
Nitrobenzene-d5 (Surr)	81		53 - 120	04/10/19 15:26	04/11/19 16:09	1
Phenol-d5 (Surr)	79		54 - 120	04/10/19 15:26	04/11/19 16:09	1
p-Terphenyl-d14 (Surr)	98		65 - 121	04/10/19 15:26	04/11/19 16:09	1

Lab Sample ID: LCS 480-467258/2-A

Matrix: Solid

Analysis Batch: 467474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1660	1510		ug/Kg		91	59 - 126
2,4,6-Trichlorophenol	1660	1480		ug/Kg		89	59 - 123
2,4-Dichlorophenol	1660	1470		ug/Kg		88	61 - 120
2,4-Dimethylphenol	1660	1400		ug/Kg		84	59 - 120
2,4-Dinitrophenol	3320	2160		ug/Kg		65	41 - 146
2,4-Dinitrotoluene	1660	1440		ug/Kg		86	63 - 120
2,6-Dinitrotoluene	1660	1450		ug/Kg		87	66 - 120
2-Chloronaphthalene	1660	1380		ug/Kg		83	57 - 120
2-Chlorophenol	1660	1400		ug/Kg		84	53 - 120
2-Methylnaphthalene	1660	1500		ug/Kg		90	59 - 120
2-Methylphenol	1660	1470		ug/Kg		89	54 - 120
2-Nitroaniline	1660	1370		ug/Kg		82	61 - 120
2-Nitrophenol	1660	1330		ug/Kg		80	56 - 120
3,3'-Dichlorobenzidine	3320	2610		ug/Kg		78	54 - 120
3-Nitroaniline	1660	1180		ug/Kg		71	48 - 120
4,6-Dinitro-2-methylphenol	3320	3460		ug/Kg		104	49 - 122
4-Bromophenyl phenyl ether	1660	1510		ug/Kg		91	58 - 120
4-Chloro-3-methylphenol	1660	1490		ug/Kg		90	61 - 120
4-Chloroaniline	1660	1250		ug/Kg		75	38 - 120
4-Chlorophenyl phenyl ether	1660	1590		ug/Kg		96	63 - 124
4-Methylphenol	1660	1410		ug/Kg		85	55 - 120
4-Nitroaniline	1660	1470		ug/Kg		88	56 - 120
4-Nitrophenol	3320	3060		ug/Kg		92	43 - 147
Acenaphthene	1660	1500		ug/Kg		91	62 - 120
Acenaphthylene	1660	1550		ug/Kg		93	58 - 121
Acetophenone	1660	1330		ug/Kg		80	54 - 120
Anthracene	1660	1580		ug/Kg		95	62 - 120
Atrazine	3320	3070		ug/Kg		92	60 - 127
Benzaldehyde	3320	2420		ug/Kg		73	10 - 150
Benzo[a]anthracene	1660	1660		ug/Kg		100	65 - 120
Benzo[a]pyrene	1660	1530		ug/Kg		92	64 - 120
Benzo[b]fluoranthene	1660	1680		ug/Kg		101	64 - 120
Benzo[g,h,i]perylene	1660	1420		ug/Kg		86	45 - 145
Benzo[k]fluoranthene	1660	1500		ug/Kg		90	65 - 120
Biphenyl	1660	1460		ug/Kg		88	59 - 120
bis (2-chloroisopropyl) ether	1660	1190		ug/Kg		72	44 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151556-1

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

Lab Sample ID: LCS 480-467258/2-A

Matrix: Solid

Analysis Batch: 467474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1660	1390		ug/Kg		83	55 - 120
Bis(2-chloroethyl)ether	1660	1320		ug/Kg		79	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1730		ug/Kg		104	61 - 133
Butyl benzyl phthalate	1660	1550		ug/Kg		93	61 - 129
Caprolactam	3320	2960		ug/Kg		89	47 - 120
Carbazole	1660	1570		ug/Kg		94	65 - 120
Chrysene	1660	1660		ug/Kg		100	64 - 120
Dibenz(a,h)anthracene	1660	1420		ug/Kg		85	54 - 132
Dibenzofuran	1660	1530		ug/Kg		92	63 - 120
Diethyl phthalate	1660	1540		ug/Kg		93	66 - 120
Dimethyl phthalate	1660	1560		ug/Kg		94	65 - 124
Di-n-butyl phthalate	1660	1580		ug/Kg		95	58 - 130
Di-n-octyl phthalate	1660	1570		ug/Kg		95	57 - 133
Fluoranthene	1660	1520		ug/Kg		92	62 - 120
Fluorene	1660	1480		ug/Kg		89	63 - 120
Hexachlorobenzene	1660	1650		ug/Kg		100	60 - 120
Hexachlorobutadiene	1660	1470		ug/Kg		88	45 - 120
Hexachlorocyclopentadiene	1660	1550		ug/Kg		93	47 - 120
Hexachloroethane	1660	1230		ug/Kg		74	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1410		ug/Kg		85	56 - 134
Isophorone	1660	1430		ug/Kg		86	56 - 120
Naphthalene	1660	1430		ug/Kg		86	55 - 120
Nitrobenzene	1660	1300		ug/Kg		78	54 - 120
N-Nitrosodi-n-propylamine	1660	1340		ug/Kg		81	52 - 120
N-Nitrosodiphenylamine	1660	1560		ug/Kg		94	51 - 128
Pentachlorophenol	3320	4550	*	ug/Kg		137	51 - 120
Phenanthrene	1660	1570		ug/Kg		94	60 - 120
Phenol	1660	1370		ug/Kg		83	53 - 120
Pyrene	1660	1750		ug/Kg		105	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	99		54 - 120
2-Fluorobiphenyl (Surr)	92		60 - 120
2-Fluorophenol (Surr)	81		52 - 120
Nitrobenzene-d5 (Surr)	81		53 - 120
Phenol-d5 (Surr)	84		54 - 120
p-Terphenyl-d14 (Surr)	108		65 - 121

QC Association Summary

Client: AECOM

Job ID: 480-151556-1

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

GC/MS VOA

Prep Batch: 467114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151556-1	PWEXSWNA115	Total/NA	Solid	5035A_L	
480-151556-2	PWEXSWNA116	Total/NA	Solid	5035A_L	
480-151556-3	PWEXSWNA117	Total/NA	Solid	5035A_L	
480-151556-4	PWEXSWNA118	Total/NA	Solid	5035A_L	
480-151556-5	PWEXSWNA119	Total/NA	Solid	5035A_L	
480-151556-6	PWEXSWNA120	Total/NA	Solid	5035A_L	
480-151556-7	PWEXSWNA123	Total/NA	Solid	5035A_L	
480-151556-8	PWEXSWNA124	Total/NA	Solid	5035A_L	
480-151556-9	PWEXSWNA125	Total/NA	Solid	5035A_L	
MB 480-467114/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-467114/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 467119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151556-1	PWEXSWNA115	Total/NA	Solid	8260C	467114
480-151556-2	PWEXSWNA116	Total/NA	Solid	8260C	467114
480-151556-3	PWEXSWNA117	Total/NA	Solid	8260C	467114
480-151556-4	PWEXSWNA118	Total/NA	Solid	8260C	467114
480-151556-5	PWEXSWNA119	Total/NA	Solid	8260C	467114
480-151556-6	PWEXSWNA120	Total/NA	Solid	8260C	467114
480-151556-7	PWEXSWNA123	Total/NA	Solid	8260C	467114
480-151556-8	PWEXSWNA124	Total/NA	Solid	8260C	467114
480-151556-9	PWEXSWNA125	Total/NA	Solid	8260C	467114
MB 480-467114/2-A	Method Blank	Total/NA	Solid	8260C	467114
LCS 480-467114/1-A	Lab Control Sample	Total/NA	Solid	8260C	467114

GC/MS Semi VOA

Prep Batch: 467258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151556-1	PWEXSWNA115	Total/NA	Solid	3550C	
480-151556-2	PWEXSWNA116	Total/NA	Solid	3550C	
480-151556-3	PWEXSWNA117	Total/NA	Solid	3550C	
480-151556-4	PWEXSWNA118	Total/NA	Solid	3550C	
480-151556-5	PWEXSWNA119	Total/NA	Solid	3550C	
480-151556-6 - DL	PWEXSWNA120	Total/NA	Solid	3550C	
480-151556-6	PWEXSWNA120	Total/NA	Solid	3550C	
480-151556-7	PWEXSWNA123	Total/NA	Solid	3550C	
480-151556-8	PWEXSWNA124	Total/NA	Solid	3550C	
480-151556-9	PWEXSWNA125	Total/NA	Solid	3550C	
MB 480-467258/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-467258/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 467474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151556-1	PWEXSWNA115	Total/NA	Solid	8270D	467258
480-151556-2	PWEXSWNA116	Total/NA	Solid	8270D	467258
480-151556-3	PWEXSWNA117	Total/NA	Solid	8270D	467258
MB 480-467258/1-A	Method Blank	Total/NA	Solid	8270D	467258
LCS 480-467258/2-A	Lab Control Sample	Total/NA	Solid	8270D	467258

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QC Association Summary

Client: AECOM

Job ID: 480-151556-1

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

GC/MS Semi VOA

Analysis Batch: 467681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151556-4	PWEXSWNA118	Total/NA	Solid	8270D	467258
480-151556-5	PWEXSWNA119	Total/NA	Solid	8270D	467258
480-151556-6	PWEXSWNA120	Total/NA	Solid	8270D	467258
480-151556-7	PWEXSWNA123	Total/NA	Solid	8270D	467258
480-151556-8	PWEXSWNA124	Total/NA	Solid	8270D	467258
480-151556-9	PWEXSWNA125	Total/NA	Solid	8270D	467258

Analysis Batch: 467985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151556-6 - DL	PWEXSWNA120	Total/NA	Solid	8270D	467258

General Chemistry

Analysis Batch: 467453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151556-1	PWEXSWNA115	Total/NA	Solid	Moisture	
480-151556-2	PWEXSWNA116	Total/NA	Solid	Moisture	
480-151556-3	PWEXSWNA117	Total/NA	Solid	Moisture	
480-151556-4	PWEXSWNA118	Total/NA	Solid	Moisture	
480-151556-5	PWEXSWNA119	Total/NA	Solid	Moisture	
480-151556-6	PWEXSWNA120	Total/NA	Solid	Moisture	
480-151556-7	PWEXSWNA123	Total/NA	Solid	Moisture	
480-151556-8	PWEXSWNA124	Total/NA	Solid	Moisture	
480-151556-9	PWEXSWNA125	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA115

Lab Sample ID: 480-151556-1

Date Collected: 04/08/19 08:50

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA115

Lab Sample ID: 480-151556-1

Date Collected: 04/08/19 08:50

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 13:14	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467474	04/11/19 22:34	PJQ	TAL BUF

Client Sample ID: PWEXSWNA116

Lab Sample ID: 480-151556-2

Date Collected: 04/08/19 08:56

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA116

Lab Sample ID: 480-151556-2

Date Collected: 04/08/19 08:56

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 13:40	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467474	04/11/19 23:02	PJQ	TAL BUF

Client Sample ID: PWEXSWNA117

Lab Sample ID: 480-151556-3

Date Collected: 04/08/19 09:27

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA117

Lab Sample ID: 480-151556-3

Date Collected: 04/08/19 09:27

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 18:52	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467474	04/11/19 23:29	PJQ	TAL BUF

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Lab Chronicle

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA118

Lab Sample ID: 480-151556-4

Date Collected: 04/08/19 10:25

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA118

Lab Sample ID: 480-151556-4

Date Collected: 04/08/19 10:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 14:32	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467681	04/12/19 14:57	DMR	TAL BUF

Client Sample ID: PWEXSWNA119

Lab Sample ID: 480-151556-5

Date Collected: 04/08/19 10:32

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA119

Lab Sample ID: 480-151556-5

Date Collected: 04/08/19 10:32

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 14:58	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467681	04/12/19 15:24	DMR	TAL BUF

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 15:24	CDC	TAL BUF
Total/NA	Prep	3550C	DL		467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D	DL	50	467985	04/16/19 00:38	DMR	TAL BUF

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Lab Chronicle

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

Job ID: 480-151556-1

Client Sample ID: PWEXSWNA120

Lab Sample ID: 480-151556-6

Date Collected: 04/08/19 12:11

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		10	467681	04/12/19 15:52	DMR	TAL BUF

Client Sample ID: PWEXSWNA123

Lab Sample ID: 480-151556-7

Date Collected: 04/08/19 08:39

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA123

Lab Sample ID: 480-151556-7

Date Collected: 04/08/19 08:39

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 15:51	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467681	04/12/19 16:19	DMR	TAL BUF

Client Sample ID: PWEXSWNA124

Lab Sample ID: 480-151556-8

Date Collected: 04/08/19 09:31

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA124

Lab Sample ID: 480-151556-8

Date Collected: 04/08/19 09:31

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 16:16	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467681	04/12/19 16:47	DMR	TAL BUF

Client Sample ID: PWEXSWNA125

Lab Sample ID: 480-151556-9

Date Collected: 04/08/19 09:25

Matrix: Solid

Date Received: 04/09/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: AECOM

Job ID: 480-151556-1

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

Client Sample ID: PWEXSWNA125

Lab Sample ID: 480-151556-9

Date Collected: 04/08/19 09:25

Matrix: Solid

Date Received: 04/09/19 09:00

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467114	04/10/19 07:50	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467119	04/10/19 16:43	CDC	TAL BUF
Total/NA	Prep	3550C			467258	04/10/19 15:26	SGD	TAL BUF
Total/NA	Analysis	8270D		1	467681	04/12/19 17:14	DMR	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM

Job ID: 480-151556-1

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

Laboratory: Eurofins TestAmerica, Buffalo

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	10026	03-31-20

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

Method Summary

Client: AECOM

Job ID: 480-151556-1

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

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM

Job ID: 480-151556-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-151556-1	PWEXSWNA115	Solid	04/08/19 08:50	04/09/19 09:00
480-151556-2	PWEXSWNA116	Solid	04/08/19 08:56	04/09/19 09:00
480-151556-3	PWEXSWNA117	Solid	04/08/19 09:27	04/09/19 09:00
480-151556-4	PWEXSWNA118	Solid	04/08/19 10:25	04/09/19 09:00
480-151556-5	PWEXSWNA119	Solid	04/08/19 10:32	04/09/19 09:00
480-151556-6	PWEXSWNA120	Solid	04/08/19 12:11	04/09/19 09:00
480-151556-7	PWEXSWNA123	Solid	04/08/19 08:39	04/09/19 09:00
480-151556-8	PWEXSWNA124	Solid	04/08/19 09:31	04/09/19 09:00
480-151556-9	PWEXSWNA125	Solid	04/08/19 09:25	04/09/19 09:00

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 #:	
Address: 257 West Genesee Street Suite 400 City: Buffalo State, Zip: NY, 14202-2657 Phone: 518-428-4383(Tel) Email: George.Hermance@aecom.com Project Name: 60584654, Penn Yan Former MGP Phase 2 Site:		Due Date Requested: 4/11/2019 TAT Requested (days): 72 Hour PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015558 SSOW#:		Analysis Requested Preservation Codes: V - Hexane I - None 1 - AsNaO2 - Na2O4S - Na2SO3 - Na2SO4 H2SO4 TSP Dodecahydrate Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (W=water, B=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Total Number of containers	
PWEXSWNA115	4/8/19	0850	G	Solid	2
PWEXSWNA116	4/8/19	0856	G	Solid	2
PWEXSWNA117	4/8/19	0927	G	Solid	2
PWEXSWNA118	4/8/19	1025	G	Solid	2
PWEXSWNA119	4/8/19	1032	G	Solid	2
PWEXSWNA120	4/8/19	1211	G	Solid	2
PWEXSWNA123	4/8/19	0839	G	Solid	2
PWEXSWNA124	4/8/19	0931	G	Solid	2
PWEXSWNA125	4/8/19	0925	G	Solid	2
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Special Instructions/Note:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Empty Kit Relinquished by:	
Relinquished by: George Hermance		Date: 4/8/19		Method of Shipment:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-151556-1

Login Number: 151556

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

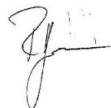
Laboratory Job ID: 480-151605-1

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:
4/17/2019 2:07:02 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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: 480-151605-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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.
X	Surrogate is outside control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
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.
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

Eurofins TestAmerica, Buffalo

Definitions/Glossary

Client: AECOM

Job ID: 480-151605-1

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

Glossary (Continued)

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

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: 480-151605-1

Job ID: 480-151605-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-151605-1

Receipt

The samples were received on 4/10/2019 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): PWEXSNA122 (480-151605-18)

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-467782 recovered above the upper control limit for 2-Hexanone and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PWEXSWNA121 (480-151605-4), PWEXBM04078 (480-151605-5), PWEXSWNA051 (480-151605-6), PWEXSWNA133 (480-151605-7), PWEXSWNA134 (480-151605-8), PWEXSWNA093 (480-151605-9), PWEXSWNA090 (480-151605-10), PWEXSWNA091 (480-151605-11), PWEXSWNA152 (480-151605-13), PWEXSWNA089 (480-151605-14), PWEXSWNA087 (480-151605-15), DUP01 (480-151605-17) and PWEXSNA122 (480-151605-18).

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-467780 and analytical batch 480-467782 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The following samples are impacted: (480-151605-B-4-B MS) and (480-151605-B-4-C MSD).

Method(s) 8260C: The following samples were analyzed using medium level soil analysis and diluted due to the abundance of non-target analytes: PWEXSWNA094 (480-151605-12), PWEXSWNA094 (480-151605-12[MS]), PWEXSWNA094 (480-151605-12[MSD]) and PWEXSWNA088 (480-151605-16). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: PWEXBM04074 (480-151605-1), PWEXSWNA121 (480-151605-4), PWEXSWNA090 (480-151605-10) and PWEXSWNA094 (480-151605-12). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-467494 and analytical batch 480-467742 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: PWEXSWNA093 (480-151605-9), PWEXSWNA094 (480-151605-12), PWEXSWNA094 (480-151605-12[MS]) and PWEXSWNA094 (480-151605-12[MSD]). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples were diluted due to target analytes: PWEXSWNA094 (480-151605-12[MS]) and PWEXSWNA094 (480-151605-12[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 480-467494 and analytical batch 480-467948 was outside control limits for Naphthalene. The associated laboratory control sample (LCS) was within control limits for Naphthalene.

Method(s) 8270D: The following sample was diluted due to the abundance of target analytes: PWEXSWNA094 (480-151605-12). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Case Narrative

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

Job ID: 480-151605-1

Job ID: 480-151605-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: PWEXSWNA088 (480-151605-16). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 480-467494 and analytical batch 480-467742 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-467494 and analytical batch 480-467742 were diluted below the method detection limit (MDL) for 2,4-Dinitrophenol; therefore, percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

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.

Detection Summary

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04074

Lab Sample ID: 480-151605-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.45	J B vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	0.74	J vs	5.8	0.40	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	6.2	J vs	12	0.97	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	380	J	960	140	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	900	J	960	120	ug/Kg	5	✱	8270D	Total/NA
Anthracene	2700		960	240	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	3400		960	96	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	2600		960	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	2900		960	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1300		960	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	1800		960	120	ug/Kg	5	✱	8270D	Total/NA
Biphenyl	450	J	960	140	ug/Kg	5	✱	8270D	Total/NA
Carbazole	280	J	960	110	ug/Kg	5	✱	8270D	Total/NA
Chrysene	2800		960	220	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	1900		960	110	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	6900		960	100	ug/Kg	5	✱	8270D	Total/NA
Fluorene	2700		960	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1300		960	120	ug/Kg	5	✱	8270D	Total/NA
Naphthalene	280	J	960	120	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	9700		960	140	ug/Kg	5	✱	8270D	Total/NA
Pyrene	5700		960	110	ug/Kg	5	✱	8270D	Total/NA

Client Sample ID: PWEXBM04077

Lab Sample ID: 480-151605-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J vs	27	4.6	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.38	J B vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	23	J	190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	45	J	190	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	40	J	190	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	45	J	190	41	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	69	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	23	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	32	J	190	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	32	J	190	22	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA131

Lab Sample ID: 480-151605-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.44	J B vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	19	J	190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	42	J	190	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	22	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	40	J	190	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	45	J	190	41	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	64	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	34	J	190	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	29	J	190	22	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA121

Lab Sample ID: 480-151605-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.45	J B vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	330	J	980	140	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	1100		980	130	ug/Kg	5	✱	8270D	Total/NA
Anthracene	9700		980	240	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	13000		980	98	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	9600		980	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	11000		980	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	5700		980	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	5700		980	130	ug/Kg	5	✱	8270D	Total/NA
Carbazole	800	J	980	110	ug/Kg	5	✱	8270D	Total/NA
Chrysene	9500		980	220	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	2100		980	110	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	28000		980	100	ug/Kg	5	✱	8270D	Total/NA
Fluorene	2100		980	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	5500		980	120	ug/Kg	5	✱	8270D	Total/NA
Naphthalene	330	J	980	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	20000		980	140	ug/Kg	5	✱	8270D	Total/NA
Pyrene	25000		980	110	ug/Kg	5	✱	8270D	Total/NA

Client Sample ID: PWEXBM04078

Lab Sample ID: 480-151605-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.47	J B vs	5.7	0.35	ug/Kg	1	✱	8260C	Total/NA
Anthracene	51	J	200	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	29	J	200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	49	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Chrysene	53	J	200	44	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	82	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	49	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	45	J	200	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA051

Lab Sample ID: 480-151605-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.51	J B vs	5.6	0.34	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: PWEXSWNA133

Lab Sample ID: 480-151605-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.40	J B vs	5.4	0.33	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: PWEXSWNA134

Lab Sample ID: 480-151605-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.47	J B vs	5.9	0.36	ug/Kg	1	✱	8260C	Total/NA
Anthracene	72	J	200	49	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	47	J	200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	57	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	50	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Chrysene	67	J	200	44	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	110	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	25	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	86	J	200	29	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM

Job ID: 480-151605-1

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

Client Sample ID: PWEXSWNA134 (Continued)

Lab Sample ID: 480-151605-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	68	J	200	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	32	vs	30	5.0	ug/Kg	1	✱	8260C	Total/NA
Benzene	2.2	J vs	5.9	0.29	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.53	J B vs	5.9	0.37	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	5.1	J vs	5.9	0.41	ug/Kg	1	✱	8260C	Total/NA
Isopropylbenzene	0.97	J vs	5.9	0.89	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	2.9	J vs	12	0.99	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	150	J	200	40	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	400		200	29	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	730		200	26	ug/Kg	1	✱	8270D	Total/NA
Anthracene	2300		200	49	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	2200		200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1700		200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	2200		200	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1100		200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	860		200	26	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	540		200	29	ug/Kg	1	✱	8270D	Total/NA
Carbazole	640		200	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1800		200	45	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	320		200	35	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	2100		200	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	5400		200	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	2000		200	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1000		200	25	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	460		200	26	ug/Kg	1	✱	8270D	Total/NA
Pyrene	4400		200	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene - DL	9700		2000	290	ug/Kg	10	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA090

Lab Sample ID: 480-151605-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	70	vs	29	4.8	ug/Kg	1	✱	8260C	Total/NA
Benzene	1.9	J vs	5.8	0.28	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.63	J B vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	2.5	J vs	5.8	0.40	ug/Kg	1	✱	8260C	Total/NA
Isopropylbenzene	1.1	J vs	5.8	0.87	ug/Kg	1	✱	8260C	Total/NA
Toluene	0.45	J vs	5.8	0.43	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	1.1	J vs	12	0.97	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	220	J	980	140	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	500	J	980	130	ug/Kg	5	✱	8270D	Total/NA
Anthracene	5700		980	240	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	7600		980	98	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	5800		980	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	7000		980	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	3100		980	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	3400		980	130	ug/Kg	5	✱	8270D	Total/NA
Biphenyl	1300		980	140	ug/Kg	5	✱	8270D	Total/NA
Carbazole	1700		980	120	ug/Kg	5	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA090 (Continued)

Lab Sample ID: 480-151605-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	5500		980	220	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	4800		980	120	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	14000		980	100	ug/Kg	5	✱	8270D	Total/NA
Fluorene	3300		980	120	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3200		980	120	ug/Kg	5	✱	8270D	Total/NA
Naphthalene	2000		980	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	22000		980	140	ug/Kg	5	✱	8270D	Total/NA
Pyrene	12000		980	120	ug/Kg	5	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA091

Lab Sample ID: 480-151605-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	25	J vs	28	4.8	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.49	J B vs	5.7	0.35	ug/Kg	1	✱	8260C	Total/NA
Acenaphthylene	39	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	73	J	190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	70	J	190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	83	J	190	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	65	J	190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	39	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	64	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Carbazole	34	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	91	J	190	43	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	70	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	220		190	20	ug/Kg	1	✱	8270D	Total/NA
Fluorene	52	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	43	J	190	24	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	200		190	28	ug/Kg	1	✱	8270D	Total/NA
Pyrene	170	J	190	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120	J	490	93	ug/Kg	4	✱	8260C	Total/NA
Ethylbenzene	730		490	140	ug/Kg	4	✱	8260C	Total/NA
Isopropylbenzene	130	J	490	74	ug/Kg	4	✱	8260C	Total/NA
Xylenes, Total	5800		980	270	ug/Kg	4	✱	8260C	Total/NA
2-Methylnaphthalene	6400	F2 F1	970	190	ug/Kg	5	✱	8270D	Total/NA
Acenaphthene	1400	F2 F1	970	140	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	3000	F2 F1	970	120	ug/Kg	5	✱	8270D	Total/NA
Anthracene	11000	F2	970	240	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	9900	F2	970	97	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	6700	F2 F1	970	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	9200	F2	970	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	3500	F2 F1	970	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	3200	F2 F1	970	120	ug/Kg	5	✱	8270D	Total/NA
Biphenyl	3300	F2 F1	970	140	ug/Kg	5	✱	8270D	Total/NA
Carbazole	3700	F2 F1	970	110	ug/Kg	5	✱	8270D	Total/NA
Chrysene	7000	F2 F1	970	220	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	11000	F2	970	110	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	23000	F2	970	100	ug/Kg	5	✱	8270D	Total/NA
Fluorene	10000	F2	970	110	ug/Kg	5	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA094 (Continued)

Lab Sample ID: 480-151605-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	3600	F2 F1	970	120	ug/Kg	5	✱	8270D	Total/NA
Pyrene	19000	F2	970	110	ug/Kg	5	✱	8270D	Total/NA
Naphthalene - DL	58000	F2	9700	1200	ug/Kg	50	✱	8270D	Total/NA
Phenanthrene - DL	47000	F2	9700	1400	ug/Kg	50	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA152

Lab Sample ID: 480-151605-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.48	J B vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	1.1	J vs	5.8	0.40	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	82	J	200	29	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	110	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	710		200	49	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1000		200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	790		200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	900		200	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	410		200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	510		200	25	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	240		200	29	ug/Kg	1	✱	8270D	Total/NA
Carbazole	290		200	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	740		200	44	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	840		200	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1500		200	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	670		200	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	410		200	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	160	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	2900		200	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	1400		200	23	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA089

Lab Sample ID: 480-151605-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.49	J B vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	30	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	32	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Anthracene	69	J	200	50	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	230		200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	180	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	230		200	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	87	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	110	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Chrysene	210		200	45	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	77	J	200	24	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	390		200	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	91	J	200	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	74	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	370		200	24	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM

Job ID: 480-151605-1

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

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151605-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J vs	27	4.5	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.47	J B vs	5.4	0.33	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	1.3	J vs	5.4	0.37	ug/Kg	1	✱	8260C	Total/NA
Styrene	0.29	J B vs	5.4	0.27	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	110	J	180	37	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	250		180	27	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	79	J	180	24	ug/Kg	1	✱	8270D	Total/NA
Anthracene	360		180	45	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	260		180	18	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	200		180	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	220		180	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	120	J	180	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	140	J	180	24	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	73	J	180	27	ug/Kg	1	✱	8270D	Total/NA
Carbazole	200		180	21	ug/Kg	1	✱	8270D	Total/NA
Chrysene	210		180	41	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	55	J	180	32	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	250		180	21	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	560		180	19	ug/Kg	1	✱	8270D	Total/NA
Fluorene	280		180	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	440		180	24	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	940		180	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	470		180	21	ug/Kg	1	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	200	J	490	140	ug/Kg	4	✱	8260C	Total/NA
Xylenes, Total	620	J	980	270	ug/Kg	4	✱	8260C	Total/NA
2-Methylnaphthalene	2000		190	39	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	1400		190	28	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	310		190	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	2600		190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	2100		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1300		190	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1800		190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	660		190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	730		190	25	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	710		190	28	ug/Kg	1	✱	8270D	Total/NA
Carbazole	480		190	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1500		190	43	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	2700		190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	5100		190	20	ug/Kg	1	✱	8270D	Total/NA
Fluorene	3100		190	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	680		190	24	ug/Kg	1	✱	8270D	Total/NA
Pyrene	4000		190	23	ug/Kg	1	✱	8270D	Total/NA
Naphthalene - DL	10000		1900	250	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene - DL	10000		1900	280	ug/Kg	10	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-151605-1

Client Sample ID: DUP01

Lab Sample ID: 480-151605-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.56	J B vs	5.8	0.36	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PWEXSNA122

Lab Sample ID: 480-151605-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.45	J B vs	5.7	0.35	ug/Kg	1	☼	8260C	Total/NA
Anthracene	92	J	190	48	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	150	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	130	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	140	J	190	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	65	J	190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	110	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150	J	190	43	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	310		190	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	68	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130	J	190	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	240		190	23	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04074

Lab Sample ID: 480-151605-1

Date Collected: 04/08/19 10:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.93	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,1-Dichloroethane	ND	vs	5.8	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Acetone	15	J vs	29	4.9	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Chloroform	0.45	J B vs	5.8	0.36	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Ethylbenzene	0.74	J vs	5.8	0.40	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Tetrachloroethene	ND	vs	5.8	0.77	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.59	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Vinyl chloride	ND	vs	5.8	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1
Xylenes, Total	6.2	J vs	12	0.97	ug/Kg	☼	04/12/19 08:09	04/12/19 19:41	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04074

Lab Sample ID: 480-151605-1

Date Collected: 04/08/19 10:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1,2,4-trimethyl-	14	T J N	ug/Kg	☼	10.15	95-63-6	04/12/19 08:09	04/12/19 19:41	1
Benzene, 1,3,5-trimethyl-	17	T J N	ug/Kg	☼	10.51	108-67-8	04/12/19 08:09	04/12/19 19:41	1
Indane	17	T J N	ug/Kg	☼	11.10	496-11-7	04/12/19 08:09	04/12/19 19:41	1
Benzene, 1,2,4,5-tetramethyl-	11	T J N	ug/Kg	☼	11.78	95-93-2	04/12/19 08:09	04/12/19 19:41	1
Benzofuran, 7-methyl-	6.3	T J N	ug/Kg	☼	11.87	17059-52-8	04/12/19 08:09	04/12/19 19:41	1
3-Phenylbut-1-ene	9.9	T J N	ug/Kg	☼	12.21	934-10-1	04/12/19 08:09	04/12/19 19:41	1
2-(2-Hydroxyphenyl)buta-1,3-diene	7.9	T J N	ug/Kg	☼	12.72	1000245-56-3	04/12/19 08:09	04/12/19 19:41	1
Naphthalene	45	T J N	ug/Kg	☼	12.81	91-20-3	04/12/19 08:09	04/12/19 19:41	1
Naphthalene, 1-methyl-	19	T J N	ug/Kg	☼	13.94	90-12-0	04/12/19 08:09	04/12/19 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126				04/12/19 08:09	04/12/19 19:41	1
4-Bromofluorobenzene (Surr)	101		72 - 126				04/12/19 08:09	04/12/19 19:41	1
Dibromofluoromethane (Surr)	105		60 - 140				04/12/19 08:09	04/12/19 19:41	1
Toluene-d8 (Surr)	100		71 - 125				04/12/19 08:09	04/12/19 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		960	260	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2,4,6-Trichlorophenol	ND		960	190	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2,4-Dichlorophenol	ND		960	100	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2,4-Dimethylphenol	ND		960	230	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2,4-Dinitrophenol	ND		9400	4400	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2,4-Dinitrotoluene	ND		960	200	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2,6-Dinitrotoluene	ND		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2-Chloronaphthalene	ND		960	160	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2-Chlorophenol	ND		960	180	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2-Methylnaphthalene	ND		960	190	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2-Methylphenol	ND		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
2-Nitrophenol	ND		960	270	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4,6-Dinitro-2-methylphenol	ND		1900	960	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4-Bromophenyl phenyl ether	ND		960	140	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4-Chloro-3-methylphenol	ND		960	240	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4-Chloroaniline	ND		960	240	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4-Chlorophenyl phenyl ether	ND		960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4-Methylphenol	ND		1900	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4-Nitroaniline	ND		1900	500	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
4-Nitrophenol	ND		1900	670	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Acenaphthene	380	J	960	140	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Acenaphthylene	900	J	960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Acetophenone	ND		960	130	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Anthracene	2700		960	240	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Atrazine	ND		960	330	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Benzaldehyde	ND		960	770	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Benzo[a]anthracene	3400		960	96	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Benzo[a]pyrene	2600		960	140	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Benzo[b]fluoranthene	2900		960	150	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04074

Lab Sample ID: 480-151605-1

Date Collected: 04/08/19 10:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	1300		960	100	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Benzo[k]fluoranthene	1800		960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Biphenyl	450	J	960	140	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
bis (2-chloroisopropyl) ether	ND		960	190	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Bis(2-chloroethoxy)methane	ND		960	200	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Bis(2-chloroethyl)ether	ND		960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Bis(2-ethylhexyl) phthalate	ND		960	330	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Butyl benzyl phthalate	ND		960	160	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Caprolactam	ND		960	290	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Carbazole	280	J	960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Chrysene	2800		960	220	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Dibenz(a,h)anthracene	ND		960	170	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Dibenzofuran	1900		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Diethyl phthalate	ND		960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Dimethyl phthalate	ND		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Di-n-butyl phthalate	ND		960	160	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Di-n-octyl phthalate	ND		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Fluoranthene	6900		960	100	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Fluorene	2700		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Hexachlorobenzene	ND		960	130	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Hexachlorobutadiene	ND		960	140	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Hexachlorocyclopentadiene	ND		960	130	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Hexachloroethane	ND		960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Indeno[1,2,3-cd]pyrene	1300		960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Isophorone	ND		960	200	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Naphthalene	280	J	960	120	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Nitrobenzene	ND		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
N-Nitrosodi-n-propylamine	ND		960	160	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
N-Nitrosodiphenylamine	ND		960	780	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Pentachlorophenol	ND		1900	960	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Phenanthrene	9700		960	140	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Phenol	ND		960	150	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5
Pyrene	5700		960	110	ug/Kg	☼	04/11/19 15:18	04/12/19 20:20	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2200	T J	ug/Kg	☼	2.87		04/11/19 15:18	04/12/19 20:20	5
Dibenzofuran, 4-methyl-	760	T J N	ug/Kg	☼	9.69	7320-53-8	04/11/19 15:18	04/12/19 20:20	5
Dibenzothiophene	1200	T J N	ug/Kg	☼	10.41	132-65-0	04/11/19 15:18	04/12/19 20:20	5
Phenanthrene, 1-methyl-	1200	T J N	ug/Kg	☼	11.03	832-69-9	04/11/19 15:18	04/12/19 20:20	5
1H-Cyclopropa[1,2,3-cd]phenanthrene, 1a,9b-dihydro-	1900	T J N	ug/Kg	☼	11.05	949-41-7	04/11/19 15:18	04/12/19 20:20	5
Phenanthrene, 2-methyl-	950	T J N	ug/Kg	☼	11.10	2531-84-2	04/11/19 15:18	04/12/19 20:20	5
Unknown	2800	T J	ug/Kg	☼	11.12		04/11/19 15:18	04/12/19 20:20	5
9,10-Bis(bromomethyl)anthracene	770	T J N	ug/Kg	☼	11.32	1000196-22-9	04/11/19 15:18	04/12/19 20:20	5
9,10-Dimethylanthracene	790	T J N	ug/Kg	☼	11.54	781-43-1	04/11/19 15:18	04/12/19 20:20	5
Unknown	830	T J	ug/Kg	☼	11.58		04/11/19 15:18	04/12/19 20:20	5
Fluoranthene, 2-methyl-	1200	T J N	ug/Kg	☼	12.18	33543-31-6	04/11/19 15:18	04/12/19 20:20	5
11H-Benzo[b]fluorene	900	T J N	ug/Kg	☼	12.24	243-17-4	04/11/19 15:18	04/12/19 20:20	5
Unknown	970	T J	ug/Kg	☼	12.74		04/11/19 15:18	04/12/19 20:20	5

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04074

Lab Sample ID: 480-151605-1

Date Collected: 04/08/19 10:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzo[e]pyrene	960	T J N	ug/Kg	☼	13.85	192-97-2	04/11/19 15:18	04/12/19 20:20	5
Perylene	1400	T J N	ug/Kg	☼	13.98	198-55-0	04/11/19 15:18	04/12/19 20:20	5
Unknown	2100	T J	ug/Kg	☼	14.18		04/11/19 15:18	04/12/19 20:20	5
Unknown	1100	T J	ug/Kg	☼	14.96		04/11/19 15:18	04/12/19 20:20	5
Unknown	950	T J	ug/Kg	☼	15.18		04/11/19 15:18	04/12/19 20:20	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	104		54 - 120				04/11/19 15:18	04/12/19 20:20	5
2-Fluorobiphenyl (Surr)	87		60 - 120				04/11/19 15:18	04/12/19 20:20	5
2-Fluorophenol (Surr)	84		52 - 120				04/11/19 15:18	04/12/19 20:20	5
Nitrobenzene-d5 (Surr)	91		53 - 120				04/11/19 15:18	04/12/19 20:20	5
Phenol-d5 (Surr)	92		54 - 120				04/11/19 15:18	04/12/19 20:20	5
p-Terphenyl-d14 (Surr)	101		65 - 121				04/11/19 15:18	04/12/19 20:20	5

Client Sample ID: PWEXBM04077

Lab Sample ID: 480-151605-2

Date Collected: 04/08/19 12:05

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.2	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,1,2-Trichloroethane	ND	vs	5.5	0.71	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.33	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,2-Dibromoethane	ND	vs	5.5	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,2-Dichloroethane	ND	vs	5.5	0.27	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,2-Dichloropropane	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
1,4-Dichlorobenzene	ND	vs	5.5	0.76	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Acetone	5.1	J vs	27	4.6	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Bromodichloromethane	ND	vs	5.5	0.73	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Bromoform	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Bromomethane	ND	vs	5.5	0.49	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Carbon disulfide	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Chlorobenzene	ND	vs	5.5	0.72	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Chloroform	0.38	J B vs	5.5	0.34	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04077

Lab Sample ID: 480-151605-2

Date Collected: 04/08/19 12:05

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND	vs	5.5	0.76	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Dibromochloromethane	ND	vs	5.5	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Isopropylbenzene	ND	vs	5.5	0.82	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Methylcyclohexane	ND	vs	5.5	0.83	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Methylene Chloride	ND	vs	5.5	2.5	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Styrene	ND	vs	5.5	0.27	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Tetrachloroethene	ND	vs	5.5	0.73	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Toluene	ND	vs	5.5	0.41	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.56	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1
Xylenes, Total	ND	vs	11	0.92	ug/Kg	☼	04/12/19 08:09	04/12/19 20:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5.9	T J	ug/Kg	☼	8.92		04/12/19 08:09	04/12/19 20:07	1
Unknown	8.8	T J	ug/Kg	☼	12.52		04/12/19 08:09	04/12/19 20:07	1
Dibenzofuran	7.5	T J N	ug/Kg	☼	13.23	132-64-9	04/12/19 08:09	04/12/19 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	04/12/19 08:09	04/12/19 20:07	1
4-Bromofluorobenzene (Surr)	99		72 - 126	04/12/19 08:09	04/12/19 20:07	1
Dibromofluoromethane (Surr)	104		60 - 140	04/12/19 08:09	04/12/19 20:07	1
Toluene-d8 (Surr)	101		71 - 125	04/12/19 08:09	04/12/19 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	50	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2,4,6-Trichlorophenol	ND		190	37	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2,4-Dinitrophenol	ND		1800	860	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2,4-Dinitrotoluene	ND		190	38	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2-Chlorophenol	ND		190	34	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2-Methylnaphthalene	ND		190	37	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2-Nitroaniline	ND		360	27	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
2-Nitrophenol	ND		190	52	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
3-Nitroaniline	ND		360	51	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
4-Bromophenyl phenyl ether	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04077

Lab Sample ID: 480-151605-2

Date Collected: 04/08/19 12:05

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
4-Methylphenol	ND		360	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
4-Nitroaniline	ND		360	97	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Acenaphthene	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Acenaphthylene	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Acetophenone	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Anthracene	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Atrazine	ND		190	64	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Benzo[a]anthracene	23	J	190	19	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Benzo[a]pyrene	45	J	190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Benzo[b]fluoranthene	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Benzo[k]fluoranthene	40	J	190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Biphenyl	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
bis (2-chloroisopropyl) ether	ND		190	37	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Bis(2-chloroethoxy)methane	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Bis(2-ethylhexyl) phthalate	ND		190	63	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Caprolactam	ND		190	56	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Carbazole	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Chrysene	45	J	190	41	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Fluoranthene	69	J	190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Fluorene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Hexachlorobutadiene	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Hexachloroethane	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Indeno[1,2,3-cd]pyrene	23	J	190	23	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Isophorone	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Naphthalene	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Phenanthrene	32	J	190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Phenol	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1
Pyrene	32	J	190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 20:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7600	T J	ug/Kg	☼	1.67		04/11/19 15:18	04/12/19 20:45	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04077

Lab Sample ID: 480-151605-2

Date Collected: 04/08/19 12:05

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 90.4

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2000	T J	ug/Kg	☼	2.86		04/11/19 15:18	04/12/19 20:45	1
Column Bleed	590	T J	ug/Kg	☼	4.85		04/11/19 15:18	04/12/19 20:45	1
Unknown	170	T J	ug/Kg	☼	11.16		04/11/19 15:18	04/12/19 20:45	1
Unknown	240	T J	ug/Kg	☼	11.19		04/11/19 15:18	04/12/19 20:45	1
Unknown	150	T J	ug/Kg	☼	11.23		04/11/19 15:18	04/12/19 20:45	1
Unknown	250	T J	ug/Kg	☼	11.30		04/11/19 15:18	04/12/19 20:45	1
Unknown	220	T J	ug/Kg	☼	11.35		04/11/19 15:18	04/12/19 20:45	1
Cyclic octaatomic sulfur	190	T J N	ug/Kg	☼	11.71	10544-50-0	04/11/19 15:18	04/12/19 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		54 - 120				04/11/19 15:18	04/12/19 20:45	1
2-Fluorobiphenyl (Surr)	87		60 - 120				04/11/19 15:18	04/12/19 20:45	1
2-Fluorophenol (Surr)	90		52 - 120				04/11/19 15:18	04/12/19 20:45	1
Nitrobenzene-d5 (Surr)	88		53 - 120				04/11/19 15:18	04/12/19 20:45	1
Phenol-d5 (Surr)	89		54 - 120				04/11/19 15:18	04/12/19 20:45	1
p-Terphenyl-d14 (Surr)	91		65 - 121				04/11/19 15:18	04/12/19 20:45	1

Client Sample ID: PWEXSWNA131

Lab Sample ID: 480-151605-3

Date Collected: 04/09/19 12:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,1,2-Trichloroethane	ND	vs	5.5	0.71	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.33	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,2-Dibromoethane	ND	vs	5.5	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,2-Dichloropropane	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Acetone	ND	vs	27	4.6	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Bromodichloromethane	ND	vs	5.5	0.73	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Bromoform	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Bromomethane	ND	vs	5.5	0.49	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Carbon disulfide	ND	vs	5.5	2.7	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Chlorobenzene	ND	vs	5.5	0.72	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Chloroform	0.44	J B vs	5.5	0.34	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA131

Lab Sample ID: 480-151605-3

Date Collected: 04/09/19 12:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Dibromochloromethane	ND	vs	5.5	0.70	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Dichlorodifluoromethane	ND	vs	5.5	0.45	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Methylcyclohexane	ND	vs	5.5	0.83	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Methylene Chloride	ND	vs	5.5	2.5	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Styrene	ND	vs	5.5	0.27	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Toluene	ND	vs	5.5	0.41	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1
Xylenes, Total	ND	vs	11	0.92	ug/Kg	☼	04/12/19 08:09	04/12/19 20:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/12/19 08:09	04/12/19 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126				04/12/19 08:09	04/12/19 20:33	1
4-Bromofluorobenzene (Surr)	95		72 - 126				04/12/19 08:09	04/12/19 20:33	1
Dibromofluoromethane (Surr)	104		60 - 140				04/12/19 08:09	04/12/19 20:33	1
Toluene-d8 (Surr)	101		71 - 125				04/12/19 08:09	04/12/19 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	50	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2,4,6-Trichlorophenol	ND		190	37	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2,4-Dinitrophenol	ND		1800	850	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2,4-Dinitrotoluene	ND		190	38	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2-Chloronaphthalene	ND		190	30	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2-Chlorophenol	ND		190	34	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2-Methylnaphthalene	ND		190	37	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2-Nitroaniline	ND		360	27	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
2-Nitrophenol	ND		190	52	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
3-Nitroaniline	ND		360	51	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
4-Bromophenyl phenyl ether	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA131

Lab Sample ID: 480-151605-3

Date Collected: 04/09/19 12:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
4-Methylphenol	ND		360	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
4-Nitroaniline	ND		360	97	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Acenaphthene	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Acenaphthylene	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Acetophenone	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Anthracene	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Atrazine	ND		190	64	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Benzo[a]anthracene	19	J	190	19	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Benzo[a]pyrene	42	J	190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Benzo[b]fluoranthene	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Benzo[g,h,i]perylene	22	J	190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Benzo[k]fluoranthene	40	J	190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Biphenyl	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
bis (2-chloroisopropyl) ether	ND		190	37	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Bis(2-chloroethoxy)methane	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Bis(2-ethylhexyl) phthalate	ND		190	63	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Butyl benzyl phthalate	ND		190	30	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Caprolactam	ND		190	56	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Carbazole	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Chrysene	45	J	190	41	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Fluoranthene	64	J	190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Fluorene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Hexachlorobutadiene	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Hexachloroethane	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Isophorone	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Naphthalene	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Phenanthrene	34	J	190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Phenol	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1
Pyrene	29	J	190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:10	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA131

Lab Sample ID: 480-151605-3

Date Collected: 04/09/19 12:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 89.9

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	380	T J	ug/Kg	☼	1.53		04/11/19 15:18	04/12/19 21:10	1
Unknown	9300	T J	ug/Kg	☼	1.67		04/11/19 15:18	04/12/19 21:10	1
Unknown	2200	T J	ug/Kg	☼	2.85		04/11/19 15:18	04/12/19 21:10	1
Column Bleed	510	T J	ug/Kg	☼	4.85		04/11/19 15:18	04/12/19 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		54 - 120				04/11/19 15:18	04/12/19 21:10	1
2-Fluorobiphenyl (Surr)	87		60 - 120				04/11/19 15:18	04/12/19 21:10	1
2-Fluorophenol (Surr)	83		52 - 120				04/11/19 15:18	04/12/19 21:10	1
Nitrobenzene-d5 (Surr)	86		53 - 120				04/11/19 15:18	04/12/19 21:10	1
Phenol-d5 (Surr)	85		54 - 120				04/11/19 15:18	04/12/19 21:10	1
p-Terphenyl-d14 (Surr)	92		65 - 121				04/11/19 15:18	04/12/19 21:10	1

Client Sample ID: PWEXSWNA121

Lab Sample ID: 480-151605-4

Date Collected: 04/09/19 15:31

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,1,2,2-Tetrachloroethane	ND	F1 vs	5.8	0.93	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,1,2-Trichloroethane	ND	F1 vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,1-Dichloroethane	ND	vs	5.8	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,1-Dichloroethene	ND	vs	5.8	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,2,4-Trichlorobenzene	ND	F1 vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,2-Dibromo-3-Chloropropane	ND	F1 vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,2-Dibromoethane	ND	F1 vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,2-Dichlorobenzene	ND	F1 vs	5.8	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,3-Dichlorobenzene	ND	F1 vs	5.8	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
1,4-Dichlorobenzene	ND	F1 vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
2-Butanone (MEK)	ND	F1 vs	29	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Acetone	ND	F1 vs	29	4.8	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Bromodichloromethane	ND	F1 vs	5.8	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Chlorobenzene	ND	F1 vs	5.8	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Chloroform	0.45	J B vs	5.8	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
cis-1,3-Dichloropropene	ND	F1 vs	5.8	0.83	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA121

Lab Sample ID: 480-151605-4

Date Collected: 04/09/19 15:31

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Ethylbenzene	ND	F1 vs	5.8	0.40	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Isopropylbenzene	ND	F1 vs	5.8	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Methylene Chloride	ND	vs	5.8	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Styrene	ND	F1 vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Tetrachloroethene	ND	vs	5.8	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.59	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Trichlorofluoromethane	ND	vs	5.8	0.54	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Vinyl chloride	ND	vs	5.8	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1
Xylenes, Total	ND	F1 vs	12	0.97	ug/Kg	☼	04/13/19 06:49	04/13/19 11:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/13/19 06:49	04/13/19 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	04/13/19 06:49	04/13/19 11:34	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/13/19 06:49	04/13/19 11:34	1
Dibromofluoromethane (Surr)	106		60 - 140	04/13/19 06:49	04/13/19 11:34	1
Toluene-d8 (Surr)	101		71 - 125	04/13/19 06:49	04/13/19 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		980	260	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2,4,6-Trichlorophenol	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2,4-Dichlorophenol	ND		980	100	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2,4-Dimethylphenol	ND		980	240	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2,4-Dinitrophenol	ND		9500	4500	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2,4-Dinitrotoluene	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2,6-Dinitrotoluene	ND		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2-Chloronaphthalene	ND		980	160	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2-Chlorophenol	ND		980	180	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2-Methylnaphthalene	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2-Methylphenol	ND		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
2-Nitrophenol	ND		980	280	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
4,6-Dinitro-2-methylphenol	ND		1900	980	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
4-Bromophenyl phenyl ether	ND		980	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
4-Chloro-3-methylphenol	ND		980	240	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
4-Chloroaniline	ND		980	240	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
4-Chlorophenyl phenyl ether	ND		980	120	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
4-Methylphenol	ND		1900	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
4-Nitroaniline	ND		1900	510	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA121

Lab Sample ID: 480-151605-4

Date Collected: 04/09/19 15:31

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		1900	680	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Acenaphthene	330	J	980	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Acenaphthylene	1100		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Acetophenone	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Anthracene	9700		980	240	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Atrazine	ND		980	340	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Benzaldehyde	ND		980	770	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Benzo[a]anthracene	13000		980	98	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Benzo[a]pyrene	9600		980	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Benzo[b]fluoranthene	11000		980	150	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Benzo[g,h,i]perylene	5700		980	100	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Benzo[k]fluoranthene	5700		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Biphenyl	ND		980	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
bis (2-chloroisopropyl) ether	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Bis(2-chloroethoxy)methane	ND		980	210	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Bis(2-chloroethyl)ether	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Bis(2-ethylhexyl) phthalate	ND		980	330	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Butyl benzyl phthalate	ND		980	160	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Caprolactam	ND		980	290	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Carbazole	800	J	980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Chrysene	9500		980	220	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Dibenz(a,h)anthracene	ND		980	170	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Dibenzofuran	2100		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Diethyl phthalate	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Dimethyl phthalate	ND		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Di-n-butyl phthalate	ND		980	170	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Di-n-octyl phthalate	ND		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Fluoranthene	28000		980	100	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Fluorene	2100		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Hexachlorobenzene	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Hexachlorobutadiene	ND		980	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Hexachlorocyclopentadiene	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Hexachloroethane	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Indeno[1,2,3-cd]pyrene	5500		980	120	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Isophorone	ND		980	210	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Naphthalene	330	J	980	130	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Nitrobenzene	ND		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
N-Nitrosodi-n-propylamine	ND		980	170	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
N-Nitrosodiphenylamine	ND		980	790	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Pentachlorophenol	ND		1900	980	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Phenanthrene	20000		980	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Phenol	ND		980	150	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5
Pyrene	25000		980	110	ug/Kg	☼	04/11/19 15:18	04/12/19 21:35	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2000	T J	ug/Kg	☼	2.86		04/11/19 15:18	04/12/19 21:35	5
Dibenzothiophene	1900	T J N	ug/Kg	☼	10.40	132-65-0	04/11/19 15:18	04/12/19 21:35	5
Phenanthrene, 1-methyl-	2300	T J N	ug/Kg	☼	11.02	832-69-9	04/11/19 15:18	04/12/19 21:35	5
Anthracene, 2-methyl-	3300	T J N	ug/Kg	☼	11.05	613-12-7	04/11/19 15:18	04/12/19 21:35	5
Unknown	5400	T J	ug/Kg	☼	11.12		04/11/19 15:18	04/12/19 21:35	5

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA121

Lab Sample ID: 480-151605-4

Date Collected: 04/09/19 15:31

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.0

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Phenylnaphthalene	2400	T J N	ug/Kg	☼	11.32	35465-71-5	04/11/19 15:18	04/12/19 21:35	5
Phenanthrene, 2,5-dimethyl-	1400	T J N	ug/Kg	☼	11.54	3674-66-6	04/11/19 15:18	04/12/19 21:35	5
Cyclopenta(def)phenanthrenone	2100	T J N	ug/Kg	☼	11.61	5737-13-3	04/11/19 15:18	04/12/19 21:35	5
Pyrene, 1-methyl-	1300	T J N	ug/Kg	☼	12.18	2381-21-7	04/11/19 15:18	04/12/19 21:35	5
Benzo[e]pyrene	4400	T J N	ug/Kg	☼	13.98	192-97-2	04/11/19 15:18	04/12/19 21:35	5
11H-Indeno[2,1-a]phenanthrene	2200	T J N	ug/Kg	☼	14.18	220-97-3	04/11/19 15:18	04/12/19 21:35	5
Unknown	1800	T J	ug/Kg	☼	14.76		04/11/19 15:18	04/12/19 21:35	5
Benzo[b]triphenylene	3000	T J N	ug/Kg	☼	14.97	215-58-7	04/11/19 15:18	04/12/19 21:35	5
N-[4-Amino-3-nitrophenyl]	2400	T J N	ug/Kg	☼	15.19	1000213-60-7	04/11/19 15:18	04/12/19 21:35	5
-N-nitroso-4-chlorobenzylamine									
Dibenz(a,e)aceanthrylene	2400	T J N	ug/Kg	☼	16.11	5385-75-1	04/11/19 15:18	04/12/19 21:35	5
1,2:3,4-Dibenzopyrene	2200	T J N	ug/Kg	☼	16.19	191-30-0	04/11/19 15:18	04/12/19 21:35	5
Androst-4-ene-3,17-dione,	1400	T J N	ug/Kg	☼	16.60	566-08-5	04/11/19 15:18	04/12/19 21:35	5
15-hydroxy-, (15.alpha.)-									
Unknown	2700	T J	ug/Kg	☼	16.65		04/11/19 15:18	04/12/19 21:35	5
Unknown	1400	T J	ug/Kg	☼	16.72		04/11/19 15:18	04/12/19 21:35	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	111		54 - 120				04/11/19 15:18	04/12/19 21:35	5
2-Fluorobiphenyl (Surr)	94		60 - 120				04/11/19 15:18	04/12/19 21:35	5
2-Fluorophenol (Surr)	89		52 - 120				04/11/19 15:18	04/12/19 21:35	5
Nitrobenzene-d5 (Surr)	98		53 - 120				04/11/19 15:18	04/12/19 21:35	5
Phenol-d5 (Surr)	95		54 - 120				04/11/19 15:18	04/12/19 21:35	5
p-Terphenyl-d14 (Surr)	102		65 - 121				04/11/19 15:18	04/12/19 21:35	5

Client Sample ID: PWEXBM04078

Lab Sample ID: 480-151605-5

Date Collected: 04/09/19 12:02

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.92	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Acetone	ND	vs	29	4.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04078

Lab Sample ID: 480-151605-5

Date Collected: 04/09/19 12:02

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND	vs	5.7	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Chloroform	0.47	J B vs	5.7	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Methyl acetate	ND	vs	29	3.4	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Styrene	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Tetrachloroethene	ND	vs	5.7	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	04/13/19 06:49	04/13/19 12:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/13/19 06:49	04/13/19 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	04/13/19 06:49	04/13/19 12:00	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/13/19 06:49	04/13/19 12:00	1
Dibromofluoromethane (Surr)	106		60 - 140	04/13/19 06:49	04/13/19 12:00	1
Toluene-d8 (Surr)	101		71 - 125	04/13/19 06:49	04/13/19 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04078

Lab Sample ID: 480-151605-5

Date Collected: 04/09/19 12:02

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Acenaphthylene	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Acetophenone	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Anthracene	51	J	200	48	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Atrazine	ND		200	68	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Benzo[a]anthracene	29	J	200	20	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Benzo[a]pyrene	49	J	200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Biphenyl	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Caprolactam	ND		200	59	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Carbazole	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Chrysene	53	J	200	44	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Dibenzofuran	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Fluoranthene	82	J	200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Fluorene	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Hexachlorobenzene	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Hexachlorocyclopentadiene	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Hexachloroethane	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Isophorone	ND		200	41	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Naphthalene	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04078

Lab Sample ID: 480-151605-5

Date Collected: 04/09/19 12:02

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		200	22	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Phenanthrene	49	J	200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Phenol	ND		200	30	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1
Pyrene	45	J	200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 21:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	680	T J	ug/Kg	☼	1.53		04/11/19 15:18	04/12/19 21:59	1
Unknown	10000	T J	ug/Kg	☼	1.68		04/11/19 15:18	04/12/19 21:59	1
Unknown	2200	T J	ug/Kg	☼	2.86		04/11/19 15:18	04/12/19 21:59	1
Column Bleed	1400	T J	ug/Kg	☼	4.87		04/11/19 15:18	04/12/19 21:59	1
Column Bleed	260	T J	ug/Kg	☼	6.31		04/11/19 15:18	04/12/19 21:59	1
Unknown	430	T J	ug/Kg	☼	14.17		04/11/19 15:18	04/12/19 21:59	1
Unknown	170	T J	ug/Kg	☼	14.80		04/11/19 15:18	04/12/19 21:59	1
Unknown	160	T J	ug/Kg	☼	15.17		04/11/19 15:18	04/12/19 21:59	1
Unknown	230	T J	ug/Kg	☼	15.30		04/11/19 15:18	04/12/19 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		54 - 120	04/11/19 15:18	04/12/19 21:59	1
2-Fluorobiphenyl (Surr)	94		60 - 120	04/11/19 15:18	04/12/19 21:59	1
2-Fluorophenol (Surr)	88		52 - 120	04/11/19 15:18	04/12/19 21:59	1
Nitrobenzene-d5 (Surr)	96		53 - 120	04/11/19 15:18	04/12/19 21:59	1
Phenol-d5 (Surr)	93		54 - 120	04/11/19 15:18	04/12/19 21:59	1
p-Terphenyl-d14 (Surr)	100		65 - 121	04/11/19 15:18	04/12/19 21:59	1

Client Sample ID: PWEXSWNA051

Lab Sample ID: 480-151605-6

Date Collected: 04/09/19 11:13

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.40	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6	0.90	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,1,2-Trichloroethane	ND	vs	5.6	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,1-Dichloroethane	ND	vs	5.6	0.68	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,1-Dichloroethene	ND	vs	5.6	0.68	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,2,4-Trichlorobenzene	ND	vs	5.6	0.34	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,2-Dibromoethane	ND	vs	5.6	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,2-Dichlorobenzene	ND	vs	5.6	0.44	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,3-Dichlorobenzene	ND	vs	5.6	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
1,4-Dichlorobenzene	ND	vs	5.6	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
2-Butanone (MEK)	ND	vs	28	2.0	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA051

Lab Sample ID: 480-151605-6

Date Collected: 04/09/19 11:13

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	vs	28	4.7	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Benzene	ND	vs	5.6	0.27	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Bromodichloromethane	ND	vs	5.6	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Bromomethane	ND	vs	5.6	0.50	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Carbon disulfide	ND	vs	5.6	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Carbon tetrachloride	ND	vs	5.6	0.54	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Chlorobenzene	ND	vs	5.6	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Chloroethane	ND	vs	5.6	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Chloroform	0.51	J B vs	5.6	0.34	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.80	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Cyclohexane	ND	vs	5.6	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Dibromochloromethane	ND	vs	5.6	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Dichlorodifluoromethane	ND	vs	5.6	0.46	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Ethylbenzene	ND	vs	5.6	0.38	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Isopropylbenzene	ND	vs	5.6	0.84	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Methylcyclohexane	ND	vs	5.6	0.85	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Methylene Chloride	ND	vs	5.6	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Tetrachloroethene	ND	vs	5.6	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Toluene	ND	vs	5.6	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.57	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
trans-1,3-Dichloropropene	ND	vs	5.6	2.4	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Trichloroethene	ND	vs	5.6	1.2	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Vinyl chloride	ND	vs	5.6	0.68	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1
Xylenes, Total	ND	vs	11	0.93	ug/Kg	☼	04/13/19 06:49	04/13/19 12:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/13/19 06:49	04/13/19 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		64 - 126	04/13/19 06:49	04/13/19 12:26	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/13/19 06:49	04/13/19 12:26	1
Dibromofluoromethane (Surr)	107		60 - 140	04/13/19 06:49	04/13/19 12:26	1
Toluene-d8 (Surr)	100		71 - 125	04/13/19 06:49	04/13/19 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2,4-Dinitrophenol	ND		1900	870	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA051

Lab Sample ID: 480-151605-6

Date Collected: 04/09/19 11:13

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4-Methylphenol	ND		370	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4-Nitroaniline	ND		370	99	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Acenaphthene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Acenaphthylene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Acetophenone	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Anthracene	ND		190	47	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Atrazine	ND		190	66	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Biphenyl	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Caprolactam	ND		190	57	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Carbazole	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Chrysene	ND		190	42	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Fluoranthene	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Fluorene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA051

Lab Sample ID: 480-151605-6

Date Collected: 04/09/19 11:13

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		190	40	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Naphthalene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Phenanthrene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Phenol	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1
Pyrene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	820	T J	ug/Kg	☼	1.51		04/11/19 15:18	04/12/19 22:24	1
Unknown	8000	T J	ug/Kg	☼	1.66		04/11/19 15:18	04/12/19 22:24	1
Unknown	2100	T J	ug/Kg	☼	2.84		04/11/19 15:18	04/12/19 22:24	1
Column Bleed	990	T J	ug/Kg	☼	4.85		04/11/19 15:18	04/12/19 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120	04/11/19 15:18	04/12/19 22:24	1
2-Fluorobiphenyl (Surr)	86		60 - 120	04/11/19 15:18	04/12/19 22:24	1
2-Fluorophenol (Surr)	84		52 - 120	04/11/19 15:18	04/12/19 22:24	1
Nitrobenzene-d5 (Surr)	87		53 - 120	04/11/19 15:18	04/12/19 22:24	1
Phenol-d5 (Surr)	86		54 - 120	04/11/19 15:18	04/12/19 22:24	1
p-Terphenyl-d14 (Surr)	93		65 - 121	04/11/19 15:18	04/12/19 22:24	1

Client Sample ID: PWEXSWNA133

Lab Sample ID: 480-151605-7

Date Collected: 04/09/19 12:27

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.4	0.39	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,1,2,2-Tetrachloroethane	ND	vs	5.4	0.88	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.4	1.2	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,1,2-Trichloroethane	ND	vs	5.4	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,1-Dichloroethane	ND	vs	5.4	0.66	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,2,4-Trichlorobenzene	ND	vs	5.4	0.33	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,2-Dibromoethane	ND	vs	5.4	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,2-Dichloropropane	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
1,4-Dichlorobenzene	ND	vs	5.4	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Acetone	ND	vs	27	4.6	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Benzene	ND	vs	5.4	0.27	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Bromodichloromethane	ND	vs	5.4	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA133

Lab Sample ID: 480-151605-7

Date Collected: 04/09/19 12:27

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Bromomethane	ND	vs	5.4	0.49	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Carbon disulfide	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Chloroethane	ND	vs	5.4	1.2	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Chloroform	0.40	J B vs	5.4	0.33	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Chloromethane	ND	vs	5.4	0.33	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
cis-1,2-Dichloroethene	ND	vs	5.4	0.69	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
cis-1,3-Dichloropropene	ND	vs	5.4	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Cyclohexane	ND	vs	5.4	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Dibromochloromethane	ND	vs	5.4	0.69	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Dichlorodifluoromethane	ND	vs	5.4	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Ethylbenzene	ND	vs	5.4	0.37	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Isopropylbenzene	ND	vs	5.4	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Methylcyclohexane	ND	vs	5.4	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Methylene Chloride	ND	vs	5.4	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Styrene	ND	vs	5.4	0.27	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Tetrachloroethene	ND	vs	5.4	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Toluene	ND	vs	5.4	0.41	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
trans-1,2-Dichloroethene	ND	vs	5.4	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
trans-1,3-Dichloropropene	ND	vs	5.4	2.4	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Trichlorofluoromethane	ND	vs	5.4	0.51	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Vinyl chloride	ND	vs	5.4	0.66	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1
Xylenes, Total	ND	vs	11	0.91	ug/Kg	☼	04/13/19 06:49	04/13/19 12:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/13/19 06:49	04/13/19 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		64 - 126	04/13/19 06:49	04/13/19 12:52	1
4-Bromofluorobenzene (Surr)	96		72 - 126	04/13/19 06:49	04/13/19 12:52	1
Dibromofluoromethane (Surr)	107		60 - 140	04/13/19 06:49	04/13/19 12:52	1
Toluene-d8 (Surr)	100		71 - 125	04/13/19 06:49	04/13/19 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	50	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2,4,6-Trichlorophenol	ND		180	37	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2,4-Dichlorophenol	ND		180	19	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2,4-Dimethylphenol	ND		180	44	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2,4-Dinitrophenol	ND		1800	850	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2,4-Dinitrotoluene	ND		180	38	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2,6-Dinitrotoluene	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2-Chloronaphthalene	ND		180	30	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2-Chlorophenol	ND		180	33	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2-Methylnaphthalene	ND		180	37	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA133

Lab Sample ID: 480-151605-7

Date Collected: 04/09/19 12:27

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2-Nitroaniline	ND		360	27	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
2-Nitrophenol	ND		180	52	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
3-Nitroaniline	ND		360	51	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4,6-Dinitro-2-methylphenol	ND		360	180	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4-Bromophenyl phenyl ether	ND		180	26	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4-Chloro-3-methylphenol	ND		180	45	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4-Chloroaniline	ND		180	45	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4-Chlorophenyl phenyl ether	ND		180	23	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4-Methylphenol	ND		360	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4-Nitroaniline	ND		360	96	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Acenaphthene	ND		180	27	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Acenaphthylene	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Acetophenone	ND		180	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Anthracene	ND		180	45	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Atrazine	ND		180	64	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Benzaldehyde	ND		180	150	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Benzo[a]anthracene	ND		180	18	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Benzo[a]pyrene	ND		180	27	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Benzo[b]fluoranthene	ND		180	29	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Benzo[g,h,i]perylene	ND		180	19	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Benzo[k]fluoranthene	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Biphenyl	ND		180	27	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Bis(2-chloroethoxy)methane	ND		180	39	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Bis(2-chloroethyl)ether	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Bis(2-ethylhexyl) phthalate	ND		180	63	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Butyl benzyl phthalate	ND		180	30	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Caprolactam	ND		180	55	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Carbazole	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Chrysene	ND		180	41	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Dibenz(a,h)anthracene	ND		180	32	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Dibenzofuran	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Diethyl phthalate	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Dimethyl phthalate	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Di-n-butyl phthalate	ND		180	31	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Di-n-octyl phthalate	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Fluoranthene	ND		180	19	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Fluorene	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Hexachlorobenzene	ND		180	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Hexachlorocyclopentadiene	ND		180	25	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Hexachloroethane	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Indeno[1,2,3-cd]pyrene	ND		180	23	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Isophorone	ND		180	39	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Naphthalene	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Nitrobenzene	ND		180	21	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA133

Lab Sample ID: 480-151605-7

Date Collected: 04/09/19 12:27

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		180	31	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
N-Nitrosodiphenylamine	ND		180	150	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Pentachlorophenol	ND		360	180	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Phenanthrene	ND		180	27	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Phenol	ND		180	28	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1
Pyrene	ND		180	22	ug/Kg	☼	04/11/19 15:18	04/12/19 22:49	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7700	T J	ug/Kg	☼	1.66		04/11/19 15:18	04/12/19 22:49	1
Unknown	2100	T J	ug/Kg	☼	2.84		04/11/19 15:18	04/12/19 22:49	1
Unknown	630	T J	ug/Kg	☼	4.85		04/11/19 15:18	04/12/19 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		54 - 120	04/11/19 15:18	04/12/19 22:49	1
2-Fluorobiphenyl (Surr)	86		60 - 120	04/11/19 15:18	04/12/19 22:49	1
2-Fluorophenol (Surr)	86		52 - 120	04/11/19 15:18	04/12/19 22:49	1
Nitrobenzene-d5 (Surr)	90		53 - 120	04/11/19 15:18	04/12/19 22:49	1
Phenol-d5 (Surr)	87		54 - 120	04/11/19 15:18	04/12/19 22:49	1
p-Terphenyl-d14 (Surr)	95		65 - 121	04/11/19 15:18	04/12/19 22:49	1

Client Sample ID: PWEXSWNA134

Lab Sample ID: 480-151605-8

Date Collected: 04/09/19 11:58

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,2-Dichloropropane	ND	vs	5.9	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
1,4-Dichlorobenzene	ND	vs	5.9	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
2-Butanone (MEK)	ND	vs	29	2.2	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Acetone	ND	vs	29	5.0	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Bromoform	ND	vs	5.9	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Bromomethane	ND	vs	5.9	0.53	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Carbon disulfide	ND	vs	5.9	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA134

Lab Sample ID: 480-151605-8

Date Collected: 04/09/19 11:58

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Chloroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Chloroform	0.47	J B vs	5.9	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Cyclohexane	ND	vs	5.9	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Dibromochloromethane	ND	vs	5.9	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Methyl acetate	ND	vs	29	3.6	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Styrene	ND	vs	5.9	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Tetrachloroethene	ND	vs	5.9	0.79	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1
Xylenes, Total	ND	vs	12	0.99	ug/Kg	☼	04/13/19 06:49	04/13/19 13:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/13/19 06:49	04/13/19 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		64 - 126	04/13/19 06:49	04/13/19 13:18	1
4-Bromofluorobenzene (Surr)	94		72 - 126	04/13/19 06:49	04/13/19 13:18	1
Dibromofluoromethane (Surr)	106		60 - 140	04/13/19 06:49	04/13/19 13:18	1
Toluene-d8 (Surr)	102		71 - 125	04/13/19 06:49	04/13/19 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA134

Lab Sample ID: 480-151605-8

Date Collected: 04/09/19 11:58

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		390	55	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4-Methylphenol	ND		390	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Acenaphthene	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Acenaphthylene	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Acetophenone	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Anthracene	72	J	200	49	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Atrazine	ND		200	69	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Benzo[a]anthracene	47	J	200	20	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Benzo[a]pyrene	57	J	200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Benzo[k]fluoranthene	50	J	200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Biphenyl	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Caprolactam	ND		200	60	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Carbazole	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Chrysene	67	J	200	44	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Dibenzofuran	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Fluoranthene	110	J	200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Fluorene	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Indeno[1,2,3-cd]pyrene	25	J	200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Isophorone	ND		200	42	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Naphthalene	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Phenanthrene	86	J	200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA134

Lab Sample ID: 480-151605-8

Date Collected: 04/09/19 11:58

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		200	30	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
Pyrene	68	J	200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:14	1
<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>
Unknown	350	T J	ug/Kg	☼	1.55		04/11/19 15:18	04/12/19 23:14	1
Unknown	8700	T J	ug/Kg	☼	1.67		04/11/19 15:18	04/12/19 23:14	1
Unknown	2300	T J	ug/Kg	☼	2.84		04/11/19 15:18	04/12/19 23:14	1
Ethane, 1,1,2,2-tetrachloro-	160	T J N	ug/Kg	☼	4.09	79-34-5	04/11/19 15:18	04/12/19 23:14	1
Column Bleed	620	T J	ug/Kg	☼	4.85		04/11/19 15:18	04/12/19 23:14	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	91		54 - 120				04/11/19 15:18	04/12/19 23:14	1
2-Fluorobiphenyl (Surr)	88		60 - 120				04/11/19 15:18	04/12/19 23:14	1
2-Fluorophenol (Surr)	85		52 - 120				04/11/19 15:18	04/12/19 23:14	1
Nitrobenzene-d5 (Surr)	87		53 - 120				04/11/19 15:18	04/12/19 23:14	1
Phenol-d5 (Surr)	86		54 - 120				04/11/19 15:18	04/12/19 23:14	1
p-Terphenyl-d14 (Surr)	93		65 - 121				04/11/19 15:18	04/12/19 23:14	1

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Date Collected: 04/09/19 09:40

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,2-Dichloropropane	ND	vs	5.9	3.0	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Acetone	32	vs	30	5.0	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Benzene	2.2	J vs	5.9	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Bromoform	ND	vs	5.9	3.0	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Bromomethane	ND	vs	5.9	0.53	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Carbon disulfide	ND	vs	5.9	3.0	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Chloroethane	ND	vs	5.9	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Date Collected: 04/09/19 09:40

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.53	J B vs	5.9	0.37	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Dibromochloromethane	ND	vs	5.9	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Ethylbenzene	5.1	J vs	5.9	0.41	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Isopropylbenzene	0.97	J vs	5.9	0.89	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Styrene	ND	vs	5.9	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Tetrachloroethene	ND	vs	5.9	0.79	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1
Xylenes, Total	2.9	J vs	12	0.99	ug/Kg	☼	04/13/19 06:49	04/13/19 13:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Indane	65	T J N	ug/Kg	☼	11.10	496-11-7	04/13/19 06:49	04/13/19 13:44	1
Indene	15	T J N	ug/Kg	☼	11.30	95-13-6	04/13/19 06:49	04/13/19 13:44	1
Benzene, 1,3-diethyl-	31	T J N	ug/Kg	☼	11.78	141-93-5	04/13/19 06:49	04/13/19 13:44	1
Benzofuran, 2-methyl-	25	T J N	ug/Kg	☼	11.87	4265-25-2	04/13/19 06:49	04/13/19 13:44	1
Benzene, 2-ethenyl-1,4-dimethyl-	30	T J N	ug/Kg	☼	12.21	2039-89-6	04/13/19 06:49	04/13/19 13:44	1
Unknown	20	T J	ug/Kg	☼	12.72		04/13/19 06:49	04/13/19 13:44	1
Naphthalene	150	T J N	ug/Kg	☼	12.81	91-20-3	04/13/19 06:49	04/13/19 13:44	1
Benzo[c]thiophene	35	T J N	ug/Kg	☼	12.93	270-82-6	04/13/19 06:49	04/13/19 13:44	1
Naphthalene, 2-methyl-	39	T J N	ug/Kg	☼	13.94	91-57-6	04/13/19 06:49	04/13/19 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	04/13/19 06:49	04/13/19 13:44	1
4-Bromofluorobenzene (Surr)	101		72 - 126	04/13/19 06:49	04/13/19 13:44	1
Dibromofluoromethane (Surr)	105		60 - 140	04/13/19 06:49	04/13/19 13:44	1
Toluene-d8 (Surr)	100		71 - 125	04/13/19 06:49	04/13/19 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Date Collected: 04/09/19 09:40

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2-Methylnaphthalene	150	J	200	40	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4-Methylphenol	ND		390	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4-Nitroaniline	ND		390	100	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Acenaphthene	400		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Acenaphthylene	730		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Acetophenone	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Anthracene	2300		200	49	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Atrazine	ND		200	69	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Benzo[a]anthracene	2200		200	20	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Benzo[a]pyrene	1700		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Benzo[b]fluoranthene	2200		200	32	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Benzo[g,h,i]perylene	1100		200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Benzo[k]fluoranthene	860		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Biphenyl	540		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Caprolactam	ND		200	60	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Carbazole	640		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Chrysene	1800		200	45	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Dibenz(a,h)anthracene	320		200	35	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Dibenzofuran	2100		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Fluoranthene	5400		200	21	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Fluorene	2000		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Indeno[1,2,3-cd]pyrene	1000		200	25	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Isophorone	ND		200	42	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Date Collected: 04/09/19 09:40

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	460		200	26	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Phenol	ND		200	31	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1
Pyrene	4400		200	23	ug/Kg	☼	04/11/19 15:18	04/12/19 23:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1100	T J	ug/Kg	☼	1.52		04/11/19 15:18	04/12/19 23:38	1
Unknown	8800	T J	ug/Kg	☼	1.67		04/11/19 15:18	04/12/19 23:38	1
Unknown	2100	T J	ug/Kg	☼	2.84		04/11/19 15:18	04/12/19 23:38	1
Column Bleed	480	T J	ug/Kg	☼	4.85		04/11/19 15:18	04/12/19 23:38	1
Naphthalene, 2,7-dimethyl-	730	T J N	ug/Kg	☼	8.47	582-16-1	04/11/19 15:18	04/12/19 23:38	1
Dibenzofuran, 4-methyl-	650	T J N	ug/Kg	☼	9.69	7320-53-8	04/11/19 15:18	04/12/19 23:38	1
Dibenzothiophene	950	T J N	ug/Kg	☼	10.40	132-65-0	04/11/19 15:18	04/12/19 23:38	1
Phenanthrene, 4-methyl-	920	T J N	ug/Kg	☼	11.02	832-64-4	04/11/19 15:18	04/12/19 23:38	1
Phenanthrene, 1-methyl-	1400	T J N	ug/Kg	☼	11.05	832-69-9	04/11/19 15:18	04/12/19 23:38	1
Anthracene, 2-methyl-	660	T J N	ug/Kg	☼	11.09	613-12-7	04/11/19 15:18	04/12/19 23:38	1
Unknown	2100	T J	ug/Kg	☼	11.12		04/11/19 15:18	04/12/19 23:38	1
2-Phenylnaphthalene	630	T J N	ug/Kg	☼	11.32	35465-71-5	04/11/19 15:18	04/12/19 23:38	1
9,10-Dimethylanthracene	480	T J N	ug/Kg	☼	11.54	781-43-1	04/11/19 15:18	04/12/19 23:38	1
Unknown	550	T J	ug/Kg	☼	11.57		04/11/19 15:18	04/12/19 23:38	1
Benzo[e]pyrene	770	T J N	ug/Kg	☼	13.98	192-97-2	04/11/19 15:18	04/12/19 23:38	1
8H-Indeno[2,1-b]phenanthrene	470	T J N	ug/Kg	☼	14.18	241-28-1	04/11/19 15:18	04/12/19 23:38	1
Unknown	460	T J	ug/Kg	☼	14.97		04/11/19 15:18	04/12/19 23:38	1
N-[4-Amino-3-nitrophenyl]	570	T J N	ug/Kg	☼	15.18	1000213-60-7	04/11/19 15:18	04/12/19 23:38	1
-N-nitroso-4-chlorobenzylamine									
Coronene	520	T J N	ug/Kg	☼	16.65	191-07-1	04/11/19 15:18	04/12/19 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		54 - 120	04/11/19 15:18	04/12/19 23:38	1
2-Fluorobiphenyl (Surr)	91		60 - 120	04/11/19 15:18	04/12/19 23:38	1
2-Fluorophenol (Surr)	81		52 - 120	04/11/19 15:18	04/12/19 23:38	1
Nitrobenzene-d5 (Surr)	86		53 - 120	04/11/19 15:18	04/12/19 23:38	1
Phenol-d5 (Surr)	86		54 - 120	04/11/19 15:18	04/12/19 23:38	1
p-Terphenyl-d14 (Surr)	87		65 - 121	04/11/19 15:18	04/12/19 23:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	9700		2000	290	ug/Kg	☼	04/11/19 15:18	04/15/19 22:53	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2800	T J	ug/Kg	☼	4.76		04/11/19 15:18	04/15/19 22:53	10
Unknown	2200	T J	ug/Kg	☼	12.46		04/11/19 15:18	04/15/19 22:53	10
Unknown	1800	T J	ug/Kg	☼	15.69		04/11/19 15:18	04/15/19 22:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		54 - 120	04/11/19 15:18	04/15/19 22:53	10
2-Fluorobiphenyl (Surr)	100		60 - 120	04/11/19 15:18	04/15/19 22:53	10
2-Fluorophenol (Surr)	112		52 - 120	04/11/19 15:18	04/15/19 22:53	10

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA093

Date Collected: 04/09/19 09:40

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-9

Matrix: Solid

Percent Solids: 83.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	80		53 - 120	04/11/19 15:18	04/15/19 22:53	10
Phenol-d5 (Surr)	85		54 - 120	04/11/19 15:18	04/15/19 22:53	10
p-Terphenyl-d14 (Surr)	103		65 - 121	04/11/19 15:18	04/15/19 22:53	10

Client Sample ID: PWEXSWNA090

Date Collected: 04/09/19 09:06

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-10

Matrix: Solid

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.93	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,1-Dichloroethane	ND	vs	5.8	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,1-Dichloroethene	ND	vs	5.8	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Acetone	70	vs	29	4.8	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Benzene	1.9	J vs	5.8	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Chloroform	0.63	J B vs	5.8	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Ethylbenzene	2.5	J vs	5.8	0.40	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Isopropylbenzene	1.1	J vs	5.8	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Methyl tert-butyl ether	ND	vs	5.8	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Methylcyclohexane	ND	vs	5.8	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Methylene Chloride	ND	vs	5.8	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA090

Lab Sample ID: 480-151605-10

Date Collected: 04/09/19 09:06

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Tetrachloroethene	ND	vs	5.8	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Toluene	0.45	J vs	5.8	0.43	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.59	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Trichlorofluoromethane	ND	vs	5.8	0.54	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Vinyl chloride	ND	vs	5.8	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1
Xylenes, Total	1.1	J vs	12	0.97	ug/Kg	☼	04/13/19 06:49	04/13/19 14:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Biphenyl	22	T J N	ug/Kg	☼	8.91	92-52-4	04/13/19 06:49	04/13/19 14:10	1
Naphthalene, 2,7-dimethyl-	11	T J N	ug/Kg	☼	10.43	582-16-1	04/13/19 06:49	04/13/19 14:10	1
Naphthalene, 1,3-dimethyl-	12	T J N	ug/Kg	☼	11.50	575-41-7	04/13/19 06:49	04/13/19 14:10	1
unknown	33	T J	ug/Kg	☼	11.78		04/13/19 06:49	04/13/19 14:10	1
Benzofuran, 7-methyl-	42	T J N	ug/Kg	☼	11.87	17059-52-8	04/13/19 06:49	04/13/19 14:10	1
Biphenylene	12	T J N	ug/Kg	☼	12.06	259-79-0	04/13/19 06:49	04/13/19 14:10	1
Acenaphthene	12	T J N	ug/Kg	☼	12.52	83-32-9	04/13/19 06:49	04/13/19 14:10	1
1H-Inden-1-one, 2,3-dihydro-2-methyl- Benzo[c]thiophene	17	T J N	ug/Kg	☼	12.72	17496-14-9	04/13/19 06:49	04/13/19 14:10	1
	28	T J N	ug/Kg	☼	12.93	270-82-6	04/13/19 06:49	04/13/19 14:10	1
Dibenzofuran	32	T J N	ug/Kg	☼	13.23	132-64-9	04/13/19 06:49	04/13/19 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	04/13/19 06:49	04/13/19 14:10	1
4-Bromofluorobenzene (Surr)	101		72 - 126	04/13/19 06:49	04/13/19 14:10	1
Dibromofluoromethane (Surr)	104		60 - 140	04/13/19 06:49	04/13/19 14:10	1
Toluene-d8 (Surr)	100		71 - 125	04/13/19 06:49	04/13/19 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		980	270	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2,4,6-Trichlorophenol	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2,4-Dichlorophenol	ND		980	100	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2,4-Dimethylphenol	ND		980	240	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2,4-Dinitrophenol	ND		9600	4500	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2,4-Dinitrotoluene	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2,6-Dinitrotoluene	ND		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2-Chloronaphthalene	ND		980	160	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2-Chlorophenol	ND		980	180	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2-Methylnaphthalene	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2-Methylphenol	ND		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
2-Nitrophenol	ND		980	280	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
3,3'-Dichlorobenzidine	ND		1900	1200	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
4,6-Dinitro-2-methylphenol	ND		1900	980	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
4-Bromophenyl phenyl ether	ND		980	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
4-Chloro-3-methylphenol	ND		980	240	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
4-Chloroaniline	ND		980	240	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA090

Lab Sample ID: 480-151605-10

Date Collected: 04/09/19 09:06

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
4-Methylphenol	ND		1900	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
4-Nitroaniline	ND		1900	510	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
4-Nitrophenol	ND		1900	690	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Acenaphthene	220	J	980	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Acenaphthylene	500	J	980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Acetophenone	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Anthracene	5700		980	240	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Atrazine	ND		980	340	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Benzaldehyde	ND		980	780	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Benzo[a]anthracene	7600		980	98	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Benzo[a]pyrene	5800		980	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Benzo[b]fluoranthene	7000		980	160	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Benzo[g,h,i]perylene	3100		980	100	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Benzo[k]fluoranthene	3400		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Biphenyl	1300		980	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
bis (2-chloroisopropyl) ether	ND		980	200	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Bis(2-chloroethoxy)methane	ND		980	210	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Bis(2-chloroethyl)ether	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Bis(2-ethylhexyl) phthalate	ND		980	330	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Butyl benzyl phthalate	ND		980	160	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Caprolactam	ND		980	290	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Carbazole	1700		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Chrysene	5500		980	220	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Dibenz(a,h)anthracene	ND		980	170	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Dibenzofuran	4800		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Diethyl phthalate	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Dimethyl phthalate	ND		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Di-n-butyl phthalate	ND		980	170	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Di-n-octyl phthalate	ND		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Fluoranthene	14000		980	100	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Fluorene	3300		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Hexachlorobenzene	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Hexachlorobutadiene	ND		980	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Hexachlorocyclopentadiene	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Hexachloroethane	ND		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Indeno[1,2,3-cd]pyrene	3200		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Isophorone	ND		980	210	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Naphthalene	2000		980	130	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Nitrobenzene	ND		980	110	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
N-Nitrosodi-n-propylamine	ND		980	170	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
N-Nitrosodiphenylamine	ND		980	800	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Pentachlorophenol	ND		1900	980	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Phenanthrene	22000		980	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Phenol	ND		980	150	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5
Pyrene	12000		980	120	ug/Kg	☼	04/11/19 15:18	04/13/19 00:03	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1300	T J	ug/Kg	☼	1.53		04/11/19 15:18	04/13/19 00:03	5
Unknown	2400	T J	ug/Kg	☼	2.85		04/11/19 15:18	04/13/19 00:03	5

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA090

Lab Sample ID: 480-151605-10

Date Collected: 04/09/19 09:06

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.9

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene, 1,7-dimethyl-	1300	T J N	ug/Kg	☼	8.37	575-37-1	04/11/19 15:18	04/13/19 00:03	5
Naphthalene, 2,7-dimethyl-	1700	T J N	ug/Kg	☼	8.46	582-16-1	04/11/19 15:18	04/13/19 00:03	5
Naphthalene, 2,3-dimethyl-	1200	T J N	ug/Kg	☼	8.60	581-40-8	04/11/19 15:18	04/13/19 00:03	5
Unknown	1400	T J	ug/Kg	☼	9.69		04/11/19 15:18	04/13/19 00:03	5
Dibenzothiophene	1300	T J N	ug/Kg	☼	10.40	132-65-0	04/11/19 15:18	04/13/19 00:03	5
Phenanthrene, 2-methyl-	2500	T J N	ug/Kg	☼	11.02	2531-84-2	04/11/19 15:18	04/13/19 00:03	5
Anthracene, 2-methyl-	3600	T J N	ug/Kg	☼	11.05	613-12-7	04/11/19 15:18	04/13/19 00:03	5
Unknown	4000	T J	ug/Kg	☼	11.12		04/11/19 15:18	04/13/19 00:03	5
2-Phenylnaphthalene	1600	T J N	ug/Kg	☼	11.31	35465-71-5	04/11/19 15:18	04/13/19 00:03	5
9,10-Dimethylanthracene	1300	T J N	ug/Kg	☼	11.54	781-43-1	04/11/19 15:18	04/13/19 00:03	5
Pyrene, 1-methyl-	1400	T J N	ug/Kg	☼	12.18	2381-21-7	04/11/19 15:18	04/13/19 00:03	5
Perylene	1700	T J N	ug/Kg	☼	13.85	198-55-0	04/11/19 15:18	04/13/19 00:03	5
Benzo[e]pyrene	2800	T J N	ug/Kg	☼	13.98	192-97-2	04/11/19 15:18	04/13/19 00:03	5
Unknown	2600	T J	ug/Kg	☼	14.17		04/11/19 15:18	04/13/19 00:03	5
Benzo[a]naphthacene	1300	T J N	ug/Kg	☼	14.76	226-88-0	04/11/19 15:18	04/13/19 00:03	5
Dibenzo[def,mno]chrysene	2000	T J N	ug/Kg	☼	15.18	191-26-4	04/11/19 15:18	04/13/19 00:03	5
3,4:8,9-Dibenzopyrene	1700	T J N	ug/Kg	☼	16.10	189-64-0	04/11/19 15:18	04/13/19 00:03	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		54 - 120				04/11/19 15:18	04/13/19 00:03	5
2-Fluorobiphenyl (Surr)	97		60 - 120				04/11/19 15:18	04/13/19 00:03	5
2-Fluorophenol (Surr)	93		52 - 120				04/11/19 15:18	04/13/19 00:03	5
Nitrobenzene-d5 (Surr)	95		53 - 120				04/11/19 15:18	04/13/19 00:03	5
Phenol-d5 (Surr)	95		54 - 120				04/11/19 15:18	04/13/19 00:03	5
p-Terphenyl-d14 (Surr)	102		65 - 121				04/11/19 15:18	04/13/19 00:03	5

Client Sample ID: PWEXSWNA091

Lab Sample ID: 480-151605-11

Date Collected: 04/09/19 09:10

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.92	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,1-Dichloroethane	ND	vs	5.7	0.69	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,2-Dichloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Acetone	25	J vs	28	4.8	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA091

Lab Sample ID: 480-151605-11

Date Collected: 04/09/19 09:10

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Bromodichloromethane	ND	vs	5.7	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Bromoform	ND	vs	5.7	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Carbon disulfide	ND	vs	5.7	2.8	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Chloroform	0.49	J B vs	5.7	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Styrene	ND	vs	5.7	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Tetrachloroethene	ND	vs	5.7	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Vinyl chloride	ND	vs	5.7	0.69	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	04/13/19 06:49	04/13/19 14:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Dibenzofuran	23	T J N	ug/Kg	☼	13.23	132-64-9	04/13/19 06:49	04/13/19 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/13/19 06:49	04/13/19 14:36	1
4-Bromofluorobenzene (Surr)	99		72 - 126	04/13/19 06:49	04/13/19 14:36	1
Dibromofluoromethane (Surr)	103		60 - 140	04/13/19 06:49	04/13/19 14:36	1
Toluene-d8 (Surr)	101		71 - 125	04/13/19 06:49	04/13/19 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA091

Lab Sample ID: 480-151605-11

Date Collected: 04/09/19 09:10

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2-Methylphenol	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2-Nitroaniline	ND		380	28	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
3-Nitroaniline	ND		380	53	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Acenaphthene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Acenaphthylene	39	J	190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Acetophenone	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Anthracene	73	J	190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Atrazine	ND		190	67	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Benzo[a]anthracene	70	J	190	19	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Benzo[a]pyrene	83	J	190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Benzo[b]fluoranthene	65	J	190	31	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Benzo[g,h,i]perylene	39	J	190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Benzo[k]fluoranthene	64	J	190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Biphenyl	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Caprolactam	ND		190	58	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Carbazole	34	J	190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Chrysene	91	J	190	43	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Dibenzofuran	70	J	190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Fluoranthene	220		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Fluorene	52	J	190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Indeno[1,2,3-cd]pyrene	43	J	190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Isophorone	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA091

Lab Sample ID: 480-151605-11

Date Collected: 04/09/19 09:10

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Nitrobenzene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Phenanthrene	200		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Phenol	ND		190	30	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1
Pyrene	170 J		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	650	T J	ug/Kg	☼	1.51		04/11/19 15:18	04/13/19 00:28	1
Unknown	7400	T J	ug/Kg	☼	1.67		04/11/19 15:18	04/13/19 00:28	1
Unknown	2200	T J	ug/Kg	☼	2.85		04/11/19 15:18	04/13/19 00:28	1
Column Bleed	650	T J	ug/Kg	☼	4.85		04/11/19 15:18	04/13/19 00:28	1
Rubcene-	200	T J N	ug/Kg	☼	14.16	197-61-5	04/11/19 15:18	04/13/19 00:28	1
Unknown	170	T J	ug/Kg	☼	14.79		04/11/19 15:18	04/13/19 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		54 - 120	04/11/19 15:18	04/13/19 00:28	1
2-Fluorobiphenyl (Surr)	87		60 - 120	04/11/19 15:18	04/13/19 00:28	1
2-Fluorophenol (Surr)	84		52 - 120	04/11/19 15:18	04/13/19 00:28	1
Nitrobenzene-d5 (Surr)	84		53 - 120	04/11/19 15:18	04/13/19 00:28	1
Phenol-d5 (Surr)	89		54 - 120	04/11/19 15:18	04/13/19 00:28	1
p-Terphenyl-d14 (Surr)	90		65 - 121	04/11/19 15:18	04/13/19 00:28	1

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Date Collected: 04/09/19 09:45

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,1,2,2-Tetrachloroethane	ND		490	80	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		490	250	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,1,2-Trichloroethane	ND		490	100	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,1-Dichloroethane	ND		490	150	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,1-Dichloroethene	ND		490	170	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,2,4-Trichlorobenzene	ND		490	190	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,2-Dibromo-3-Chloropropane	ND	F1 F2	490	250	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,2-Dibromoethane	ND		490	86	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,2-Dichlorobenzene	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,2-Dichloroethane	ND		490	200	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,2-Dichloropropane	ND		490	79	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,3-Dichlorobenzene	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
1,4-Dichlorobenzene	ND		490	69	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
2-Butanone (MEK)	ND		2500	1500	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
2-Hexanone	ND		2500	1000	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
4-Methyl-2-pentanone (MIBK)	ND		2500	160	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Acetone	ND		2500	2000	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Benzene	120 J		490	93	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Date Collected: 04/09/19 09:45

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		490	98	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Bromoform	ND		490	250	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Bromomethane	ND		490	110	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Carbon disulfide	ND		490	220	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Carbon tetrachloride	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Chlorobenzene	ND		490	65	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Chloroethane	ND		490	100	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Chloroform	ND		490	340	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Chloromethane	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
cis-1,2-Dichloroethene	ND		490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
cis-1,3-Dichloropropene	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Cyclohexane	ND		490	110	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Dibromochloromethane	ND		490	240	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Dichlorodifluoromethane	ND		490	210	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Ethylbenzene	730		490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Isopropylbenzene	130 J		490	74	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Methyl acetate	ND		2500	230	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Methyl tert-butyl ether	ND		490	190	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Methylcyclohexane	ND		490	230	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Methylene Chloride	ND		490	97	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Styrene	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Tetrachloroethene	ND		490	66	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Toluene	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
trans-1,2-Dichloroethene	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
trans-1,3-Dichloropropene	ND		490	48	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Trichloroethene	ND		490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Trichlorofluoromethane	ND		490	230	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Vinyl chloride	ND		490	160	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4
Xylenes, Total	5800		980	270	ug/Kg	☼	04/11/19 12:09	04/14/19 13:39	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1,2,4-trimethyl-	6800	T J N	ug/Kg	☼	10.10	95-63-6	04/11/19 12:09	04/14/19 13:39	4
Benzene, 1,3,5-trimethyl-	8300	T J N	ug/Kg	☼	10.47	108-67-8	04/11/19 12:09	04/14/19 13:39	4
Indane	6200	T J N	ug/Kg	☼	11.08	496-11-7	04/11/19 12:09	04/14/19 13:39	4
Indene	8800	T J N	ug/Kg	☼	11.29	95-13-6	04/11/19 12:09	04/14/19 13:39	4
Azulene	140000	T J N	ug/Kg	☼	12.83	275-51-4	04/11/19 12:09	04/14/19 13:39	4
Benzo[b]thiophene	6400	T J N	ug/Kg	☼	12.94	95-15-8	04/11/19 12:09	04/14/19 13:39	4
Naphthalene, 2-methyl-	15000	T J N	ug/Kg	☼	13.75	91-57-6	04/11/19 12:09	04/14/19 13:39	4
Naphthalene, 1-methyl-	16000	T J N	ug/Kg	☼	13.90	90-12-0	04/11/19 12:09	04/14/19 13:39	4
Naphthalene, 1,5-dimethyl-	5800	T J N	ug/Kg	☼	14.70	571-61-9	04/11/19 12:09	04/14/19 13:39	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		53 - 146	04/11/19 12:09	04/14/19 13:39	4
4-Bromofluorobenzene (Surr)	101		49 - 148	04/11/19 12:09	04/14/19 13:39	4
Dibromofluoromethane (Surr)	99		60 - 140	04/11/19 12:09	04/14/19 13:39	4
Toluene-d8 (Surr)	97		50 - 149	04/11/19 12:09	04/14/19 13:39	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		970	260	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Date Collected: 04/09/19 09:45

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		970	190	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2,4-Dichlorophenol	ND		970	100	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2,4-Dimethylphenol	ND		970	230	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2,4-Dinitrophenol	ND		9400	4500	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2,4-Dinitrotoluene	ND		970	200	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2,6-Dinitrotoluene	ND		970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2-Chloronaphthalene	ND		970	160	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2-Chlorophenol	ND		970	180	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2-Methylnaphthalene	6400	F2 F1	970	190	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2-Methylphenol	ND		970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
2-Nitrophenol	ND		970	270	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4,6-Dinitro-2-methylphenol	ND		1900	970	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4-Bromophenyl phenyl ether	ND		970	140	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4-Chloro-3-methylphenol	ND		970	240	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4-Chloroaniline	ND		970	240	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4-Chlorophenyl phenyl ether	ND		970	120	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4-Methylphenol	ND		1900	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4-Nitroaniline	ND		1900	510	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
4-Nitrophenol	ND		1900	680	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Acenaphthene	1400	F2 F1	970	140	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Acenaphthylene	3000	F2 F1	970	120	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Acetophenone	ND		970	130	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Anthracene	11000	F2	970	240	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Atrazine	ND		970	340	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Benzaldehyde	ND		970	770	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Benzo[a]anthracene	9900	F2	970	97	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Benzo[a]pyrene	6700	F2 F1	970	140	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Benzo[b]fluoranthene	9200	F2	970	150	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Benzo[g,h,i]perylene	3500	F2 F1	970	100	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Benzo[k]fluoranthene	3200	F2 F1	970	120	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Biphenyl	3300	F2 F1	970	140	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
bis (2-chloroisopropyl) ether	ND		970	190	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Bis(2-chloroethoxy)methane	ND		970	200	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Bis(2-chloroethyl)ether	ND		970	120	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Bis(2-ethylhexyl) phthalate	ND		970	330	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Butyl benzyl phthalate	ND		970	160	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Caprolactam	ND		970	290	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Carbazole	3700	F2 F1	970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Chrysene	7000	F2 F1	970	220	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Dibenz(a,h)anthracene	ND	F2 F1	970	170	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Dibenzofuran	11000	F2	970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Diethyl phthalate	ND		970	120	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Dimethyl phthalate	ND		970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Di-n-butyl phthalate	ND		970	160	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Di-n-octyl phthalate	ND		970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Fluoranthene	23000	F2	970	100	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Date Collected: 04/09/19 09:45

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	10000	F2	970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Hexachlorobenzene	ND		970	130	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Hexachlorobutadiene	ND		970	140	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Hexachlorocyclopentadiene	ND		970	130	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Hexachloroethane	ND		970	120	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Indeno[1,2,3-cd]pyrene	3600	F2 F1	970	120	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Isophorone	ND		970	200	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Nitrobenzene	ND		970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
N-Nitrosodi-n-propylamine	ND		970	160	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
N-Nitrosodiphenylamine	ND		970	780	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Pentachlorophenol	ND		1900	970	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Phenol	ND		970	150	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5
Pyrene	19000	F2	970	110	ug/Kg	☼	04/11/19 15:18	04/12/19 19:56	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Indane	1900	T J N	ug/Kg	☼	5.45	496-11-7	04/11/19 15:18	04/12/19 19:56	5
Benzo[b]thiophene	2000	T J N	ug/Kg	☼	6.87	95-15-8	04/11/19 15:18	04/12/19 19:56	5
1-Methylnaphthalene	10000	F2	ug/Kg	☼	7.75	90-12-0	04/11/19 15:18	04/12/19 19:56	5
Naphthalene, 1,5-dimethyl-	4200	T J N	ug/Kg	☼	8.38	571-61-9	04/11/19 15:18	04/12/19 19:56	5
Naphthalene, 2,7-dimethyl-	4400	T J N	ug/Kg	☼	8.47	582-16-1	04/11/19 15:18	04/12/19 19:56	5
Naphthalene, 1,3-dimethyl-	2600	T J N	ug/Kg	☼	8.60	575-41-7	04/11/19 15:18	04/12/19 19:56	5
Naphthalene, 2,3,6-trimethyl-	1800	T J N	ug/Kg	☼	9.35	829-26-5	04/11/19 15:18	04/12/19 19:56	5
Dibenzofuran, 4-methyl-	2800	T J N	ug/Kg	☼	9.69	7320-53-8	04/11/19 15:18	04/12/19 19:56	5
9H-Fluorene, 2-methyl-	2300	T J N	ug/Kg	☼	10.12	1430-97-3	04/11/19 15:18	04/12/19 19:56	5
Dibenzothiophene	3800	T J N	ug/Kg	☼	10.41	132-65-0	04/11/19 15:18	04/12/19 19:56	5
Phenanthrene, 1-methyl-	5300	T J N	ug/Kg	☼	11.05	832-69-9	04/11/19 15:18	04/12/19 19:56	5
Phenanthrene, 2-methyl-	2900	T J N	ug/Kg	☼	11.10	2531-84-2	04/11/19 15:18	04/12/19 19:56	5
Phenanthrene, 2,5-dimethyl-	2200	T J N	ug/Kg	☼	11.54	3674-66-6	04/11/19 15:18	04/12/19 19:56	5
Fluoranthene, 2-methyl-	1700	T J N	ug/Kg	☼	12.19	33543-31-6	04/11/19 15:18	04/12/19 19:56	5
11H-Benzo[b]fluorene	1300	T J N	ug/Kg	☼	12.24	243-17-4	04/11/19 15:18	04/12/19 19:56	5
Benzo[j]fluoranthene	2500	T J N	ug/Kg	☼	13.85	205-82-3	04/11/19 15:18	04/12/19 19:56	5
Perylene	3500	T J N	ug/Kg	☼	13.98	198-55-0	04/11/19 15:18	04/12/19 19:56	5
1,2:7,8-Dibenzophenanthrene	1500	T J N	ug/Kg	☼	14.94	213-46-7	04/11/19 15:18	04/12/19 19:56	5
Dibenzo[def,mno]chrysene	2000	T J N	ug/Kg	☼	15.19	191-26-4	04/11/19 15:18	04/12/19 19:56	5
1,2:3,4-Dibenzopyrene	2100	T J N	ug/Kg	☼	16.11	191-30-0	04/11/19 15:18	04/12/19 19:56	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		54 - 120	04/11/19 15:18	04/12/19 19:56	5
2-Fluorobiphenyl (Surr)	100		60 - 120	04/11/19 15:18	04/12/19 19:56	5
2-Fluorophenol (Surr)	92		52 - 120	04/11/19 15:18	04/12/19 19:56	5
Nitrobenzene-d5 (Surr)	95		53 - 120	04/11/19 15:18	04/12/19 19:56	5
Phenol-d5 (Surr)	98		54 - 120	04/11/19 15:18	04/12/19 19:56	5
p-Terphenyl-d14 (Surr)	96		65 - 121	04/11/19 15:18	04/12/19 19:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	58000	F2	9700	1200	ug/Kg	☼	04/11/19 15:18	04/15/19 22:25	50
Phenanthrene	47000	F2	9700	1400	ug/Kg	☼	04/11/19 15:18	04/15/19 22:25	50

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Date Collected: 04/09/19 09:45

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

<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>
column bleed	62000	T J	ug/Kg	☼	6.30		04/11/19 15:18	04/15/19 22:25	50
Unknown	8800	T J	ug/Kg	☼	7.65		04/11/19 15:18	04/15/19 22:25	50
1H-Indene, 1-ethylidene-	14000	T J N	ug/Kg	☼	9.28	2471-83-2	04/11/19 15:18	04/15/19 22:25	50
Unknown	11000	T J	ug/Kg	☼	12.45		04/11/19 15:18	04/15/19 22:25	50
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	0	X	54 - 120				04/11/19 15:18	04/15/19 22:25	50
2-Fluorobiphenyl (Surr)	0	X	60 - 120				04/11/19 15:18	04/15/19 22:25	50
2-Fluorophenol (Surr)	0	X	52 - 120				04/11/19 15:18	04/15/19 22:25	50
Nitrobenzene-d5 (Surr)	0	X	53 - 120				04/11/19 15:18	04/15/19 22:25	50
Phenol-d5 (Surr)	0	X	54 - 120				04/11/19 15:18	04/15/19 22:25	50
p-Terphenyl-d14 (Surr)	0	X	65 - 121				04/11/19 15:18	04/15/19 22:25	50

Client Sample ID: PWEXSWNA152

Lab Sample ID: 480-151605-13

Date Collected: 04/09/19 11:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.95	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,1,2-Trichloroethane	ND	vs	5.8	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,2-Dibromoethane	ND	vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,2-Dichlorobenzene	ND	vs	5.8	0.46	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
1,4-Dichlorobenzene	ND	vs	5.8	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Acetone	5.9	J vs	29	4.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Benzene	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Bromodichloromethane	ND	vs	5.8	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Chlorobenzene	ND	vs	5.8	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Chloroform	0.48	J B vs	5.8	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.84	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Cyclohexane	ND	vs	5.8	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Dibromochloromethane	ND	vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA152

Lab Sample ID: 480-151605-13

Date Collected: 04/09/19 11:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Ethylbenzene	1.1	J vs	5.8	0.40	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Isopropylbenzene	ND	vs	5.8	0.88	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Methylcyclohexane	ND	vs	5.8	0.89	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1
Xylenes, Total	ND	vs	12	0.98	ug/Kg	☼	04/13/19 06:49	04/13/19 15:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Indane	11	T J N	ug/Kg	☼	11.10	496-11-7	04/13/19 06:49	04/13/19 15:02	1
Benzene, 1,2,3,5-tetramethyl-	10	T J N	ug/Kg	☼	11.78	527-53-7	04/13/19 06:49	04/13/19 15:02	1
Benzofuran, 7-methyl-	6.3	T J N	ug/Kg	☼	11.87	17059-52-8	04/13/19 06:49	04/13/19 15:02	1
Unknown	5.9	T J	ug/Kg	☼	12.07		04/13/19 06:49	04/13/19 15:02	1
Benzene, 1-butenyl-, (E)-	7.6	T J N	ug/Kg	☼	12.21	1005-64-7	04/13/19 06:49	04/13/19 15:02	1
Acenaphthene	9.5	T J N	ug/Kg	☼	12.53	83-32-9	04/13/19 06:49	04/13/19 15:02	1
1H-Inden-1-one,	11	T J N	ug/Kg	☼	12.72	17496-14-9	04/13/19 06:49	04/13/19 15:02	1
2,3-dihydro-2-methyl-Naphthalene	6.3	T J N	ug/Kg	☼	12.81	91-20-3	04/13/19 06:49	04/13/19 15:02	1
Dibenzofuran	16	T J N	ug/Kg	☼	13.24	132-64-9	04/13/19 06:49	04/13/19 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/13/19 06:49	04/13/19 15:02	1
4-Bromofluorobenzene (Surr)	100		72 - 126	04/13/19 06:49	04/13/19 15:02	1
Dibromofluoromethane (Surr)	103		60 - 140	04/13/19 06:49	04/13/19 15:02	1
Toluene-d8 (Surr)	101		71 - 125	04/13/19 06:49	04/13/19 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2,4-Dinitrophenol	ND		1900	910	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2-Methylphenol	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA152

Lab Sample ID: 480-151605-13

Date Collected: 04/09/19 11:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Acenaphthene	82	J	200	29	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Acenaphthylene	110	J	200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Acetophenone	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Anthracene	710		200	49	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Atrazine	ND		200	68	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Benzo[a]anthracene	1000		200	20	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Benzo[a]pyrene	790		200	29	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Benzo[b]fluoranthene	900		200	31	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Benzo[g,h,i]perylene	410		200	21	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Benzo[k]fluoranthene	510		200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Biphenyl	240		200	29	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Caprolactam	ND		200	59	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Carbazole	290		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Chrysene	740		200	44	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Dibenzofuran	840		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Fluoranthene	1500		200	21	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Fluorene	670		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Hexachloroethane	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Indeno[1,2,3-cd]pyrene	410		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Isophorone	ND		200	42	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Naphthalene	160	J	200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Nitrobenzene	ND		200	22	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA152

Lab Sample ID: 480-151605-13

Date Collected: 04/09/19 11:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	2900		200	29	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Phenol	ND		200	30	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1
Pyrene	1400		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 00:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	670	T J	ug/Kg	☼	1.50		04/11/19 15:18	04/13/19 00:53	1
Unknown	8200	T J	ug/Kg	☼	1.67		04/11/19 15:18	04/13/19 00:53	1
Unknown	2200	T J	ug/Kg	☼	2.85		04/11/19 15:18	04/13/19 00:53	1
Naphthalene, 1,3-dimethyl-	330	T J N	ug/Kg	☼	8.47	575-41-7	04/11/19 15:18	04/13/19 00:53	1
Naphthalene, 1,2-dimethyl-	190	T J N	ug/Kg	☼	8.60	573-98-8	04/11/19 15:18	04/13/19 00:53	1
Dibenzofuran, 4-methyl-	180	T J N	ug/Kg	☼	9.69	7320-53-8	04/11/19 15:18	04/13/19 00:53	1
Dibenzothiophene	180	T J N	ug/Kg	☼	10.40	132-65-0	04/11/19 15:18	04/13/19 00:53	1
Phenanthrene, 1-methyl-	250	T J N	ug/Kg	☼	11.02	832-69-9	04/11/19 15:18	04/13/19 00:53	1
Anthracene, 1-methyl-	380	T J N	ug/Kg	☼	11.05	610-48-0	04/11/19 15:18	04/13/19 00:53	1
Phenanthrene, 2-methyl-	190	T J N	ug/Kg	☼	11.09	2531-84-2	04/11/19 15:18	04/13/19 00:53	1
Unknown	570	T J	ug/Kg	☼	11.12		04/11/19 15:18	04/13/19 00:53	1
11H-Benzo[a]fluorene	290	T J N	ug/Kg	☼	12.18	238-84-6	04/11/19 15:18	04/13/19 00:53	1
Benzo[e]pyrene	450	T J N	ug/Kg	☼	13.98	192-97-2	04/11/19 15:18	04/13/19 00:53	1
Unknown	300	T J	ug/Kg	☼	14.18		04/11/19 15:18	04/13/19 00:53	1
Unknown	280	T J	ug/Kg	☼	14.97		04/11/19 15:18	04/13/19 00:53	1
Dibenzo[def,mno]chrysene	300	T J N	ug/Kg	☼	15.18	191-26-4	04/11/19 15:18	04/13/19 00:53	1
3,4,8,9-Dibenzopyrene	210	T J N	ug/Kg	☼	16.10	189-64-0	04/11/19 15:18	04/13/19 00:53	1
Unknown	240	T J	ug/Kg	☼	16.22		04/11/19 15:18	04/13/19 00:53	1
Unknown	200	T J	ug/Kg	☼	16.63		04/11/19 15:18	04/13/19 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120	04/11/19 15:18	04/13/19 00:53	1
2-Fluorobiphenyl (Surr)	88		60 - 120	04/11/19 15:18	04/13/19 00:53	1
2-Fluorophenol (Surr)	85		52 - 120	04/11/19 15:18	04/13/19 00:53	1
Nitrobenzene-d5 (Surr)	87		53 - 120	04/11/19 15:18	04/13/19 00:53	1
Phenol-d5 (Surr)	85		54 - 120	04/11/19 15:18	04/13/19 00:53	1
p-Terphenyl-d14 (Surr)	89		65 - 121	04/11/19 15:18	04/13/19 00:53	1

Client Sample ID: PWEXSWNA089

Lab Sample ID: 480-151605-14

Date Collected: 04/09/19 11:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.94	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,2-Dibromoethane	ND	vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA089

Lab Sample ID: 480-151605-14

Date Collected: 04/09/19 11:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Acetone	10	J vs	29	4.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Bromodichloromethane	ND	vs	5.8	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Chlorobenzene	ND	vs	5.8	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Chloroform	0.49	J B vs	5.8	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.84	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Isopropylbenzene	ND	vs	5.8	0.88	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1
Xylenes, Total	ND	vs	12	0.98	ug/Kg	☼	04/13/19 06:49	04/13/19 15:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	420	T J	ug/Kg	☼	1.96		04/13/19 06:49	04/13/19 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	04/13/19 06:49	04/13/19 15:28	1
4-Bromofluorobenzene (Surr)	101		72 - 126	04/13/19 06:49	04/13/19 15:28	1
Dibromofluoromethane (Surr)	102		60 - 140	04/13/19 06:49	04/13/19 15:28	1
Toluene-d8 (Surr)	100		71 - 125	04/13/19 06:49	04/13/19 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA089

Lab Sample ID: 480-151605-14

Date Collected: 04/09/19 11:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2-Methylphenol	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4-Methylphenol	ND		390	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Acenaphthene	30	J	200	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Acenaphthylene	32	J	200	26	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Acetophenone	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Anthracene	69	J	200	50	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Atrazine	ND		200	70	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Benzaldehyde	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Benzo[a]anthracene	230		200	20	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Benzo[a]pyrene	180	J	200	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Benzo[b]fluoranthene	230		200	32	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Benzo[g,h,i]perylene	87	J	200	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Benzo[k]fluoranthene	110	J	200	26	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Biphenyl	ND		200	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Caprolactam	ND		200	61	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Carbazole	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Chrysene	210		200	45	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Dibenzofuran	77	J	200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Fluoranthene	390		200	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA089

Lab Sample ID: 480-151605-14

Date Collected: 04/09/19 11:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Hexachloroethane	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Indeno[1,2,3-cd]pyrene	91	J	200	25	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Isophorone	ND		200	43	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Naphthalene	ND		200	26	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Nitrobenzene	ND		200	23	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Phenanthrene	74	J	200	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Phenol	ND		200	31	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1
Pyrene	370		200	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	320	T J	ug/Kg	☼	1.54		04/11/19 15:18	04/13/19 01:18	1
Unknown	7400	T J	ug/Kg	☼	1.68		04/11/19 15:18	04/13/19 01:18	1
Unknown	2300	T J	ug/Kg	☼	2.87		04/11/19 15:18	04/13/19 01:18	1
Unknown	1200	T J	ug/Kg	☼	4.87		04/11/19 15:18	04/13/19 01:18	1
Unknown	160	T J	ug/Kg	☼	11.13		04/11/19 15:18	04/13/19 01:18	1
11H-Benzo[b]fluorene	180	T J N	ug/Kg	☼	12.19	243-17-4	04/11/19 15:18	04/13/19 01:18	1
Unknown	200	T J	ug/Kg	☼	14.15		04/11/19 15:18	04/13/19 01:18	1
Unknown	160	T J	ug/Kg	☼	15.18		04/11/19 15:18	04/13/19 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		54 - 120	04/11/19 15:18	04/13/19 01:18	1
2-Fluorobiphenyl (Surr)	86		60 - 120	04/11/19 15:18	04/13/19 01:18	1
2-Fluorophenol (Surr)	82		52 - 120	04/11/19 15:18	04/13/19 01:18	1
Nitrobenzene-d5 (Surr)	89		53 - 120	04/11/19 15:18	04/13/19 01:18	1
Phenol-d5 (Surr)	82		54 - 120	04/11/19 15:18	04/13/19 01:18	1
p-Terphenyl-d14 (Surr)	92		65 - 121	04/11/19 15:18	04/13/19 01:18	1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151605-15

Date Collected: 04/09/19 12:25

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.4	0.39	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,1,2,2-Tetrachloroethane	ND	vs	5.4	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.4	1.2	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,1,2-Trichloroethane	ND	vs	5.4	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,1-Dichloroethane	ND	vs	5.4	0.66	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,1-Dichloroethene	ND	vs	5.4	0.66	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,2,4-Trichlorobenzene	ND	vs	5.4	0.33	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,2-Dibromoethane	ND	vs	5.4	0.69	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,2-Dichlorobenzene	ND	vs	5.4	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151605-15

Date Collected: 04/09/19 12:25

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND	vs	5.4	0.27	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,2-Dichloropropane	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,3-Dichlorobenzene	ND	vs	5.4	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
1,4-Dichlorobenzene	ND	vs	5.4	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
2-Butanone (MEK)	ND	vs	27	2.0	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
2-Hexanone	ND	vs	27	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
4-Methyl-2-pentanone (MIBK)	ND	vs	27	1.8	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Acetone	13	J vs	27	4.5	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Benzene	ND	vs	5.4	0.26	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Bromodichloromethane	ND	vs	5.4	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Bromoform	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Bromomethane	ND	vs	5.4	0.49	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Carbon disulfide	ND	vs	5.4	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Carbon tetrachloride	ND	vs	5.4	0.52	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Chlorobenzene	ND	vs	5.4	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Chloroethane	ND	vs	5.4	1.2	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Chloroform	0.47	J B vs	5.4	0.33	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Chloromethane	ND	vs	5.4	0.33	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
cis-1,2-Dichloroethene	ND	vs	5.4	0.69	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
cis-1,3-Dichloropropene	ND	vs	5.4	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Cyclohexane	ND	vs	5.4	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Dibromochloromethane	ND	vs	5.4	0.69	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Dichlorodifluoromethane	ND	vs	5.4	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Ethylbenzene	1.3	J vs	5.4	0.37	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Isopropylbenzene	ND	vs	5.4	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Methyl acetate	ND	vs	27	3.3	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Methyl tert-butyl ether	ND	vs	5.4	0.53	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Methylcyclohexane	ND	vs	5.4	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Methylene Chloride	ND	vs	5.4	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Styrene	0.29	J B vs	5.4	0.27	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Tetrachloroethene	ND	vs	5.4	0.72	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Toluene	ND	vs	5.4	0.41	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
trans-1,2-Dichloroethene	ND	vs	5.4	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
trans-1,3-Dichloropropene	ND	vs	5.4	2.4	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Trichloroethene	ND	vs	5.4	1.2	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Trichlorofluoromethane	ND	vs	5.4	0.51	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Vinyl chloride	ND	vs	5.4	0.66	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1
Xylenes, Total	ND	vs	11	0.91	ug/Kg	☼	04/13/19 06:49	04/13/19 15:54	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Indane	18	T J N	ug/Kg	☼	11.10	496-11-7	04/13/19 06:49	04/13/19 15:54	1
Unknown	6.4	T J	ug/Kg	☼	11.45		04/13/19 06:49	04/13/19 15:54	1
Benzofuran, 7-methyl-	6.1	T J N	ug/Kg	☼	11.78	17059-52-8	04/13/19 06:49	04/13/19 15:54	1
2-Propenal, 3-phenyl-	6.6	T J N	ug/Kg	☼	11.87	104-55-2	04/13/19 06:49	04/13/19 15:54	1
3-Phenylbut-1-ene	6.0	T J N	ug/Kg	☼	12.21	934-10-1	04/13/19 06:49	04/13/19 15:54	1
Unknown	11	T J	ug/Kg	☼	12.52		04/13/19 06:49	04/13/19 15:54	1
Naphthalene	35	T J N	ug/Kg	☼	12.81	91-20-3	04/13/19 06:49	04/13/19 15:54	1
Dibenzofuran	12	T J N	ug/Kg	☼	13.24	132-64-9	04/13/19 06:49	04/13/19 15:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151605-15

Date Collected: 04/09/19 12:25

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 92.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	04/13/19 06:49	04/13/19 15:54	1
4-Bromofluorobenzene (Surr)	101		72 - 126	04/13/19 06:49	04/13/19 15:54	1
Dibromofluoromethane (Surr)	102		60 - 140	04/13/19 06:49	04/13/19 15:54	1
Toluene-d8 (Surr)	100		71 - 125	04/13/19 06:49	04/13/19 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		180	49	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2,4,6-Trichlorophenol	ND		180	37	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2,4-Dichlorophenol	ND		180	19	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2,4-Dimethylphenol	ND		180	44	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2,4-Dinitrophenol	ND		1800	840	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2,4-Dinitrotoluene	ND		180	38	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2,6-Dinitrotoluene	ND		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2-Chloronaphthalene	ND		180	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2-Chlorophenol	ND		180	33	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2-Methylnaphthalene	110	J	180	37	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2-Methylphenol	ND		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2-Nitroaniline	ND		350	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
2-Nitrophenol	ND		180	52	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
3,3'-Dichlorobenzidine	ND		350	210	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
3-Nitroaniline	ND		350	50	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4,6-Dinitro-2-methylphenol	ND		350	180	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4-Bromophenyl phenyl ether	ND		180	26	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4-Chloro-3-methylphenol	ND		180	45	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4-Chloroaniline	ND		180	45	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4-Chlorophenyl phenyl ether	ND		180	23	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4-Methylphenol	ND		350	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4-Nitroaniline	ND		350	96	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
4-Nitrophenol	ND		350	130	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Acenaphthene	250		180	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Acenaphthylene	79	J	180	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Acetophenone	ND		180	25	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Anthracene	360		180	45	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Atrazine	ND		180	63	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Benzaldehyde	ND		180	150	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Benzo[a]anthracene	260		180	18	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Benzo[a]pyrene	200		180	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Benzo[b]fluoranthene	220		180	29	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Benzo[g,h,i]perylene	120	J	180	19	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Benzo[k]fluoranthene	140	J	180	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Biphenyl	73	J	180	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
bis (2-chloroisopropyl) ether	ND		180	37	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Bis(2-chloroethoxy)methane	ND		180	39	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Bis(2-chloroethyl)ether	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Bis(2-ethylhexyl) phthalate	ND		180	62	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Butyl benzyl phthalate	ND		180	30	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Caprolactam	ND		180	55	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Carbazole	200		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Chrysene	210		180	41	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151605-15

Date Collected: 04/09/19 12:25

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	55	J	180	32	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Dibenzofuran	250		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Diethyl phthalate	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Dimethyl phthalate	ND		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Di-n-butyl phthalate	ND		180	31	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Di-n-octyl phthalate	ND		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Fluoranthene	560		180	19	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Fluorene	280		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Hexachlorobenzene	ND		180	25	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Hexachlorocyclopentadiene	ND		180	25	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Hexachloroethane	ND		180	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Indeno[1,2,3-cd]pyrene	110	J	180	23	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Isophorone	ND		180	39	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Naphthalene	440		180	24	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Nitrobenzene	ND		180	20	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
N-Nitrosodi-n-propylamine	ND		180	31	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
N-Nitrosodiphenylamine	ND		180	150	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Pentachlorophenol	ND		350	180	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Phenanthrene	940		180	27	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Phenol	ND		180	28	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1
Pyrene	470		180	21	ug/Kg	☼	04/11/19 15:18	04/13/19 01:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	970	T J	ug/Kg	☼	1.55		04/11/19 15:18	04/13/19 01:43	1
Unknown	8800	T J	ug/Kg	☼	1.68		04/11/19 15:18	04/13/19 01:43	1
Unknown	2200	T J	ug/Kg	☼	2.87		04/11/19 15:18	04/13/19 01:43	1
Column Bleed	600	T J	ug/Kg	☼	4.86		04/11/19 15:18	04/13/19 01:43	1
Anthracene, 2-methyl-	170	T J N	ug/Kg	☼	11.05	613-12-7	04/11/19 15:18	04/13/19 01:43	1
Unknown	210	T J	ug/Kg	☼	11.12		04/11/19 15:18	04/13/19 01:43	1
11H-Benzo[b]fluorene	200	T J N	ug/Kg	☼	12.18	243-17-4	04/11/19 15:18	04/13/19 01:43	1
Unknown	160	T J	ug/Kg	☼	15.18		04/11/19 15:18	04/13/19 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		54 - 120	04/11/19 15:18	04/13/19 01:43	1
2-Fluorobiphenyl (Surr)	91		60 - 120	04/11/19 15:18	04/13/19 01:43	1
2-Fluorophenol (Surr)	89		52 - 120	04/11/19 15:18	04/13/19 01:43	1
Nitrobenzene-d5 (Surr)	90		53 - 120	04/11/19 15:18	04/13/19 01:43	1
Phenol-d5 (Surr)	88		54 - 120	04/11/19 15:18	04/13/19 01:43	1
p-Terphenyl-d14 (Surr)	98		65 - 121	04/11/19 15:18	04/13/19 01:43	1

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Date Collected: 04/09/19 12:48

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,1,2,2-Tetrachloroethane	ND		490	80	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		490	250	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Date Collected: 04/09/19 12:48

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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		490	100	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,1-Dichloroethane	ND		490	150	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,1-Dichloroethene	ND		490	170	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,2,4-Trichlorobenzene	ND		490	190	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,2-Dibromo-3-Chloropropane	ND		490	250	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,2-Dibromoethane	ND		490	86	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,2-Dichlorobenzene	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,2-Dichloroethane	ND		490	200	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,2-Dichloropropane	ND		490	80	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,3-Dichlorobenzene	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
1,4-Dichlorobenzene	ND		490	69	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
2-Butanone (MEK)	ND		2500	1500	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
2-Hexanone	ND		2500	1000	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
4-Methyl-2-pentanone (MIBK)	ND		2500	160	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Acetone	ND		2500	2000	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Benzene	ND		490	93	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Bromodichloromethane	ND		490	98	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Bromoform	ND		490	250	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Bromomethane	ND		490	110	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Carbon disulfide	ND		490	220	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Carbon tetrachloride	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Chlorobenzene	ND		490	65	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Chloroethane	ND		490	100	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Chloroform	ND		490	340	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Chloromethane	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
cis-1,2-Dichloroethene	ND		490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
cis-1,3-Dichloropropene	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Cyclohexane	ND		490	110	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Dibromochloromethane	ND		490	240	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Dichlorodifluoromethane	ND		490	210	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Ethylbenzene	200	J	490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Isopropylbenzene	ND		490	74	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Methyl acetate	ND		2500	230	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Methyl tert-butyl ether	ND		490	190	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Methylcyclohexane	ND		490	230	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Methylene Chloride	ND		490	97	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Styrene	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Tetrachloroethene	ND		490	66	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Toluene	ND		490	130	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
trans-1,2-Dichloroethene	ND		490	120	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
trans-1,3-Dichloropropene	ND		490	48	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Trichloroethene	ND		490	140	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Trichlorofluoromethane	ND		490	230	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Vinyl chloride	ND		490	160	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4
Xylenes, Total	620	J	980	270	ug/Kg	☼	04/11/19 12:09	04/14/19 14:03	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1,3,5-trimethyl-	2700	T J N	ug/Kg	☼	10.10	108-67-8	04/11/19 12:09	04/14/19 14:03	4
Benzene, 1,2,4-trimethyl-	3900	T J N	ug/Kg	☼	10.47	95-63-6	04/11/19 12:09	04/14/19 14:03	4
Indane	3800	T J N	ug/Kg	☼	11.08	496-11-7	04/11/19 12:09	04/14/19 14:03	4

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Date Collected: 04/09/19 12:48

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzofuran, 2-methyl-	2800	T J N	ug/Kg	☼	11.93	4265-25-2	04/11/19 12:09	04/14/19 14:03	4
Naphthalene	54000	T J N	ug/Kg	☼	12.83	91-20-3	04/11/19 12:09	04/14/19 14:03	4
Unknown	2400	T J	ug/Kg	☼	12.94		04/11/19 12:09	04/14/19 14:03	4
Naphthalene, 1-methyl-	9600	T J N	ug/Kg	☼	13.75	90-12-0	04/11/19 12:09	04/14/19 14:03	4
Naphthalene, 2-methyl-	8300	T J N	ug/Kg	☼	13.90	91-57-6	04/11/19 12:09	04/14/19 14:03	4
Naphthalene, 2,7-dimethyl-	4300	T J N	ug/Kg	☼	14.56	582-16-1	04/11/19 12:09	04/14/19 14:03	4
Naphthalene, 1,6-dimethyl-	5400	T J N	ug/Kg	☼	14.70	575-43-9	04/11/19 12:09	04/14/19 14:03	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		53 - 146	04/11/19 12:09	04/14/19 14:03	4
4-Bromofluorobenzene (Surr)	97		49 - 148	04/11/19 12:09	04/14/19 14:03	4
Dibromofluoromethane (Surr)	98		60 - 140	04/11/19 12:09	04/14/19 14:03	4
Toluene-d8 (Surr)	96		50 - 149	04/11/19 12:09	04/14/19 14:03	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2-Methylnaphthalene	2000		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2-Methylphenol	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4-Methylphenol	ND		370	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Acenaphthene	1400		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Acenaphthylene	310		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Acetophenone	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Anthracene	2600		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Atrazine	ND		190	67	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Benzo[a]anthracene	2100		190	19	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Benzo[a]pyrene	1300		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Benzo[b]fluoranthene	1800		190	31	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Benzo[g,h,i]perylene	660		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Date Collected: 04/09/19 12:48

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	730		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Biphenyl	710		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Caprolactam	ND		190	58	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Carbazole	480		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Chrysene	1500		190	43	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Dibenzofuran	2700		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Fluoranthene	5100		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Fluorene	3100		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Indeno[1,2,3-cd]pyrene	680		190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Isophorone	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Nitrobenzene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Phenol	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1
Pyrene	4000		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzo[c]thiophene	640	T J N	ug/Kg	☼	6.88	270-82-6	04/11/19 15:18	04/13/19 02:07	1
Naphthalene, 1-methyl-	2100	T J N	ug/Kg	☼	7.76	90-12-0	04/11/19 15:18	04/13/19 02:07	1
Naphthalene, 2,6-dimethyl-	1200	T J N	ug/Kg	☼	8.38	581-42-0	04/11/19 15:18	04/13/19 02:07	1
Naphthalene, 2,3-dimethyl-	1300	T J N	ug/Kg	☼	8.47	581-40-8	04/11/19 15:18	04/13/19 02:07	1
Naphthalene, 1,5-dimethyl-	840	T J N	ug/Kg	☼	8.50	571-61-9	04/11/19 15:18	04/13/19 02:07	1
Naphthalene, 2,3,6-trimethyl-	570	T J N	ug/Kg	☼	9.35	829-26-5	04/11/19 15:18	04/13/19 02:07	1
Dibenzofuran, 4-methyl-	880	T J N	ug/Kg	☼	9.69	7320-53-8	04/11/19 15:18	04/13/19 02:07	1
9H-Fluorene, 1-methyl-	630	T J N	ug/Kg	☼	10.12	1730-37-6	04/11/19 15:18	04/13/19 02:07	1
Dibenzothiophene	570	T J N	ug/Kg	☼	10.41	132-65-0	04/11/19 15:18	04/13/19 02:07	1
Anthracene, 2-methyl-	950	T J N	ug/Kg	☼	11.03	613-12-7	04/11/19 15:18	04/13/19 02:07	1
Phenanthrene, 1-methyl-	1500	T J N	ug/Kg	☼	11.06	832-69-9	04/11/19 15:18	04/13/19 02:07	1
Phenanthrene, 2-methyl-	730	T J N	ug/Kg	☼	11.10	2531-84-2	04/11/19 15:18	04/13/19 02:07	1
2-Phenylnaphthalene	670	T J N	ug/Kg	☼	11.32	35465-71-5	04/11/19 15:18	04/13/19 02:07	1
9,10-Dimethylantracene	930	T J N	ug/Kg	☼	11.56	781-43-1	04/11/19 15:18	04/13/19 02:07	1
11H-Benzo[b]fluorene	530	T J N	ug/Kg	☼	12.19	243-17-4	04/11/19 15:18	04/13/19 02:07	1
Perylene	530	T J N	ug/Kg	☼	13.86	198-55-0	04/11/19 15:18	04/13/19 02:07	1
Benzo[j]fluoranthene	670	T J N	ug/Kg	☼	13.99	205-82-3	04/11/19 15:18	04/13/19 02:07	1
1,2:7,8-Dibenzophenanthrene	620	T J N	ug/Kg	☼	14.98	213-46-7	04/11/19 15:18	04/13/19 02:07	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Date Collected: 04/09/19 12:48

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Dibenzo[def,mno]chrysene	690	T J N	ug/Kg	☼	15.20	191-26-4	04/11/19 15:18	04/13/19 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	105		54 - 120				04/11/19 15:18	04/13/19 02:07	1
2-Fluorobiphenyl (Surr)	94		60 - 120				04/11/19 15:18	04/13/19 02:07	1
2-Fluorophenol (Surr)	89		52 - 120				04/11/19 15:18	04/13/19 02:07	1
Nitrobenzene-d5 (Surr)	93		53 - 120				04/11/19 15:18	04/13/19 02:07	1
Phenol-d5 (Surr)	92		54 - 120				04/11/19 15:18	04/13/19 02:07	1
p-Terphenyl-d14 (Surr)	92		65 - 121				04/11/19 15:18	04/13/19 02:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	10000		1900	250	ug/Kg	☼	04/11/19 15:18	04/16/19 16:23	10
Phenanthrene	10000		1900	280	ug/Kg	☼	04/11/19 15:18	04/16/19 16:23	10
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1600	T J	ug/Kg	☼	2.32		04/11/19 15:18	04/16/19 16:23	10
Unknown	1600	T J	ug/Kg	☼	4.36		04/11/19 15:18	04/16/19 16:23	10
Unknown	2800	T J	ug/Kg	☼	4.75		04/11/19 15:18	04/16/19 16:23	10
Unknown	4200	T J	ug/Kg	☼	7.65		04/11/19 15:18	04/16/19 16:23	10
Naphthalene, 1-methyl-	3000	T J N	ug/Kg	☼	9.28	90-12-0	04/11/19 15:18	04/16/19 16:23	10
Naphthalene, 1,4-dimethyl-	1900	T J N	ug/Kg	☼	9.89	571-58-4	04/11/19 15:18	04/16/19 16:23	10
Naphthalene, 2,6-dimethyl-	2000	T J N	ug/Kg	☼	9.99	581-42-0	04/11/19 15:18	04/16/19 16:23	10
Unknown	1700	T J	ug/Kg	☼	10.01		04/11/19 15:18	04/16/19 16:23	10
Unknown	1700	T J	ug/Kg	☼	12.37		04/11/19 15:18	04/16/19 16:23	10
Unknown	3200	T J	ug/Kg	☼	12.46		04/11/19 15:18	04/16/19 16:23	10
Pyrene, 1-methyl-	2900	T J N	ug/Kg	☼	13.49	2381-21-7	04/11/19 15:18	04/16/19 16:23	10
Unknown	1600	T J	ug/Kg	☼	15.69		04/11/19 15:18	04/16/19 16:23	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120				04/11/19 15:18	04/16/19 16:23	10
2-Fluorobiphenyl (Surr)	98		60 - 120				04/11/19 15:18	04/16/19 16:23	10
2-Fluorophenol (Surr)	103		52 - 120				04/11/19 15:18	04/16/19 16:23	10
Nitrobenzene-d5 (Surr)	79		53 - 120				04/11/19 15:18	04/16/19 16:23	10
Phenol-d5 (Surr)	100		54 - 120				04/11/19 15:18	04/16/19 16:23	10
p-Terphenyl-d14 (Surr)	109		65 - 121				04/11/19 15:18	04/16/19 16:23	10

Client Sample ID: DUP01

Lab Sample ID: 480-151605-17

Date Collected: 04/09/19 10:32

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.94	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: DUP01

Lab Sample ID: 480-151605-17

Date Collected: 04/09/19 10:32

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Acetone	ND	vs	29	4.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Chloroform	0.56	J B vs	5.8	0.36	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1
Xylenes, Total	ND	vs	12	0.97	ug/Kg	☼	04/13/19 06:49	04/13/19 16:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Acenaphthene	9.5	T J N	ug/Kg	☼	12.52	83-32-9	04/13/19 06:49	04/13/19 16:20	1
Dibenzofuran	8.4	T J N	ug/Kg	☼	13.23	132-64-9	04/13/19 06:49	04/13/19 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	04/13/19 06:49	04/13/19 16:20	1
4-Bromofluorobenzene (Surr)	100		72 - 126	04/13/19 06:49	04/13/19 16:20	1
Dibromofluoromethane (Surr)	103		60 - 140	04/13/19 06:49	04/13/19 16:20	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: DUP01

Date Collected: 04/09/19 10:32

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-17

Matrix: Solid

Percent Solids: 85.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 125	04/13/19 06:49	04/13/19 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	53	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2,4-Dichlorophenol	ND		190	21	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2-Methylphenol	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Acenaphthene	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Acenaphthylene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Acetophenone	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Anthracene	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Atrazine	ND		190	67	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Benzo[a]pyrene	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Benzo[g,h,i]perylene	ND		190	21	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Biphenyl	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Caprolactam	ND		190	58	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Carbazole	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Chrysene	ND		190	43	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Dibenzofuran	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: DUP01

Date Collected: 04/09/19 10:32

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-17

Matrix: Solid

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Fluoranthene	ND		190	21	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Fluorene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Isophorone	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Naphthalene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Nitrobenzene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Phenanthrene	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Phenol	ND		190	30	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1
Pyrene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	190	T J	ug/Kg	☼	1.53		04/11/19 15:18	04/13/19 02:32	1
Unknown	7700	T J	ug/Kg	☼	1.68		04/11/19 15:18	04/13/19 02:32	1
Unknown	2100	T J	ug/Kg	☼	2.86		04/11/19 15:18	04/13/19 02:32	1
Column Bleed	1200	T J	ug/Kg	☼	4.86		04/11/19 15:18	04/13/19 02:32	1
Unknown	210	T J	ug/Kg	☼	14.19		04/11/19 15:18	04/13/19 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		54 - 120	04/11/19 15:18	04/13/19 02:32	1
2-Fluorobiphenyl (Surr)	83		60 - 120	04/11/19 15:18	04/13/19 02:32	1
2-Fluorophenol (Surr)	82		52 - 120	04/11/19 15:18	04/13/19 02:32	1
Nitrobenzene-d5 (Surr)	82		53 - 120	04/11/19 15:18	04/13/19 02:32	1
Phenol-d5 (Surr)	87		54 - 120	04/11/19 15:18	04/13/19 02:32	1
p-Terphenyl-d14 (Surr)	90		65 - 121	04/11/19 15:18	04/13/19 02:32	1

Client Sample ID: PWEXSNA122

Date Collected: 04/09/19 09:05

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-18

Matrix: Solid

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.42	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.93	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSNA122

Lab Sample ID: 480-151605-18

Date Collected: 04/09/19 09:05

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Acetone	ND	vs	29	4.8	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Bromodichloromethane	ND	vs	5.7	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Chloroform	0.45	J B vs	5.7	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Chloromethane	ND	vs	5.7	0.35	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Styrene	ND	vs	5.7	0.29	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Tetrachloroethene	ND	vs	5.7	0.77	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	04/13/19 06:49	04/13/19 16:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/13/19 06:49	04/13/19 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	04/13/19 06:49	04/13/19 16:46	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/13/19 06:49	04/13/19 16:46	1
Dibromofluoromethane (Surr)	102		60 - 140	04/13/19 06:49	04/13/19 16:46	1
Toluene-d8 (Surr)	101		71 - 125	04/13/19 06:49	04/13/19 16:46	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSNA122

Lab Sample ID: 480-151605-18

Date Collected: 04/09/19 09:05

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2-Methylphenol	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4-Methylphenol	ND		370	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
4-Nitrophenol	ND		370	140	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Acenaphthene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Acenaphthylene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Acetophenone	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Anthracene	92 J		190	48	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Atrazine	ND		190	67	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Benzo[a]anthracene	150 J		190	19	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Benzo[a]pyrene	130 J		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Benzo[b]fluoranthene	140 J		190	31	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Benzo[g,h,i]perylene	65 J		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Benzo[k]fluoranthene	110 J		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Biphenyl	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Caprolactam	ND		190	58	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Carbazole	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Chrysene	150 J		190	43	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Dibenzofuran	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1

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Client Sample Results

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

Job ID: 480-151605-1

Client Sample ID: PWEXSNA122

Lab Sample ID: 480-151605-18

Date Collected: 04/09/19 09:05

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	310		190	20	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Fluorene	ND		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Indeno[1,2,3-cd]pyrene	68 J		190	24	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Isophorone	ND		190	41	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Naphthalene	ND		190	25	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Nitrobenzene	ND		190	22	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Phenanthrene	130 J		190	28	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Phenol	ND		190	29	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1
Pyrene	240		190	23	ug/Kg	☼	04/11/19 15:18	04/13/19 02:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	360	T J	ug/Kg	☼	1.51		04/11/19 15:18	04/13/19 02:57	1
Unknown	410	T J	ug/Kg	☼	1.55		04/11/19 15:18	04/13/19 02:57	1
Unknown	9000	T J	ug/Kg	☼	1.67		04/11/19 15:18	04/13/19 02:57	1
Unknown	2200	T J	ug/Kg	☼	2.85		04/11/19 15:18	04/13/19 02:57	1
Column Bleed	1300	T J	ug/Kg	☼	4.86		04/11/19 15:18	04/13/19 02:57	1
Column Bleed	170	T J	ug/Kg	☼	6.31		04/11/19 15:18	04/13/19 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		54 - 120	04/11/19 15:18	04/13/19 02:57	1
2-Fluorobiphenyl (Surr)	87		60 - 120	04/11/19 15:18	04/13/19 02:57	1
2-Fluorophenol (Surr)	85		52 - 120	04/11/19 15:18	04/13/19 02:57	1
Nitrobenzene-d5 (Surr)	89		53 - 120	04/11/19 15:18	04/13/19 02:57	1
Phenol-d5 (Surr)	87		54 - 120	04/11/19 15:18	04/13/19 02:57	1
p-Terphenyl-d14 (Surr)	91		65 - 121	04/11/19 15:18	04/13/19 02:57	1

Surrogate Summary

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

Job ID: 480-151605-1

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 (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-151605-1	PWEXBM04074	111	101	105	100
480-151605-2	PWEXBM04077	110	99	104	101
480-151605-3	PWEXSWNA131	108	95	104	101
480-151605-4	PWEXSWNA121	112	96	106	101
480-151605-4 MS	PWEXSWNA121	97	104	101	102
480-151605-4 MSD	PWEXSWNA121	98	105	103	102
480-151605-5	PWEXBM04078	111	95	106	101
480-151605-6	PWEXSWNA051	113	96	107	100
480-151605-7	PWEXSWNA133	115	96	107	100
480-151605-8	PWEXSWNA134	113	94	106	102
480-151605-9	PWEXSWNA093	110	101	105	100
480-151605-10	PWEXSWNA090	112	101	104	100
480-151605-11	PWEXSWNA091	108	99	103	101
480-151605-13	PWEXSWNA152	108	100	103	101
480-151605-14	PWEXSWNA089	106	101	102	100
480-151605-15	PWEXSWNA087	107	101	102	100
480-151605-17	DUP01	108	100	103	101
480-151605-18	PWEXSNA122	105	98	102	101
LCS 480-467600/1-A	Lab Control Sample	104	105	100	103
LCS 480-467780/1-A	Lab Control Sample	105	104	101	101
MB 480-467600/2-A	Method Blank	107	98	104	102
MB 480-467780/2-A	Method Blank	106	97	102	101

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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 (53-146)	BFB (49-148)	DBFM (60-140)	TOL (50-149)
480-151605-12	PWEXSWNA094	100	101	99	97
480-151605-12 MS	PWEXSWNA094	105	103	100	99
480-151605-12 MSD	PWEXSWNA094	103	104	101	102
480-151605-16	PWEXSWNA088	104	97	98	96
LCS 480-467456/1-A	Lab Control Sample	97	94	87	98
MB 480-467456/2-A	Method Blank	95	89	88	101

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: AECOM

Job ID: 480-151605-1

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

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 (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (65-121)
480-151605-1	PWEXBM04074	104	87	84	91	92	101
480-151605-2	PWEXBM04077	95	87	90	88	89	91
480-151605-3	PWEXSWNA131	93	87	83	86	85	92
480-151605-4	PWEXSWNA121	111	94	89	98	95	102
480-151605-5	PWEXBM04078	100	94	88	96	93	100
480-151605-6	PWEXSWNA051	96	86	84	87	86	93
480-151605-7	PWEXSWNA133	98	86	86	90	87	95
480-151605-8	PWEXSWNA134	91	88	85	87	86	93
480-151605-9	PWEXSWNA093	92	91	81	86	86	87
480-151605-9 - DL	PWEXSWNA093	105	100	112	80	85	103
480-151605-10	PWEXSWNA090	97	97	93	95	95	102
480-151605-11	PWEXSWNA091	90	87	84	84	89	90
480-151605-12	PWEXSWNA094	100	100	92	95	98	96
480-151605-12 - DL	PWEXSWNA094	0 X	0 X	0 X	0 X	0 X	0 X
480-151605-12 MS	PWEXSWNA094	106	90	81	93	86	97
480-151605-12 MS - DL	PWEXSWNA094	210 X	69	182 X	123 X	97	111
480-151605-12 MSD	PWEXSWNA094	108	91	79	97	90	98
480-151605-12 MSD - DL	PWEXSWNA094	213 X	105	202 X	90	68	101
480-151605-13	PWEXSWNA152	96	88	85	87	85	89
480-151605-14	PWEXSWNA089	92	86	82	89	82	92
480-151605-15	PWEXSWNA087	99	91	89	90	88	98
480-151605-16	PWEXSWNA088	105	94	89	93	92	92
480-151605-16 - DL	PWEXSWNA088	85	98	103	79	100	109
480-151605-17	DUP01	94	83	82	82	87	90
480-151605-18	PWEXSNA122	99	87	85	89	87	91
LCS 480-467494/2-A	Lab Control Sample	99	91	82	87	85	96
MB 480-467494/1-A	Method Blank	89	84	78	85	79	90

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: MB 480-467456/2-A

Matrix: Solid

Analysis Batch: 467835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		83	23	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,1,2,2-Tetrachloroethane	ND		83	14	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		83	42	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,1,2-Trichloroethane	ND		83	18	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,1-Dichloroethane	ND		83	26	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,1-Dichloroethene	ND		83	29	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,2,4-Trichlorobenzene	ND		83	32	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,2-Dibromo-3-Chloropropane	ND		83	42	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,2-Dibromoethane	ND		83	15	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,2-Dichlorobenzene	ND		83	21	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,2-Dichloroethane	ND		83	34	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,2-Dichloropropane	ND		83	14	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,3-Dichlorobenzene	ND		83	22	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
1,4-Dichlorobenzene	ND		83	12	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
2-Butanone (MEK)	ND		420	250	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
2-Hexanone	ND		420	170	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
4-Methyl-2-pentanone (MIBK)	ND		420	27	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Acetone	ND		420	340	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Benzene	ND		83	16	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Bromodichloromethane	ND		83	17	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Bromoform	ND		83	42	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Bromomethane	ND		83	18	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Carbon disulfide	ND		83	38	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Carbon tetrachloride	ND		83	21	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Chlorobenzene	ND		83	11	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Chloroethane	ND		83	17	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Chloroform	ND		83	57	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Chloromethane	ND		83	20	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
cis-1,2-Dichloroethene	ND		83	23	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
cis-1,3-Dichloropropene	ND		83	20	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Cyclohexane	ND		83	19	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Dibromochloromethane	ND		83	40	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Dichlorodifluoromethane	ND		83	36	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Ethylbenzene	ND		83	24	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Isopropylbenzene	ND		83	13	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Methyl acetate	ND		420	40	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Methyl tert-butyl ether	ND		83	32	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Methylcyclohexane	ND		83	39	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Methylene Chloride	ND		83	17	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Styrene	ND		83	20	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Tetrachloroethene	ND		83	11	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Toluene	ND		83	22	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
trans-1,2-Dichloroethene	ND		83	20	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
trans-1,3-Dichloropropene	ND		83	8.2	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Trichloroethene	ND		83	23	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Trichlorofluoromethane	ND		83	39	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Vinyl chloride	ND		83	28	ug/Kg		04/11/19 12:09	04/14/19 08:46	1
Xylenes, Total	ND		170	46	ug/Kg		04/11/19 12:09	04/14/19 08:46	1

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: MB 480-467456/2-A

Matrix: Solid

Analysis Batch: 467835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467456

<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>				04/11/19 12:09	04/14/19 08:46	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	95		53 - 146				04/11/19 12:09	04/14/19 08:46	1
4-Bromofluorobenzene (Surr)	89		49 - 148				04/11/19 12:09	04/14/19 08:46	1
Dibromofluoromethane (Surr)	88		60 - 140				04/11/19 12:09	04/14/19 08:46	1
Toluene-d8 (Surr)	101		50 - 149				04/11/19 12:09	04/14/19 08:46	1

Lab Sample ID: LCS 480-467456/1-A

Matrix: Solid

Analysis Batch: 467835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467456

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
1,1,1-Trichloroethane	2500	2380		ug/Kg		95	68 - 130
1,1,2,2-Tetrachloroethane	2500	2780		ug/Kg		111	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2130		ug/Kg		85	10 - 179
1,1,2-Trichloroethane	2500	2590		ug/Kg		103	80 - 120
1,1-Dichloroethane	2500	2360		ug/Kg		94	78 - 121
1,1-Dichloroethene	2500	2020		ug/Kg		81	48 - 133
1,2,4-Trichlorobenzene	2500	2400		ug/Kg		96	70 - 140
1,2-Dibromo-3-Chloropropane	2500	2360		ug/Kg		94	56 - 122
1,2-Dibromoethane	2500	2510		ug/Kg		100	80 - 120
1,2-Dichlorobenzene	2500	2530		ug/Kg		101	78 - 125
1,2-Dichloroethane	2500	2360		ug/Kg		95	74 - 127
1,2-Dichloropropane	2500	2710		ug/Kg		109	80 - 120
1,3-Dichlorobenzene	2500	2660		ug/Kg		106	80 - 120
1,4-Dichlorobenzene	2500	2670		ug/Kg		107	80 - 120
2-Butanone (MEK)	12500	9780		ug/Kg		78	54 - 149
2-Hexanone	12500	13900		ug/Kg		111	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	13100		ug/Kg		105	74 - 120
Acetone	12500	7150		ug/Kg		57	47 - 141
Benzene	2500	2550		ug/Kg		102	77 - 125
Bromodichloromethane	2500	2410		ug/Kg		96	71 - 121
Bromoform	2500	2150		ug/Kg		86	48 - 125
Bromomethane	2500	1800		ug/Kg		72	39 - 149
Carbon disulfide	2500	2140		ug/Kg		86	40 - 136
Carbon tetrachloride	2500	2370		ug/Kg		95	54 - 135
Chlorobenzene	2500	2500		ug/Kg		100	76 - 126
Chloroethane	2500	1870		ug/Kg		75	23 - 150
Chloroform	2500	2310		ug/Kg		92	78 - 120
Chloromethane	2500	2110		ug/Kg		84	61 - 124
cis-1,2-Dichloroethene	2500	2230		ug/Kg		89	79 - 124
cis-1,3-Dichloropropene	2500	2700		ug/Kg		108	75 - 121
Cyclohexane	2500	2710		ug/Kg		108	49 - 129
Dibromochloromethane	2500	2400		ug/Kg		96	64 - 120
Dichlorodifluoromethane	2500	2110		ug/Kg		84	10 - 150
Ethylbenzene	2500	2570		ug/Kg		103	78 - 124

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: LCS 480-467456/1-A

Matrix: Solid

Analysis Batch: 467835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	2500	2820		ug/Kg		113	76 - 120
Methyl acetate	5000	3770		ug/Kg		75	71 - 123
Methyl tert-butyl ether	2500	1990		ug/Kg		80	67 - 137
Methylcyclohexane	2500	2640		ug/Kg		106	50 - 130
Methylene Chloride	2500	2290		ug/Kg		92	75 - 118
Styrene	2500	2560		ug/Kg		102	80 - 120
Tetrachloroethene	2500	2420		ug/Kg		97	73 - 133
Toluene	2500	2540		ug/Kg		102	75 - 124
trans-1,2-Dichloroethene	2500	2240		ug/Kg		89	74 - 129
trans-1,3-Dichloropropene	2500	2640		ug/Kg		106	73 - 120
Trichloroethene	2500	2510		ug/Kg		101	75 - 131
Trichlorofluoromethane	2500	1800		ug/Kg		72	29 - 158
Vinyl chloride	2500	2100		ug/Kg		84	59 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		53 - 146
4-Bromofluorobenzene (Surr)	94		49 - 148
Dibromofluoromethane (Surr)	87		60 - 140
Toluene-d8 (Surr)	98		50 - 149

Lab Sample ID: 480-151605-12 MS

Matrix: Solid

Analysis Batch: 467833

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		2880	2890		ug/Kg	☼	100	64 - 142
1,1,2,2-Tetrachloroethane	ND		2880	2360		ug/Kg	☼	82	56 - 128
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2880	3090		ug/Kg	☼	107	64 - 154
1,1,2-Trichloroethane	ND		2880	2680		ug/Kg	☼	93	63 - 133
1,1-Dichloroethane	ND		2880	2700		ug/Kg	☼	94	64 - 135
1,1-Dichloroethene	ND		2880	2730		ug/Kg	☼	95	62 - 145
1,2,4-Trichlorobenzene	ND		2880	2970		ug/Kg	☼	103	56 - 145
1,2-Dibromo-3-Chloropropane	ND	F1 F2	2880	1900		ug/Kg	☼	66	40 - 122
1,2-Dibromoethane	ND		2880	2420		ug/Kg	☼	84	65 - 133
1,2-Dichlorobenzene	ND		2880	2690		ug/Kg	☼	93	68 - 133
1,2-Dichloroethane	ND		2880	2660		ug/Kg	☼	92	62 - 135
1,2-Dichloropropane	ND		2880	2800		ug/Kg	☼	97	67 - 139
1,3-Dichlorobenzene	ND		2880	2550		ug/Kg	☼	88	68 - 136
1,4-Dichlorobenzene	ND		2880	2740		ug/Kg	☼	95	69 - 136
2-Butanone (MEK)	ND		14400	12700		ug/Kg	☼	88	46 - 132
2-Hexanone	ND		14400	11300		ug/Kg	☼	78	44 - 130
4-Methyl-2-pentanone (MIBK)	ND		14400	12800		ug/Kg	☼	89	49 - 125
Acetone	ND		14400	13300		ug/Kg	☼	92	32 - 136
Benzene	120	J	2880	2900		ug/Kg	☼	96	68 - 137
Bromodichloromethane	ND		2880	2620		ug/Kg	☼	91	62 - 136
Bromoform	ND		2880	2480		ug/Kg	☼	86	43 - 134
Bromomethane	ND		2880	2490		ug/Kg	☼	86	38 - 137
Carbon disulfide	ND		2880	2590		ug/Kg	☼	90	52 - 139

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-12 MS

Matrix: Solid

Analysis Batch: 467833

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	ND		2880	2720		ug/Kg	☼	94	60 - 150
Chlorobenzene	ND		2880	2620		ug/Kg	☼	91	67 - 136
Chloroethane	ND		2880	2650		ug/Kg	☼	92	34 - 140
Chloroform	ND		2880	2530		ug/Kg	☼	88	64 - 133
Chloromethane	ND		2880	1990		ug/Kg	☼	69	47 - 143
cis-1,2-Dichloroethene	ND		2880	2700		ug/Kg	☼	94	65 - 137
cis-1,3-Dichloropropene	ND		2880	2390		ug/Kg	☼	83	61 - 148
Cyclohexane	ND		2880	3260		ug/Kg	☼	113	63 - 149
Dibromochloromethane	ND		2880	2210		ug/Kg	☼	77	57 - 137
Dichlorodifluoromethane	ND		2880	1730		ug/Kg	☼	60	26 - 150
Ethylbenzene	730		2880	3480		ug/Kg	☼	95	67 - 136
Isopropylbenzene	130	J	2880	3080		ug/Kg	☼	102	65 - 147
Methyl acetate	ND		5770	5450		ug/Kg	☼	94	50 - 124
Methyl tert-butyl ether	ND		2880	2760		ug/Kg	☼	96	60 - 130
Methylcyclohexane	ND		2880	3320		ug/Kg	☼	115	67 - 150
Methylene Chloride	ND		2880	2840		ug/Kg	☼	99	63 - 138
Styrene	ND		2880	2700		ug/Kg	☼	94	68 - 137
Tetrachloroethene	ND		2880	2810		ug/Kg	☼	98	67 - 150
Toluene	ND		2880	2790		ug/Kg	☼	97	68 - 137
trans-1,2-Dichloroethene	ND		2880	2690		ug/Kg	☼	93	65 - 138
trans-1,3-Dichloropropene	ND		2880	2400		ug/Kg	☼	83	58 - 143
Trichloroethene	ND		2880	2950		ug/Kg	☼	102	69 - 143
Trichlorofluoromethane	ND		2880	2680		ug/Kg	☼	93	35 - 150
Vinyl chloride	ND		2880	2120		ug/Kg	☼	73	56 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		53 - 146
4-Bromofluorobenzene (Surr)	103		49 - 148
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	99		50 - 149

Lab Sample ID: 480-151605-12 MSD

Matrix: Solid

Analysis Batch: 467833

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1-Trichloroethane	ND		2900	2850		ug/Kg	☼	98	64 - 142	2	20
1,1,2,2-Tetrachloroethane	ND		2900	2440		ug/Kg	☼	84	56 - 128	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2900	3140		ug/Kg	☼	108	64 - 154	2	20
1,1,2-Trichloroethane	ND		2900	2720		ug/Kg	☼	94	63 - 133	1	20
1,1-Dichloroethane	ND		2900	2690		ug/Kg	☼	93	64 - 135	0	20
1,1-Dichloroethene	ND		2900	2870		ug/Kg	☼	99	62 - 145	5	20
1,2,4-Trichlorobenzene	ND		2900	2950		ug/Kg	☼	102	56 - 145	1	20
1,2-Dibromo-3-Chloropropane	ND	F1 F2	2900	5640	F1 F2	ug/Kg	☼	195	40 - 122	99	20
1,2-Dibromoethane	ND		2900	2460		ug/Kg	☼	85	65 - 133	2	20
1,2-Dichlorobenzene	ND		2900	2590		ug/Kg	☼	90	68 - 133	4	20
1,2-Dichloroethane	ND		2900	2680		ug/Kg	☼	92	62 - 135	1	20
1,2-Dichloropropane	ND		2900	2740		ug/Kg	☼	95	67 - 139	2	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-12 MSD

Matrix: Solid

Analysis Batch: 467833

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	ND		2900	2640		ug/Kg	☼	91	68 - 136	4	20
1,4-Dichlorobenzene	ND		2900	2620		ug/Kg	☼	91	69 - 136	4	20
2-Butanone (MEK)	ND		14500	12400		ug/Kg	☼	86	46 - 132	2	20
2-Hexanone	ND		14500	11600		ug/Kg	☼	80	44 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		14500	12600		ug/Kg	☼	87	49 - 125	2	20
Acetone	ND		14500	12900		ug/Kg	☼	89	32 - 136	3	20
Benzene	120	J	2900	2830		ug/Kg	☼	93	68 - 137	3	20
Bromodichloromethane	ND		2900	2460		ug/Kg	☼	85	62 - 136	6	20
Bromoform	ND		2900	2500		ug/Kg	☼	86	43 - 134	1	20
Bromomethane	ND		2900	2590		ug/Kg	☼	89	38 - 137	4	20
Carbon disulfide	ND		2900	2620		ug/Kg	☼	90	52 - 139	1	20
Carbon tetrachloride	ND		2900	2810		ug/Kg	☼	97	60 - 150	3	20
Chlorobenzene	ND		2900	2800		ug/Kg	☼	97	67 - 136	7	20
Chloroethane	ND		2900	2580		ug/Kg	☼	89	34 - 140	2	20
Chloroform	ND		2900	2610		ug/Kg	☼	90	64 - 133	3	20
Chloromethane	ND		2900	1920		ug/Kg	☼	66	47 - 143	3	20
cis-1,2-Dichloroethene	ND		2900	2660		ug/Kg	☼	92	65 - 137	2	20
cis-1,3-Dichloropropene	ND		2900	2460		ug/Kg	☼	85	61 - 148	3	20
Cyclohexane	ND		2900	3300		ug/Kg	☼	114	63 - 149	1	20
Dibromochloromethane	ND		2900	2280		ug/Kg	☼	79	57 - 137	3	20
Dichlorodifluoromethane	ND		2900	1520		ug/Kg	☼	52	26 - 150	13	20
Ethylbenzene	730		2900	3620		ug/Kg	☼	100	67 - 136	4	20
Isopropylbenzene	130	J	2900	3070		ug/Kg	☼	102	65 - 147	0	20
Methyl acetate	ND		5790	5130		ug/Kg	☼	89	50 - 124	6	20
Methyl tert-butyl ether	ND		2900	2740		ug/Kg	☼	95	60 - 130	1	20
Methylcyclohexane	ND		2900	3350		ug/Kg	☼	116	67 - 150	1	20
Methylene Chloride	ND		2900	2550		ug/Kg	☼	88	63 - 138	11	20
Styrene	ND		2900	2710		ug/Kg	☼	94	68 - 137	0	20
Tetrachloroethene	ND		2900	2940		ug/Kg	☼	102	67 - 150	4	20
Toluene	ND		2900	2880		ug/Kg	☼	100	68 - 137	3	20
trans-1,2-Dichloroethene	ND		2900	2680		ug/Kg	☼	93	65 - 138	0	20
trans-1,3-Dichloropropene	ND		2900	2440		ug/Kg	☼	84	58 - 143	2	20
Trichloroethene	ND		2900	2810		ug/Kg	☼	97	69 - 143	5	20
Trichlorofluoromethane	ND		2900	2930		ug/Kg	☼	101	35 - 150	9	20
Vinyl chloride	ND		2900	2190		ug/Kg	☼	76	56 - 150	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		53 - 146
4-Bromofluorobenzene (Surr)	104		49 - 148
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	102		50 - 149

Lab Sample ID: MB 480-467600/2-A

Matrix: Solid

Analysis Batch: 467604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/12/19 08:09	04/12/19 11:03	1

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: MB 480-467600/2-A

Matrix: Solid

Analysis Batch: 467604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
2-Hexanone	ND		25	2.5	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Acetone	ND		25	4.2	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Benzene	ND		5.0	0.25	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Bromoform	ND		5.0	2.5	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Chloroform	0.359	J	5.0	0.31	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Methyl acetate	ND		25	3.0	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Styrene	ND		5.0	0.25	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Toluene	ND		5.0	0.38	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/12/19 08:09	04/12/19 11:03	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/12/19 08:09	04/12/19 11:03	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: MB 480-467600/2-A

Matrix: Solid

Analysis Batch: 467604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467600

<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>		ug/Kg				04/12/19 08:09	04/12/19 11:03	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	107		64 - 126				04/12/19 08:09	04/12/19 11:03	1
4-Bromofluorobenzene (Surr)	98		72 - 126				04/12/19 08:09	04/12/19 11:03	1
Dibromofluoromethane (Surr)	104		60 - 140				04/12/19 08:09	04/12/19 11:03	1
Toluene-d8 (Surr)	102		71 - 125				04/12/19 08:09	04/12/19 11:03	1

Lab Sample ID: LCS 480-467600/1-A

Matrix: Solid

Analysis Batch: 467604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467600

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0		ug/Kg		100	60 - 140
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	78 - 122
1,1-Dichloroethane	50.0	50.3		ug/Kg		101	73 - 126
1,1-Dichloroethene	50.0	48.2		ug/Kg		96	59 - 125
1,2,4-Trichlorobenzene	50.0	45.9		ug/Kg		92	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	40.2		ug/Kg		80	63 - 124
1,2-Dibromoethane	50.0	49.1		ug/Kg		98	78 - 120
1,2-Dichlorobenzene	50.0	47.7		ug/Kg		95	75 - 120
1,2-Dichloroethane	50.0	47.8		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	50.6		ug/Kg		101	75 - 124
1,3-Dichlorobenzene	50.0	48.6		ug/Kg		97	74 - 120
1,4-Dichlorobenzene	50.0	48.1		ug/Kg		96	73 - 120
2-Butanone (MEK)	250	245		ug/Kg		98	70 - 134
2-Hexanone	250	242		ug/Kg		97	59 - 130
4-Methyl-2-pentanone (MIBK)	250	242		ug/Kg		97	65 - 133
Acetone	250	227		ug/Kg		91	61 - 137
Benzene	50.0	49.9		ug/Kg		100	79 - 127
Bromodichloromethane	50.0	47.3		ug/Kg		95	80 - 122
Bromoform	50.0	51.6		ug/Kg		103	68 - 126
Bromomethane	50.0	53.0		ug/Kg		106	37 - 149
Carbon disulfide	50.0	49.4		ug/Kg		99	64 - 131
Carbon tetrachloride	50.0	50.1		ug/Kg		100	75 - 135
Chlorobenzene	50.0	49.8		ug/Kg		100	76 - 124
Chloroethane	50.0	50.0		ug/Kg		100	69 - 135
Chloroform	50.0	49.5		ug/Kg		99	80 - 120
Chloromethane	50.0	47.8		ug/Kg		96	63 - 127
cis-1,2-Dichloroethene	50.0	48.2		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	80 - 120
Cyclohexane	50.0	47.9		ug/Kg		96	65 - 120
Dibromochloromethane	50.0	49.1		ug/Kg		98	76 - 125
Dichlorodifluoromethane	50.0	41.1		ug/Kg		82	57 - 142
Ethylbenzene	50.0	50.2		ug/Kg		100	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: LCS 480-467600/1-A

Matrix: Solid

Analysis Batch: 467604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	45.9		ug/Kg		92	72 - 120
Methyl acetate	100	91.2		ug/Kg		91	55 - 136
Methyl tert-butyl ether	50.0	45.1		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	46.3		ug/Kg		93	60 - 140
Methylene Chloride	50.0	42.9		ug/Kg		86	61 - 127
Styrene	50.0	46.8		ug/Kg		94	80 - 120
Tetrachloroethene	50.0	53.1		ug/Kg		106	74 - 122
Toluene	50.0	50.1		ug/Kg		100	74 - 128
trans-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	78 - 126
trans-1,3-Dichloropropene	50.0	49.7		ug/Kg		99	73 - 123
Trichloroethene	50.0	49.2		ug/Kg		98	77 - 129
Trichlorofluoromethane	50.0	52.3		ug/Kg		105	65 - 146
Vinyl chloride	50.0	51.2		ug/Kg		102	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	103		71 - 125

Lab Sample ID: MB 480-467780/2-A

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
2-Hexanone	ND		25	2.5	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Acetone	ND		25	4.2	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Benzene	ND		5.0	0.25	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Bromoform	ND		5.0	2.5	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/13/19 06:49	04/13/19 09:41	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: MB 480-467780/2-A

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Chloroform	0.449	J	5.0	0.31	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Methyl acetate	ND		25	3.0	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Styrene	0.335	J	5.0	0.25	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Toluene	ND		5.0	0.38	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/13/19 06:49	04/13/19 09:41	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/13/19 06:49	04/13/19 09:41	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	163	T J	ug/Kg		1.95		04/13/19 06:49	04/13/19 09:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	04/13/19 06:49	04/13/19 09:41	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/13/19 06:49	04/13/19 09:41	1
Dibromofluoromethane (Surr)	102		60 - 140	04/13/19 06:49	04/13/19 09:41	1
Toluene-d8 (Surr)	101		71 - 125	04/13/19 06:49	04/13/19 09:41	1

Lab Sample ID: LCS 480-467780/1-A

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.9		ug/Kg		106	60 - 140
1,1,2-Trichloroethane	50.0	49.5		ug/Kg		99	78 - 122
1,1-Dichloroethane	50.0	52.5		ug/Kg		105	73 - 126
1,1-Dichloroethene	50.0	50.4		ug/Kg		101	59 - 125
1,2,4-Trichlorobenzene	50.0	47.9		ug/Kg		96	64 - 120

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: LCS 480-467780/1-A

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	40.7		ug/Kg		81	63 - 124
1,2-Dibromoethane	50.0	49.3		ug/Kg		99	78 - 120
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	77 - 122
1,2-Dichloropropane	50.0	51.7		ug/Kg		103	75 - 124
1,3-Dichlorobenzene	50.0	49.8		ug/Kg		100	74 - 120
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	73 - 120
2-Butanone (MEK)	250	254		ug/Kg		102	70 - 134
2-Hexanone	250	251		ug/Kg		100	59 - 130
4-Methyl-2-pentanone (MIBK)	250	251		ug/Kg		101	65 - 133
Acetone	250	240		ug/Kg		96	61 - 137
Benzene	50.0	51.9		ug/Kg		104	79 - 127
Bromodichloromethane	50.0	49.4		ug/Kg		99	80 - 122
Bromoform	50.0	51.9		ug/Kg		104	68 - 126
Bromomethane	50.0	54.0		ug/Kg		108	37 - 149
Carbon disulfide	50.0	52.4		ug/Kg		105	64 - 131
Carbon tetrachloride	50.0	52.7		ug/Kg		105	75 - 135
Chlorobenzene	50.0	50.3		ug/Kg		101	76 - 124
Chloroethane	50.0	54.7		ug/Kg		109	69 - 135
Chloroform	50.0	51.8		ug/Kg		104	80 - 120
Chloromethane	50.0	49.4		ug/Kg		99	63 - 127
cis-1,2-Dichloroethene	50.0	50.1		ug/Kg		100	81 - 120
cis-1,3-Dichloropropene	50.0	50.3		ug/Kg		101	80 - 120
Cyclohexane	50.0	50.0		ug/Kg		100	65 - 120
Dibromochloromethane	50.0	49.9		ug/Kg		100	76 - 125
Dichlorodifluoromethane	50.0	41.0		ug/Kg		82	57 - 142
Ethylbenzene	50.0	50.5		ug/Kg		101	80 - 120
Isopropylbenzene	50.0	46.2		ug/Kg		92	72 - 120
Methyl acetate	100	95.6		ug/Kg		96	55 - 136
Methyl tert-butyl ether	50.0	46.7		ug/Kg		93	63 - 125
Methylcyclohexane	50.0	49.0		ug/Kg		98	60 - 140
Methylene Chloride	50.0	46.7		ug/Kg		93	61 - 127
Styrene	50.0	47.9		ug/Kg		96	80 - 120
Tetrachloroethene	50.0	53.4		ug/Kg		107	74 - 122
Toluene	50.0	50.5		ug/Kg		101	74 - 128
trans-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	78 - 126
trans-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	73 - 123
Trichloroethene	50.0	50.7		ug/Kg		101	77 - 129
Trichlorofluoromethane	50.0	55.6		ug/Kg		111	65 - 146
Vinyl chloride	50.0	53.0		ug/Kg		106	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		64 - 126
4-Bromofluorobenzene (Surr)	104		72 - 126
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	101		71 - 125

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-4 MS

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: PWEXSWNA121

Prep Type: Total/NA

Prep Batch: 467780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	vs	57.7	47.4	vs	ug/Kg	☼	82	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1 vs	57.7	39.8	F1 vs	ug/Kg	☼	69	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	57.7	48.0	vs	ug/Kg	☼	83	60 - 140
1,1,2-Trichloroethane	ND	F1 vs	57.7	45.3	vs	ug/Kg	☼	78	78 - 122
1,1-Dichloroethane	ND	vs	57.7	50.4	vs	ug/Kg	☼	87	73 - 126
1,1-Dichloroethene	ND	vs	57.7	46.4	vs	ug/Kg	☼	80	59 - 125
1,2,4-Trichlorobenzene	ND	F1 vs	57.7	29.3	F1 vs	ug/Kg	☼	51	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1 vs	57.7	27.1	F1 vs	ug/Kg	☼	47	63 - 124
1,2-Dibromoethane	ND	F1 vs	57.7	41.9	F1 vs	ug/Kg	☼	73	78 - 120
1,2-Dichlorobenzene	ND	F1 vs	57.7	38.3	F1 vs	ug/Kg	☼	66	75 - 120
1,2-Dichloroethane	ND	vs	57.7	46.2	vs	ug/Kg	☼	80	77 - 122
1,2-Dichloropropane	ND	vs	57.7	49.9	vs	ug/Kg	☼	87	75 - 124
1,3-Dichlorobenzene	ND	F1 vs	57.7	37.8	F1 vs	ug/Kg	☼	65	74 - 120
1,4-Dichlorobenzene	ND	F1 vs	57.7	37.1	F1 vs	ug/Kg	☼	64	73 - 120
2-Butanone (MEK)	ND	F1 vs	288	170	F1 vs	ug/Kg	☼	59	70 - 134
2-Hexanone	ND	vs	288	172	vs	ug/Kg	☼	60	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	288	183	F1 vs	ug/Kg	☼	64	65 - 133
Acetone	ND	F1 vs	288	155	F1 vs	ug/Kg	☼	54	61 - 137
Benzene	ND	vs	57.7	49.0	vs	ug/Kg	☼	85	79 - 127
Bromodichloromethane	ND	F1 vs	57.7	46.3	vs	ug/Kg	☼	80	80 - 122
Bromoform	ND	vs	57.7	40.5	vs	ug/Kg	☼	70	68 - 126
Bromomethane	ND	vs	57.7	52.7	vs	ug/Kg	☼	91	37 - 149
Carbon disulfide	ND	vs	57.7	45.5	vs	ug/Kg	☼	79	64 - 131
Carbon tetrachloride	ND	vs	57.7	47.2	vs	ug/Kg	☼	82	75 - 135
Chlorobenzene	ND	F1 vs	57.7	43.1	F1 vs	ug/Kg	☼	75	76 - 124
Chloroethane	ND	vs	57.7	50.7	vs	ug/Kg	☼	88	69 - 135
Chloroform	0.45	J B vs	57.7	49.9	vs	ug/Kg	☼	86	80 - 120
Chloromethane	ND	vs	57.7	45.3	vs	ug/Kg	☼	78	63 - 127
cis-1,2-Dichloroethene	ND	vs	57.7	47.8	vs	ug/Kg	☼	83	80 - 120
cis-1,3-Dichloropropene	ND	F1 vs	57.7	45.5	F1 vs	ug/Kg	☼	79	80 - 120
Cyclohexane	ND	vs	57.7	43.5	vs	ug/Kg	☼	75	65 - 120
Dibromochloromethane	ND	vs	57.7	44.2	vs	ug/Kg	☼	77	76 - 125
Dichlorodifluoromethane	ND	vs	57.7	38.6	vs	ug/Kg	☼	67	57 - 142
Ethylbenzene	ND	F1 vs	57.7	42.7	F1 vs	ug/Kg	☼	74	80 - 120
Isopropylbenzene	ND	F1 vs	57.7	40.3	F1 vs	ug/Kg	☼	70	72 - 120
Methyl acetate	ND	vs	115	70.1	vs	ug/Kg	☼	61	55 - 136
Methyl tert-butyl ether	ND	vs	57.7	44.8	vs	ug/Kg	☼	78	63 - 125
Methylcyclohexane	ND	vs	57.7	40.6	vs	ug/Kg	☼	70	60 - 140
Methylene Chloride	ND	vs	57.7	45.1	vs	ug/Kg	☼	78	61 - 127
Styrene	ND	F1 vs	57.7	39.8	F1 vs	ug/Kg	☼	69	80 - 120
Tetrachloroethene	ND	vs	57.7	43.8	vs	ug/Kg	☼	76	74 - 122
Toluene	ND	vs	57.7	45.5	vs	ug/Kg	☼	79	74 - 128
trans-1,2-Dichloroethene	ND	vs	57.7	50.3	vs	ug/Kg	☼	87	78 - 126
trans-1,3-Dichloropropene	ND	vs	57.7	43.5	vs	ug/Kg	☼	75	73 - 123
Trichloroethene	ND	vs	57.7	45.0	vs	ug/Kg	☼	78	77 - 129
Trichlorofluoromethane	ND	vs	57.7	47.7	vs	ug/Kg	☼	83	65 - 146
Vinyl chloride	ND	vs	57.7	48.6	vs	ug/Kg	☼	84	61 - 133

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-4 MS

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: PWEXSWNA121

Prep Type: Total/NA

Prep Batch: 467780

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		64 - 126
4-Bromofluorobenzene (Surr)	104		72 - 126
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	102		71 - 125

Lab Sample ID: 480-151605-4 MSD

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: PWEXSWNA121

Prep Type: Total/NA

Prep Batch: 467780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	57.5	47.3	vs	ug/Kg	☼	82	77 - 121	0	30
1,1,2,2-Tetrachloroethane	ND	F1 vs	57.5	37.9	F1 vs	ug/Kg	☼	66	80 - 120	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	57.5	49.1	vs	ug/Kg	☼	85	60 - 140	2	30
1,1,2-Trichloroethane	ND	F1 vs	57.5	43.8	F1 vs	ug/Kg	☼	76	78 - 122	3	30
1,1-Dichloroethane	ND	vs	57.5	50.0	vs	ug/Kg	☼	87	73 - 126	1	30
1,1-Dichloroethene	ND	vs	57.5	47.7	vs	ug/Kg	☼	83	59 - 125	3	30
1,2,4-Trichlorobenzene	ND	F1 vs	57.5	29.9	F1 vs	ug/Kg	☼	52	64 - 120	2	30
1,2-Dibromo-3-Chloropropane	ND	F1 vs	57.5	27.5	F1 vs	ug/Kg	☼	48	63 - 124	1	30
1,2-Dibromoethane	ND	F1 vs	57.5	40.7	F1 vs	ug/Kg	☼	71	78 - 120	3	30
1,2-Dichlorobenzene	ND	F1 vs	57.5	37.2	F1 vs	ug/Kg	☼	65	75 - 120	3	30
1,2-Dichloroethane	ND	vs	57.5	45.1	vs	ug/Kg	☼	79	77 - 122	2	30
1,2-Dichloropropane	ND	vs	57.5	48.2	vs	ug/Kg	☼	84	75 - 124	4	30
1,3-Dichlorobenzene	ND	F1 vs	57.5	36.6	F1 vs	ug/Kg	☼	64	74 - 120	3	30
1,4-Dichlorobenzene	ND	F1 vs	57.5	35.8	F1 vs	ug/Kg	☼	62	73 - 120	4	30
2-Butanone (MEK)	ND	F1 vs	287	170	F1 vs	ug/Kg	☼	59	70 - 134	0	30
2-Hexanone	ND	vs	287	172	vs	ug/Kg	☼	60	59 - 130	0	30
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	287	186	vs	ug/Kg	☼	65	65 - 133	1	30
Acetone	ND	F1 vs	287	154	F1 vs	ug/Kg	☼	54	61 - 137	1	30
Benzene	ND	vs	57.5	48.5	vs	ug/Kg	☼	84	79 - 127	1	30
Bromodichloromethane	ND	F1 vs	57.5	44.6	F1 vs	ug/Kg	☼	78	80 - 122	4	30
Bromoform	ND	vs	57.5	40.2	vs	ug/Kg	☼	70	68 - 126	1	30
Bromomethane	ND	vs	57.5	52.9	vs	ug/Kg	☼	92	37 - 149	0	30
Carbon disulfide	ND	vs	57.5	46.8	vs	ug/Kg	☼	81	64 - 131	3	30
Carbon tetrachloride	ND	vs	57.5	47.6	vs	ug/Kg	☼	83	75 - 135	1	30
Chlorobenzene	ND	F1 vs	57.5	42.1	F1 vs	ug/Kg	☼	73	76 - 124	2	30
Chloroethane	ND	vs	57.5	51.3	vs	ug/Kg	☼	89	69 - 135	1	30
Chloroform	0.45	J B vs	57.5	49.3	vs	ug/Kg	☼	85	80 - 120	1	30
Chloromethane	ND	vs	57.5	45.4	vs	ug/Kg	☼	79	63 - 127	0	30
cis-1,2-Dichloroethene	ND	vs	57.5	47.7	vs	ug/Kg	☼	83	80 - 120	0	30
cis-1,3-Dichloropropene	ND	F1 vs	57.5	44.0	F1 vs	ug/Kg	☼	77	80 - 120	3	30
Cyclohexane	ND	vs	57.5	44.2	vs	ug/Kg	☼	77	65 - 120	2	30
Dibromochloromethane	ND	vs	57.5	43.4	vs	ug/Kg	☼	76	76 - 125	2	30
Dichlorodifluoromethane	ND	vs	57.5	39.6	vs	ug/Kg	☼	69	57 - 142	3	30
Ethylbenzene	ND	F1 vs	57.5	41.9	F1 vs	ug/Kg	☼	73	80 - 120	2	30
Isopropylbenzene	ND	F1 vs	57.5	39.2	F1 vs	ug/Kg	☼	68	72 - 120	3	30
Methyl acetate	ND	vs	115	69.8	vs	ug/Kg	☼	61	55 - 136	1	30
Methyl tert-butyl ether	ND	vs	57.5	44.1	vs	ug/Kg	☼	77	63 - 125	2	30
Methylcyclohexane	ND	vs	57.5	41.1	vs	ug/Kg	☼	71	60 - 140	1	30

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-4 MSD

Matrix: Solid

Analysis Batch: 467782

Client Sample ID: PWEXSWNA121

Prep Type: Total/NA

Prep Batch: 467780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND	vs	57.5	44.9	vs	ug/Kg	☼	78	61 - 127	0	30
Styrene	ND	F1 vs	57.5	38.6	F1 vs	ug/Kg	☼	67	80 - 120	3	30
Tetrachloroethene	ND	vs	57.5	43.6	vs	ug/Kg	☼	76	74 - 122	1	30
Toluene	ND	vs	57.5	44.9	vs	ug/Kg	☼	78	74 - 128	1	30
trans-1,2-Dichloroethene	ND	vs	57.5	49.8	vs	ug/Kg	☼	87	78 - 126	1	30
trans-1,3-Dichloropropene	ND	vs	57.5	42.2	vs	ug/Kg	☼	73	73 - 123	3	30
Trichloroethene	ND	vs	57.5	44.3	vs	ug/Kg	☼	77	77 - 129	1	30
Trichlorofluoromethane	ND	vs	57.5	47.7	vs	ug/Kg	☼	83	65 - 146	0	30
Vinyl chloride	ND	vs	57.5	49.2	vs	ug/Kg	☼	86	61 - 133	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		64 - 126
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	102		71 - 125

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

Lab Sample ID: MB 480-467494/1-A

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2-Chloronaphthalene	ND		170	28	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2-Chlorophenol	ND		170	31	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2-Methylnaphthalene	ND		170	34	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2-Methylphenol	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2-Nitroaniline	ND		330	25	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
2-Nitrophenol	ND		170	48	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
3-Nitroaniline	ND		330	47	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4-Chloroaniline	ND		170	42	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4-Methylphenol	ND		330	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4-Nitroaniline	ND		330	89	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
4-Nitrophenol	ND		330	120	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Acenaphthene	ND		170	25	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Acenaphthylene	ND		170	22	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Acetophenone	ND		170	23	ug/Kg		04/11/19 15:18	04/12/19 18:16	1

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: MB 480-467494/1-A

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		170	42	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Atrazine	ND		170	59	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Benzaldehyde	ND		170	130	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Benzo[a]pyrene	ND		170	25	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Biphenyl	ND		170	25	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Caprolactam	ND		170	51	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Carbazole	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Chrysene	ND		170	38	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Dibenzofuran	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Diethyl phthalate	ND		170	22	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Dimethyl phthalate	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Fluoranthene	ND		170	18	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Fluorene	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Hexachlorobenzene	ND		170	23	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Hexachlorobutadiene	ND		170	25	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Hexachloroethane	ND		170	22	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Isophorone	ND		170	36	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Naphthalene	ND		170	22	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Nitrobenzene	ND		170	19	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Pentachlorophenol	ND		330	170	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Phenanthrene	ND		170	25	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Phenol	ND		170	26	ug/Kg		04/11/19 15:18	04/12/19 18:16	1
Pyrene	ND		170	20	ug/Kg		04/11/19 15:18	04/12/19 18:16	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	326	T J	ug/Kg		1.53		04/11/19 15:18	04/12/19 18:16	1
Unknown	345	T J	ug/Kg		1.57		04/11/19 15:18	04/12/19 18:16	1
Unknown	7630	T J	ug/Kg		1.68		04/11/19 15:18	04/12/19 18:16	1
Unknown	1820	T J	ug/Kg		2.87		04/11/19 15:18	04/12/19 18:16	1
Unknown	658	T J	ug/Kg		4.86		04/11/19 15:18	04/12/19 18:16	1

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: MB 480-467494/1-A

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467494

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		54 - 120	04/11/19 15:18	04/12/19 18:16	1
2-Fluorobiphenyl (Surr)	84		60 - 120	04/11/19 15:18	04/12/19 18:16	1
2-Fluorophenol (Surr)	78		52 - 120	04/11/19 15:18	04/12/19 18:16	1
Nitrobenzene-d5 (Surr)	85		53 - 120	04/11/19 15:18	04/12/19 18:16	1
Phenol-d5 (Surr)	79		54 - 120	04/11/19 15:18	04/12/19 18:16	1
p-Terphenyl-d14 (Surr)	90		65 - 121	04/11/19 15:18	04/12/19 18:16	1

Lab Sample ID: LCS 480-467494/2-A

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1660	1690		ug/Kg		102	59 - 126
2,4,6-Trichlorophenol	1660	1690		ug/Kg		102	59 - 123
2,4-Dichlorophenol	1660	1610		ug/Kg		97	61 - 120
2,4-Dimethylphenol	1660	1590		ug/Kg		96	59 - 120
2,4-Dinitrophenol	3330	2770		ug/Kg		83	41 - 146
2,4-Dinitrotoluene	1660	1700		ug/Kg		102	63 - 120
2,6-Dinitrotoluene	1660	1780		ug/Kg		107	66 - 120
2-Chloronaphthalene	1660	1580		ug/Kg		95	57 - 120
2-Chlorophenol	1660	1410		ug/Kg		85	53 - 120
2-Methylnaphthalene	1660	1510		ug/Kg		91	59 - 120
2-Methylphenol	1660	1460		ug/Kg		88	54 - 120
2-Nitroaniline	1660	1650		ug/Kg		99	61 - 120
2-Nitrophenol	1660	1570		ug/Kg		94	56 - 120
3,3'-Dichlorobenzidine	3330	2720		ug/Kg		82	54 - 120
3-Nitroaniline	1660	1440		ug/Kg		87	48 - 120
4,6-Dinitro-2-methylphenol	3330	3540		ug/Kg		107	49 - 122
4-Bromophenyl phenyl ether	1660	1690		ug/Kg		102	58 - 120
4-Chloro-3-methylphenol	1660	1660		ug/Kg		100	61 - 120
4-Chloroaniline	1660	1420		ug/Kg		85	38 - 120
4-Chlorophenyl phenyl ether	1660	1670		ug/Kg		100	63 - 124
4-Methylphenol	1660	1460		ug/Kg		88	55 - 120
4-Nitroaniline	1660	1760		ug/Kg		106	56 - 120
4-Nitrophenol	3330	3360		ug/Kg		101	43 - 147
Acenaphthene	1660	1620		ug/Kg		97	62 - 120
Acenaphthylene	1660	1590		ug/Kg		96	58 - 121
Acetophenone	1660	1430		ug/Kg		86	54 - 120
Anthracene	1660	1480		ug/Kg		89	62 - 120
Atrazine	3330	3710		ug/Kg		111	60 - 127
Benzaldehyde	3330	2640		ug/Kg		79	10 - 150
Benzo[a]anthracene	1660	1620		ug/Kg		98	65 - 120
Benzo[a]pyrene	1660	1490		ug/Kg		90	64 - 120
Benzo[b]fluoranthene	1660	1790		ug/Kg		108	64 - 120
Benzo[g,h,i]perylene	1660	1730		ug/Kg		104	45 - 145
Benzo[k]fluoranthene	1660	1610		ug/Kg		97	65 - 120
Biphenyl	1660	1520		ug/Kg		91	59 - 120
bis (2-chloroisopropyl) ether	1660	1400		ug/Kg		84	44 - 120

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: LCS 480-467494/2-A

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1660	1510		ug/Kg		91	55 - 120
Bis(2-chloroethyl)ether	1660	1430		ug/Kg		86	45 - 120
Bis(2-ethylhexyl) phthalate	1660	1600		ug/Kg		96	61 - 133
Butyl benzyl phthalate	1660	1730		ug/Kg		104	61 - 129
Caprolactam	3330	3000		ug/Kg		90	47 - 120
Carbazole	1660	1620		ug/Kg		97	65 - 120
Chrysene	1660	1540		ug/Kg		93	64 - 120
Dibenz(a,h)anthracene	1660	1550		ug/Kg		93	54 - 132
Dibenzofuran	1660	1560		ug/Kg		94	63 - 120
Diethyl phthalate	1660	1670		ug/Kg		101	66 - 120
Dimethyl phthalate	1660	1640		ug/Kg		99	65 - 124
Di-n-butyl phthalate	1660	1490		ug/Kg		89	58 - 130
Di-n-octyl phthalate	1660	1540		ug/Kg		92	57 - 133
Fluoranthene	1660	1470		ug/Kg		88	62 - 120
Fluorene	1660	1620		ug/Kg		97	63 - 120
Hexachlorobenzene	1660	1690		ug/Kg		101	60 - 120
Hexachlorobutadiene	1660	1390		ug/Kg		84	45 - 120
Hexachlorocyclopentadiene	1660	1680		ug/Kg		101	47 - 120
Hexachloroethane	1660	1390		ug/Kg		83	41 - 120
Indeno[1,2,3-cd]pyrene	1660	1740		ug/Kg		105	56 - 134
Isophorone	1660	1550		ug/Kg		93	56 - 120
Naphthalene	1660	1400		ug/Kg		84	55 - 120
Nitrobenzene	1660	1510		ug/Kg		91	54 - 120
N-Nitrosodi-n-propylamine	1660	1530		ug/Kg		92	52 - 120
N-Nitrosodiphenylamine	1660	1680		ug/Kg		101	51 - 128
Pentachlorophenol	3330	3120		ug/Kg		94	51 - 120
Phenanthrene	1660	1600		ug/Kg		96	60 - 120
Phenol	1660	1430		ug/Kg		86	53 - 120
Pyrene	1660	1690		ug/Kg		102	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	99		54 - 120
2-Fluorobiphenyl (Surr)	91		60 - 120
2-Fluorophenol (Surr)	82		52 - 120
Nitrobenzene-d5 (Surr)	87		53 - 120
Phenol-d5 (Surr)	85		54 - 120
p-Terphenyl-d14 (Surr)	96		65 - 121

Lab Sample ID: 480-151605-12 MS

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		1900	1900		ug/Kg	☼	100	46 - 120
2,4,6-Trichlorophenol	ND		1900	1910		ug/Kg	☼	100	41 - 123
2,4-Dichlorophenol	ND		1900	1770		ug/Kg	☼	93	45 - 120
2,4-Dimethylphenol	ND		1900	1880		ug/Kg	☼	99	52 - 120
2,4-Dinitrophenol	ND		3800	ND		ug/Kg	☼	NC	41 - 146

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-12 MS

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	ND		1900	2160		ug/Kg	☼	113	63 - 125
2,6-Dinitrotoluene	ND		1900	1880		ug/Kg	☼	99	66 - 120
2-Chloronaphthalene	ND		1900	1810		ug/Kg	☼	95	57 - 120
2-Chlorophenol	ND		1900	1630		ug/Kg	☼	86	43 - 120
2-Methylnaphthalene	6400	F2 F1	1900	4960	F1	ug/Kg	☼	-74	55 - 120
2-Methylphenol	ND		1900	1660		ug/Kg	☼	88	48 - 120
2-Nitroaniline	ND		1900	1940		ug/Kg	☼	102	61 - 120
2-Nitrophenol	ND		1900	1840		ug/Kg	☼	97	37 - 120
3,3'-Dichlorobenzidine	ND		3800	3860		ug/Kg	☼	102	37 - 126
3-Nitroaniline	ND		1900	1910		ug/Kg	☼	101	48 - 120
4,6-Dinitro-2-methylphenol	ND		3800	3530		ug/Kg	☼	93	23 - 149
4-Bromophenyl phenyl ether	ND		1900	1920		ug/Kg	☼	101	58 - 120
4-Chloro-3-methylphenol	ND		1900	1830		ug/Kg	☼	96	49 - 125
4-Chloroaniline	ND		1900	1610		ug/Kg	☼	85	38 - 120
4-Chlorophenyl phenyl ether	ND		1900	1790		ug/Kg	☼	94	63 - 124
4-Methylphenol	ND		1900	1870	J	ug/Kg	☼	98	50 - 120
4-Nitroaniline	ND		1900	2020		ug/Kg	☼	106	47 - 120
4-Nitrophenol	ND		3800	4120		ug/Kg	☼	108	31 - 147
Acenaphthene	1400	F2 F1	1900	2850		ug/Kg	☼	76	60 - 120
Acenaphthylene	3000	F2 F1	1900	3980	F1	ug/Kg	☼	50	58 - 121
Acetophenone	ND		1900	1680		ug/Kg	☼	89	47 - 120
Anthracene	11000	F2	1900	9270	4	ug/Kg	☼	-95	62 - 120
Atrazine	ND		3800	4170		ug/Kg	☼	110	60 - 150
Benzaldehyde	ND		3800	3110		ug/Kg	☼	82	10 - 150
Benzo[a]anthracene	9900	F2	1900	9950	4	ug/Kg	☼	5	65 - 120
Benzo[a]pyrene	6700	F2 F1	1900	7260	F1	ug/Kg	☼	29	64 - 120
Benzo[b]fluoranthene	9200	F2	1900	8830	4	ug/Kg	☼	-19	64 - 120
Benzo[g,h,i]perylene	3500	F2 F1	1900	4780		ug/Kg	☼	68	45 - 145
Benzo[k]fluoranthene	3200	F2 F1	1900	4810		ug/Kg	☼	83	65 - 120
Biphenyl	3300	F2 F1	1900	4200	F1	ug/Kg	☼	47	58 - 120
bis (2-chloroisopropyl) ether	ND		1900	1630		ug/Kg	☼	86	31 - 120
Bis(2-chloroethoxy)methane	ND		1900	1770		ug/Kg	☼	93	52 - 120
Bis(2-chloroethyl)ether	ND		1900	1720		ug/Kg	☼	91	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1900	1950		ug/Kg	☼	103	61 - 133
Butyl benzyl phthalate	ND		1900	1960		ug/Kg	☼	103	61 - 120
Caprolactam	ND		3800	3710		ug/Kg	☼	97	37 - 133
Carbazole	3700	F2 F1	1900	4690	F1	ug/Kg	☼	50	59 - 120
Chrysene	7000	F2 F1	1900	6830	F1	ug/Kg	☼	-7	64 - 120
Dibenz(a,h)anthracene	ND	F2 F1	1900	2830	F1	ug/Kg	☼	149	54 - 132
Dibenzofuran	11000	F2	1900	10300	4	ug/Kg	☼	-37	62 - 120
Diethyl phthalate	ND		1900	1840		ug/Kg	☼	97	66 - 120
Dimethyl phthalate	ND		1900	1860		ug/Kg	☼	98	65 - 124
Di-n-butyl phthalate	ND		1900	1740		ug/Kg	☼	91	58 - 130
Di-n-octyl phthalate	ND		1900	1790		ug/Kg	☼	94	57 - 133
Fluoranthene	23000	F2	1900	19500	4	ug/Kg	☼	-166	62 - 120
Fluorene	10000	F2	1900	9480	4	ug/Kg	☼	-45	63 - 120
Hexachlorobenzene	ND		1900	1930		ug/Kg	☼	101	60 - 120
Hexachlorobutadiene	ND		1900	1610		ug/Kg	☼	85	45 - 120
Hexachlorocyclopentadiene	ND		1900	1460		ug/Kg	☼	77	31 - 120

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-12 MS

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloroethane	ND		1900	1720		ug/Kg	☼	91	21 - 120
Indeno[1,2,3-cd]pyrene	3600	F2 F1	1900	4820		ug/Kg	☼	65	56 - 134
Isophorone	ND		1900	1810		ug/Kg	☼	95	56 - 120
Nitrobenzene	ND		1900	1790		ug/Kg	☼	94	49 - 120
N-Nitrosodi-n-propylamine	ND		1900	1780		ug/Kg	☼	94	46 - 120
N-Nitrosodiphenylamine	ND		1900	2010		ug/Kg	☼	106	20 - 128
Pentachlorophenol	ND		3800	3010		ug/Kg	☼	79	25 - 136
Phenol	ND		1900	1660		ug/Kg	☼	88	50 - 120
Pyrene	19000	F2	1900	16900	4	ug/Kg	☼	-106	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	106		54 - 120
2-Fluorobiphenyl (Surr)	90		60 - 120
2-Fluorophenol (Surr)	81		52 - 120
Nitrobenzene-d5 (Surr)	93		53 - 120
Phenol-d5 (Surr)	86		54 - 120
p-Terphenyl-d14 (Surr)	97		65 - 121

Lab Sample ID: 480-151605-12 MSD

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
2,4,5-Trichlorophenol	ND		1880	2030		ug/Kg	☼	108	46 - 120	7	18
2,4,6-Trichlorophenol	ND		1880	2000		ug/Kg	☼	107	41 - 123	5	19
2,4-Dichlorophenol	ND		1880	1790		ug/Kg	☼	95	45 - 120	1	19
2,4-Dimethylphenol	ND		1880	1910		ug/Kg	☼	102	52 - 120	1	42
2,4-Dinitrophenol	ND		3750	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		1880	2180		ug/Kg	☼	116	63 - 125	1	20
2,6-Dinitrotoluene	ND		1880	1940		ug/Kg	☼	104	66 - 120	3	15
2-Chloronaphthalene	ND		1880	1780		ug/Kg	☼	95	57 - 120	1	21
2-Chlorophenol	ND		1880	1650		ug/Kg	☼	88	43 - 120	1	25
2-Methylnaphthalene	6400	F2 F1	1880	18300	F1 F2	ug/Kg	☼	636	55 - 120	115	21
2-Methylphenol	ND		1880	1680		ug/Kg	☼	90	48 - 120	1	27
2-Nitroaniline	ND		1880	1930		ug/Kg	☼	103	61 - 120	1	15
2-Nitrophenol	ND		1880	1770		ug/Kg	☼	94	37 - 120	4	18
3,3'-Dichlorobenzidine	ND		3750	3750		ug/Kg	☼	100	37 - 126	3	25
3-Nitroaniline	ND		1880	1970		ug/Kg	☼	105	48 - 120	3	19
4,6-Dinitro-2-methylphenol	ND		3750	3100		ug/Kg	☼	83	23 - 149	13	15
4-Bromophenyl phenyl ether	ND		1880	1980		ug/Kg	☼	106	58 - 120	3	15
4-Chloro-3-methylphenol	ND		1880	1920		ug/Kg	☼	102	49 - 125	5	27
4-Chloroaniline	ND		1880	1610		ug/Kg	☼	86	38 - 120	0	22
4-Chlorophenyl phenyl ether	ND		1880	1840		ug/Kg	☼	98	63 - 124	3	16
4-Methylphenol	ND		1880	1960		ug/Kg	☼	104	50 - 120	4	24
4-Nitroaniline	ND		1880	2000		ug/Kg	☼	107	47 - 120	1	24
4-Nitrophenol	ND		3750	4030		ug/Kg	☼	107	31 - 147	2	25
Acenaphthene	1400	F2 F1	1880	4340	F1 F2	ug/Kg	☼	157	60 - 120	41	35
Acenaphthylene	3000	F2 F1	1880	10000	F1 F2	ug/Kg	☼	372	58 - 121	86	18

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-12 MSD

Matrix: Solid

Analysis Batch: 467742

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetophenone	ND		1880	1730		ug/Kg	☼	92	47 - 120	3	20
Anthracene	11000	F2	1880	18000	4 F2	ug/Kg	☼	370	62 - 120	64	15
Atrazine	ND		3750	4030		ug/Kg	☼	107	60 - 150	3	20
Benzaldehyde	ND		3750	3540		ug/Kg	☼	94	10 - 150	13	20
Benzo[a]anthracene	9900	F2	1880	14900	4 F2	ug/Kg	☼	268	65 - 120	40	15
Benzo[a]pyrene	6700	F2 F1	1880	10100	F1 F2	ug/Kg	☼	182	64 - 120	33	15
Benzo[b]fluoranthene	9200	F2	1880	12700	4 F2	ug/Kg	☼	185	64 - 120	36	15
Benzo[g,h,i]perylene	3500	F2 F1	1880	6430	F1 F2	ug/Kg	☼	157	45 - 145	29	15
Benzo[k]fluoranthene	3200	F2 F1	1880	6920	F1 F2	ug/Kg	☼	197	65 - 120	36	22
Biphenyl	3300	F2 F1	1880	5980	F1 F2	ug/Kg	☼	142	58 - 120	35	20
bis (2-chloroisopropyl) ether	ND		1880	1700		ug/Kg	☼	91	31 - 120	5	24
Bis(2-chloroethoxy)methane	ND		1880	1880		ug/Kg	☼	100	52 - 120	6	17
Bis(2-chloroethyl)ether	ND		1880	1800		ug/Kg	☼	96	45 - 120	4	21
Bis(2-ethylhexyl) phthalate	ND		1880	1890		ug/Kg	☼	101	61 - 133	3	15
Butyl benzyl phthalate	ND		1880	1870		ug/Kg	☼	100	61 - 120	4	16
Caprolactam	ND		3750	3680		ug/Kg	☼	98	37 - 133	1	20
Carbazole	3700	F2 F1	1880	7520	F1 F2	ug/Kg	☼	201	59 - 120	46	20
Chrysene	7000	F2 F1	1880	10800	F1 F2	ug/Kg	☼	202	64 - 120	45	15
Dibenz(a,h)anthracene	ND	F2 F1	1880	3400	F1 F2	ug/Kg	☼	181	54 - 132	18	15
Dibenzofuran	11000	F2	1880	17200	4 F2	ug/Kg	☼	332	62 - 120	51	15
Diethyl phthalate	ND		1880	1730		ug/Kg	☼	92	66 - 120	6	15
Dimethyl phthalate	ND		1880	1860		ug/Kg	☼	99	65 - 124	0	15
Di-n-butyl phthalate	ND		1880	1760		ug/Kg	☼	94	58 - 130	2	15
Di-n-octyl phthalate	ND		1880	1740		ug/Kg	☼	93	57 - 133	3	16
Fluoranthene	23000	F2	1880	34500	E 4 F2	ug/Kg	☼	635	62 - 120	56	15
Fluorene	10000	F2	1880	18800	4 F2	ug/Kg	☼	453	63 - 120	66	15
Hexachlorobenzene	ND		1880	2030		ug/Kg	☼	108	60 - 120	5	15
Hexachlorobutadiene	ND		1880	1680		ug/Kg	☼	90	45 - 120	5	44
Hexachlorocyclopentadiene	ND		1880	1340		ug/Kg	☼	71	31 - 120	9	49
Hexachloroethane	ND		1880	1820		ug/Kg	☼	97	21 - 120	6	46
Indeno[1,2,3-cd]pyrene	3600	F2 F1	1880	6560	F1 F2	ug/Kg	☼	158	56 - 134	31	15
Isophorone	ND		1880	1840		ug/Kg	☼	98	56 - 120	2	17
Nitrobenzene	ND		1880	1860		ug/Kg	☼	99	49 - 120	4	24
N-Nitrosodi-n-propylamine	ND		1880	1830		ug/Kg	☼	97	46 - 120	3	31
N-Nitrosodiphenylamine	ND		1880	2190		ug/Kg	☼	117	20 - 128	9	15
Pentachlorophenol	ND		3750	3510		ug/Kg	☼	93	25 - 136	15	35
Phenol	ND		1880	1730		ug/Kg	☼	92	50 - 120	4	35
Pyrene	19000	F2	1880	26200	4 F2	ug/Kg	☼	388	61 - 133	43	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	108		54 - 120
2-Fluorobiphenyl (Surr)	91		60 - 120
2-Fluorophenol (Surr)	79		52 - 120
Nitrobenzene-d5 (Surr)	97		53 - 120
Phenol-d5 (Surr)	90		54 - 120
p-Terphenyl-d14 (Surr)	98		65 - 121

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QC Sample Results

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

Job ID: 480-151605-1

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

Lab Sample ID: 480-151605-12 MS

Matrix: Solid

Analysis Batch: 467948

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene - DL	58000	F2	1900	47900	4	ug/Kg	☼	-538	46 - 120
Phenanthrene - DL	47000	F2	1900	43500	4	ug/Kg	☼	-185	60 - 122

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr) - DL	210	X	54 - 120
2-Fluorobiphenyl (Surr) - DL	69		60 - 120
2-Fluorophenol (Surr) - DL	182	X	52 - 120
Nitrobenzene-d5 (Surr) - DL	123	X	53 - 120
Phenol-d5 (Surr) - DL	97		54 - 120
p-Terphenyl-d14 (Surr) - DL	111		65 - 121

Lab Sample ID: 480-151605-12 MSD

Matrix: Solid

Analysis Batch: 467948

Client Sample ID: PWEXSWNA094

Prep Type: Total/NA

Prep Batch: 467494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene - DL	58000	F2	1880	95700	4 F2	ug/Kg	☼	2002	46 - 120	67	29
Phenanthrene - DL	47000	F2	1880	61700	4 F2	ug/Kg	☼	782	60 - 122	35	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr) - DL	213	X	54 - 120
2-Fluorobiphenyl (Surr) - DL	105		60 - 120
2-Fluorophenol (Surr) - DL	202	X	52 - 120
Nitrobenzene-d5 (Surr) - DL	90		53 - 120
Phenol-d5 (Surr) - DL	68		54 - 120
p-Terphenyl-d14 (Surr) - DL	101		65 - 121

QC Association Summary

Client: AECOM

Job ID: 480-151605-1

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

GC/MS VOA

Prep Batch: 467456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-12	PWEXSWNA094	Total/NA	Solid	5035A_H	
480-151605-16	PWEXSWNA088	Total/NA	Solid	5035A_H	
MB 480-467456/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-467456/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
480-151605-12 MS	PWEXSWNA094	Total/NA	Solid	5035A_H	
480-151605-12 MSD	PWEXSWNA094	Total/NA	Solid	5035A_H	

Prep Batch: 467600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-1	PWEXBM04074	Total/NA	Solid	5035A_L	
480-151605-2	PWEXBM04077	Total/NA	Solid	5035A_L	
480-151605-3	PWEXSWNA131	Total/NA	Solid	5035A_L	
MB 480-467600/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-467600/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 467604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-1	PWEXBM04074	Total/NA	Solid	8260C	467600
480-151605-2	PWEXBM04077	Total/NA	Solid	8260C	467600
480-151605-3	PWEXSWNA131	Total/NA	Solid	8260C	467600
MB 480-467600/2-A	Method Blank	Total/NA	Solid	8260C	467600
LCS 480-467600/1-A	Lab Control Sample	Total/NA	Solid	8260C	467600

Prep Batch: 467780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-4	PWEXSWNA121	Total/NA	Solid	5035A_L	
480-151605-5	PWEXBM04078	Total/NA	Solid	5035A_L	
480-151605-6	PWEXSWNA051	Total/NA	Solid	5035A_L	
480-151605-7	PWEXSWNA133	Total/NA	Solid	5035A_L	
480-151605-8	PWEXSWNA134	Total/NA	Solid	5035A_L	
480-151605-9	PWEXSWNA093	Total/NA	Solid	5035A_L	
480-151605-10	PWEXSWNA090	Total/NA	Solid	5035A_L	
480-151605-11	PWEXSWNA091	Total/NA	Solid	5035A_L	
480-151605-13	PWEXSWNA152	Total/NA	Solid	5035A_L	
480-151605-14	PWEXSWNA089	Total/NA	Solid	5035A_L	
480-151605-15	PWEXSWNA087	Total/NA	Solid	5035A_L	
480-151605-17	DUP01	Total/NA	Solid	5035A_L	
480-151605-18	PWEXSNA122	Total/NA	Solid	5035A_L	
MB 480-467780/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-467780/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-151605-4 MS	PWEXSWNA121	Total/NA	Solid	5035A_L	
480-151605-4 MSD	PWEXSWNA121	Total/NA	Solid	5035A_L	

Analysis Batch: 467782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-4	PWEXSWNA121	Total/NA	Solid	8260C	467780
480-151605-5	PWEXBM04078	Total/NA	Solid	8260C	467780
480-151605-6	PWEXSWNA051	Total/NA	Solid	8260C	467780
480-151605-7	PWEXSWNA133	Total/NA	Solid	8260C	467780
480-151605-8	PWEXSWNA134	Total/NA	Solid	8260C	467780
480-151605-9	PWEXSWNA093	Total/NA	Solid	8260C	467780

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QC Association Summary

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

Job ID: 480-151605-1

GC/MS VOA (Continued)

Analysis Batch: 467782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-10	PWEXSWNA090	Total/NA	Solid	8260C	467780
480-151605-11	PWEXSWNA091	Total/NA	Solid	8260C	467780
480-151605-13	PWEXSWNA152	Total/NA	Solid	8260C	467780
480-151605-14	PWEXSWNA089	Total/NA	Solid	8260C	467780
480-151605-15	PWEXSWNA087	Total/NA	Solid	8260C	467780
480-151605-17	DUP01	Total/NA	Solid	8260C	467780
480-151605-18	PWEXSNA122	Total/NA	Solid	8260C	467780
MB 480-467780/2-A	Method Blank	Total/NA	Solid	8260C	467780
LCS 480-467780/1-A	Lab Control Sample	Total/NA	Solid	8260C	467780
480-151605-4 MS	PWEXSWNA121	Total/NA	Solid	8260C	467780
480-151605-4 MSD	PWEXSWNA121	Total/NA	Solid	8260C	467780

Analysis Batch: 467833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-12	PWEXSWNA094	Total/NA	Solid	8260C	467456
480-151605-16	PWEXSWNA088	Total/NA	Solid	8260C	467456
480-151605-12 MS	PWEXSWNA094	Total/NA	Solid	8260C	467456
480-151605-12 MSD	PWEXSWNA094	Total/NA	Solid	8260C	467456

Analysis Batch: 467835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-467456/2-A	Method Blank	Total/NA	Solid	8260C	467456
LCS 480-467456/1-A	Lab Control Sample	Total/NA	Solid	8260C	467456

GC/MS Semi VOA

Prep Batch: 467494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-1	PWEXBM04074	Total/NA	Solid	3550C	
480-151605-2	PWEXBM04077	Total/NA	Solid	3550C	
480-151605-3	PWEXSWNA131	Total/NA	Solid	3550C	
480-151605-4	PWEXSWNA121	Total/NA	Solid	3550C	
480-151605-5	PWEXBM04078	Total/NA	Solid	3550C	
480-151605-6	PWEXSWNA051	Total/NA	Solid	3550C	
480-151605-7	PWEXSWNA133	Total/NA	Solid	3550C	
480-151605-8	PWEXSWNA134	Total/NA	Solid	3550C	
480-151605-9 - DL	PWEXSWNA093	Total/NA	Solid	3550C	
480-151605-9	PWEXSWNA093	Total/NA	Solid	3550C	
480-151605-10	PWEXSWNA090	Total/NA	Solid	3550C	
480-151605-11	PWEXSWNA091	Total/NA	Solid	3550C	
480-151605-12 - DL	PWEXSWNA094	Total/NA	Solid	3550C	
480-151605-12	PWEXSWNA094	Total/NA	Solid	3550C	
480-151605-13	PWEXSWNA152	Total/NA	Solid	3550C	
480-151605-14	PWEXSWNA089	Total/NA	Solid	3550C	
480-151605-15	PWEXSWNA087	Total/NA	Solid	3550C	
480-151605-16 - DL	PWEXSWNA088	Total/NA	Solid	3550C	
480-151605-16	PWEXSWNA088	Total/NA	Solid	3550C	
480-151605-17	DUP01	Total/NA	Solid	3550C	
480-151605-18	PWEXSNA122	Total/NA	Solid	3550C	
MB 480-467494/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-467494/2-A	Lab Control Sample	Total/NA	Solid	3550C	

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QC Association Summary

Client: AECOM

Job ID: 480-151605-1

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

GC/MS Semi VOA (Continued)

Prep Batch: 467494 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-12 MS - DL	PWEXSWNA094	Total/NA	Solid	3550C	
480-151605-12 MS	PWEXSWNA094	Total/NA	Solid	3550C	
480-151605-12 MSD - DL	PWEXSWNA094	Total/NA	Solid	3550C	
480-151605-12 MSD	PWEXSWNA094	Total/NA	Solid	3550C	

Analysis Batch: 467742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-1	PWEXBM04074	Total/NA	Solid	8270D	467494
480-151605-2	PWEXBM04077	Total/NA	Solid	8270D	467494
480-151605-3	PWEXSWNA131	Total/NA	Solid	8270D	467494
480-151605-4	PWEXSWNA121	Total/NA	Solid	8270D	467494
480-151605-5	PWEXBM04078	Total/NA	Solid	8270D	467494
480-151605-6	PWEXSWNA051	Total/NA	Solid	8270D	467494
480-151605-7	PWEXSWNA133	Total/NA	Solid	8270D	467494
480-151605-8	PWEXSWNA134	Total/NA	Solid	8270D	467494
480-151605-9	PWEXSWNA093	Total/NA	Solid	8270D	467494
480-151605-10	PWEXSWNA090	Total/NA	Solid	8270D	467494
480-151605-11	PWEXSWNA091	Total/NA	Solid	8270D	467494
480-151605-12	PWEXSWNA094	Total/NA	Solid	8270D	467494
480-151605-13	PWEXSWNA152	Total/NA	Solid	8270D	467494
480-151605-14	PWEXSWNA089	Total/NA	Solid	8270D	467494
480-151605-15	PWEXSWNA087	Total/NA	Solid	8270D	467494
480-151605-16	PWEXSWNA088	Total/NA	Solid	8270D	467494
480-151605-17	DUP01	Total/NA	Solid	8270D	467494
480-151605-18	PWEXSNA122	Total/NA	Solid	8270D	467494
MB 480-467494/1-A	Method Blank	Total/NA	Solid	8270D	467494
LCS 480-467494/2-A	Lab Control Sample	Total/NA	Solid	8270D	467494
480-151605-12 MS	PWEXSWNA094	Total/NA	Solid	8270D	467494
480-151605-12 MSD	PWEXSWNA094	Total/NA	Solid	8270D	467494

Analysis Batch: 467948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-9 - DL	PWEXSWNA093	Total/NA	Solid	8270D	467494
480-151605-12 - DL	PWEXSWNA094	Total/NA	Solid	8270D	467494
480-151605-12 MS - DL	PWEXSWNA094	Total/NA	Solid	8270D	467494
480-151605-12 MSD - DL	PWEXSWNA094	Total/NA	Solid	8270D	467494

Analysis Batch: 468164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-16 - DL	PWEXSWNA088	Total/NA	Solid	8270D	467494

General Chemistry

Analysis Batch: 467453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-1	PWEXBM04074	Total/NA	Solid	Moisture	
480-151605-2	PWEXBM04077	Total/NA	Solid	Moisture	
480-151605-3	PWEXSWNA131	Total/NA	Solid	Moisture	
480-151605-4	PWEXSWNA121	Total/NA	Solid	Moisture	
480-151605-5	PWEXBM04078	Total/NA	Solid	Moisture	
480-151605-6	PWEXSWNA051	Total/NA	Solid	Moisture	

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QC Association Summary

Client: AECOM

Job ID: 480-151605-1

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

General Chemistry (Continued)

Analysis Batch: 467453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151605-7	PWEXSWNA133	Total/NA	Solid	Moisture	
480-151605-8	PWEXSWNA134	Total/NA	Solid	Moisture	
480-151605-9	PWEXSWNA093	Total/NA	Solid	Moisture	
480-151605-10	PWEXSWNA090	Total/NA	Solid	Moisture	
480-151605-11	PWEXSWNA091	Total/NA	Solid	Moisture	
480-151605-12	PWEXSWNA094	Total/NA	Solid	Moisture	
480-151605-13	PWEXSWNA152	Total/NA	Solid	Moisture	
480-151605-14	PWEXSWNA089	Total/NA	Solid	Moisture	
480-151605-15	PWEXSWNA087	Total/NA	Solid	Moisture	
480-151605-16	PWEXSWNA088	Total/NA	Solid	Moisture	
480-151605-17	DUP01	Total/NA	Solid	Moisture	
480-151605-18	PWEXSNA122	Total/NA	Solid	Moisture	
480-151605-12 MS	PWEXSWNA094	Total/NA	Solid	Moisture	
480-151605-12 MSD	PWEXSWNA094	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 480-151605-1

Client Sample ID: PWEXBM04074

Date Collected: 04/08/19 10:56

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXBM04074

Date Collected: 04/08/19 10:56

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-1

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467600	04/12/19 08:09	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467604	04/12/19 19:41	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		5	467742	04/12/19 20:20	DMR	TAL BUF

Client Sample ID: PWEXBM04077

Date Collected: 04/08/19 12:05

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXBM04077

Date Collected: 04/08/19 12:05

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-2

Matrix: Solid

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467600	04/12/19 08:09	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467604	04/12/19 20:07	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/12/19 20:45	DMR	TAL BUF

Client Sample ID: PWEXSWNA131

Date Collected: 04/09/19 12:15

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA131

Date Collected: 04/09/19 12:15

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-3

Matrix: Solid

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467600	04/12/19 08:09	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467604	04/12/19 20:33	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/12/19 21:10	DMR	TAL BUF

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Lab Chronicle

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA121

Lab Sample ID: 480-151605-4

Date Collected: 04/09/19 15:31

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA121

Lab Sample ID: 480-151605-4

Date Collected: 04/09/19 15:31

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 11:34	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		5	467742	04/12/19 21:35	DMR	TAL BUF

Client Sample ID: PWEXBM04078

Lab Sample ID: 480-151605-5

Date Collected: 04/09/19 12:02

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXBM04078

Lab Sample ID: 480-151605-5

Date Collected: 04/09/19 12:02

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 12:00	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/12/19 21:59	DMR	TAL BUF

Client Sample ID: PWEXSWNA051

Lab Sample ID: 480-151605-6

Date Collected: 04/09/19 11:13

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA051

Lab Sample ID: 480-151605-6

Date Collected: 04/09/19 11:13

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 12:26	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/12/19 22:24	DMR	TAL BUF

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Lab Chronicle

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA133

Lab Sample ID: 480-151605-7

Date Collected: 04/09/19 12:27

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA133

Lab Sample ID: 480-151605-7

Date Collected: 04/09/19 12:27

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 12:52	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/12/19 22:49	DMR	TAL BUF

Client Sample ID: PWEXSWNA134

Lab Sample ID: 480-151605-8

Date Collected: 04/09/19 11:58

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA134

Lab Sample ID: 480-151605-8

Date Collected: 04/09/19 11:58

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 13:18	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/12/19 23:14	DMR	TAL BUF

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Date Collected: 04/09/19 09:40

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Date Collected: 04/09/19 09:40

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 13:44	CDC	TAL BUF
Total/NA	Prep	3550C	DL		467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D	DL	10	467948	04/15/19 22:53	PJQ	TAL BUF

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Lab Chronicle

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA093

Lab Sample ID: 480-151605-9

Date Collected: 04/09/19 09:40

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/12/19 23:38	DMR	TAL BUF

Client Sample ID: PWEXSWNA090

Lab Sample ID: 480-151605-10

Date Collected: 04/09/19 09:06

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA090

Lab Sample ID: 480-151605-10

Date Collected: 04/09/19 09:06

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 14:10	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		5	467742	04/13/19 00:03	DMR	TAL BUF

Client Sample ID: PWEXSWNA091

Lab Sample ID: 480-151605-11

Date Collected: 04/09/19 09:10

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA091

Lab Sample ID: 480-151605-11

Date Collected: 04/09/19 09:10

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 14:36	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/13/19 00:28	DMR	TAL BUF

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Date Collected: 04/09/19 09:45

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

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Lab Chronicle

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA094

Lab Sample ID: 480-151605-12

Date Collected: 04/09/19 09:45

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			467456	04/11/19 12:09	AMM	TAL BUF
Total/NA	Analysis	8260C		4	467833	04/14/19 13:39	AMM	TAL BUF
Total/NA	Prep	3550C	DL		467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D	DL	50	467948	04/15/19 22:25	PJQ	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		5	467742	04/12/19 19:56	DMR	TAL BUF

Client Sample ID: PWEXSWNA152

Lab Sample ID: 480-151605-13

Date Collected: 04/09/19 11:15

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA152

Lab Sample ID: 480-151605-13

Date Collected: 04/09/19 11:15

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 15:02	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/13/19 00:53	DMR	TAL BUF

Client Sample ID: PWEXSWNA089

Lab Sample ID: 480-151605-14

Date Collected: 04/09/19 11:56

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA089

Lab Sample ID: 480-151605-14

Date Collected: 04/09/19 11:56

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 15:28	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/13/19 01:18	DMR	TAL BUF

Lab Chronicle

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

Job ID: 480-151605-1

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151605-15

Date Collected: 04/09/19 12:25

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA087

Lab Sample ID: 480-151605-15

Date Collected: 04/09/19 12:25

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 15:54	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/13/19 01:43	DMR	TAL BUF

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Date Collected: 04/09/19 12:48

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSWNA088

Lab Sample ID: 480-151605-16

Date Collected: 04/09/19 12:48

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			467456	04/11/19 12:09	AMM	TAL BUF
Total/NA	Analysis	8260C		4	467833	04/14/19 14:03	AMM	TAL BUF
Total/NA	Prep	3550C	DL		467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D	DL	10	468164	04/16/19 16:23	PJQ	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/13/19 02:07	DMR	TAL BUF

Client Sample ID: DUP01

Lab Sample ID: 480-151605-17

Date Collected: 04/09/19 10:32

Matrix: Solid

Date Received: 04/10/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: DUP01

Lab Sample ID: 480-151605-17

Date Collected: 04/09/19 10:32

Matrix: Solid

Date Received: 04/10/19 09:15

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 16:20	CDC	TAL BUF

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Lab Chronicle

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

Job ID: 480-151605-1

Client Sample ID: DUP01

Date Collected: 04/09/19 10:32

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-17

Matrix: Solid

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/13/19 02:32	DMR	TAL BUF

Client Sample ID: PWEXSNA122

Date Collected: 04/09/19 09:05

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467453	04/11/19 12:03	CMK	TAL BUF

Client Sample ID: PWEXSNA122

Date Collected: 04/09/19 09:05

Date Received: 04/10/19 09:15

Lab Sample ID: 480-151605-18

Matrix: Solid

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467780	04/13/19 06:49	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467782	04/13/19 16:46	CDC	TAL BUF
Total/NA	Prep	3550C			467494	04/11/19 15:18	ATG	TAL BUF
Total/NA	Analysis	8270D		1	467742	04/13/19 02:57	DMR	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM

Job ID: 480-151605-1

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

Laboratory: Eurofins TestAmerica, Buffalo

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	10026	03-31-20

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
8270D	3550C	Solid	1-Methylnaphthalene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: AECOM

Job ID: 480-151605-1

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

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM

Job ID: 480-151605-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-151605-1	PWEXBM04074	Solid	04/08/19 10:56	04/10/19 09:15
480-151605-2	PWEXBM04077	Solid	04/08/19 12:05	04/10/19 09:15
480-151605-3	PWEXSWNA131	Solid	04/09/19 12:15	04/10/19 09:15
480-151605-4	PWEXSWNA121	Solid	04/09/19 15:31	04/10/19 09:15
480-151605-5	PWEXBM04078	Solid	04/09/19 12:02	04/10/19 09:15
480-151605-6	PWEXSWNA051	Solid	04/09/19 11:13	04/10/19 09:15
480-151605-7	PWEXSWNA133	Solid	04/09/19 12:27	04/10/19 09:15
480-151605-8	PWEXSWNA134	Solid	04/09/19 11:58	04/10/19 09:15
480-151605-9	PWEXSWNA093	Solid	04/09/19 09:40	04/10/19 09:15
480-151605-10	PWEXSWNA090	Solid	04/09/19 09:06	04/10/19 09:15
480-151605-11	PWEXSWNA091	Solid	04/09/19 09:10	04/10/19 09:15
480-151605-12	PWEXSWNA094	Solid	04/09/19 09:45	04/10/19 09:15
480-151605-13	PWEXSWNA152	Solid	04/09/19 11:15	04/10/19 09:15
480-151605-14	PWEXSWNA089	Solid	04/09/19 11:56	04/10/19 09:15
480-151605-15	PWEXSWNA087	Solid	04/09/19 12:25	04/10/19 09:15
480-151605-16	PWEXSWNA088	Solid	04/09/19 12:48	04/10/19 09:15
480-151605-17	DUP01	Solid	04/09/19 10:32	04/10/19 09:15
480-151605-18	PWEXSNA122	Solid	04/09/19 09:05	04/10/19 09:15

Chain of Custody Record

Client Information Client Contact: George Hermance Phone: 716-861-7882 E-Mail: melissa.deyo@testamericainc.com		Lab PM: Deyo, Melissa L Carrier Tracking No(s): 480-128476-28976.1 Page: Page 1 of 2 Job #:							
Analysis Requested Due Date Requested: 4/12/2019 TAT Requested (days): 72 Hour PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015558 SOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate M - Hexane N - None O - AshNaO2 P - Na2O4S Other:							
Address: 257 West Genesee Street, Suite 400 City: Buffalo State: NY, Zip: 14202-2657 Phone: 518-428-4383(Tel) Email: George.Hermance@aecom.com Project Name: 60584654, Penn Yan Former MGP Phase 2 Site:		480-151605 Chain of Custody (city)							
Sample Identification		Special Instructions/Note:							
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - TCL SVOCs + 20 TICs	8260C - TCL VOCs + TICs	Total Number of Co
1 PWEXBM04074	4/8/19	1056	G	Solid			X	X	2
2 PWEXBM04077	4/8/19	1205	G	Solid			X	X	2
3 PWEXSWNA131	4/9/19	1215	G	Solid			X	X	2
4 PWEXSWNA121	4/8/19	1531	G	Solid			X	X	2
5 PWEXBM04078	4/8/19	1202	G	Solid			X	X	2
6 PWEXSWNA051	4/9/19	1113	G	Solid			X	X	2
7 PWEXSWNA133	4/9/19	1227	G	Solid			X	X	2
8 PWEXSWNA134	4/9/19	1158	G	Solid			X	X	2
9 PWEXSWNA093	4/9/19	0940	G	Solid			X	X	2
10 PWEXSWNA090	4/9/19	0906	G	Solid			X	X	2
11 PWEXSWNA091	4/9/19	0910	G	Solid			X	X	2
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 & Relinquished by:		Date:		Method of Shipment:		Received by:		Date/Time:	
Relinquished by: George Hermance		Date: 4/9/19 1500		Company: Aecom		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	
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Relinquished by:		Date:		Company:		Received by:		Date/Time:	
Relinquished by:		Date:		Company:		Received by:		Date/Time:	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-151605-1

Login Number: 151605

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	AECOM
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, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

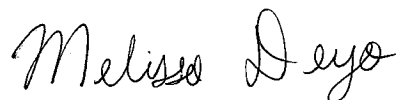
Laboratory Job ID: 480-151821-1

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:
4/22/2019 1:00:44 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: 480-151821-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS VOA TICs

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

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
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.
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: 480-151821-1

Job ID: 480-151821-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-151821-1

Receipt

The samples were received on 4/12/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-468102 recovered above the upper control limit for Trichlorofluoromethane and Vinyl chloride. The sample associated with this CCV was non-detect for the affected analytes; therefore, the data have been reported. The following sample is impacted: PWEXSWNA114 (480-151821-5).

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) associated with batch 480-468627 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: PWEXSWNA109 (480-151821-2) and PWEXSWNA114 (480-151821-5). Elevated reporting limits (RLs) are provided.

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

Organic 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: 480-151821-1

Client Sample ID: PWEXSWNA108

Lab Sample ID: 480-151821-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J vs	28	4.7	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.48	J B vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.46	J B vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	260		190	29	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	570		190	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	1600		190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	2300		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1900		190	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	2100		190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1500		190	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	1200		190	25	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	100	J	190	29	ug/Kg	1	✱	8270D	Total/NA
Carbazole	140	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1800		190	43	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	300		190	34	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	1100		190	23	ug/Kg	1	✱	8270D	Total/NA
Fluorene	810		190	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1300		190	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	43	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Pyrene	5400		190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene - DL	5600		970	100	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene - DL	6000		970	140	ug/Kg	5	✱	8270D	Total/NA

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J vs	29	4.9	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.40	J B vs	5.8	0.36	ug/Kg	1	✱	8260C	Total/NA
Acenaphthene	68	J	190	29	ug/Kg	1	✱	8270D	Total/NA
Anthracene	190		190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	290		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	280		190	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	300		190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	240		190	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	190		190	25	ug/Kg	1	✱	8270D	Total/NA
Carbazole	78	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	260		190	43	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	51	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	560		190	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	48	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	210		190	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	40	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	580		190	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	550		190	23	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA113

Lab Sample ID: 480-151821-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.40	J B vs	5.7	0.35	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49	vs	28	4.6	ug/Kg	1	✱	8260C	Total/NA
Benzene	0.37	J vs	5.5	0.27	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.43	J B vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	6.0	vs	5.5	0.38	ug/Kg	1	✱	8260C	Total/NA
Toluene	2.6	J vs	5.5	0.42	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	46	vs	11	0.93	ug/Kg	1	✱	8260C	Total/NA
2-Methylnaphthalene	2400		190	38	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	370		190	28	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	1100		190	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	1600		190	47	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1800		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1100		190	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1400		190	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	600		190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	680		190	25	ug/Kg	1	✱	8270D	Total/NA
Biphenyl	450		190	28	ug/Kg	1	✱	8270D	Total/NA
Carbazole	620		190	22	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1200		190	42	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	1700		190	22	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	3500		190	20	ug/Kg	1	✱	8270D	Total/NA
Fluorene	2000		190	22	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	620		190	23	ug/Kg	1	✱	8270D	Total/NA
Pyrene	2800		190	22	ug/Kg	1	✱	8270D	Total/NA
Naphthalene - DL	5500		950	120	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene - DL	5300		950	140	ug/Kg	5	✱	8270D	Total/NA

Client Sample ID: PWEXBM04081

Lab Sample ID: 480-151821-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J vs	28	4.6	ug/Kg	1	✱	8260C	Total/NA
Chloroform	0.50	J B vs	5.5	0.34	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	36	J	190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	75	J	190	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	55	J	190	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	53	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	51	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Chrysene	64	J	190	42	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	71	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	50	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	29	J	190	28	ug/Kg	1	✱	8270D	Total/NA
Pyrene	34	J	190	22	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA108

Lab Sample ID: 480-151821-1

Date Collected: 04/11/19 11:16

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.4

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.90	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,1,2-Trichloroethane	ND	vs	5.5	0.72	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,1-Dichloroethane	ND	vs	5.5	0.68	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,1-Dichloroethene	ND	vs	5.5	0.68	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.34	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,2-Dibromoethane	ND	vs	5.5	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,2-Dichloropropane	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
2-Butanone (MEK)	ND	vs	28	2.0	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Acetone	5.6	J vs	28	4.7	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Bromoform	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Bromomethane	ND	vs	5.5	0.50	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Carbon disulfide	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Carbon tetrachloride	ND	vs	5.5	0.54	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Chlorobenzene	ND	vs	5.5	0.73	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Chloroethane	ND	vs	5.5	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Chloroform	0.48	J B vs	5.5	0.34	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.80	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Dibromochloromethane	ND	vs	5.5	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Dichlorodifluoromethane	ND	vs	5.5	0.46	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Methyl acetate	ND	vs	28	3.3	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Methylcyclohexane	ND	vs	5.5	0.84	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Methylene Chloride	ND	vs	5.5	2.5	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Styrene	ND	vs	5.5	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Toluene	ND	vs	5.5	0.42	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Vinyl chloride	ND	vs	5.5	0.68	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1
Xylenes, Total	ND	vs	11	0.93	ug/Kg	☼	04/15/19 08:21	04/15/19 15:38	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA108

Lab Sample ID: 480-151821-1

Date Collected: 04/11/19 11:16

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.4

<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>04/15/19 08:21</i>	<i>04/15/19 15:38</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126				04/15/19 08:21	04/15/19 15:38	1
4-Bromofluorobenzene (Surr)	95		72 - 126				04/15/19 08:21	04/15/19 15:38	1
Dibromofluoromethane (Surr)	106		60 - 140				04/15/19 08:21	04/15/19 15:38	1
Toluene-d8 (Surr)	101		71 - 125				04/15/19 08:21	04/15/19 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2,4-Dimethylphenol	ND		190	45	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2,4-Dinitrophenol	ND		1800	870	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2-Chlorophenol	ND		190	34	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2-Nitroaniline	ND		360	28	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
2-Nitrophenol	ND		190	53	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
3,3'-Dichlorobenzidine	ND		360	220	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
3-Nitroaniline	ND		360	52	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4,6-Dinitro-2-methylphenol	ND		360	190	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4-Bromophenyl phenyl ether	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4-Chloro-3-methylphenol	ND		190	46	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4-Chloroaniline	ND		190	46	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4-Methylphenol	ND		360	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4-Nitroaniline	ND		360	98	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
4-Nitrophenol	ND		360	130	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Acenaphthene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Acenaphthylene	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Acetophenone	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Anthracene	ND		190	46	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Atrazine	ND		190	65	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Benzo[k]fluoranthene	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Biphenyl	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Bis(2-chloroethyl)ether	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Bis(2-ethylhexyl) phthalate	ND		190	64	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA108

Lab Sample ID: 480-151821-1

Date Collected: 04/11/19 11:16

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		190	56	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Carbazole	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Chrysene	ND		190	42	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Diethyl phthalate	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Fluoranthene	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Fluorene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Hexachlorobenzene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Hexachlorocyclopentadiene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Hexachloroethane	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Indeno[1,2,3-cd]pyrene	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Isophorone	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Naphthalene	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Pentachlorophenol	ND		360	190	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Phenanthrene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Phenol	ND		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1
Pyrene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8500	T J	ug/Kg	☼	1.60		04/17/19 14:50	04/18/19 22:19	1
Unknown	2200	T J	ug/Kg	☼	2.69		04/17/19 14:50	04/18/19 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		54 - 120	04/17/19 14:50	04/18/19 22:19	1
2-Fluorobiphenyl (Surr)	82		60 - 120	04/17/19 14:50	04/18/19 22:19	1
2-Fluorophenol (Surr)	80		52 - 120	04/17/19 14:50	04/18/19 22:19	1
Nitrobenzene-d5 (Surr)	83		53 - 120	04/17/19 14:50	04/18/19 22:19	1
Phenol-d5 (Surr)	78		54 - 120	04/17/19 14:50	04/18/19 22:19	1
p-Terphenyl-d14 (Surr)	88		65 - 121	04/17/19 14:50	04/18/19 22:19	1

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Date Collected: 04/11/19 11:15

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 86.5

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.94	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,1-Dichloroethane	ND	vs	5.8	0.70	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Date Collected: 04/11/19 11:15

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 86.5

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Acetone	13	J vs	29	4.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Chloroform	0.46	J B vs	5.8	0.36	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Tetrachloroethene	ND	vs	5.8	0.77	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Vinyl chloride	ND	vs	5.8	0.70	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1
Xylenes, Total	ND	vs	12	0.97	ug/Kg	☼	04/15/19 08:21	04/15/19 16:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/15/19 08:21	04/15/19 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		64 - 126	04/15/19 08:21	04/15/19 16:04	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/15/19 08:21	04/15/19 16:04	1
Dibromofluoromethane (Surr)	107		60 - 140	04/15/19 08:21	04/15/19 16:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Date Collected: 04/11/19 11:15

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 86.5

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	04/15/19 08:21	04/15/19 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	53	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2,4-Dichlorophenol	ND		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2-Methylphenol	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Acenaphthene	260		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Acenaphthylene	570		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Acetophenone	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Anthracene	1600		190	48	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Atrazine	ND		190	67	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Benzo[a]anthracene	2300		190	19	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Benzo[a]pyrene	1900		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Benzo[b]fluoranthene	2100		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Benzo[g,h,i]perylene	1500		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Benzo[k]fluoranthene	1200		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Biphenyl	100 J		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Caprolactam	ND		190	58	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Carbazole	140 J		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Chrysene	1800		190	43	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Dibenz(a,h)anthracene	300		190	34	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Dibenzofuran	1100		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Date Collected: 04/11/19 11:15

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Fluorene	810		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Indeno[1,2,3-cd]pyrene	1300		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Isophorone	ND		190	41	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Naphthalene	43	J	190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Nitrobenzene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Phenol	ND		190	30	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1
Pyrene	5400		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 22:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7100	T J	ug/Kg	☼	1.59		04/17/19 14:50	04/18/19 22:42	1
Unknown	1900	T J	ug/Kg	☼	2.68		04/17/19 14:50	04/18/19 22:42	1
Dibenzofuran, 4-methyl-	420	T J N	ug/Kg	☼	9.58	7320-53-8	04/17/19 14:50	04/18/19 22:42	1
Unknown	660	T J	ug/Kg	☼	10.17		04/17/19 14:50	04/18/19 22:42	1
Dibenzothiophene	810	T J N	ug/Kg	☼	10.31	132-65-0	04/17/19 14:50	04/18/19 22:42	1
Phenanthrene, 2-methyl-	650	T J N	ug/Kg	☼	10.93	2531-84-2	04/17/19 14:50	04/18/19 22:42	1
Anthracene, 1-methyl-	930	T J N	ug/Kg	☼	10.95	610-48-0	04/17/19 14:50	04/18/19 22:42	1
4H-Cyclopenta[def]phenanthrene	1800	T J N	ug/Kg	☼	11.03	203-64-5	04/17/19 14:50	04/18/19 22:42	1
Naphthalene, 2-phenyl-	550	T J N	ug/Kg	☼	11.22	612-94-2	04/17/19 14:50	04/18/19 22:42	1
9,10-Dimethylanthracene	470	T J N	ug/Kg	☼	11.45	781-43-1	04/17/19 14:50	04/18/19 22:42	1
Unknown	510	T J	ug/Kg	☼	11.48		04/17/19 14:50	04/18/19 22:42	1
Benzo[e]pyrene	470	T J N	ug/Kg	☼	13.75	192-97-2	04/17/19 14:50	04/18/19 22:42	1
Benzo[j]fluoranthene	840	T J N	ug/Kg	☼	13.88	205-82-3	04/17/19 14:50	04/18/19 22:42	1
13H-Dibenzo[a,h]fluorene	380	T J N	ug/Kg	☼	14.08	239-85-0	04/17/19 14:50	04/18/19 22:42	1
Benzo[b]triphenylene	410	T J N	ug/Kg	☼	14.64	215-58-7	04/17/19 14:50	04/18/19 22:42	1
1,2:7,8-Dibenzophenanthrene	520	T J N	ug/Kg	☼	14.84	213-46-7	04/17/19 14:50	04/18/19 22:42	1
Dibenzo[def,mno]chrysene	730	T J N	ug/Kg	☼	15.05	191-26-4	04/17/19 14:50	04/18/19 22:42	1
Dibenz(a,e)aceanthrylene	480	T J N	ug/Kg	☼	15.92	5385-75-1	04/17/19 14:50	04/18/19 22:42	1
Unknown	380	T J	ug/Kg	☼	16.03		04/17/19 14:50	04/18/19 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		54 - 120	04/17/19 14:50	04/18/19 22:42	1
2-Fluorobiphenyl (Surr)	86		60 - 120	04/17/19 14:50	04/18/19 22:42	1
2-Fluorophenol (Surr)	78		52 - 120	04/17/19 14:50	04/18/19 22:42	1
Nitrobenzene-d5 (Surr)	82		53 - 120	04/17/19 14:50	04/18/19 22:42	1
Phenol-d5 (Surr)	73		54 - 120	04/17/19 14:50	04/18/19 22:42	1
p-Terphenyl-d14 (Surr)	78		65 - 121	04/17/19 14:50	04/18/19 22:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Date Collected: 04/11/19 11:15

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	5600		970	100	ug/Kg	☼	04/17/19 14:50	04/19/19 14:45	5
Phenanthrene	6000		970	140	ug/Kg	☼	04/17/19 14:50	04/19/19 14:45	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Methylene Chloride	27000	T J N	ug/Kg	☼	1.57	75-09-2	04/17/19 14:50	04/19/19 14:45	5
Unknown	2000	T J	ug/Kg	☼	2.66		04/17/19 14:50	04/19/19 14:45	5
Unknown	1600	T J	ug/Kg	☼	11.02		04/17/19 14:50	04/19/19 14:45	5
Unknown	1900	T J	ug/Kg	☼	13.91		04/17/19 14:50	04/19/19 14:45	5
Dibenzo[def,mno]chrysene	880	T J N	ug/Kg	☼	15.04	191-26-4	04/17/19 14:50	04/19/19 14:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		54 - 120	04/17/19 14:50	04/19/19 14:45	5
2-Fluorobiphenyl (Surr)	87		60 - 120	04/17/19 14:50	04/19/19 14:45	5
2-Fluorophenol (Surr)	88		52 - 120	04/17/19 14:50	04/19/19 14:45	5
Nitrobenzene-d5 (Surr)	91		53 - 120	04/17/19 14:50	04/19/19 14:45	5
Phenol-d5 (Surr)	84		54 - 120	04/17/19 14:50	04/19/19 14:45	5
p-Terphenyl-d14 (Surr)	91		65 - 121	04/17/19 14:50	04/19/19 14:45	5

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 85.0

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.94	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,1-Dichloroethane	ND	vs	5.8	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Acetone	14	J vs	29	4.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Bromodichloromethane	ND	vs	5.8	0.78	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 85.0

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.40	J B vs	5.8	0.36	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Methylene Chloride	ND	vs	5.8	2.7	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Tetrachloroethene	ND	vs	5.8	0.78	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.60	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Trichlorofluoromethane	ND	vs	5.8	0.55	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Vinyl chloride	ND	vs	5.8	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1
Xylenes, Total	ND	vs	12	0.97	ug/Kg	☼	04/15/19 08:21	04/15/19 16:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	10	T J	ug/Kg	☼	12.53		04/15/19 08:21	04/15/19 16:30	1
Dibenzofuran	29	T J N	ug/Kg	☼	13.24	132-64-9	04/15/19 08:21	04/15/19 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	04/15/19 08:21	04/15/19 16:30	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/15/19 08:21	04/15/19 16:30	1
Dibromofluoromethane (Surr)	106		60 - 140	04/15/19 08:21	04/15/19 16:30	1
Toluene-d8 (Surr)	99		71 - 125	04/15/19 08:21	04/15/19 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2,4,6-Trichlorophenol	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2,4-Dichlorophenol	ND		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2,4-Dimethylphenol	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2-Methylnaphthalene	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2-Methylphenol	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
2-Nitrophenol	ND		190	55	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		380	190	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
4-Chloro-3-methylphenol	ND		190	48	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
4-Chloroaniline	ND		190	48	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
4-Methylphenol	ND		380	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Acenaphthene	68	J	190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Acenaphthylene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Acetophenone	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Anthracene	190		190	48	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Atrazine	ND		190	67	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Benzo[a]anthracene	290		190	19	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Benzo[a]pyrene	280		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Benzo[b]fluoranthene	300		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Benzo[g,h,i]perylene	240		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Benzo[k]fluoranthene	190		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Biphenyl	ND		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
bis (2-chloroisopropyl) ether	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Caprolactam	ND		190	58	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Carbazole	78	J	190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Chrysene	260		190	43	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Dibenzofuran	51	J	190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Fluoranthene	560		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Fluorene	48	J	190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Hexachlorobutadiene	ND		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Indeno[1,2,3-cd]pyrene	210		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Isophorone	ND		190	41	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Naphthalene	40	J	190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Nitrobenzene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Pentachlorophenol	ND		380	190	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Phenanthrene	580		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Phenol	ND		190	30	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	550		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:05	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7600	T J	ug/Kg	☼	1.59		04/17/19 14:50	04/18/19 23:05	1
Unknown	2200	T J	ug/Kg	☼	2.69		04/17/19 14:50	04/18/19 23:05	1
Unknown	170	T J	ug/Kg	☼	12.45		04/17/19 14:50	04/18/19 23:05	1
Perylene	170	T J N	ug/Kg	☼	13.87	198-55-0	04/17/19 14:50	04/18/19 23:05	1
Unknown	170	T J	ug/Kg	☼	15.03		04/17/19 14:50	04/18/19 23:05	1
Unknown	250	T J	ug/Kg	☼	15.40		04/17/19 14:50	04/18/19 23:05	1
Unknown	210	T J	ug/Kg	☼	15.98		04/17/19 14:50	04/18/19 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		54 - 120				04/17/19 14:50	04/18/19 23:05	1
2-Fluorobiphenyl (Surr)	87		60 - 120				04/17/19 14:50	04/18/19 23:05	1
2-Fluorophenol (Surr)	80		52 - 120				04/17/19 14:50	04/18/19 23:05	1
Nitrobenzene-d5 (Surr)	86		53 - 120				04/17/19 14:50	04/18/19 23:05	1
Phenol-d5 (Surr)	76		54 - 120				04/17/19 14:50	04/18/19 23:05	1
p-Terphenyl-d14 (Surr)	88		65 - 121				04/17/19 14:50	04/18/19 23:05	1

Client Sample ID: PWEXSWNA113

Lab Sample ID: 480-151821-4

Date Collected: 04/11/19 11:26

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 87.1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.92	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,1-Dichloroethane	ND	vs	5.7	0.69	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,2-Dichlorobenzene	ND	vs	5.7	0.44	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,2-Dichloropropane	ND	vs	5.7	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.9	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Acetone	ND	vs	28	4.8	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Bromodichloromethane	ND	vs	5.7	0.76	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Bromoform	ND	vs	5.7	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Carbon disulfide	ND	vs	5.7	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA113

Lab Sample ID: 480-151821-4

Date Collected: 04/11/19 11:26

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 87.1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Chloroform	0.40	J B vs	5.7	0.35	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Methylcyclohexane	ND	vs	5.7	0.86	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Styrene	ND	vs	5.7	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Tetrachloroethene	ND	vs	5.7	0.76	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Vinyl chloride	ND	vs	5.7	0.69	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1
Xylenes, Total	ND	vs	11	0.95	ug/Kg	☼	04/15/19 08:21	04/15/19 16:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/15/19 08:21	04/15/19 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	04/15/19 08:21	04/15/19 16:56	1
4-Bromofluorobenzene (Surr)	95		72 - 126	04/15/19 08:21	04/15/19 16:56	1
Dibromofluoromethane (Surr)	103		60 - 140	04/15/19 08:21	04/15/19 16:56	1
Toluene-d8 (Surr)	100		71 - 125	04/15/19 08:21	04/15/19 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA113

Lab Sample ID: 480-151821-4

Date Collected: 04/11/19 11:26

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
4-Methylphenol	ND		370	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Acenaphthene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Acenaphthylene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Acetophenone	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Anthracene	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Atrazine	ND		190	66	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Biphenyl	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Caprolactam	ND		190	57	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Carbazole	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Chrysene	ND		190	43	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Fluoranthene	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Fluorene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Isophorone	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Naphthalene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Phenanthrene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
Phenol	ND		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA113

Lab Sample ID: 480-151821-4

Date Collected: 04/11/19 11:26

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:28	1
<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>
Unknown	8200	T J	ug/Kg	☼	1.59		04/17/19 14:50	04/18/19 23:28	1
Unknown	2500	T J	ug/Kg	☼	2.69		04/17/19 14:50	04/18/19 23:28	1
Unknown	170	T J	ug/Kg	☼	13.53		04/17/19 14:50	04/18/19 23:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	99		54 - 120				04/17/19 14:50	04/18/19 23:28	1
2-Fluorobiphenyl (Surr)	89		60 - 120				04/17/19 14:50	04/18/19 23:28	1
2-Fluorophenol (Surr)	85		52 - 120				04/17/19 14:50	04/18/19 23:28	1
Nitrobenzene-d5 (Surr)	93		53 - 120				04/17/19 14:50	04/18/19 23:28	1
Phenol-d5 (Surr)	83		54 - 120				04/17/19 14:50	04/18/19 23:28	1
p-Terphenyl-d14 (Surr)	92		65 - 121				04/17/19 14:50	04/18/19 23:28	1

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Date Collected: 04/11/19 10:47

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 89.2

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,1,2-Trichloroethane	ND	vs	5.5	0.72	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.34	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.8	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,2-Dibromoethane	ND	vs	5.5	0.71	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,2-Dichloropropane	ND	vs	5.5	2.8	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
2-Butanone (MEK)	ND	vs	28	2.0	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Acetone	49	vs	28	4.6	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Benzene	0.37	J vs	5.5	0.27	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Bromoform	ND	vs	5.5	2.8	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Bromomethane	ND	vs	5.5	0.50	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Carbon disulfide	ND	vs	5.5	2.8	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Chlorobenzene	ND	vs	5.5	0.73	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Chloroform	0.43	J B vs	5.5	0.34	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.71	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Date Collected: 04/11/19 10:47

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 89.2

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Dibromochloromethane	ND	vs	5.5	0.71	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Dichlorodifluoromethane	ND	vs	5.5	0.46	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Ethylbenzene	6.0	vs	5.5	0.38	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Methyl acetate	ND	vs	28	3.3	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Methylcyclohexane	ND	vs	5.5	0.84	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Methylene Chloride	ND	vs	5.5	2.5	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Styrene	ND	vs	5.5	0.28	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Toluene	2.6	J vs	5.5	0.42	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1
Xylenes, Total	46	vs	11	0.93	ug/Kg	☼	04/16/19 08:22	04/16/19 19:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	33		ug/Kg	☼	8.78	179601-23-1	04/16/19 08:22	04/16/19 19:28	1
Benzene, 1,2,4-trimethyl-	31	T J N	ug/Kg	☼	10.51	95-63-6	04/16/19 08:22	04/16/19 19:28	1
Indane	16	T J N	ug/Kg	☼	11.10	496-11-7	04/16/19 08:22	04/16/19 19:28	1
Indene	63	T J N	ug/Kg	☼	11.30	95-13-6	04/16/19 08:22	04/16/19 19:28	1
Benzofuran, 2-methyl-	19	T J N	ug/Kg	☼	11.87	4265-25-2	04/16/19 08:22	04/16/19 19:28	1
Benzene, (1-methyl-2-cyclopropen-1-yl)-	13	T J N	ug/Kg	☼	12.27	65051-83-4	04/16/19 08:22	04/16/19 19:28	1
2-Methylindene	17	T J N	ug/Kg	☼	12.37	2177-47-1	04/16/19 08:22	04/16/19 19:28	1
Naphthalene	340	T J N	ug/Kg	☼	12.81	91-20-3	04/16/19 08:22	04/16/19 19:28	1
Benzo[c]thiophene	15	T J N	ug/Kg	☼	12.93	270-82-6	04/16/19 08:22	04/16/19 19:28	1
Naphthalene, 2-methyl-	120	T J N	ug/Kg	☼	13.94	91-57-6	04/16/19 08:22	04/16/19 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		64 - 126	04/16/19 08:22	04/16/19 19:28	1
4-Bromofluorobenzene (Surr)	103		72 - 126	04/16/19 08:22	04/16/19 19:28	1
Dibromofluoromethane (Surr)	107		60 - 140	04/16/19 08:22	04/16/19 19:28	1
Toluene-d8 (Surr)	99		71 - 125	04/16/19 08:22	04/16/19 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2,4-Dinitrophenol	ND		1900	870	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Date Collected: 04/11/19 10:47

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	2400		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4-Methylphenol	ND		370	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4-Nitroaniline	ND		370	99	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Acenaphthene	370		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Acenaphthylene	1100		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Acetophenone	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Anthracene	1600		190	47	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Atrazine	ND		190	66	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Benzo[a]anthracene	1800		190	19	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Benzo[a]pyrene	1100		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Benzo[b]fluoranthene	1400		190	30	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Benzo[g,h,i]perylene	600		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Benzo[k]fluoranthene	680		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Biphenyl	450		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Caprolactam	ND		190	57	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Carbazole	620		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Chrysene	1200		190	42	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Dibenz(a,h)anthracene	ND		190	33	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Dibenzofuran	1700		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Fluoranthene	3500		190	20	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Fluorene	2000		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Indeno[1,2,3-cd]pyrene	620		190	23	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Isophorone	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Date Collected: 04/11/19 10:47

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Phenol	ND		190	29	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1
Pyrene	2800		190	22	ug/Kg	☼	04/17/19 14:50	04/18/19 23:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9100	T J	ug/Kg	☼	1.59		04/17/19 14:50	04/18/19 23:51	1
Unknown	2300	T J	ug/Kg	☼	2.69		04/17/19 14:50	04/18/19 23:51	1
1H-Indene, 1-ethylidene-	1700	T J N	ug/Kg	☼	7.65	2471-83-2	04/17/19 14:50	04/18/19 23:51	1
Naphthalene, 2,7-dimethyl-	740	T J N	ug/Kg	☼	8.27	582-16-1	04/17/19 14:50	04/18/19 23:51	1
Naphthalene, 2,3-dimethyl-	850	T J N	ug/Kg	☼	8.36	581-40-8	04/17/19 14:50	04/18/19 23:51	1
Dibenzofuran, 4-methyl-	530	T J N	ug/Kg	☼	9.58	7320-53-8	04/17/19 14:50	04/18/19 23:51	1
9H-Fluorene, 3-methyl-	380	T J N	ug/Kg	☼	10.01	2523-39-9	04/17/19 14:50	04/18/19 23:51	1
Unknown	440	T J	ug/Kg	☼	10.19		04/17/19 14:50	04/18/19 23:51	1
Dibenzothiophene	650	T J N	ug/Kg	☼	10.30	132-65-0	04/17/19 14:50	04/18/19 23:51	1
Phenanthrene, 1-methyl-	950	T J N	ug/Kg	☼	10.95	832-69-9	04/17/19 14:50	04/18/19 23:51	1
1H-Cyclopropa[l]phenanthrene, 1a,9b-dihydro-	450	T J N	ug/Kg	☼	10.99	949-41-7	04/17/19 14:50	04/18/19 23:51	1
Unknown	1800	T J	ug/Kg	☼	11.02		04/17/19 14:50	04/18/19 23:51	1
Naphthalene, 2-phenyl-	380	T J N	ug/Kg	☼	11.21	612-94-2	04/17/19 14:50	04/18/19 23:51	1
9,10-Dimethylantracene	490	T J N	ug/Kg	☼	11.45	781-43-1	04/17/19 14:50	04/18/19 23:51	1
Unknown	440	T J	ug/Kg	☼	11.47		04/17/19 14:50	04/18/19 23:51	1
Benzo[j]fluoranthene	400	T J N	ug/Kg	☼	13.74	205-82-3	04/17/19 14:50	04/18/19 23:51	1
Benzo[e]pyrene	600	T J N	ug/Kg	☼	13.87	192-97-2	04/17/19 14:50	04/18/19 23:51	1
Unknown	460	T J	ug/Kg	☼	14.07		04/17/19 14:50	04/18/19 23:51	1
Dibenzo[def,mno]chrysene	460	T J N	ug/Kg	☼	15.03	191-26-4	04/17/19 14:50	04/18/19 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		54 - 120	04/17/19 14:50	04/18/19 23:51	1
2-Fluorobiphenyl (Surr)	96		60 - 120	04/17/19 14:50	04/18/19 23:51	1
2-Fluorophenol (Surr)	88		52 - 120	04/17/19 14:50	04/18/19 23:51	1
Nitrobenzene-d5 (Surr)	92		53 - 120	04/17/19 14:50	04/18/19 23:51	1
Phenol-d5 (Surr)	87		54 - 120	04/17/19 14:50	04/18/19 23:51	1
p-Terphenyl-d14 (Surr)	93		65 - 121	04/17/19 14:50	04/18/19 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	5500		950	120	ug/Kg	☼	04/17/19 14:50	04/19/19 15:08	5
Phenanthrene	5300		950	140	ug/Kg	☼	04/17/19 14:50	04/19/19 15:08	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Methylene Chloride	27000	T J N	ug/Kg	☼	1.59	75-09-2	04/17/19 14:50	04/19/19 15:08	5
Unknown	2100	T J	ug/Kg	☼	2.69		04/17/19 14:50	04/19/19 15:08	5
1,4-Methanonaphthalene, 1,4-dihydro-	1400	T J N	ug/Kg	☼	7.65	4453-90-1	04/17/19 14:50	04/19/19 15:08	5
Naphthalene, 1,7-dimethyl-	750	T J N	ug/Kg	☼	8.28	575-37-1	04/17/19 14:50	04/19/19 15:08	5
Naphthalene, 1,3-dimethyl-	830	T J N	ug/Kg	☼	8.37	575-41-7	04/17/19 14:50	04/19/19 15:08	5
Phenanthrene, 2-methyl-	960	T J N	ug/Kg	☼	10.95	2531-84-2	04/17/19 14:50	04/19/19 15:08	5
Unknown	1100	T J	ug/Kg	☼	11.02		04/17/19 14:50	04/19/19 15:08	5
11H-Benzo[b]fluorene	890	T J N	ug/Kg	☼	12.09	243-17-4	04/17/19 14:50	04/19/19 15:08	5

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Date Collected: 04/11/19 10:47

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 89.2

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzo[e]pyrene	1100	T J N	ug/Kg	☼	13.91	192-97-2	04/17/19 14:50	04/19/19 15:08	5
Unknown	800	T J	ug/Kg	☼	15.39		04/17/19 14:50	04/19/19 15:08	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		54 - 120				04/17/19 14:50	04/19/19 15:08	5
2-Fluorobiphenyl (Surr)	85		60 - 120				04/17/19 14:50	04/19/19 15:08	5
2-Fluorophenol (Surr)	83		52 - 120				04/17/19 14:50	04/19/19 15:08	5
Nitrobenzene-d5 (Surr)	88		53 - 120				04/17/19 14:50	04/19/19 15:08	5
Phenol-d5 (Surr)	82		54 - 120				04/17/19 14:50	04/19/19 15:08	5
p-Terphenyl-d14 (Surr)	89		65 - 121				04/17/19 14:50	04/19/19 15:08	5

Client Sample ID: PWEXBM04081

Lab Sample ID: 480-151821-6

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5	0.40	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5	0.89	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5	1.3	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,1,2-Trichloroethane	ND	vs	5.5	0.72	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,1-Dichloroethane	ND	vs	5.5	0.67	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,1-Dichloroethene	ND	vs	5.5	0.67	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,2,4-Trichlorobenzene	ND	vs	5.5	0.34	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,2-Dibromoethane	ND	vs	5.5	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,2-Dichlorobenzene	ND	vs	5.5	0.43	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,2-Dichloroethane	ND	vs	5.5	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,2-Dichloropropane	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,3-Dichlorobenzene	ND	vs	5.5	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
1,4-Dichlorobenzene	ND	vs	5.5	0.77	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
2-Butanone (MEK)	ND	vs	28	2.0	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Acetone	16	J vs	28	4.6	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Benzene	ND	vs	5.5	0.27	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Bromodichloromethane	ND	vs	5.5	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Bromoform	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Bromomethane	ND	vs	5.5	0.50	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Carbon disulfide	ND	vs	5.5	2.8	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Carbon tetrachloride	ND	vs	5.5	0.53	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Chlorobenzene	ND	vs	5.5	0.73	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Chloroethane	ND	vs	5.5	1.2	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Chloroform	0.50	J B vs	5.5	0.34	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Chloromethane	ND	vs	5.5	0.33	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
cis-1,2-Dichloroethene	ND	vs	5.5	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
cis-1,3-Dichloropropene	ND	vs	5.5	0.79	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Cyclohexane	ND	vs	5.5	0.77	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Dibromochloromethane	ND	vs	5.5	0.71	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Dichlorodifluoromethane	ND	vs	5.5	0.46	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXBM04081

Lab Sample ID: 480-151821-6

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	vs	5.5	0.38	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Isopropylbenzene	ND	vs	5.5	0.83	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Methyl acetate	ND	vs	28	3.3	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Methyl tert-butyl ether	ND	vs	5.5	0.54	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Methylcyclohexane	ND	vs	5.5	0.84	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Methylene Chloride	ND	vs	5.5	2.5	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Styrene	ND	vs	5.5	0.28	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Tetrachloroethene	ND	vs	5.5	0.74	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Toluene	ND	vs	5.5	0.42	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
trans-1,2-Dichloroethene	ND	vs	5.5	0.57	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
trans-1,3-Dichloropropene	ND	vs	5.5	2.4	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Trichloroethene	ND	vs	5.5	1.2	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Trichlorofluoromethane	ND	vs	5.5	0.52	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Vinyl chloride	ND	vs	5.5	0.67	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1
Xylenes, Total	ND	vs	11	0.93	ug/Kg	☼	04/15/19 08:21	04/15/19 17:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/15/19 08:21	04/15/19 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	04/15/19 08:21	04/15/19 17:22	1
4-Bromofluorobenzene (Surr)	97		72 - 126	04/15/19 08:21	04/15/19 17:22	1
Dibromofluoromethane (Surr)	113		60 - 140	04/15/19 08:21	04/15/19 17:22	1
Toluene-d8 (Surr)	101		71 - 125	04/15/19 08:21	04/15/19 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	51	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2-Chloronaphthalene	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2-Methylphenol	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
3-Nitroaniline	ND		370	52	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4-Chlorophenyl phenyl ether	ND		190	23	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4-Methylphenol	ND		370	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4-Nitroaniline	ND		370	99	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1

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Client Sample Results

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

Job ID: 480-151821-1

Client Sample ID: PWEXBM04081

Lab Sample ID: 480-151821-6

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Acenaphthylene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Acetophenone	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Anthracene	ND		190	47	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Atrazine	ND		190	66	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Benzaldehyde	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Benzo[a]anthracene	36	J	190	19	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Benzo[a]pyrene	75	J	190	28	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Benzo[b]fluoranthene	55	J	190	30	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Benzo[g,h,i]perylene	53	J	190	20	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Benzo[k]fluoranthene	51	J	190	25	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Biphenyl	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Caprolactam	ND		190	57	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Carbazole	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Chrysene	64	J	190	42	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Dibenzofuran	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Dimethyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Fluoranthene	71	J	190	20	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Fluorene	ND		190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Hexachloroethane	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Indeno[1,2,3-cd]pyrene	50	J	190	23	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Isophorone	ND		190	40	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Naphthalene	ND		190	25	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Nitrobenzene	ND		190	21	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Phenanthrene	29	J	190	28	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Phenol	ND		190	29	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1
Pyrene	34	J	190	22	ug/Kg	☼	04/17/19 14:50	04/19/19 00:14	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7900	T J	ug/Kg	☼	1.59		04/17/19 14:50	04/19/19 00:14	1
Unknown	2300	T J	ug/Kg	☼	2.70		04/17/19 14:50	04/19/19 00:14	1
Ethane, 1,1,2,2-tetrachloro-	160	T J N	ug/Kg	☼	3.97	79-34-5	04/17/19 14:50	04/19/19 00:14	1
Unknown	180	T J	ug/Kg	☼	15.38		04/17/19 14:50	04/19/19 00:14	1

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Client Sample Results

Client: AECOM

Job ID: 480-151821-1

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

Client Sample ID: PWEXBM04081

Lab Sample ID: 480-151821-6

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	91		54 - 120	04/17/19 14:50	04/19/19 00:14	1
2-Fluorobiphenyl (Surr)	86		60 - 120	04/17/19 14:50	04/19/19 00:14	1
2-Fluorophenol (Surr)	84		52 - 120	04/17/19 14:50	04/19/19 00:14	1
Nitrobenzene-d5 (Surr)	91		53 - 120	04/17/19 14:50	04/19/19 00:14	1
Phenol-d5 (Surr)	83		54 - 120	04/17/19 14:50	04/19/19 00:14	1
p-Terphenyl-d14 (Surr)	85		65 - 121	04/17/19 14:50	04/19/19 00:14	1

Surrogate Summary

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

Job ID: 480-151821-1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-151821-1	PWEXSWNA108	110	95	106	101
480-151821-2	PWEXSWNA109	113	97	107	100
480-151821-3	PWEXSWNA112	110	98	106	99
480-151821-4	PWEXSWNA113	106	95	103	100
480-151821-5	PWEXSWNA114	116	103	107	99
480-151821-6	PWEXBM04081	111	97	113	101
LCS 480-467887/1-A	Lab Control Sample	103	106	101	101
LCS 480-468100/1-A	Lab Control Sample	108	105	102	100
MB 480-467887/2-A	Method Blank	106	99	103	101
MB 480-468100/2-A	Method Blank	107	98	104	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
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 (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (65-121)
480-151821-1	PWEXSWNA108	93	82	80	83	78	88
480-151821-2	PWEXSWNA109	94	86	78	82	73	78
480-151821-2 - DL	PWEXSWNA109	86	87	88	91	84	91
480-151821-3	PWEXSWNA112	97	87	80	86	76	88
480-151821-4	PWEXSWNA113	99	89	85	93	83	92
480-151821-5	PWEXSWNA114	110	96	88	92	87	93
480-151821-5 - DL	PWEXSWNA114	93	85	83	88	82	89
480-151821-6	PWEXBM04081	91	86	84	91	83	85
LCS 480-468426/2-A	Lab Control Sample	104	88	87	88	86	91
MB 480-468426/1-A	Method Blank	88	86	81	86	86	89

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

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

Job ID: 480-151821-1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS)

Lab Sample ID: MB 480-467887/2-A

Matrix: Solid

Analysis Batch: 467889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
2-Hexanone	ND		25	2.5	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Acetone	ND		25	4.2	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Benzene	ND		5.0	0.25	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Bromoform	ND		5.0	2.5	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Chloroform	0.394	J	5.0	0.31	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Methyl acetate	ND		25	3.0	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Styrene	ND		5.0	0.25	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Toluene	ND		5.0	0.38	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/15/19 08:21	04/15/19 11:06	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/15/19 08:21	04/15/19 11:06	1

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QC Sample Results

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

Job ID: 480-151821-1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Lab Sample ID: MB 480-467887/2-A

Matrix: Solid

Analysis Batch: 467889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467887

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				04/15/19 08:21	04/15/19 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126				04/15/19 08:21	04/15/19 11:06	1
4-Bromofluorobenzene (Surr)	99		72 - 126				04/15/19 08:21	04/15/19 11:06	1
Dibromofluoromethane (Surr)	103		60 - 140				04/15/19 08:21	04/15/19 11:06	1
Toluene-d8 (Surr)	101		71 - 125				04/15/19 08:21	04/15/19 11:06	1

Lab Sample ID: LCS 480-467887/1-A

Matrix: Solid

Analysis Batch: 467889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	47.4		ug/Kg		95	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.6		ug/Kg		95	60 - 140
1,1,2-Trichloroethane	50.0	48.1		ug/Kg		96	78 - 122
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	73 - 126
1,1-Dichloroethene	50.0	47.2		ug/Kg		94	59 - 125
1,2,4-Trichlorobenzene	50.0	44.2		ug/Kg		88	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	38.4		ug/Kg		77	63 - 124
1,2-Dibromoethane	50.0	48.4		ug/Kg		97	78 - 120
1,2-Dichlorobenzene	50.0	46.1		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	77 - 122
1,2-Dichloropropane	50.0	50.3		ug/Kg		101	75 - 124
1,3-Dichlorobenzene	50.0	47.3		ug/Kg		95	74 - 120
1,4-Dichlorobenzene	50.0	46.2		ug/Kg		92	73 - 120
2-Butanone (MEK)	250	238		ug/Kg		95	70 - 134
2-Hexanone	250	233		ug/Kg		93	59 - 130
4-Methyl-2-pentanone (MIBK)	250	231		ug/Kg		92	65 - 133
Acetone	250	212		ug/Kg		85	61 - 137
Benzene	50.0	49.9		ug/Kg		100	79 - 127
Bromodichloromethane	50.0	47.0		ug/Kg		94	80 - 122
Bromoform	50.0	50.0		ug/Kg		100	68 - 126
Bromomethane	50.0	46.3		ug/Kg		93	37 - 149
Carbon disulfide	50.0	47.8		ug/Kg		96	64 - 131
Carbon tetrachloride	50.0	49.4		ug/Kg		99	75 - 135
Chlorobenzene	50.0	48.7		ug/Kg		97	76 - 124
Chloroethane	50.0	41.7		ug/Kg		83	69 - 135
Chloroform	50.0	49.3		ug/Kg		99	80 - 120
Chloromethane	50.0	41.4		ug/Kg		83	63 - 127
cis-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	80 - 120
Cyclohexane	50.0	46.3		ug/Kg		93	65 - 120
Dibromochloromethane	50.0	47.6		ug/Kg		95	76 - 125
Dichlorodifluoromethane	50.0	36.5		ug/Kg		73	57 - 142
Ethylbenzene	50.0	48.1		ug/Kg		96	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151821-1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Lab Sample ID: LCS 480-467887/1-A

Matrix: Solid

Analysis Batch: 467889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	43.8		ug/Kg		88	72 - 120
Methyl acetate	100	89.2		ug/Kg		89	55 - 136
Methyl tert-butyl ether	50.0	45.1		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	45.9		ug/Kg		92	60 - 140
Methylene Chloride	50.0	42.7		ug/Kg		85	61 - 127
Styrene	50.0	45.5		ug/Kg		91	80 - 120
Tetrachloroethene	50.0	51.5		ug/Kg		103	74 - 122
Toluene	50.0	48.4		ug/Kg		97	74 - 128
trans-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	78 - 126
trans-1,3-Dichloropropene	50.0	48.5		ug/Kg		97	73 - 123
Trichloroethene	50.0	48.7		ug/Kg		97	77 - 129
Trichlorofluoromethane	50.0	47.0		ug/Kg		94	65 - 146
Vinyl chloride	50.0	45.7		ug/Kg		91	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
4-Bromofluorobenzene (Surr)	106		72 - 126
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	101		71 - 125

Lab Sample ID: MB 480-468100/2-A

Matrix: Solid

Analysis Batch: 468102

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
2-Hexanone	ND		25	2.5	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Acetone	ND		25	4.2	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Benzene	ND		5.0	0.25	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Bromoform	ND		5.0	2.5	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Bromomethane	ND		5.0	0.45	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		04/16/19 08:22	04/16/19 11:05	1

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QC Sample Results

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

Job ID: 480-151821-1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Lab Sample ID: MB 480-468100/2-A

Matrix: Solid

Analysis Batch: 468102

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Chloroethane	ND		5.0	1.1	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Chloroform	0.402	J	5.0	0.31	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Chloromethane	ND		5.0	0.30	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Cyclohexane	ND		5.0	0.70	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Methyl acetate	ND		25	3.0	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Styrene	ND		5.0	0.25	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Toluene	ND		5.0	0.38	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Trichloroethene	ND		5.0	1.1	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		04/16/19 08:22	04/16/19 11:05	1
Xylenes, Total	ND		10	0.84	ug/Kg		04/16/19 08:22	04/16/19 11:05	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				04/16/19 08:22	04/16/19 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	04/16/19 08:22	04/16/19 11:05	1
4-Bromofluorobenzene (Surr)	98		72 - 126	04/16/19 08:22	04/16/19 11:05	1
Dibromofluoromethane (Surr)	104		60 - 140	04/16/19 08:22	04/16/19 11:05	1
Toluene-d8 (Surr)	100		71 - 125	04/16/19 08:22	04/16/19 11:05	1

Lab Sample ID: LCS 480-468100/1-A

Matrix: Solid

Analysis Batch: 468102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.4		ug/Kg		105	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.3		ug/Kg		105	60 - 140
1,1,2-Trichloroethane	50.0	50.4		ug/Kg		101	78 - 122
1,1-Dichloroethane	50.0	53.7		ug/Kg		107	73 - 126
1,1-Dichloroethene	50.0	50.9		ug/Kg		102	59 - 125
1,2,4-Trichlorobenzene	50.0	47.5		ug/Kg		95	64 - 120

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QC Sample Results

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

Job ID: 480-151821-1

Method: 8260C - Compuestos Organicos Volatiles (GC/MS) (Continued)

Lab Sample ID: LCS 480-468100/1-A

Matrix: Solid

Analysis Batch: 468102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	40.6		ug/Kg		81	63 - 124
1,2-Dibromoethane	50.0	50.0		ug/Kg		100	78 - 120
1,2-Dichlorobenzene	50.0	48.6		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	51.5		ug/Kg		103	77 - 122
1,2-Dichloropropane	50.0	53.0		ug/Kg		106	75 - 124
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	48.7		ug/Kg		97	73 - 120
2-Butanone (MEK)	250	257		ug/Kg		103	70 - 134
2-Hexanone	250	249		ug/Kg		100	59 - 130
4-Methyl-2-pentanone (MIBK)	250	250		ug/Kg		100	65 - 133
Acetone	250	241		ug/Kg		96	61 - 137
Benzene	50.0	52.7		ug/Kg		105	79 - 127
Bromodichloromethane	50.0	50.0		ug/Kg		100	80 - 122
Bromoform	50.0	52.7		ug/Kg		105	68 - 126
Bromomethane	50.0	58.6		ug/Kg		117	37 - 149
Carbon disulfide	50.0	51.8		ug/Kg		104	64 - 131
Carbon tetrachloride	50.0	53.6		ug/Kg		107	75 - 135
Chlorobenzene	50.0	50.2		ug/Kg		100	76 - 124
Chloroethane	50.0	58.9		ug/Kg		118	69 - 135
Chloroform	50.0	53.0		ug/Kg		106	80 - 120
Chloromethane	50.0	53.1		ug/Kg		106	63 - 127
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	81 - 120
cis-1,3-Dichloropropene	50.0	50.9		ug/Kg		102	80 - 120
Cyclohexane	50.0	50.3		ug/Kg		101	65 - 120
Dibromochloromethane	50.0	49.7		ug/Kg		99	76 - 125
Dichlorodifluoromethane	50.0	48.5		ug/Kg		97	57 - 142
Ethylbenzene	50.0	50.8		ug/Kg		102	80 - 120
Isopropylbenzene	50.0	45.9		ug/Kg		92	72 - 120
Methyl acetate	100	95.6		ug/Kg		96	55 - 136
Methyl tert-butyl ether	50.0	47.4		ug/Kg		95	63 - 125
Methylcyclohexane	50.0	48.8		ug/Kg		98	60 - 140
Methylene Chloride	50.0	46.1		ug/Kg		92	61 - 127
Styrene	50.0	47.3		ug/Kg		95	80 - 120
Tetrachloroethene	50.0	53.9		ug/Kg		108	74 - 122
Toluene	50.0	50.8		ug/Kg		102	74 - 128
trans-1,2-Dichloroethene	50.0	53.8		ug/Kg		108	78 - 126
trans-1,3-Dichloropropene	50.0	50.5		ug/Kg		101	73 - 123
Trichloroethene	50.0	51.5		ug/Kg		103	77 - 129
Trichlorofluoromethane	50.0	60.3		ug/Kg		121	65 - 146
Vinyl chloride	50.0	56.6		ug/Kg		113	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		64 - 126
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		71 - 125

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151821-1

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

Lab Sample ID: MB 480-468426/1-A

Matrix: Solid

Analysis Batch: 468627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2-Chloronaphthalene	ND		170	28	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2-Chlorophenol	ND		170	31	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2-Methylnaphthalene	ND		170	34	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2-Methylphenol	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2-Nitroaniline	ND		330	25	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
2-Nitrophenol	ND		170	47	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
3-Nitroaniline	ND		330	46	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4-Chloroaniline	ND		170	41	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4-Methylphenol	ND		330	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4-Nitroaniline	ND		330	88	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
4-Nitrophenol	ND		330	120	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Acenaphthene	ND		170	25	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Acenaphthylene	ND		170	22	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Acetophenone	ND		170	23	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Anthracene	ND		170	41	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Atrazine	ND		170	58	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Benzaldehyde	ND		170	130	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Benzo[a]anthracene	ND		170	17	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Benzo[a]pyrene	ND		170	25	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Biphenyl	ND		170	25	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Caprolactam	ND		170	50	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Carbazole	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Chrysene	ND		170	38	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Dibenzofuran	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Diethyl phthalate	ND		170	22	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Dimethyl phthalate	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		04/17/19 14:50	04/18/19 16:55	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151821-1

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

Lab Sample ID: MB 480-468426/1-A

Matrix: Solid

Analysis Batch: 468627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Fluoranthene	ND		170	18	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Fluorene	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Hexachlorobenzene	ND		170	23	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Hexachlorobutadiene	ND		170	25	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Hexachloroethane	ND		170	22	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Isophorone	ND		170	36	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Naphthalene	ND		170	22	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Nitrobenzene	ND		170	19	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Pentachlorophenol	ND		330	170	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Phenanthrene	ND		170	25	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Phenol	ND		170	26	ug/Kg		04/17/19 14:50	04/18/19 16:55	1
Pyrene	ND		170	20	ug/Kg		04/17/19 14:50	04/18/19 16:55	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8680	T J	ug/Kg		1.59		04/17/19 14:50	04/18/19 16:55	1
Unknown	1980	T J	ug/Kg		2.68		04/17/19 14:50	04/18/19 16:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		54 - 120	04/17/19 14:50	04/18/19 16:55	1
2-Fluorobiphenyl (Surr)	86		60 - 120	04/17/19 14:50	04/18/19 16:55	1
2-Fluorophenol (Surr)	81		52 - 120	04/17/19 14:50	04/18/19 16:55	1
Nitrobenzene-d5 (Surr)	86		53 - 120	04/17/19 14:50	04/18/19 16:55	1
Phenol-d5 (Surr)	86		54 - 120	04/17/19 14:50	04/18/19 16:55	1
p-Terphenyl-d14 (Surr)	89		65 - 121	04/17/19 14:50	04/18/19 16:55	1

Lab Sample ID: LCS 480-468426/2-A

Matrix: Solid

Analysis Batch: 468627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1640	1640		ug/Kg		100	59 - 126
2,4,6-Trichlorophenol	1640	1700		ug/Kg		104	59 - 123
2,4-Dichlorophenol	1640	1550		ug/Kg		95	61 - 120
2,4-Dimethylphenol	1640	1550		ug/Kg		95	59 - 120
2,4-Dinitrophenol	3270	2420		ug/Kg		74	41 - 146
2,4-Dinitrotoluene	1640	1650		ug/Kg		101	63 - 120
2,6-Dinitrotoluene	1640	1650		ug/Kg		101	66 - 120
2-Chloronaphthalene	1640	1500		ug/Kg		92	57 - 120
2-Chlorophenol	1640	1400		ug/Kg		86	53 - 120
2-Methylnaphthalene	1640	1450		ug/Kg		89	59 - 120
2-Methylphenol	1640	1500		ug/Kg		92	54 - 120
2-Nitroaniline	1640	1640		ug/Kg		100	61 - 120
2-Nitrophenol	1640	1560		ug/Kg		95	56 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-151821-1

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

Lab Sample ID: LCS 480-468426/2-A

Matrix: Solid

Analysis Batch: 468627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	3270	2720		ug/Kg		83	54 - 120
3-Nitroaniline	1640	1360		ug/Kg		83	48 - 120
4,6-Dinitro-2-methylphenol	3270	3450		ug/Kg		105	49 - 122
4-Bromophenyl phenyl ether	1640	1710		ug/Kg		105	58 - 120
4-Chloro-3-methylphenol	1640	1570		ug/Kg		96	61 - 120
4-Chloroaniline	1640	1280		ug/Kg		78	38 - 120
4-Chlorophenyl phenyl ether	1640	1580		ug/Kg		97	63 - 124
4-Methylphenol	1640	1460		ug/Kg		89	55 - 120
4-Nitroaniline	1640	1640		ug/Kg		100	56 - 120
4-Nitrophenol	3270	3100		ug/Kg		95	43 - 147
Acenaphthene	1640	1530		ug/Kg		93	62 - 120
Acenaphthylene	1640	1540		ug/Kg		94	58 - 121
Acetophenone	1640	1410		ug/Kg		86	54 - 120
Anthracene	1640	1460		ug/Kg		89	62 - 120
Atrazine	3270	3260		ug/Kg		100	60 - 127
Benzaldehyde	3270	2540		ug/Kg		78	10 - 150
Benzo[a]anthracene	1640	1570		ug/Kg		96	65 - 120
Benzo[a]pyrene	1640	1400		ug/Kg		86	64 - 120
Benzo[b]fluoranthene	1640	1710		ug/Kg		104	64 - 120
Benzo[g,h,i]perylene	1640	1610		ug/Kg		99	45 - 145
Benzo[k]fluoranthene	1640	1500		ug/Kg		92	65 - 120
Biphenyl	1640	1490		ug/Kg		91	59 - 120
bis (2-chloroisopropyl) ether	1640	1460		ug/Kg		89	44 - 120
Bis(2-chloroethoxy)methane	1640	1490		ug/Kg		91	55 - 120
Bis(2-chloroethyl)ether	1640	1470		ug/Kg		90	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1560		ug/Kg		95	61 - 133
Butyl benzyl phthalate	1640	1710		ug/Kg		105	61 - 129
Caprolactam	3270	2970		ug/Kg		91	47 - 120
Carbazole	1640	1590		ug/Kg		97	65 - 120
Chrysene	1640	1480		ug/Kg		91	64 - 120
Dibenz(a,h)anthracene	1640	1440		ug/Kg		88	54 - 132
Dibenzofuran	1640	1490		ug/Kg		91	63 - 120
Diethyl phthalate	1640	1580		ug/Kg		96	66 - 120
Dimethyl phthalate	1640	1550		ug/Kg		95	65 - 124
Di-n-butyl phthalate	1640	1480		ug/Kg		91	58 - 130
Di-n-octyl phthalate	1640	1470		ug/Kg		90	57 - 133
Fluoranthene	1640	1450		ug/Kg		88	62 - 120
Fluorene	1640	1550		ug/Kg		95	63 - 120
Hexachlorobenzene	1640	1690		ug/Kg		103	60 - 120
Hexachlorobutadiene	1640	1480		ug/Kg		90	45 - 120
Hexachlorocyclopentadiene	1640	1630		ug/Kg		100	47 - 120
Hexachloroethane	1640	1410		ug/Kg		86	41 - 120
Indeno[1,2,3-cd]pyrene	1640	1600		ug/Kg		98	56 - 134
Isophorone	1640	1520		ug/Kg		93	56 - 120
Naphthalene	1640	1340		ug/Kg		82	55 - 120
Nitrobenzene	1640	1480		ug/Kg		90	54 - 120
N-Nitrosodi-n-propylamine	1640	1460		ug/Kg		89	52 - 120
N-Nitrosodiphenylamine	1640	1720		ug/Kg		105	51 - 128
Pentachlorophenol	3270	2540		ug/Kg		78	51 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-151821-1

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

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

Lab Sample ID: LCS 480-468426/2-A

Matrix: Solid

Analysis Batch: 468627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenanthrene	1640	1590		ug/Kg		97	60 - 120
Phenol	1640	1420		ug/Kg		87	53 - 120
Pyrene	1640	1590		ug/Kg		97	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	104		54 - 120
2-Fluorobiphenyl (Surr)	88		60 - 120
2-Fluorophenol (Surr)	87		52 - 120
Nitrobenzene-d5 (Surr)	88		53 - 120
Phenol-d5 (Surr)	86		54 - 120
p-Terphenyl-d14 (Surr)	91		65 - 121

QC Association Summary

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

Job ID: 480-151821-1

GC/MS VOA

Prep Batch: 467887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-1	PWEXSWNA108	Total/NA	Solid	5035A_L	
480-151821-2	PWEXSWNA109	Total/NA	Solid	5035A_L	
480-151821-3	PWEXSWNA112	Total/NA	Solid	5035A_L	
480-151821-4	PWEXSWNA113	Total/NA	Solid	5035A_L	
480-151821-6	PWEXBM04081	Total/NA	Solid	5035A_L	
MB 480-467887/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-467887/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 467889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-1	PWEXSWNA108	Total/NA	Solid	8260C	467887
480-151821-2	PWEXSWNA109	Total/NA	Solid	8260C	467887
480-151821-3	PWEXSWNA112	Total/NA	Solid	8260C	467887
480-151821-4	PWEXSWNA113	Total/NA	Solid	8260C	467887
480-151821-6	PWEXBM04081	Total/NA	Solid	8260C	467887
MB 480-467887/2-A	Method Blank	Total/NA	Solid	8260C	467887
LCS 480-467887/1-A	Lab Control Sample	Total/NA	Solid	8260C	467887

Prep Batch: 468100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-5	PWEXSWNA114	Total/NA	Solid	5035A_L	
MB 480-468100/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-468100/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 468102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-5	PWEXSWNA114	Total/NA	Solid	8260C	468100
MB 480-468100/2-A	Method Blank	Total/NA	Solid	8260C	468100
LCS 480-468100/1-A	Lab Control Sample	Total/NA	Solid	8260C	468100

GC/MS Semi VOA

Prep Batch: 468426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-1	PWEXSWNA108	Total/NA	Solid	3550C	
480-151821-2	PWEXSWNA109	Total/NA	Solid	3550C	
480-151821-2 - DL	PWEXSWNA109	Total/NA	Solid	3550C	
480-151821-3	PWEXSWNA112	Total/NA	Solid	3550C	
480-151821-4	PWEXSWNA113	Total/NA	Solid	3550C	
480-151821-5 - DL	PWEXSWNA114	Total/NA	Solid	3550C	
480-151821-5	PWEXSWNA114	Total/NA	Solid	3550C	
480-151821-6	PWEXBM04081	Total/NA	Solid	3550C	
MB 480-468426/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-468426/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 468627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-1	PWEXSWNA108	Total/NA	Solid	8270D	468426
480-151821-2	PWEXSWNA109	Total/NA	Solid	8270D	468426
480-151821-3	PWEXSWNA112	Total/NA	Solid	8270D	468426
480-151821-4	PWEXSWNA113	Total/NA	Solid	8270D	468426

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QC Association Summary

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

Job ID: 480-151821-1

GC/MS Semi VOA (Continued)

Analysis Batch: 468627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-5	PWEXSWNA114	Total/NA	Solid	8270D	468426
480-151821-6	PWEXBM04081	Total/NA	Solid	8270D	468426
MB 480-468426/1-A	Method Blank	Total/NA	Solid	8270D	468426
LCS 480-468426/2-A	Lab Control Sample	Total/NA	Solid	8270D	468426

Analysis Batch: 468849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-2 - DL	PWEXSWNA109	Total/NA	Solid	8270D	468426
480-151821-5 - DL	PWEXSWNA114	Total/NA	Solid	8270D	468426

General Chemistry

Analysis Batch: 467814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151821-1	PWEXSWNA108	Total/NA	Solid	Moisture	
480-151821-2	PWEXSWNA109	Total/NA	Solid	Moisture	
480-151821-3	PWEXSWNA112	Total/NA	Solid	Moisture	
480-151821-4	PWEXSWNA113	Total/NA	Solid	Moisture	
480-151821-5	PWEXSWNA114	Total/NA	Solid	Moisture	
480-151821-6	PWEXBM04081	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA108

Lab Sample ID: 480-151821-1

Date Collected: 04/11/19 11:16

Matrix: Solid

Date Received: 04/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467814	04/13/19 10:48	CMK	TAL BUF

Client Sample ID: PWEXSWNA108

Lab Sample ID: 480-151821-1

Date Collected: 04/11/19 11:16

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467887	04/15/19 08:21	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467889	04/15/19 15:38	CDC	TAL BUF
Total/NA	Prep	3550C			468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D		1	468627	04/18/19 22:19	DMR	TAL BUF

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Date Collected: 04/11/19 11:15

Matrix: Solid

Date Received: 04/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467814	04/13/19 10:48	CMK	TAL BUF

Client Sample ID: PWEXSWNA109

Lab Sample ID: 480-151821-2

Date Collected: 04/11/19 11:15

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467887	04/15/19 08:21	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467889	04/15/19 16:04	CDC	TAL BUF
Total/NA	Prep	3550C			468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D		1	468627	04/18/19 22:42	DMR	TAL BUF
Total/NA	Prep	3550C	DL		468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D	DL	5	468849	04/19/19 14:45	DMR	TAL BUF

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467814	04/13/19 10:48	CMK	TAL BUF

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467887	04/15/19 08:21	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467889	04/15/19 16:30	CDC	TAL BUF

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Lab Chronicle

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

Job ID: 480-151821-1

Client Sample ID: PWEXSWNA112

Lab Sample ID: 480-151821-3

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D		1	468627	04/18/19 23:05	DMR	TAL BUF

Client Sample ID: PWEXSWNA113

Lab Sample ID: 480-151821-4

Date Collected: 04/11/19 11:26

Matrix: Solid

Date Received: 04/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467814	04/13/19 10:48	CMK	TAL BUF

Client Sample ID: PWEXSWNA113

Lab Sample ID: 480-151821-4

Date Collected: 04/11/19 11:26

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467887	04/15/19 08:21	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467889	04/15/19 16:56	CDC	TAL BUF
Total/NA	Prep	3550C			468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D		1	468627	04/18/19 23:28	DMR	TAL BUF

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Date Collected: 04/11/19 10:47

Matrix: Solid

Date Received: 04/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467814	04/13/19 10:48	CMK	TAL BUF

Client Sample ID: PWEXSWNA114

Lab Sample ID: 480-151821-5

Date Collected: 04/11/19 10:47

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			468100	04/16/19 08:22	CDC	TAL BUF
Total/NA	Analysis	8260C		1	468102	04/16/19 19:28	CDC	TAL BUF
Total/NA	Prep	3550C			468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D		1	468627	04/18/19 23:51	DMR	TAL BUF
Total/NA	Prep	3550C	DL		468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D	DL	5	468849	04/19/19 15:08	DMR	TAL BUF

Client Sample ID: PWEXBM04081

Lab Sample ID: 480-151821-6

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	467814	04/13/19 10:48	CMK	TAL BUF

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Lab Chronicle

Client: AECOM

Job ID: 480-151821-1

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

Client Sample ID: PWEXBM04081

Lab Sample ID: 480-151821-6

Date Collected: 04/11/19 10:50

Matrix: Solid

Date Received: 04/12/19 09:00

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			467887	04/15/19 08:21	CDC	TAL BUF
Total/NA	Analysis	8260C		1	467889	04/15/19 17:22	CDC	TAL BUF
Total/NA	Prep	3550C			468426	04/17/19 14:50	SGD	TAL BUF
Total/NA	Analysis	8270D		1	468627	04/19/19 00:14	DMR	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM

Job ID: 480-151821-1

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

Laboratory: Eurofins TestAmerica, Buffalo

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	10026	03-31-20

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

Method Summary

Client: AECOM

Job ID: 480-151821-1

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

Method	Method Description	Protocol	Laboratory
8260C	Compuestos Organicos Volatiles (GC/MS)	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM

Job ID: 480-151821-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-151821-1	PWEXSWNA108	Solid	04/11/19 11:16	04/12/19 09:00
480-151821-2	PWEXSWNA109	Solid	04/11/19 11:15	04/12/19 09:00
480-151821-3	PWEXSWNA112	Solid	04/11/19 10:50	04/12/19 09:00
480-151821-4	PWEXSWNA113	Solid	04/11/19 11:26	04/12/19 09:00
480-151821-5	PWEXSWNA114	Solid	04/11/19 10:47	04/12/19 09:00
480-151821-6	PWEXBM04081	Solid	04/11/19 10:50	04/12/19 09:00

TestAmerica: Buffalo
10 Hazelwood Dr.
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



Client Information		Sampler:		Lab PM:	Carrier Tracking No(s):		COC No:		
George Hermance		George Hermance		Deyo, Melissa L			480-128476-28976.1		
Company: AECOM		Phone: (716) 861-7882		E-Mail: melissa.deyo@testamericainc.com	Page: Page 1 of 1		Job #:		
Address: 257 West Genesee Street, Suite 400		Due Date Requested: 4/15/2019		Analysis Requested					
City: Buffalo		TAT Requested (days): 72 Hour		Preservation Codes:					
State, Zip: NY, 14202-2657		PO #: 107852		M - Hexane N - None O - AsNaO2 P - Na2SO4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Z - other (specify)					
Phone: 518-428-4383(Tel)		WO #: Matthew.Thorpe@aecom.com		J - DI Water K - EDTA L - EDA Other:					
Email: George.Hermance@aecom.com		Project #: 48015558		Total Number of Containers					
Project Name: 60584654, Penn Yan Former MGP Phase 2		SSOW#:		Special Instructions/Note:					
Site:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other, IT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - TCL SVOCs + 20 TICs	8260C - TCL VOCs + TICs	Special Instructions/Note
PWEXSWNA108	4/11/19	1116	G	Solid			X	X	
PWEXSWNA109	4/11/19	1115	G	Solid			X	X	
PWEXSWNA112	4/11/19	1050	G	Solid			X	X	
PWEXSWNA113	4/11/19	1126	G	Solid			X	X	
PWEXSWNA114	4/11/19	1047	G	Solid			X	X	
PWEXBM04081	4/11/19	1050	G	Solid			X	X	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☒ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Relinquished by: Curt's Taylor									
Relinquished by:									
Relinquished by:									
Custody Seals Intact: ☐ Yes ☐ No									
Custody Seal No.: 609716									
Cooler Temperature(s) °C and Other Remarks: 4-12-cg 9-10-15									
Date: 4/11/19 / 1500									
Received by: AECOM									
Received by:									
Received by:									
Received by:									
Method of Shipment:									
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/OC Requirements:									

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-151821-1

Login Number: 151821

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	AECOM
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, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-152105-1

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:

5/1/2019 6:05:37 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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: 480-152105-1

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

Qualifiers

GC/MS VOA

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

GC/MS Semi 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 TICs

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

Metals

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

General Chemistry

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.

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: 480-152105-1

Job ID: 480-152105-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-152105-1

Receipt

The sample was received on 4/18/2019 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-470040 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: PWFTWWNA084 (480-152105-1).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-470040 recovered above the upper control limit for Chlorodibromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: PWFTWWNA084 (480-152105-1).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-470040 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: PWFTWWNA084 (480-152105-1).

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 480-469081 was outside the method criteria for the following surrogate: 2-Fluorophenol. 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) for preparation batch 480-468898 and analytical batch 480-469081 recovered outside control limits for the following analytes: Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-469081 recovered outside acceptance criteria, low biased, for Carbazole. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

Metals

Method(s) 200.7 Rev 4.4: The laboratory control sample (LCS) for preparation batch 480-468807 and analytical batch 480-469214 recovered outside control limits for the following analytes: Total Zinc. These analytes were biased high in the LCS and were not detected in the associated samples PWFTWWNA084 (480-152105-1); 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.

General Chemistry

Method(s) SM 5210B: The glucose-glutamic acid standard recovered low outside the recovery limits specified in the method in batch 480-468872.

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.

Detection Summary

Client: AECOM

Job ID: 480-152105-1

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

Client Sample ID: PWFTWWNA084

Lab Sample ID: 480-152105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.43	J B	5.0	0.31	ug/L	1		8270D	Total/NA
Nickel	0.0042	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Cyanide, Total	0.0065	J	0.010	0.0050	mg/L	1		335.4	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-152105-1

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

Client Sample ID: PWFTWWNA084

Lab Sample ID: 480-152105-1

Date Collected: 04/17/19 13:53

Matrix: Water

Date Received: 04/18/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/19 22:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/26/19 22:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/26/19 22:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/26/19 22:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/26/19 22:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/26/19 22:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/26/19 22:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/26/19 22:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/26/19 22:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/26/19 22:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/26/19 22:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/26/19 22:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/26/19 22:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/26/19 22:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/26/19 22:30	1
2-Hexanone	ND		5.0	1.2	ug/L			04/26/19 22:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/26/19 22:30	1
Acetone	ND		10	3.0	ug/L			04/26/19 22:30	1
Benzene	ND		1.0	0.41	ug/L			04/26/19 22:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/26/19 22:30	1
Bromoform	ND		1.0	0.26	ug/L			04/26/19 22:30	1
Bromomethane	ND		1.0	0.69	ug/L			04/26/19 22:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/26/19 22:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/26/19 22:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/26/19 22:30	1
Chloroethane	ND		1.0	0.32	ug/L			04/26/19 22:30	1
Chloroform	ND		1.0	0.34	ug/L			04/26/19 22:30	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/19 22:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/26/19 22:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/26/19 22:30	1
Cyclohexane	ND		1.0	0.18	ug/L			04/26/19 22:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/26/19 22:30	1
Dichlorodifluoromethane	ND *		1.0	0.68	ug/L			04/26/19 22:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/19 22:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/26/19 22:30	1
Methyl acetate	ND		2.5	1.3	ug/L			04/26/19 22:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/19 22:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/26/19 22:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/26/19 22:30	1
Styrene	ND		1.0	0.73	ug/L			04/26/19 22:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/26/19 22:30	1
Toluene	ND		1.0	0.51	ug/L			04/26/19 22:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/26/19 22:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/26/19 22:30	1
Trichloroethene	ND		1.0	0.46	ug/L			04/26/19 22:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/26/19 22:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/26/19 22:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/19 22:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-152105-1

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

Client Sample ID: PWFTWWNA084

Lab Sample ID: 480-152105-1

Date Collected: 04/17/19 13:53

Matrix: Water

Date Received: 04/18/19 09:30

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					04/26/19 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					04/26/19 22:30	1
4-Bromofluorobenzene (Surr)	105		73 - 120					04/26/19 22:30	1
Dibromofluoromethane (Surr)	96		75 - 123					04/26/19 22:30	1
Toluene-d8 (Surr)	101		80 - 120					04/26/19 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		04/19/19 15:26	04/22/19 20:30	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		04/19/19 15:26	04/22/19 20:30	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		04/19/19 15:26	04/22/19 20:30	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		04/19/19 15:26	04/22/19 20:30	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		04/19/19 15:26	04/22/19 20:30	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		04/19/19 15:26	04/22/19 20:30	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 20:30	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		04/19/19 15:26	04/22/19 20:30	1
2-Chlorophenol	ND		5.0	0.53	ug/L		04/19/19 15:26	04/22/19 20:30	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		04/19/19 15:26	04/22/19 20:30	1
2-Methylphenol	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 20:30	1
2-Nitroaniline	ND		10	0.42	ug/L		04/19/19 15:26	04/22/19 20:30	1
2-Nitrophenol	ND		5.0	0.48	ug/L		04/19/19 15:26	04/22/19 20:30	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 20:30	1
3-Nitroaniline	ND		10	0.48	ug/L		04/19/19 15:26	04/22/19 20:30	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		04/19/19 15:26	04/22/19 20:30	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		04/19/19 15:26	04/22/19 20:30	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		04/19/19 15:26	04/22/19 20:30	1
4-Chloroaniline	ND		5.0	0.59	ug/L		04/19/19 15:26	04/22/19 20:30	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		04/19/19 15:26	04/22/19 20:30	1
4-Methylphenol	ND		10	0.36	ug/L		04/19/19 15:26	04/22/19 20:30	1
4-Nitroaniline	ND		10	0.25	ug/L		04/19/19 15:26	04/22/19 20:30	1
4-Nitrophenol	ND		10	1.5	ug/L		04/19/19 15:26	04/22/19 20:30	1
Acenaphthene	ND		5.0	0.41	ug/L		04/19/19 15:26	04/22/19 20:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/19/19 15:26	04/22/19 20:30	1
Acetophenone	ND		5.0	0.54	ug/L		04/19/19 15:26	04/22/19 20:30	1
Anthracene	ND		5.0	0.28	ug/L		04/19/19 15:26	04/22/19 20:30	1
Atrazine	ND		5.0	0.46	ug/L		04/19/19 15:26	04/22/19 20:30	1
Benzaldehyde	ND		5.0	0.27	ug/L		04/19/19 15:26	04/22/19 20:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/19/19 15:26	04/22/19 20:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		04/19/19 15:26	04/22/19 20:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/19/19 15:26	04/22/19 20:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/19/19 15:26	04/22/19 20:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/19/19 15:26	04/22/19 20:30	1
Biphenyl	ND		5.0	0.65	ug/L		04/19/19 15:26	04/22/19 20:30	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		04/19/19 15:26	04/22/19 20:30	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		04/19/19 15:26	04/22/19 20:30	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 20:30	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		04/19/19 15:26	04/22/19 20:30	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		04/19/19 15:26	04/22/19 20:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-152105-1

Client Sample ID: PWFTWWNA084

Lab Sample ID: 480-152105-1

Date Collected: 04/17/19 13:53

Matrix: Water

Date Received: 04/18/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		5.0	2.2	ug/L		04/19/19 15:26	04/22/19 20:30	1
Carbazole	ND	*	5.0	0.30	ug/L		04/19/19 15:26	04/22/19 20:30	1
Chrysene	ND		5.0	0.33	ug/L		04/19/19 15:26	04/22/19 20:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/19/19 15:26	04/22/19 20:30	1
Dibenzofuran	ND		10	0.51	ug/L		04/19/19 15:26	04/22/19 20:30	1
Diethyl phthalate	ND		5.0	0.22	ug/L		04/19/19 15:26	04/22/19 20:30	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		04/19/19 15:26	04/22/19 20:30	1
Di-n-butyl phthalate	0.43	J B	5.0	0.31	ug/L		04/19/19 15:26	04/22/19 20:30	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		04/19/19 15:26	04/22/19 20:30	1
Fluoranthene	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 20:30	1
Fluorene	ND		5.0	0.36	ug/L		04/19/19 15:26	04/22/19 20:30	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		04/19/19 15:26	04/22/19 20:30	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		04/19/19 15:26	04/22/19 20:30	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		04/19/19 15:26	04/22/19 20:30	1
Hexachloroethane	ND		5.0	0.59	ug/L		04/19/19 15:26	04/22/19 20:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/19/19 15:26	04/22/19 20:30	1
Isophorone	ND		5.0	0.43	ug/L		04/19/19 15:26	04/22/19 20:30	1
Naphthalene	ND		5.0	0.76	ug/L		04/19/19 15:26	04/22/19 20:30	1
Nitrobenzene	ND		5.0	0.29	ug/L		04/19/19 15:26	04/22/19 20:30	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		04/19/19 15:26	04/22/19 20:30	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		04/19/19 15:26	04/22/19 20:30	1
Pentachlorophenol	ND		10	2.2	ug/L		04/19/19 15:26	04/22/19 20:30	1
Phenanthrene	ND		5.0	0.44	ug/L		04/19/19 15:26	04/22/19 20:30	1
Phenol	ND		5.0	0.39	ug/L		04/19/19 15:26	04/22/19 20:30	1
Pyrene	ND		5.0	0.34	ug/L		04/19/19 15:26	04/22/19 20:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3.0	T J	ug/L		2.61		04/19/19 15:26	04/22/19 20:30	1
Unknown	2.4	T J	ug/L		2.83		04/19/19 15:26	04/22/19 20:30	1
Unknown	2.6	T J	ug/L		2.92		04/19/19 15:26	04/22/19 20:30	1
Unknown	110	T J	ug/L		3.02		04/19/19 15:26	04/22/19 20:30	1
Unknown	1.7	T J	ug/L		3.09		04/19/19 15:26	04/22/19 20:30	1
Unknown	39	T J	ug/L		4.95		04/19/19 15:26	04/22/19 20:30	1
Column Bleed	5.0	T J	ug/L		6.03		04/19/19 15:26	04/22/19 20:30	1
Column Bleed	2.4	T J	ug/L		6.98		04/19/19 15:26	04/22/19 20:30	1
Column Bleed	2.9	T J	ug/L		7.87		04/19/19 15:26	04/22/19 20:30	1
Unknown	2.6	T J	ug/L		8.64		04/19/19 15:26	04/22/19 20:30	1
Unknown	1.9	T J	ug/L		9.32		04/19/19 15:26	04/22/19 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		41 - 120	04/19/19 15:26	04/22/19 20:30	1
2-Fluorobiphenyl (Surr)	99		48 - 120	04/19/19 15:26	04/22/19 20:30	1
2-Fluorophenol (Surr)	63		35 - 120	04/19/19 15:26	04/22/19 20:30	1
Nitrobenzene-d5 (Surr)	97		46 - 120	04/19/19 15:26	04/22/19 20:30	1
Phenol-d5 (Surr)	47		22 - 120	04/19/19 15:26	04/22/19 20:30	1
p-Terphenyl-d14 (Surr)	85		59 - 136	04/19/19 15:26	04/22/19 20:30	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/22/19 08:01	04/22/19 21:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM

Job ID: 480-152105-1

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

Client Sample ID: PWFTWWNA084

Lab Sample ID: 480-152105-1

Date Collected: 04/17/19 13:53

Matrix: Water

Date Received: 04/18/19 09:30

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		04/22/19 08:01	04/22/19 21:49	1
Copper	ND	F1 F2	0.010	0.0016	mg/L		04/22/19 08:01	04/22/19 21:49	1
Lead	ND	F1 F2	0.010	0.0030	mg/L		04/22/19 08:01	04/22/19 21:49	1
Molybdenum	ND		0.010	0.0036	mg/L		04/22/19 08:01	04/22/19 21:49	1
Nickel	0.0042	J	0.010	0.0013	mg/L		04/22/19 08:01	04/22/19 21:49	1
Selenium	ND		0.025	0.0087	mg/L		04/22/19 08:01	04/22/19 21:49	1
Zinc	ND	* F1 F2	0.010	0.0015	mg/L		04/22/19 08:01	04/22/19 21:49	1
Chromium	ND		0.0040	0.0010	mg/L		04/22/19 08:01	04/22/19 21:49	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/22/19 12:15	04/22/19 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0065	J	0.010	0.0050	mg/L		04/30/19 10:55	05/01/19 10:02	1
Biochemical Oxygen Demand	ND	*	2.0	2.0	mg/L			04/19/19 11:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			04/23/19 11:48	1

Surrogate Summary

Client: AECOM

Job ID: 480-152105-1

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-152105-1	PWFTWWNA084	106	105	96	101
LCS 480-470040/5	Lab Control Sample	108	97	100	100
MB 480-470040/7	Method Blank	106	98	97	102

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	PHL (22-120)	TPHd14 (59-136)
480-152105-1	PWFTWWNA084	89	99	63	97	47	85
LCS 480-468898/2-A	Lab Control Sample	102	103	67	97	55	101
MB 480-468898/1-A	Method Blank	88	99	64	96	50	105

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

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

Lab Sample ID: MB 480-470040/7

Matrix: Water

Analysis Batch: 470040

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/19 21:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/26/19 21:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/26/19 21:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/26/19 21:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/26/19 21:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/26/19 21:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/26/19 21:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/26/19 21:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/26/19 21:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/26/19 21:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/26/19 21:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/26/19 21:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/26/19 21:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/26/19 21:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/26/19 21:54	1
2-Hexanone	ND		5.0	1.2	ug/L			04/26/19 21:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/26/19 21:54	1
Acetone	ND		10	3.0	ug/L			04/26/19 21:54	1
Benzene	ND		1.0	0.41	ug/L			04/26/19 21:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/26/19 21:54	1
Bromoform	ND		1.0	0.26	ug/L			04/26/19 21:54	1
Bromomethane	ND		1.0	0.69	ug/L			04/26/19 21:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/26/19 21:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/26/19 21:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/26/19 21:54	1
Chloroethane	ND		1.0	0.32	ug/L			04/26/19 21:54	1
Chloroform	ND		1.0	0.34	ug/L			04/26/19 21:54	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/19 21:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/26/19 21:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/26/19 21:54	1
Cyclohexane	ND		1.0	0.18	ug/L			04/26/19 21:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/26/19 21:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/26/19 21:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/19 21:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/26/19 21:54	1
Methyl acetate	ND		2.5	1.3	ug/L			04/26/19 21:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/19 21:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/26/19 21:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/26/19 21:54	1
Styrene	ND		1.0	0.73	ug/L			04/26/19 21:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/26/19 21:54	1
Toluene	ND		1.0	0.51	ug/L			04/26/19 21:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/26/19 21:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/26/19 21:54	1
Trichloroethene	ND		1.0	0.46	ug/L			04/26/19 21:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/26/19 21:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/26/19 21:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/19 21:54	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

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

Lab Sample ID: MB 480-470040/7

Matrix: Water

Analysis Batch: 470040

Client Sample ID: Method Blank

Prep Type: Total/NA

<i>Tentatively Identified Compound</i>	<i>MB</i> <i>Est. Result</i>	<i>MB</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>		ug/L					04/26/19 21:54	1
<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					04/26/19 21:54	1
4-Bromofluorobenzene (Surr)	98		73 - 120					04/26/19 21:54	1
Dibromofluoromethane (Surr)	97		75 - 123					04/26/19 21:54	1
Toluene-d8 (Surr)	102		80 - 120					04/26/19 21:54	1

Lab Sample ID: LCS 480-470040/5

Matrix: Water

Analysis Batch: 470040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>
1,1,1-Trichloroethane	25.0	27.4		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.4		ug/L		102	61 - 148
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	76 - 122
1,1-Dichloroethane	25.0	26.0		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	21.5		ug/L		86	66 - 127
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	56 - 134
1,2-Dibromoethane	25.0	24.3		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	27.3		ug/L		109	76 - 120
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		95	80 - 120
2-Butanone (MEK)	125	122		ug/L		97	57 - 140
2-Hexanone	125	141		ug/L		113	65 - 127
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		110	71 - 125
Acetone	125	132		ug/L		105	56 - 142
Benzene	25.0	24.7		ug/L		99	71 - 124
Bromodichloromethane	25.0	26.0		ug/L		104	80 - 122
Bromoform	25.0	31.2		ug/L		125	61 - 132
Bromomethane	25.0	21.2		ug/L		85	55 - 144
Carbon disulfide	25.0	24.6		ug/L		99	59 - 134
Carbon tetrachloride	25.0	29.8		ug/L		119	72 - 134
Chlorobenzene	25.0	23.8		ug/L		95	80 - 120
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	25.3		ug/L		101	73 - 127
Chloromethane	25.0	20.0		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	74 - 124
Cyclohexane	25.0	28.7		ug/L		115	59 - 135
Dibromochloromethane	25.0	30.9		ug/L		124	75 - 125
Dichlorodifluoromethane	25.0	14.1 *		ug/L		56	59 - 135
Ethylbenzene	25.0	26.2		ug/L		105	77 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

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

Lab Sample ID: LCS 480-470040/5

Matrix: Water

Analysis Batch: 470040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	25.6		ug/L		102	77 - 122
Methyl acetate	50.0	47.1		ug/L		94	74 - 133
Methyl tert-butyl ether	25.0	23.2		ug/L		93	77 - 120
Methylcyclohexane	25.0	27.8		ug/L		111	68 - 134
Methylene Chloride	25.0	22.0		ug/L		88	75 - 124
Styrene	25.0	25.4		ug/L		101	80 - 120
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
Toluene	25.0	24.1		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	26.6		ug/L		106	80 - 120
Trichloroethene	25.0	24.4		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	21.3		ug/L		85	62 - 150
Vinyl chloride	25.0	21.3		ug/L		85	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	100		80 - 120

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

Lab Sample ID: MB 480-468898/1-A

Matrix: Water

Analysis Batch: 469081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		04/19/19 15:26	04/22/19 17:05	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		04/19/19 15:26	04/22/19 17:05	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		04/19/19 15:26	04/22/19 17:05	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		04/19/19 15:26	04/22/19 17:05	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		04/19/19 15:26	04/22/19 17:05	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		04/19/19 15:26	04/22/19 17:05	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 17:05	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		04/19/19 15:26	04/22/19 17:05	1
2-Chlorophenol	ND		5.0	0.53	ug/L		04/19/19 15:26	04/22/19 17:05	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		04/19/19 15:26	04/22/19 17:05	1
2-Methylphenol	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 17:05	1
2-Nitroaniline	ND		10	0.42	ug/L		04/19/19 15:26	04/22/19 17:05	1
2-Nitrophenol	ND		5.0	0.48	ug/L		04/19/19 15:26	04/22/19 17:05	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 17:05	1
3-Nitroaniline	ND		10	0.48	ug/L		04/19/19 15:26	04/22/19 17:05	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		04/19/19 15:26	04/22/19 17:05	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		04/19/19 15:26	04/22/19 17:05	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		04/19/19 15:26	04/22/19 17:05	1
4-Chloroaniline	ND		5.0	0.59	ug/L		04/19/19 15:26	04/22/19 17:05	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		04/19/19 15:26	04/22/19 17:05	1
4-Methylphenol	ND		10	0.36	ug/L		04/19/19 15:26	04/22/19 17:05	1
4-Nitroaniline	ND		10	0.25	ug/L		04/19/19 15:26	04/22/19 17:05	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

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

Lab Sample ID: MB 480-468898/1-A

Matrix: Water

Analysis Batch: 469081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		10	1.5	ug/L		04/19/19 15:26	04/22/19 17:05	1
Acenaphthene	ND		5.0	0.41	ug/L		04/19/19 15:26	04/22/19 17:05	1
Acenaphthylene	ND		5.0	0.38	ug/L		04/19/19 15:26	04/22/19 17:05	1
Acetophenone	ND		5.0	0.54	ug/L		04/19/19 15:26	04/22/19 17:05	1
Anthracene	ND		5.0	0.28	ug/L		04/19/19 15:26	04/22/19 17:05	1
Atrazine	ND		5.0	0.46	ug/L		04/19/19 15:26	04/22/19 17:05	1
Benzaldehyde	ND		5.0	0.27	ug/L		04/19/19 15:26	04/22/19 17:05	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		04/19/19 15:26	04/22/19 17:05	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		04/19/19 15:26	04/22/19 17:05	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		04/19/19 15:26	04/22/19 17:05	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		04/19/19 15:26	04/22/19 17:05	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		04/19/19 15:26	04/22/19 17:05	1
Biphenyl	ND		5.0	0.65	ug/L		04/19/19 15:26	04/22/19 17:05	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		04/19/19 15:26	04/22/19 17:05	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		04/19/19 15:26	04/22/19 17:05	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 17:05	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		04/19/19 15:26	04/22/19 17:05	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		04/19/19 15:26	04/22/19 17:05	1
Caprolactam	ND		5.0	2.2	ug/L		04/19/19 15:26	04/22/19 17:05	1
Carbazole	ND		5.0	0.30	ug/L		04/19/19 15:26	04/22/19 17:05	1
Chrysene	ND		5.0	0.33	ug/L		04/19/19 15:26	04/22/19 17:05	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		04/19/19 15:26	04/22/19 17:05	1
Dibenzofuran	ND		10	0.51	ug/L		04/19/19 15:26	04/22/19 17:05	1
Diethyl phthalate	ND		5.0	0.22	ug/L		04/19/19 15:26	04/22/19 17:05	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		04/19/19 15:26	04/22/19 17:05	1
Di-n-butyl phthalate	0.400	J	5.0	0.31	ug/L		04/19/19 15:26	04/22/19 17:05	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		04/19/19 15:26	04/22/19 17:05	1
Fluoranthene	ND		5.0	0.40	ug/L		04/19/19 15:26	04/22/19 17:05	1
Fluorene	ND		5.0	0.36	ug/L		04/19/19 15:26	04/22/19 17:05	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		04/19/19 15:26	04/22/19 17:05	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		04/19/19 15:26	04/22/19 17:05	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		04/19/19 15:26	04/22/19 17:05	1
Hexachloroethane	ND		5.0	0.59	ug/L		04/19/19 15:26	04/22/19 17:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		04/19/19 15:26	04/22/19 17:05	1
Isophorone	ND		5.0	0.43	ug/L		04/19/19 15:26	04/22/19 17:05	1
Naphthalene	ND		5.0	0.76	ug/L		04/19/19 15:26	04/22/19 17:05	1
Nitrobenzene	ND		5.0	0.29	ug/L		04/19/19 15:26	04/22/19 17:05	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		04/19/19 15:26	04/22/19 17:05	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		04/19/19 15:26	04/22/19 17:05	1
Pentachlorophenol	ND		10	2.2	ug/L		04/19/19 15:26	04/22/19 17:05	1
Phenanthrene	ND		5.0	0.44	ug/L		04/19/19 15:26	04/22/19 17:05	1
Phenol	ND		5.0	0.39	ug/L		04/19/19 15:26	04/22/19 17:05	1
Pyrene	ND		5.0	0.34	ug/L		04/19/19 15:26	04/22/19 17:05	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.95	T J	ug/L		2.61		04/19/19 15:26	04/22/19 17:05	1
Unknown	1.64	T J	ug/L		2.72		04/19/19 15:26	04/22/19 17:05	1
Unknown	2.88	T J	ug/L		2.93		04/19/19 15:26	04/22/19 17:05	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

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

Lab Sample ID: MB 480-468898/1-A

Matrix: Water

Analysis Batch: 469081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468898

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	108	T J	ug/L		3.02		04/19/19 15:26	04/22/19 17:05	1
Unknown	53.6	T J	ug/L		4.95		04/19/19 15:26	04/22/19 17:05	1
Unknown	3.45	T J	ug/L		6.03		04/19/19 15:26	04/22/19 17:05	1
Column Bleed	1.76	T J	ug/L		6.98		04/19/19 15:26	04/22/19 17:05	1
Column Bleed	2.83	T J	ug/L		7.87		04/19/19 15:26	04/22/19 17:05	1
Unknown	2.54	T J	ug/L		8.64		04/19/19 15:26	04/22/19 17:05	1
Unknown	1.83	T J	ug/L		9.32		04/19/19 15:26	04/22/19 17:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		41 - 120	04/19/19 15:26	04/22/19 17:05	1
2-Fluorobiphenyl (Surr)	99		48 - 120	04/19/19 15:26	04/22/19 17:05	1
2-Fluorophenol (Surr)	64		35 - 120	04/19/19 15:26	04/22/19 17:05	1
Nitrobenzene-d5 (Surr)	96		46 - 120	04/19/19 15:26	04/22/19 17:05	1
Phenol-d5 (Surr)	50		22 - 120	04/19/19 15:26	04/22/19 17:05	1
p-Terphenyl-d14 (Surr)	105		59 - 136	04/19/19 15:26	04/22/19 17:05	1

Lab Sample ID: LCS 480-468898/2-A

Matrix: Water

Analysis Batch: 469081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	35.2		ug/L		110	65 - 126
2,4,6-Trichlorophenol	32.0	36.6		ug/L		114	64 - 120
2,4-Dichlorophenol	32.0	31.9		ug/L		100	63 - 120
2,4-Dimethylphenol	32.0	30.9		ug/L		97	47 - 120
2,4-Dinitrophenol	64.0	67.4		ug/L		105	31 - 137
2,4-Dinitrotoluene	32.0	34.5		ug/L		108	69 - 120
2,6-Dinitrotoluene	32.0	34.9		ug/L		109	68 - 120
2-Chloronaphthalene	32.0	30.7		ug/L		96	58 - 120
2-Chlorophenol	32.0	29.2		ug/L		91	48 - 120
2-Methylnaphthalene	32.0	30.4		ug/L		95	59 - 120
2-Methylphenol	32.0	28.2		ug/L		88	39 - 120
2-Nitroaniline	32.0	31.9		ug/L		100	54 - 127
2-Nitrophenol	32.0	31.4		ug/L		98	52 - 125
3,3'-Dichlorobenzidine	64.0	77.5		ug/L		121	49 - 135
3-Nitroaniline	32.0	34.2		ug/L		107	51 - 120
4,6-Dinitro-2-methylphenol	64.0	77.1		ug/L		120	46 - 136
4-Bromophenyl phenyl ether	32.0	33.0		ug/L		103	65 - 120
4-Chloro-3-methylphenol	32.0	31.4		ug/L		98	61 - 123
4-Chloroaniline	32.0	26.9		ug/L		84	30 - 120
4-Chlorophenyl phenyl ether	32.0	34.1		ug/L		106	62 - 120
4-Methylphenol	32.0	28.0		ug/L		87	29 - 131
4-Nitroaniline	32.0	36.0		ug/L		113	65 - 120
4-Nitrophenol	64.0	52.8		ug/L		83	45 - 120
Acenaphthene	32.0	32.3		ug/L		101	60 - 120
Acenaphthylene	32.0	32.2		ug/L		101	63 - 120
Acetophenone	32.0	31.5		ug/L		98	45 - 120
Anthracene	32.0	34.2		ug/L		107	67 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

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

Lab Sample ID: LCS 480-468898/2-A

Matrix: Water

Analysis Batch: 469081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	64.0	80.2		ug/L		125	71 - 130
Benzaldehyde	64.0	57.7		ug/L		90	10 - 140
Benzo[a]anthracene	32.0	33.0		ug/L		103	70 - 121
Benzo[a]pyrene	32.0	33.5		ug/L		105	60 - 123
Benzo[b]fluoranthene	32.0	36.2		ug/L		113	66 - 126
Benzo[g,h,i]perylene	32.0	34.4		ug/L		107	66 - 150
Benzo[k]fluoranthene	32.0	31.7		ug/L		99	65 - 124
Biphenyl	32.0	30.2		ug/L		94	59 - 120
bis (2-chloroisopropyl) ether	32.0	28.4		ug/L		89	21 - 136
Bis(2-chloroethoxy)methane	32.0	31.5		ug/L		98	50 - 128
Bis(2-chloroethyl)ether	32.0	28.2		ug/L		88	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	34.8		ug/L		109	63 - 139
Butyl benzyl phthalate	32.0	34.1		ug/L		107	70 - 129
Caprolactam	64.0	25.1		ug/L		39	22 - 120
Carbazole	32.0	48.2 *		ug/L		151	66 - 123
Chrysene	32.0	34.5		ug/L		108	69 - 120
Dibenz(a,h)anthracene	32.0	37.4		ug/L		117	65 - 135
Dibenzofuran	32.0	33.1		ug/L		103	66 - 120
Diethyl phthalate	32.0	35.4		ug/L		110	59 - 127
Dimethyl phthalate	32.0	35.2		ug/L		110	68 - 120
Di-n-butyl phthalate	32.0	33.3		ug/L		104	69 - 131
Di-n-octyl phthalate	32.0	35.3		ug/L		110	63 - 140
Fluoranthene	32.0	34.8		ug/L		109	69 - 126
Fluorene	32.0	34.7		ug/L		108	66 - 120
Hexachlorobenzene	32.0	34.4		ug/L		107	61 - 120
Hexachlorobutadiene	32.0	25.5		ug/L		80	35 - 120
Hexachlorocyclopentadiene	32.0	21.9		ug/L		69	31 - 120
Hexachloroethane	32.0	24.9		ug/L		78	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	37.2		ug/L		116	69 - 146
Isophorone	32.0	32.3		ug/L		101	55 - 120
Naphthalene	32.0	29.8		ug/L		93	57 - 120
Nitrobenzene	32.0	31.3		ug/L		98	53 - 123
N-Nitrosodi-n-propylamine	32.0	30.6		ug/L		96	32 - 140
N-Nitrosodiphenylamine	32.0	31.6		ug/L		99	61 - 120
Pentachlorophenol	64.0	68.2		ug/L		107	29 - 136
Phenanthrene	32.0	33.2		ug/L		104	68 - 120
Phenol	32.0	19.9		ug/L		62	17 - 120
Pyrene	32.0	34.8		ug/L		109	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	102		41 - 120
2-Fluorobiphenyl (Surr)	103		48 - 120
2-Fluorophenol (Surr)	67		35 - 120
Nitrobenzene-d5 (Surr)	97		46 - 120
Phenol-d5 (Surr)	55		22 - 120
p-Terphenyl-d14 (Surr)	101		59 - 136

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-468807/1-A

Matrix: Water

Analysis Batch: 469214

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/22/19 08:01	04/22/19 21:41	1
Cadmium	ND		0.0020	0.00050	mg/L		04/22/19 08:01	04/22/19 21:41	1
Copper	ND		0.010	0.0016	mg/L		04/22/19 08:01	04/22/19 21:41	1
Lead	ND		0.010	0.0030	mg/L		04/22/19 08:01	04/22/19 21:41	1
Molybdenum	ND		0.010	0.0036	mg/L		04/22/19 08:01	04/22/19 21:41	1
Nickel	ND		0.010	0.0013	mg/L		04/22/19 08:01	04/22/19 21:41	1
Selenium	ND		0.025	0.0087	mg/L		04/22/19 08:01	04/22/19 21:41	1
Zinc	ND		0.010	0.0015	mg/L		04/22/19 08:01	04/22/19 21:41	1
Chromium	ND		0.0040	0.0010	mg/L		04/22/19 08:01	04/22/19 21:41	1

Lab Sample ID: LCS 480-468807/2-A

Matrix: Water

Analysis Batch: 469214

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.203		mg/L		102	85 - 115
Cadmium	0.200	0.209		mg/L		104	85 - 115
Copper	0.200	0.225		mg/L		113	85 - 115
Lead	0.200	0.223		mg/L		111	85 - 115
Molybdenum	0.200	0.199		mg/L		99	85 - 115
Nickel	0.200	0.193		mg/L		97	85 - 115
Selenium	0.200	0.208		mg/L		104	85 - 115
Zinc	0.200	0.505 *		mg/L		252	85 - 115
Chromium	0.200	0.199		mg/L		100	85 - 115

Lab Sample ID: 480-152105-1 MS

Matrix: Water

Analysis Batch: 469214

Client Sample ID: PWFTWWNA084

Prep Type: Total/NA

Prep Batch: 468807

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.200	0.213		mg/L		107	70 - 130
Cadmium	ND		0.200	0.219		mg/L		109	70 - 130
Copper	ND	F1 F2	0.200	0.948	F1	mg/L		474	70 - 130
Lead	ND	F1 F2	0.200	0.699	F1	mg/L		350	70 - 130
Molybdenum	ND		0.200	0.206		mg/L		103	70 - 130
Nickel	0.0042	J	0.200	0.219		mg/L		107	70 - 130
Selenium	ND		0.200	0.220		mg/L		110	70 - 130
Zinc	ND	* F1 F2	0.200	6.20	F1	mg/L		3100	70 - 130
Chromium	ND		0.200	0.201		mg/L		101	70 - 130

Lab Sample ID: 480-152105-1 MSD

Matrix: Water

Analysis Batch: 469214

Client Sample ID: PWFTWWNA084

Prep Type: Total/NA

Prep Batch: 468807

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.200	0.208		mg/L		104	70 - 130	2	20
Cadmium	ND		0.200	0.211		mg/L		106	70 - 130	3	20
Copper	ND	F1 F2	0.200	0.218	F2	mg/L		109	70 - 130	125	20
Lead	ND	F1 F2	0.200	0.221	F2	mg/L		110	70 - 130	104	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-152105-1 MSD

Matrix: Water

Analysis Batch: 469214

Client Sample ID: PWFTWWNA084

Prep Type: Total/NA

Prep Batch: 468807

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	ND		0.200	0.199		mg/L		99	70 - 130	4	20
Nickel	0.0042	J	0.200	0.198		mg/L		97	70 - 130	10	20
Selenium	ND		0.200	0.208		mg/L		104	70 - 130	5	20
Zinc	ND	* F1 F2	0.200	0.429	F1 F2	mg/L		214	70 - 130	174	20
Chromium	ND		0.200	0.194		mg/L		97	70 - 130	4	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-469091/1-A

Matrix: Water

Analysis Batch: 469174

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 469091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/22/19 12:15	04/22/19 15:29	1

Lab Sample ID: LCS 480-469091/2-A

Matrix: Water

Analysis Batch: 469174

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 469091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00713		mg/L		107	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-470546/1-A

Matrix: Water

Analysis Batch: 470664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 470546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		04/30/19 10:55	05/01/19 09:41	1

Lab Sample ID: LCS 480-470546/2-A

Matrix: Water

Analysis Batch: 470664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 470546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.413		mg/L		103	90 - 110

Lab Sample ID: LCS 480-470546/3-A

Matrix: Water

Analysis Batch: 470664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 470546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.237		mg/L		95	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM

Job ID: 480-152105-1

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

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

Lab Sample ID: MB 480-469293/1

Matrix: Water

Analysis Batch: 469293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			04/23/19 11:48	1

Lab Sample ID: LCS 480-469293/2

Matrix: Water

Analysis Batch: 469293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	239	233.6		mg/L		98	88 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-468872/1

Matrix: Water

Analysis Batch: 468872

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			04/19/19 11:23	1

Lab Sample ID: LCS 480-468872/2

Matrix: Water

Analysis Batch: 468872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	163.6	*	mg/L		83	85 - 115

QC Association Summary

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

Job ID: 480-152105-1

GC/MS VOA

Analysis Batch: 470040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	8260C	
MB 480-470040/7	Method Blank	Total/NA	Water	8260C	
LCS 480-470040/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 468898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	3510C	
MB 480-468898/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-468898/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 469081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	8270D	468898
MB 480-468898/1-A	Method Blank	Total/NA	Water	8270D	468898
LCS 480-468898/2-A	Lab Control Sample	Total/NA	Water	8270D	468898

Metals

Prep Batch: 468807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	200.7	
MB 480-468807/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-468807/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-152105-1 MS	PWFTWWNA084	Total/NA	Water	200.7	
480-152105-1 MSD	PWFTWWNA084	Total/NA	Water	200.7	

Prep Batch: 469091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	245.1	
MB 480-469091/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-469091/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 469174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	245.1	469091
MB 480-469091/1-A	Method Blank	Total/NA	Water	245.1	469091
LCS 480-469091/2-A	Lab Control Sample	Total/NA	Water	245.1	469091

Analysis Batch: 469214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	200.7 Rev 4.4	468807
MB 480-468807/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	468807
LCS 480-468807/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	468807
480-152105-1 MS	PWFTWWNA084	Total/NA	Water	200.7 Rev 4.4	468807
480-152105-1 MSD	PWFTWWNA084	Total/NA	Water	200.7 Rev 4.4	468807

QC Association Summary

Client: AECOM

Job ID: 480-152105-1

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

General Chemistry

Analysis Batch: 468872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	SM 5210B	
USB 480-468872/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-468872/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 469293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	SM 2540D	
MB 480-469293/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-469293/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 470546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	Distill/CN	
MB 480-470546/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-470546/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-470546/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 470664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-152105-1	PWFTWWNA084	Total/NA	Water	335.4	470546
MB 480-470546/1-A	Method Blank	Total/NA	Water	335.4	470546
LCS 480-470546/2-A	Lab Control Sample	Total/NA	Water	335.4	470546
LCS 480-470546/3-A	Lab Control Sample	Total/NA	Water	335.4	470546

Lab Chronicle

Client: AECOM

Job ID: 480-152105-1

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

Client Sample ID: PWFTWWNA084

Lab Sample ID: 480-152105-1

Date Collected: 04/17/19 13:53

Matrix: Water

Date Received: 04/18/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	470040	04/26/19 22:30	KMN	TAL BUF
Total/NA	Prep	3510C			468898	04/19/19 15:26	ATG	TAL BUF
Total/NA	Analysis	8270D		1	469081	04/22/19 20:30	RJS	TAL BUF
Total/NA	Prep	200.7			468807	04/22/19 08:01	EMB	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	469214	04/22/19 21:49	AMH	TAL BUF
Total/NA	Prep	245.1			469091	04/22/19 12:15	BMB	TAL BUF
Total/NA	Analysis	245.1		1	469174	04/22/19 15:32	BMB	TAL BUF
Total/NA	Prep	Distill/CN			470546	04/30/19 10:55	MDL	TAL BUF
Total/NA	Analysis	335.4		1	470664	05/01/19 10:02	MDL	TAL BUF
Total/NA	Analysis	SM 2540D		1	469293	04/23/19 11:48	RAF	TAL BUF
Total/NA	Analysis	SM 5210B		1	468872	04/19/19 11:23	A1A	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: AECOM

Job ID: 480-152105-1

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

Laboratory: Eurofins TestAmerica, Buffalo

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	10026	03-31-20

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
335.4	Distill/CN	Water	Cyanide, Total

Method Summary

Client: AECOM

Job ID: 480-152105-1

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

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

None = None

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

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: AECOM

Job ID: 480-152105-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-152105-1	PWFTWWNA084	Water	04/17/19 13:53	04/18/19 09:30

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TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Mr. Matt Thorpe Company: AECOM		Sampler: GEORGE HERMANC Phone: 716-861-7882		Lab PM: Deyo, Melissa L. E-Mail: melissa.deyo@testamericainc.com		Carrier Tracking No(s): COC No: 480-127595-28824.1 Page: Page 1 of 1 Job #:	
Address: 40 British American Blvd City: Latham State, Zip: NY, 12110 Phone: 518-428-4383(Tel) Email: matthew.thorpe@aecom.com Project Name: 60584654, Penn Yan Former MGP Phase 2 Site: 150 Water Street, Penn Yan, NY		Due Date Requested: 4/24/2019 TAT Requested (days): 5 PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015558 SSOW#:		Analysis Requested			
Sample Identification PWFTWWNA084		Sample Date: 4/17/19 Sample Time: 1353 Sample Type (C=Comp, G=grab): G Preservation Code: Water		Matrix (Weather, B=Soil, O=Water, etc.) Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 8270D - TCL SVOCs + 20 TICs 200.7, 245.1 8260C - TCL VOCs + 10 TICs 5210B - BOD 2540D - TSS 335.4 - Cyanide		Special Instructions/Note: Total Number of containers:	
Possible Hazard Identification ☐ Non-Hazard ☐ ammable ☐ Skin Irritant ☐ Poison B ☐ Unkl ☐ wn ☐ 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 ☐ Dispose By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Method of Shipment:		Time:	
Relinquished by: George Hermanc Date/Time: 4/17/19 1500		Company: AECOM		Received by: Deyo, Melissa L. Date/Time: 4/18/19 0930		Company:	
Relinquished by:		Company:		Received by:		Company:	
Relinquished by:		Company:		Received by:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: # 3.0		Ver: 01/16	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-152105-1

Login Number: 152105

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	AECOM
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: 460-180464-1

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:
4/30/2019 4:15:37 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

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: 460-180464-1

Qualifiers

GC/MS VOA

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

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated 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.
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: 460-180464-1

Job ID: 460-180464-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-180464-1

Receipt

The samples were received on 4/26/2019 10:00 AM; the samples 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 were collected in an improper container: PWEXBM04095 (460-180464-1) and PWEXBM04137 (460-180464-2). VOC was collected as dirt in jar. Samples were not collected according to 5035L/5035A-L specifications.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-606158 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane, Trichlorofluoromethane and Bromoform. The samples associated with this CCV were non-detects for the affected analytes; 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 460-605669 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane] and 4-Methylphenol. 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 and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 460-605596 and analytical batch 460-605669 recovered outside control limits for the following analyte(s): Benzaldehyde. 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: 460-180464-1

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

Client Sample ID: PWEXBM04095

Lab Sample ID: 460-180464-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.1		4.9	3.8	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.82	J	0.99	0.16	ug/Kg	1	☼	8260C	Total/NA
Acenaphthene	110	J	390	28	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	26	J	390	4.0	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	40	J	390	5.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	81	J	390	5.3	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	37	J	390	6.7	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: PWEXBM04137

Lab Sample ID: 460-180464-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		5.8	4.4	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.3		1.2	0.19	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	67	J	400	4.9	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	44	J	400	29	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	28	J	400	4.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	130	J	400	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	28	J	40	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	21	J	40	10	ug/Kg	1	☼	8270D	Total/NA
Biphenyl	99	J	400	5.3	ug/Kg	1	☼	8270D	Total/NA
Carbazole	170	J	400	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	21	J	400	6.7	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	590		400	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	330	J	400	5.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	350	J	400	5.4	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	220	J	400	6.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	440		400	7.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	240	J	400	9.9	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: 460-180464-1

Client Sample ID: PWEXBM04095

Lab Sample ID: 460-180464-1

Date Collected: 04/24/19 14:49

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.99	0.23	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,1,2,2-Tetrachloroethane	ND		0.99	0.21	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.99	0.30	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,1,2-Trichloroethane	ND		0.99	0.18	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,1-Dichloroethane	ND		0.99	0.20	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,1-Dichloroethene	ND		0.99	0.22	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,2,4-Trichlorobenzene	ND		0.99	0.091	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,2-Dibromo-3-Chloropropane	ND		0.99	0.46	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,2-Dibromoethane	ND		0.99	0.18	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,2-Dichlorobenzene	ND		0.99	0.14	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,2-Dichloroethane	ND		0.99	0.29	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,2-Dichloropropane	ND		0.99	0.42	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,3-Dichlorobenzene	ND		0.99	0.16	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
1,4-Dichlorobenzene	ND		0.99	0.099	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
2-Butanone (MEK)	ND		4.9	1.1	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
2-Hexanone	ND		4.9	0.77	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
4-Methyl-2-pentanone (MIBK)	ND		4.9	0.66	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Acetone	8.1		4.9	3.8	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Benzene	ND		0.99	0.26	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Bromodichloromethane	ND		0.99	0.25	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Bromoform	ND		0.99	0.42	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Bromomethane	ND		0.99	0.47	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Carbon disulfide	ND		0.99	0.26	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Carbon tetrachloride	ND		0.99	0.18	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Chlorobenzene	ND		0.99	0.18	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Chloroethane	ND		0.99	0.52	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Chloroform	ND		0.99	0.32	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Chloromethane	ND		0.99	0.43	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
cis-1,2-Dichloroethene	ND		0.99	0.15	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
cis-1,3-Dichloropropene	ND		0.99	0.27	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Cyclohexane	ND		0.99	0.22	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Dibromochloromethane	ND		0.99	0.19	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Dichlorodifluoromethane	ND		0.99	0.33	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Ethylbenzene	ND		0.99	0.20	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Isopropylbenzene	ND		0.99	0.12	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Methyl acetate	ND		4.9	4.3	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Methyl tert-butyl ether	ND		0.99	0.12	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Methylcyclohexane	ND		0.99	0.16	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Methylene Chloride	0.82	J	0.99	0.16	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Styrene	ND		0.99	0.12	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Tetrachloroethene	ND		0.99	0.14	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Toluene	ND		0.99	0.62	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
trans-1,2-Dichloroethene	ND		0.99	0.24	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
trans-1,3-Dichloropropene	ND		0.99	0.26	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Trichloroethene	ND		0.99	0.14	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Trichlorofluoromethane	ND		0.99	0.40	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Vinyl chloride	ND		0.99	0.54	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1
Xylenes, Total	ND		2.0	0.25	ug/Kg	☼	04/29/19 23:01	04/30/19 02:27	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180464-1

Client Sample ID: PWEXBM04095

Lab Sample ID: 460-180464-1

Date Collected: 04/24/19 14:49

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 85.2

<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>04/29/19 23:01</i>	<i>04/30/19 02:27</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		78 - 135				04/29/19 23:01	04/30/19 02:27	1
4-Bromofluorobenzene	92		67 - 126				04/29/19 23:01	04/30/19 02:27	1
Dibromofluoromethane (Surr)	91		61 - 149				04/29/19 23:01	04/30/19 02:27	1
Toluene-d8 (Surr)	85		73 - 121				04/29/19 23:01	04/30/19 02:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		390	13	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2,4,6-Trichlorophenol	ND		160	20	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2,4-Dichlorophenol	ND		160	8.2	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2,4-Dimethylphenol	ND		390	17	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2,4-Dinitrophenol	ND		310	190	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2,4-Dinitrotoluene	ND		79	20	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2,6-Dinitrotoluene	ND		79	13	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2-Chloronaphthalene	ND		390	18	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2-Chlorophenol	ND		390	5.4	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2-Methylnaphthalene	ND		390	4.8	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2-Methylphenol	ND		390	6.3	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2-Nitroaniline	ND		390	14	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
2-Nitrophenol	ND		390	12	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
3,3'-Dichlorobenzidine	ND		160	59	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
3-Nitroaniline	ND		390	21	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4,6-Dinitro-2-methylphenol	ND		310	63	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4-Bromophenyl phenyl ether	ND		390	5.0	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4-Chloro-3-methylphenol	ND		390	6.4	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4-Chloroaniline	ND		390	27	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4-Chlorophenyl phenyl ether	ND		390	6.1	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4-Methylphenol	ND		390	6.6	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4-Nitroaniline	ND		390	14	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
4-Nitrophenol	ND		790	63	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Acenaphthene	110	J	390	28	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Acenaphthylene	26	J	390	4.0	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Acetophenone	ND		390	6.3	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Anthracene	ND		390	4.3	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Atrazine	ND		160	9.8	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Benzaldehyde	ND *		390	17	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Benzo[a]anthracene	ND		39	14	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Benzo[a]pyrene	ND		39	10	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Benzo[b]fluoranthene	ND		39	10	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Benzo[g,h,i]perylene	ND		390	11	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Benzo[k]fluoranthene	ND		39	7.6	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Biphenyl	ND		390	5.2	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
bis (2-chloroisopropyl) ether	ND		390	7.0	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Bis(2-chloroethoxy)methane	ND		390	13	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Bis(2-chloroethyl)ether	ND		39	4.7	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Bis(2-ethylhexyl) phthalate	ND		390	21	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Butyl benzyl phthalate	ND		390	18	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1

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Client Sample Results

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

Job ID: 460-180464-1

Client Sample ID: PWEXBM04095

Lab Sample ID: 460-180464-1

Date Collected: 04/24/19 14:49

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		390	23	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Carbazole	ND		390	4.5	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Chrysene	ND		390	6.6	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Dibenz(a,h)anthracene	ND		39	17	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Dibenzofuran	40	J	390	5.5	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Diethyl phthalate	ND		390	5.6	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Dimethyl phthalate	ND		390	4.7	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Di-n-butyl phthalate	ND		390	68	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Di-n-octyl phthalate	ND		390	21	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Fluoranthene	ND		390	5.0	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Fluorene	81	J	390	5.3	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Hexachlorobenzene	ND		39	5.7	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Hexachlorobutadiene	ND		79	8.3	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Hexachlorocyclopentadiene	ND		390	34	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Hexachloroethane	ND		39	6.0	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Indeno[1,2,3-cd]pyrene	ND		39	15	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Isophorone	ND		160	10	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Naphthalene	37	J	390	6.7	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Nitrobenzene	ND		39	9.3	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
N-Nitrosodi-n-propylamine	ND		39	6.2	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
N-Nitrosodiphenylamine	ND		390	7.4	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Pentachlorophenol	ND		310	80	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Phenanthrene	ND		390	6.8	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Phenol	ND		390	5.7	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1
Pyrene	ND		390	9.7	ug/Kg	☼	04/26/19 16:18	04/27/19 00:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/26/19 16:18	04/27/19 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		10 - 137	04/26/19 16:18	04/27/19 00:57	1
2-Fluorobiphenyl (Surr)	72		29 - 107	04/26/19 16:18	04/27/19 00:57	1
2-Fluorophenol (Surr)	64		20 - 115	04/26/19 16:18	04/27/19 00:57	1
Nitrobenzene-d5 (Surr)	62		25 - 113	04/26/19 16:18	04/27/19 00:57	1
Phenol-d5 (Surr)	62		28 - 109	04/26/19 16:18	04/27/19 00:57	1
Terphenyl-d14 (Surr)	77		27 - 123	04/26/19 16:18	04/27/19 00:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		1.0	1.0	%			04/28/19 00:50	1
Percent Solids	85.2		1.0	1.0	%			04/28/19 00:50	1

Client Sample ID: PWEXBM04137

Lab Sample ID: 460-180464-2

Date Collected: 04/24/19 14:34

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.2	0.27	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.25	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.2	0.35	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180464-1

Client Sample ID: PWEXBM04137

Lab Sample ID: 460-180464-2

Date Collected: 04/24/19 14:34

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

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		1.2	0.21	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,1-Dichloroethane	ND		1.2	0.24	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,1-Dichloroethene	ND		1.2	0.26	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,2,4-Trichlorobenzene	ND		1.2	0.11	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,2-Dibromo-3-Chloropropane	ND		1.2	0.54	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,2-Dibromoethane	ND		1.2	0.21	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,2-Dichlorobenzene	ND		1.2	0.17	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,2-Dichloroethane	ND		1.2	0.35	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,2-Dichloropropane	ND		1.2	0.49	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,3-Dichlorobenzene	ND		1.2	0.19	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
1,4-Dichlorobenzene	ND		1.2	0.12	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
2-Butanone (MEK)	ND		5.8	1.3	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
2-Hexanone	ND		5.8	0.91	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.8	0.78	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Acetone	12		5.8	4.4	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Benzene	ND		1.2	0.30	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Bromodichloromethane	ND		1.2	0.30	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Bromoform	ND		1.2	0.50	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Bromomethane	ND		1.2	0.55	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Carbon disulfide	ND		1.2	0.31	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Carbon tetrachloride	ND		1.2	0.21	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Chlorobenzene	ND		1.2	0.21	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Chloroethane	ND		1.2	0.61	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Chloroform	ND		1.2	0.37	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Chloromethane	ND		1.2	0.51	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
cis-1,2-Dichloroethene	ND		1.2	0.18	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
cis-1,3-Dichloropropene	ND		1.2	0.32	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Cyclohexane	ND		1.2	0.26	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Dibromochloromethane	ND		1.2	0.23	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Dichlorodifluoromethane	ND		1.2	0.40	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Ethylbenzene	ND		1.2	0.23	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Isopropylbenzene	ND		1.2	0.15	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Methyl acetate	ND		5.8	5.0	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Methyl tert-butyl ether	ND		1.2	0.15	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Methylcyclohexane	ND		1.2	0.19	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Methylene Chloride	1.3		1.2	0.19	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Styrene	ND		1.2	0.14	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Tetrachloroethene	ND		1.2	0.17	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Toluene	ND		1.2	0.73	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
trans-1,2-Dichloroethene	ND		1.2	0.29	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
trans-1,3-Dichloropropene	ND		1.2	0.31	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Trichloroethene	ND		1.2	0.17	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Trichlorofluoromethane	ND		1.2	0.47	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Vinyl chloride	ND		1.2	0.64	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1
Xylenes, Total	ND		2.3	0.30	ug/Kg	☼	04/29/19 23:02	04/30/19 02:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Benzothiophene #	6.3	T J N	ug/Kg	☼	13.21	270-82-6	04/29/19 23:02	04/30/19 02:52	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AECOM

Job ID: 460-180464-1

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

Client Sample ID: PWEXBM04137

Lab Sample ID: 460-180464-2

Date Collected: 04/24/19 14:34

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		78 - 135	04/29/19 23:02	04/30/19 02:52	1
4-Bromofluorobenzene	87		67 - 126	04/29/19 23:02	04/30/19 02:52	1
Dibromofluoromethane (Surr)	100		61 - 149	04/29/19 23:02	04/30/19 02:52	1
Toluene-d8 (Surr)	88		73 - 121	04/29/19 23:02	04/30/19 02:52	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	☼	04/26/19 16:18	04/27/19 01:19	1
2,4,6-Trichlorophenol	ND		160	20	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2,4-Dichlorophenol	ND		160	8.4	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2,4-Dimethylphenol	ND		400	17	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2,4-Dinitrophenol	ND		320	190	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2,4-Dinitrotoluene	ND		80	20	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2,6-Dinitrotoluene	ND		80	13	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2-Chloronaphthalene	ND		400	18	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2-Chlorophenol	ND		400	5.6	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2-Methylnaphthalene	67	J	400	4.9	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2-Methylphenol	ND		400	6.4	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2-Nitroaniline	ND		400	15	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
2-Nitrophenol	ND		400	13	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
3,3'-Dichlorobenzidine	ND		160	60	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
3-Nitroaniline	ND		400	22	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4,6-Dinitro-2-methylphenol	ND		320	64	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4-Bromophenyl phenyl ether	ND		400	5.1	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4-Chloro-3-methylphenol	ND		400	6.6	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4-Chloroaniline	ND		400	28	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4-Chlorophenyl phenyl ether	ND		400	6.2	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4-Methylphenol	ND		400	6.8	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4-Nitroaniline	ND		400	15	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
4-Nitrophenol	ND		800	65	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Acenaphthene	44	J	400	29	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Acenaphthylene	28	J	400	4.1	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Acetophenone	ND		400	6.4	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Anthracene	130	J	400	4.4	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Atrazine	ND		160	10	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Benzaldehyde	ND *		400	17	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Benzo[a]anthracene	28	J	40	14	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Benzo[a]pyrene	ND		40	11	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Benzo[b]fluoranthene	21	J	40	10	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Benzo[g,h,i]perylene	ND		400	12	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Benzo[k]fluoranthene	ND		40	7.8	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Biphenyl	99	J	400	5.3	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
bis (2-chloroisopropyl) ether	ND		400	7.2	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Bis(2-chloroethoxy)methane	ND		400	14	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Bis(2-chloroethyl)ether	ND		40	4.8	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Bis(2-ethylhexyl) phthalate	ND		400	21	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Butyl benzyl phthalate	ND		400	19	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Caprolactam	ND		400	24	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Carbazole	170	J	400	4.6	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Chrysene	21	J	400	6.7	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1

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Client Sample Results

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

Job ID: 460-180464-1

Client Sample ID: PWEXBM04137

Lab Sample ID: 460-180464-2

Date Collected: 04/24/19 14:34

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

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	☼	04/26/19 16:18	04/27/19 01:19	1
Dibenzofuran	590		400	5.6	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Diethyl phthalate	ND		400	5.7	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Dimethyl phthalate	ND		400	4.8	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Di-n-butyl phthalate	ND		400	70	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Di-n-octyl phthalate	ND		400	21	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Fluoranthene	330 J		400	5.1	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Fluorene	350 J		400	5.4	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Hexachlorobenzene	ND		40	5.8	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Hexachlorobutadiene	ND		80	8.4	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Hexachlorocyclopentadiene	ND		400	35	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Hexachloroethane	ND		40	6.1	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Indeno[1,2,3-cd]pyrene	ND		40	15	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Isophorone	ND		160	10	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Naphthalene	220 J		400	6.9	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Nitrobenzene	ND		40	9.5	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
N-Nitrosodi-n-propylamine	ND		40	6.3	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
N-Nitrosodiphenylamine	ND		400	7.6	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Pentachlorophenol	ND		320	81	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Phenanthrene	440		400	7.0	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Phenol	ND		400	5.9	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1
Pyrene	240 J		400	9.9	ug/Kg	☼	04/26/19 16:18	04/27/19 01:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	450	T J	ug/Kg	☼	5.30		04/26/19 16:18	04/27/19 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		10 - 137	04/26/19 16:18	04/27/19 01:19	1
2-Fluorobiphenyl (Surr)	84		29 - 107	04/26/19 16:18	04/27/19 01:19	1
2-Fluorophenol (Surr)	72		20 - 115	04/26/19 16:18	04/27/19 01:19	1
Nitrobenzene-d5 (Surr)	71		25 - 113	04/26/19 16:18	04/27/19 01:19	1
Phenol-d5 (Surr)	72		28 - 109	04/26/19 16:18	04/27/19 01:19	1
Terphenyl-d14 (Surr)	90		27 - 123	04/26/19 16:18	04/27/19 01:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		1.0	1.0	%			04/28/19 00:50	1
Percent Solids	83.4		1.0	1.0	%			04/28/19 00:50	1

Surrogate Summary

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

Job ID: 460-180464-1

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)
460-180464-1	PWEXBM04095	91	92	91	85
460-180464-2	PWEXBM04137	92	87	100	88
LCS 460-606158/4	Lab Control Sample	88	93	97	90
LCSD 460-606158/5	Lab Control Sample Dup	88	93	101	92
MB 460-606158/9	Method Blank	91	89	102	92

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)
460-180464-1	PWEXBM04095	58	72	64	62	62	77
460-180464-2	PWEXBM04137	63	84	72	71	72	90
LCS 460-605596/2-A	Lab Control Sample	113	103	94	85	89	106
LCS 460-605596/4-A	Lab Control Sample	114	101	99	88	91	109
LCSD 460-605596/3-B	Lab Control Sample Dup	108	95	89	81	85	101
MB 460-605596/1-A	Method Blank	101	88	88	77	82	95

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: 460-180464-1

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

Lab Sample ID: MB 460-606158/9

Matrix: Solid

Analysis Batch: 606158

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			04/29/19 20:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			04/29/19 20:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			04/29/19 20:42	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			04/29/19 20:42	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			04/29/19 20:42	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			04/29/19 20:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			04/29/19 20:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			04/29/19 20:42	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			04/29/19 20:42	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			04/29/19 20:42	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			04/29/19 20:42	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			04/29/19 20:42	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			04/29/19 20:42	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			04/29/19 20:42	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			04/29/19 20:42	1
2-Hexanone	ND		5.0	0.78	ug/Kg			04/29/19 20:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			04/29/19 20:42	1
Acetone	ND		5.0	3.8	ug/Kg			04/29/19 20:42	1
Benzene	ND		1.0	0.26	ug/Kg			04/29/19 20:42	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			04/29/19 20:42	1
Bromoform	ND		1.0	0.43	ug/Kg			04/29/19 20:42	1
Bromomethane	ND		1.0	0.47	ug/Kg			04/29/19 20:42	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			04/29/19 20:42	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			04/29/19 20:42	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			04/29/19 20:42	1
Chloroethane	ND		1.0	0.52	ug/Kg			04/29/19 20:42	1
Chloroform	ND		1.0	0.32	ug/Kg			04/29/19 20:42	1
Chloromethane	ND		1.0	0.44	ug/Kg			04/29/19 20:42	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			04/29/19 20:42	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			04/29/19 20:42	1
Cyclohexane	ND		1.0	0.22	ug/Kg			04/29/19 20:42	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			04/29/19 20:42	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			04/29/19 20:42	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			04/29/19 20:42	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			04/29/19 20:42	1
Methyl acetate	ND		5.0	4.3	ug/Kg			04/29/19 20:42	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			04/29/19 20:42	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			04/29/19 20:42	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			04/29/19 20:42	1
Styrene	ND		1.0	0.12	ug/Kg			04/29/19 20:42	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			04/29/19 20:42	1
Toluene	ND		1.0	0.63	ug/Kg			04/29/19 20:42	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			04/29/19 20:42	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			04/29/19 20:42	1
Trichloroethene	ND		1.0	0.14	ug/Kg			04/29/19 20:42	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			04/29/19 20:42	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			04/29/19 20:42	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			04/29/19 20:42	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180464-1

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

Lab Sample ID: MB 460-606158/9

Matrix: Solid

Analysis Batch: 606158

Client Sample ID: Method Blank

Prep Type: Total/NA

<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>04/29/19 20:42</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	91		78 - 135					04/29/19 20:42	1
4-Bromofluorobenzene	89		67 - 126					04/29/19 20:42	1
Dibromofluoromethane (Surr)	102		61 - 149					04/29/19 20:42	1
Toluene-d8 (Surr)	92		73 - 121					04/29/19 20:42	1

Lab Sample ID: LCS 460-606158/4

Matrix: Solid

Analysis Batch: 606158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1,1-Trichloroethane	20.0	21.7		ug/Kg		108	80 - 125
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/Kg		99	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.7		ug/Kg		119	78 - 132
1,1,2-Trichloroethane	20.0	21.8		ug/Kg		109	76 - 124
1,1-Dichloroethane	20.0	20.0		ug/Kg		100	80 - 124
1,1-Dichloroethene	20.0	20.7		ug/Kg		103	79 - 132
1,2,4-Trichlorobenzene	20.0	18.1		ug/Kg		90	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/Kg		105	65 - 129
1,2-Dibromoethane	20.0	23.4		ug/Kg		117	80 - 122
1,2-Dichlorobenzene	20.0	21.2		ug/Kg		106	80 - 121
1,2-Dichloroethane	20.0	20.2		ug/Kg		101	68 - 120
1,2-Dichloropropane	20.0	21.8		ug/Kg		109	77 - 124
1,3-Dichlorobenzene	20.0	20.8		ug/Kg		104	79 - 124
1,4-Dichlorobenzene	20.0	20.9		ug/Kg		105	79 - 121
2-Butanone (MEK)	100	116		ug/Kg		116	61 - 140
2-Hexanone	100	114		ug/Kg		114	78 - 120
4-Methyl-2-pentanone (MIBK)	100	110		ug/Kg		110	80 - 120
Acetone	100	94.3		ug/Kg		94	75 - 120
Benzene	20.0	19.1		ug/Kg		96	75 - 127
Bromodichloromethane	20.0	22.1		ug/Kg		110	76 - 129
Bromoform	20.0	25.0		ug/Kg		125	19 - 150
Bromomethane	20.0	24.8		ug/Kg		124	59 - 136
Carbon disulfide	20.0	21.3		ug/Kg		106	74 - 130
Carbon tetrachloride	20.0	22.1		ug/Kg		111	77 - 138
Chlorobenzene	20.0	22.1		ug/Kg		110	80 - 120
Chloroethane	20.0	21.6		ug/Kg		108	50 - 139
Chloroform	20.0	21.1		ug/Kg		105	80 - 122
Chloromethane	20.0	22.5		ug/Kg		113	66 - 128
cis-1,2-Dichloroethene	20.0	21.3		ug/Kg		106	80 - 123
cis-1,3-Dichloropropene	20.0	21.6		ug/Kg		108	75 - 124
Cyclohexane	20.0	20.8		ug/Kg		104	67 - 135
Dibromochloromethane	20.0	23.3		ug/Kg		116	67 - 143
Dichlorodifluoromethane	20.0	17.2		ug/Kg		86	72 - 127
Ethylbenzene	20.0	21.1		ug/Kg		105	79 - 124

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180464-1

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

Lab Sample ID: LCS 460-606158/4

Matrix: Solid

Analysis Batch: 606158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	20.0	19.4		ug/Kg		97	80 - 125
Methyl acetate	40.0	39.3		ug/Kg		98	73 - 123
Methyl tert-butyl ether	20.0	21.2		ug/Kg		106	80 - 120
Methylcyclohexane	20.0	18.4		ug/Kg		92	71 - 137
Methylene Chloride	20.0	20.5		ug/Kg		103	79 - 128
Styrene	20.0	21.5		ug/Kg		107	78 - 123
Tetrachloroethene	20.0	22.4		ug/Kg		112	73 - 130
Toluene	20.0	20.7		ug/Kg		104	75 - 122
trans-1,2-Dichloroethene	20.0	21.2		ug/Kg		106	80 - 129
trans-1,3-Dichloropropene	20.0	22.5		ug/Kg		112	72 - 121
Trichloroethene	20.0	22.3		ug/Kg		111	79 - 122
Trichlorofluoromethane	20.0	23.1		ug/Kg		116	68 - 136
Vinyl chloride	20.0	23.2		ug/Kg		116	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		78 - 135
4-Bromofluorobenzene	93		67 - 126
Dibromofluoromethane (Surr)	97		61 - 149
Toluene-d8 (Surr)	90		73 - 121

Lab Sample ID: LCSD 460-606158/5

Matrix: Solid

Analysis Batch: 606158

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	22.6		ug/Kg		113	80 - 125	4	30
1,1,2,2-Tetrachloroethane	20.0	18.2		ug/Kg		91	72 - 131	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.6		ug/Kg		123	78 - 132	3	30
1,1,2-Trichloroethane	20.0	20.1		ug/Kg		101	76 - 124	8	30
1,1-Dichloroethane	20.0	20.4		ug/Kg		102	80 - 124	2	30
1,1-Dichloroethene	20.0	21.5		ug/Kg		107	79 - 132	4	30
1,2,4-Trichlorobenzene	20.0	18.1		ug/Kg		90	74 - 124	0	30
1,2-Dibromo-3-Chloropropane	20.0	18.8		ug/Kg		94	65 - 129	11	30
1,2-Dibromoethane	20.0	21.1		ug/Kg		106	80 - 122	10	30
1,2-Dichlorobenzene	20.0	20.7		ug/Kg		104	80 - 121	2	30
1,2-Dichloroethane	20.0	19.1		ug/Kg		96	68 - 120	5	30
1,2-Dichloropropane	20.0	20.9		ug/Kg		105	77 - 124	4	30
1,3-Dichlorobenzene	20.0	20.4		ug/Kg		102	79 - 124	2	30
1,4-Dichlorobenzene	20.0	20.6		ug/Kg		103	79 - 121	1	30
2-Butanone (MEK)	100	111		ug/Kg		111	61 - 140	5	30
2-Hexanone	100	105		ug/Kg		105	78 - 120	9	30
4-Methyl-2-pentanone (MIBK)	100	105		ug/Kg		105	80 - 120	4	30
Acetone	100	93.5		ug/Kg		93	75 - 120	1	30
Benzene	20.0	20.1		ug/Kg		101	75 - 127	5	30
Bromodichloromethane	20.0	21.3		ug/Kg		107	76 - 129	4	30
Bromoform	20.0	22.8		ug/Kg		114	19 - 150	9	30
Bromomethane	20.0	26.2		ug/Kg		131	59 - 136	6	30
Carbon disulfide	20.0	22.4		ug/Kg		112	74 - 130	5	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180464-1

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

Lab Sample ID: LCSD 460-606158/5

Matrix: Solid

Analysis Batch: 606158

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
Carbon tetrachloride	20.0	23.1		ug/Kg		115	77 - 138	4	30
Chlorobenzene	20.0	21.5		ug/Kg		107	80 - 120	3	30
Chloroethane	20.0	23.8		ug/Kg		119	50 - 139	10	30
Chloroform	20.0	21.5		ug/Kg		108	80 - 122	2	30
Chloromethane	20.0	23.1		ug/Kg		115	66 - 128	2	30
cis-1,2-Dichloroethene	20.0	21.3		ug/Kg		107	80 - 123	0	30
cis-1,3-Dichloropropene	20.0	20.9		ug/Kg		104	75 - 124	4	30
Cyclohexane	20.0	21.5		ug/Kg		108	67 - 135	4	30
Dibromochloromethane	20.0	21.9		ug/Kg		110	67 - 143	6	30
Dichlorodifluoromethane	20.0	19.4		ug/Kg		97	72 - 127	12	30
Ethylbenzene	20.0	21.4		ug/Kg		107	79 - 124	1	30
Isopropylbenzene	20.0	20.0		ug/Kg		100	80 - 125	3	30
Methyl acetate	40.0	35.4		ug/Kg		88	73 - 123	11	30
Methyl tert-butyl ether	20.0	20.3		ug/Kg		102	80 - 120	5	30
Methylcyclohexane	20.0	19.0		ug/Kg		95	71 - 137	3	30
Methylene Chloride	20.0	20.8		ug/Kg		104	79 - 128	2	30
Styrene	20.0	20.7		ug/Kg		103	78 - 123	4	30
Tetrachloroethene	20.0	22.7		ug/Kg		113	73 - 130	1	30
Toluene	20.0	20.9		ug/Kg		104	75 - 122	1	30
trans-1,2-Dichloroethene	20.0	21.8		ug/Kg		109	80 - 129	3	30
trans-1,3-Dichloropropene	20.0	20.6		ug/Kg		103	72 - 121	8	30
Trichloroethene	20.0	22.0		ug/Kg		110	79 - 122	1	30
Trichlorofluoromethane	20.0	25.7		ug/Kg		129	68 - 136	11	30
Vinyl chloride	20.0	25.2		ug/Kg		126	70 - 134	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		78 - 135
4-Bromofluorobenzene	93		67 - 126
Dibromofluoromethane (Surr)	101		61 - 149
Toluene-d8 (Surr)	92		73 - 121

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

Lab Sample ID: MB 460-605596/1-A

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2-Chloronaphthalene	ND		330	15	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2-Chlorophenol	ND		330	4.6	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2-Methylphenol	ND		330	5.3	ug/Kg		04/26/19 16:18	04/26/19 22:17	1

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QC Sample Results

Client: AECOM

Job ID: 460-180464-1

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

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

Lab Sample ID: MB 460-605596/1-A

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		330	12	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
2-Nitrophenol	ND		330	11	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
3-Nitroaniline	ND		330	18	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4-Chloroaniline	ND		330	23	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4-Methylphenol	ND		330	5.6	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4-Nitroaniline	ND		330	12	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
4-Nitrophenol	ND		670	54	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Acenaphthene	ND		330	24	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Acenaphthylene	ND		330	3.4	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Acetophenone	ND		330	5.3	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Anthracene	ND		330	3.7	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Atrazine	ND		130	8.3	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Benzaldehyde	ND		330	14	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Benzo[a]anthracene	ND		33	12	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Biphenyl	ND		330	4.4	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Caprolactam	ND		330	20	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Carbazole	ND		330	3.9	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Chrysene	ND		330	5.6	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Dibenzofuran	ND		330	4.6	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Diethyl phthalate	ND		330	4.8	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Di-n-octyl phthalate	ND		330	18	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Fluoranthene	ND		330	4.3	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Fluorene	ND		330	4.5	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Hexachloroethane	ND		33	5.1	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Isophorone	ND		130	8.7	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Naphthalene	ND		330	5.7	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Nitrobenzene	ND		33	7.9	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		04/26/19 16:18	04/26/19 22:17	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180464-1

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

Lab Sample ID: MB 460-605596/1-A

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Pentachlorophenol	ND		270	68	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Phenanthrene	ND		330	5.8	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Phenol	ND		330	4.9	ug/Kg		04/26/19 16:18	04/26/19 22:17	1
Pyrene	ND		330	8.2	ug/Kg		04/26/19 16:18	04/26/19 22:17	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				04/26/19 16:18	04/26/19 22:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		10 - 137	04/26/19 16:18	04/26/19 22:17	1
2-Fluorobiphenyl (Surr)	88		29 - 107	04/26/19 16:18	04/26/19 22:17	1
2-Fluorophenol (Surr)	88		20 - 115	04/26/19 16:18	04/26/19 22:17	1
Nitrobenzene-d5 (Surr)	77		25 - 113	04/26/19 16:18	04/26/19 22:17	1
Phenol-d5 (Surr)	82		28 - 109	04/26/19 16:18	04/26/19 22:17	1
Terphenyl-d14 (Surr)	95		27 - 123	04/26/19 16:18	04/26/19 22:17	1

Lab Sample ID: LCS 460-605596/2-A

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	3330	3350		ug/Kg		100	60 - 106
2,4,6-Trichlorophenol	3330	3540		ug/Kg		106	62 - 110
2,4-Dichlorophenol	3330	3350		ug/Kg		101	61 - 103
2,4-Dimethylphenol	3330	3100		ug/Kg		93	63 - 101
2,4-Dinitrophenol	6670	6220		ug/Kg		93	56 - 122
2,4-Dinitrotoluene	3330	3430		ug/Kg		103	66 - 122
2,6-Dinitrotoluene	3330	3610		ug/Kg		108	70 - 114
2-Chloronaphthalene	3330	3250		ug/Kg		97	63 - 107
2-Chlorophenol	3330	3030		ug/Kg		91	62 - 97
2-Methylnaphthalene	3330	2970		ug/Kg		89	65 - 104
2-Methylphenol	3330	2760		ug/Kg		83	61 - 103
2-Nitroaniline	3330	2740		ug/Kg		82	57 - 114
2-Nitrophenol	3330	3200		ug/Kg		96	65 - 104
3,3'-Dichlorobenzidine	3330	2210		ug/Kg		66	18 - 88
3-Nitroaniline	3330	2330		ug/Kg		70	30 - 94
4,6-Dinitro-2-methylphenol	6670	6900		ug/Kg		103	67 - 120
4-Bromophenyl phenyl ether	3330	3490		ug/Kg		105	59 - 122
4-Chloro-3-methylphenol	3330	2980		ug/Kg		89	62 - 111
4-Chloroaniline	3330	2270		ug/Kg		68	18 - 94
4-Chlorophenyl phenyl ether	3330	3080		ug/Kg		92	66 - 110
4-Methylphenol	3330	2430		ug/Kg		73	61 - 105
4-Nitroaniline	3330	2730		ug/Kg		82	49 - 118
4-Nitrophenol	6670	5540		ug/Kg		83	43 - 141
Acenaphthene	3330	2590		ug/Kg		78	62 - 108
Acenaphthylene	3330	3190		ug/Kg		96	67 - 107
Acetophenone	3330	2490		ug/Kg		75	60 - 109

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180464-1

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

Lab Sample ID: LCS 460-605596/2-A

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	3330	3080		ug/Kg		92	69 - 111
Benzo[a]anthracene	3330	3030		ug/Kg		91	68 - 110
Benzo[a]pyrene	3330	3200		ug/Kg		96	72 - 115
Benzo[b]fluoranthene	3330	3240		ug/Kg		97	69 - 119
Benzo[g,h,i]perylene	3330	3240		ug/Kg		97	54 - 128
Benzo[k]fluoranthene	3330	3370		ug/Kg		101	70 - 115
Biphenyl	3330	3310		ug/Kg		99	64 - 108
bis (2-chloroisopropyl) ether	3330	2340		ug/Kg		70	39 - 122
Bis(2-chloroethoxy)methane	3330	2970		ug/Kg		89	65 - 106
Bis(2-chloroethyl)ether	3330	2930		ug/Kg		88	64 - 105
Bis(2-ethylhexyl) phthalate	3330	3370		ug/Kg		101	63 - 125
Butyl benzyl phthalate	3330	3340		ug/Kg		100	65 - 125
Carbazole	3330	2930		ug/Kg		88	66 - 115
Chrysene	3330	3240		ug/Kg		97	70 - 111
Dibenz(a,h)anthracene	3330	3570		ug/Kg		107	60 - 130
Dibenzofuran	3330	3090		ug/Kg		93	67 - 107
Diethyl phthalate	3330	3070		ug/Kg		92	66 - 117
Dimethyl phthalate	3330	3150		ug/Kg		95	68 - 112
Di-n-butyl phthalate	3330	3030		ug/Kg		91	67 - 119
Di-n-octyl phthalate	3330	3280		ug/Kg		98	57 - 138
Fluoranthene	3330	3000		ug/Kg		90	64 - 114
Fluorene	3330	3000		ug/Kg		90	66 - 110
Hexachlorobenzene	3330	3580		ug/Kg		107	57 - 128
Hexachlorobutadiene	3330	3300		ug/Kg		99	60 - 108
Hexachlorocyclopentadiene	3330	3080		ug/Kg		92	50 - 129
Hexachloroethane	3330	2680		ug/Kg		80	63 - 99
Indeno[1,2,3-cd]pyrene	3330	3600		ug/Kg		108	53 - 137
Isophorone	3330	2790		ug/Kg		84	68 - 111
Naphthalene	3330	2950		ug/Kg		88	65 - 102
Nitrobenzene	3330	2780		ug/Kg		83	66 - 108
N-Nitrosodi-n-propylamine	3330	2550		ug/Kg		77	63 - 117
N-Nitrosodiphenylamine	3330	3270		ug/Kg		98	65 - 114
Pentachlorophenol	6670	5880		ug/Kg		88	56 - 116
Phenanthrene	3330	3070		ug/Kg		92	68 - 111
Phenol	3330	2770		ug/Kg		83	58 - 103
Pyrene	3330	3430		ug/Kg		103	64 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	113		10 - 137
2-Fluorobiphenyl (Surr)	103		29 - 107
2-Fluorophenol (Surr)	94		20 - 115
Nitrobenzene-d5 (Surr)	85		25 - 113
Phenol-d5 (Surr)	89		28 - 109
Terphenyl-d14 (Surr)	106		27 - 123

QC Sample Results

Client: AECOM

Job ID: 460-180464-1

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

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

Lab Sample ID: LCS 460-605596/4-A

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	7200		ug/Kg		108	62 - 137
Benzaldehyde	6670	3040	*	ug/Kg		46	52 - 113
Caprolactam	6670	7250		ug/Kg		109	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	114		10 - 137
2-Fluorobiphenyl (Surr)	101		29 - 107
2-Fluorophenol (Surr)	99		20 - 115
Nitrobenzene-d5 (Surr)	88		25 - 113
Phenol-d5 (Surr)	91		28 - 109
Terphenyl-d14 (Surr)	109		27 - 123

Lab Sample ID: LCSD 460-605596/3-B

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 605596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
2,4,5-Trichlorophenol	3330	3110		ug/Kg		93	60 - 106	7	30
2,4,6-Trichlorophenol	3330	3310		ug/Kg		99	62 - 110	7	30
2,4-Dichlorophenol	3330	3210		ug/Kg		96	61 - 103	4	30
2,4-Dimethylphenol	3330	2930		ug/Kg		88	63 - 101	6	30
2,4-Dinitrophenol	6670	5970		ug/Kg		90	56 - 122	4	30
2,4-Dinitrotoluene	3330	3270		ug/Kg		98	66 - 122	5	30
2,6-Dinitrotoluene	3330	3380		ug/Kg		101	70 - 114	6	30
2-Chloronaphthalene	3330	3060		ug/Kg		92	63 - 107	6	30
2-Chlorophenol	3330	2900		ug/Kg		87	62 - 97	4	30
2-Methylnaphthalene	3330	2900		ug/Kg		87	65 - 104	2	30
2-Methylphenol	3330	2640		ug/Kg		79	61 - 103	5	30
2-Nitroaniline	3330	2580		ug/Kg		77	57 - 114	6	30
2-Nitrophenol	3330	3040		ug/Kg		91	65 - 104	5	30
3,3'-Dichlorobenzidine	3330	1990		ug/Kg		60	18 - 88	11	30
3-Nitroaniline	3330	2210		ug/Kg		66	30 - 94	5	30
4,6-Dinitro-2-methylphenol	6670	6510		ug/Kg		98	67 - 120	6	30
4-Bromophenyl phenyl ether	3330	3280		ug/Kg		98	59 - 122	6	30
4-Chloro-3-methylphenol	3330	2900		ug/Kg		87	62 - 111	3	30
4-Chloroaniline	3330	2120		ug/Kg		64	18 - 94	7	30
4-Chlorophenyl phenyl ether	3330	2910		ug/Kg		87	66 - 110	6	30
4-Methylphenol	3330	2370		ug/Kg		71	61 - 105	3	30
4-Nitroaniline	3330	2560		ug/Kg		77	49 - 118	6	30
4-Nitrophenol	6670	5290		ug/Kg		79	43 - 141	5	30
Acenaphthene	3330	2470		ug/Kg		74	62 - 108	5	30
Acenaphthylene	3330	3040		ug/Kg		91	67 - 107	5	30
Acetophenone	3330	2370		ug/Kg		71	60 - 109	5	30
Anthracene	3330	2950		ug/Kg		88	69 - 111	5	30
Benzo[a]anthracene	3330	2890		ug/Kg		87	68 - 110	5	30
Benzo[a]pyrene	3330	3050		ug/Kg		92	72 - 115	5	30
Benzo[b]fluoranthene	3330	3190		ug/Kg		96	69 - 119	2	30
Benzo[g,h,i]perylene	3330	3060		ug/Kg		92	54 - 128	6	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180464-1

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

Lab Sample ID: LCSD 460-605596/3-B

Matrix: Solid

Analysis Batch: 605669

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 605596

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene	3330	3120		ug/Kg		94	70 - 115	8	30
Biphenyl	3330	3090		ug/Kg		93	64 - 108	7	30
bis (2-chloroisopropyl) ether	3330	2180		ug/Kg		65	39 - 122	7	30
Bis(2-chloroethoxy)methane	3330	2770		ug/Kg		83	65 - 106	7	30
Bis(2-chloroethyl)ether	3330	2670		ug/Kg		80	64 - 105	9	30
Bis(2-ethylhexyl) phthalate	3330	3160		ug/Kg		95	63 - 125	6	30
Butyl benzyl phthalate	3330	3150		ug/Kg		94	65 - 125	6	30
Carbazole	3330	2840		ug/Kg		85	66 - 115	3	30
Chrysene	3330	3030		ug/Kg		91	70 - 111	7	30
Dibenz(a,h)anthracene	3330	3380		ug/Kg		101	60 - 130	6	30
Dibenzofuran	3330	2930		ug/Kg		88	67 - 107	5	30
Diethyl phthalate	3330	2920		ug/Kg		88	66 - 117	5	30
Dimethyl phthalate	3330	3040		ug/Kg		91	68 - 112	4	30
Di-n-butyl phthalate	3330	2890		ug/Kg		87	67 - 119	5	30
Di-n-octyl phthalate	3330	3110		ug/Kg		93	57 - 138	5	30
Fluoranthene	3330	2850		ug/Kg		86	64 - 114	5	30
Fluorene	3330	2830		ug/Kg		85	66 - 110	6	30
Hexachlorobenzene	3330	3410		ug/Kg		102	57 - 128	5	30
Hexachlorobutadiene	3330	3130		ug/Kg		94	60 - 108	6	30
Hexachlorocyclopentadiene	3330	2790		ug/Kg		84	50 - 129	10	30
Hexachloroethane	3330	2540		ug/Kg		76	63 - 99	5	30
Indeno[1,2,3-cd]pyrene	3330	3440		ug/Kg		103	53 - 137	4	30
Isophorone	3330	2680		ug/Kg		80	68 - 111	4	30
Naphthalene	3330	2820		ug/Kg		84	65 - 102	5	30
Nitrobenzene	3330	2660		ug/Kg		80	66 - 108	4	30
N-Nitrosodi-n-propylamine	3330	2440		ug/Kg		73	63 - 117	5	30
N-Nitrosodiphenylamine	3330	3100		ug/Kg		93	65 - 114	6	30
Pentachlorophenol	6670	5610		ug/Kg		84	56 - 116	5	30
Phenanthrene	3330	2930		ug/Kg		88	68 - 111	5	30
Phenol	3330	2670		ug/Kg		80	58 - 103	4	30
Pyrene	3330	3290		ug/Kg		99	64 - 121	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	108		10 - 137
2-Fluorobiphenyl (Surr)	95		29 - 107
2-Fluorophenol (Surr)	89		20 - 115
Nitrobenzene-d5 (Surr)	81		25 - 113
Phenol-d5 (Surr)	85		28 - 109
Terphenyl-d14 (Surr)	101		27 - 123

QC Association Summary

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

Job ID: 460-180464-1

GC/MS VOA

Analysis Batch: 606158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180464-1	PWEXBM04095	Total/NA	Solid	8260C	606220
460-180464-2	PWEXBM04137	Total/NA	Solid	8260C	606220
MB 460-606158/9	Method Blank	Total/NA	Solid	8260C	
LCS 460-606158/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-606158/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 606220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180464-1	PWEXBM04095	Total/NA	Solid	5035	
460-180464-2	PWEXBM04137	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 605596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180464-1	PWEXBM04095	Total/NA	Solid	3546	
460-180464-2	PWEXBM04137	Total/NA	Solid	3546	
MB 460-605596/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-605596/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-605596/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-605596/3-B	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 605669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180464-1	PWEXBM04095	Total/NA	Solid	8270D	605596
460-180464-2	PWEXBM04137	Total/NA	Solid	8270D	605596
MB 460-605596/1-A	Method Blank	Total/NA	Solid	8270D	605596
LCS 460-605596/2-A	Lab Control Sample	Total/NA	Solid	8270D	605596
LCS 460-605596/4-A	Lab Control Sample	Total/NA	Solid	8270D	605596
LCSD 460-605596/3-B	Lab Control Sample Dup	Total/NA	Solid	8270D	605596

General Chemistry

Analysis Batch: 605856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180464-1	PWEXBM04095	Total/NA	Solid	Moisture	
460-180464-2	PWEXBM04137	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 460-180464-1

Client Sample ID: PWEXBM04095

Date Collected: 04/24/19 14:49

Date Received: 04/26/19 10:00

Lab Sample ID: 460-180464-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	605856	04/28/19 00:50	APV	TAL EDI

Client Sample ID: PWEXBM04095

Date Collected: 04/24/19 14:49

Date Received: 04/26/19 10:00

Lab Sample ID: 460-180464-1

Matrix: Solid

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			606220	04/29/19 23:01	AVM	TAL EDI
Total/NA	Analysis	8260C		1	606158	04/30/19 02:27	VBP	TAL EDI
Total/NA	Prep	3546			605596	04/26/19 16:18	GRB	TAL EDI
Total/NA	Analysis	8270D		1	605669	04/27/19 00:57	YAH	TAL EDI

Client Sample ID: PWEXBM04137

Date Collected: 04/24/19 14:34

Date Received: 04/26/19 10:00

Lab Sample ID: 460-180464-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	605856	04/28/19 00:50	APV	TAL EDI

Client Sample ID: PWEXBM04137

Date Collected: 04/24/19 14:34

Date Received: 04/26/19 10:00

Lab Sample ID: 460-180464-2

Matrix: Solid

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			606220	04/29/19 23:02	AVM	TAL EDI
Total/NA	Analysis	8260C		1	606158	04/30/19 02:52	VBP	TAL EDI
Total/NA	Prep	3546			605596	04/26/19 16:18	GRB	TAL EDI
Total/NA	Analysis	8270D		1	605669	04/27/19 01:19	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

Job ID: 460-180464-1

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

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

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: 460-180464-1

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: 460-180464-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-180464-1	PWEXBM04095	Solid	04/24/19 14:49	04/26/19 10:00
460-180464-2	PWEXBM04137	Solid	04/24/19 14:34	04/26/19 10:00

Chain of Custody Record

Client Information Client Contact: George Hermance Company: AECOM 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:		Sampler: George Hermance Lab PM: Deyo, Melissa L Phone: 716-861-7882 E-Mail: melissa.deyo@testamericainc.com		COC No: 480-128476-28976.1 Page: Page 1 of 2 Job #: 190464	
Due Date Requested: 4/26/2019 TAT Requested (days): 48 hour per Melissa Deyo PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015558 SOW#:		Analysis Requested			
Sample Identification PWEXBM04095 PWEXBM04137		Sample Date 4/24/19 4/24/19	Sample Time 1449 1434	Sample Type (C=comp, G=grab) G G	Matrix (Viscous, Solid, Overweight, etc.) Solid Solid
Field Filtered Sample (Yes or No)		8270D - TCL SVOCs + 20 TICs		8260C - TCL VOCs + TICs	
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:		Total Number of Containers		Special Instructions/Note: -1 -2	
2-Day RUSH					
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/Time:		Method of Shipment:	
Relinquished by: George Hermance		Date/Time: 4/24/19		Company: AECOM	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.: 609676		Cooler Temperature(s) °C and Other Remarks:	

180464

IR Gun #



Cooler Temperatures

RAW		CORRECTED		RAW		CORRECTED	
	°C		°C		°C		°C
Cooler #1	2.6	2.2	°C	Cooler #4		°C	
Cooler #2		°C		Cooler #5		°C	
Cooler #3		°C		Cooler #6		°C	
				Cooler #7		°C	
				Cooler #8		°C	
				Cooler #9		°C	

[illegible]

If pH adjustments are required record the information below:

Volume of Preservative used (ml):

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.

Date: 7/26/19

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-180464-1

Login Number: 180464

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: Lysy, Susan

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	609676
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.	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	
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: 460-180465-1

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:
4/30/2019 4:17:08 PM

Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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: 460-180465-1

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 VOA TICs

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
F1	MS and/or MSD Recovery 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.

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: 460-180465-1

Job ID: 460-180465-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-180465-1

Receipt

The sample was received on 4/26/2019 10:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

Receipt Exceptions

The following sample was collected in an improper container: PWEXBM04092 (460-180465-1). VOC was collected as dirt in jar. Samples were not collected according to 5035L/5035A-L specifications.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 460-606328 was outside the method criteria for the following analytes: Dichlorodifluoromethane (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 (LCS) for analytical batch 460-606328 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCS 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-605595 and analytical batch 460-605671 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine.

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: 460-180465-1

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

Client Sample ID: PWEXBM04092

Lab Sample ID: 460-180465-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22		5.7	4.4	ug/Kg	1	☼	8260C	Total/NA
Benzene	5.1		1.1	0.30	ug/Kg	1	☼	8260C	Total/NA
Carbon disulfide	0.36	J	1.1	0.31	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	8.3		1.1	0.23	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	0.88	J	1.1	0.14	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	0.32	J	1.1	0.18	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.5		1.1	0.19	ug/Kg	1	☼	8260C	Total/NA
Styrene	0.29	J B	1.1	0.14	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.0	J	1.1	0.72	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	7.4		2.3	0.29	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	62	J F1	400	4.9	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	110	J F1	400	29	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	110	J F1	400	4.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	330	J F1	400	4.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	84	F1	40	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	12	J	40	10	ug/Kg	1	☼	8270D	Total/NA
Biphenyl	130	J F1	400	5.3	ug/Kg	1	☼	8270D	Total/NA
Carbazole	470	F1	400	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	51	J F1	400	6.7	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	510	F1	400	5.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	680	F1	400	5.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	350	J F1	400	5.4	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	1000	F1	400	6.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1500	F1	400	7.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	500	F1	400	9.9	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: 460-180465-1

Client Sample ID: PWEXBM04092

Lab Sample ID: 460-180465-1

Date Collected: 04/25/19 14:45

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

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	0.27	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.25	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.35	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,1,2-Trichloroethane	ND		1.1	0.20	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,1-Dichloroethane	ND		1.1	0.24	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,1-Dichloroethene	ND		1.1	0.26	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,2,4-Trichlorobenzene	ND		1.1	0.11	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.53	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,2-Dibromoethane	ND		1.1	0.21	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,2-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,2-Dichloroethane	ND		1.1	0.34	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,2-Dichloropropane	ND		1.1	0.49	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,3-Dichlorobenzene	ND		1.1	0.18	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
1,4-Dichlorobenzene	ND		1.1	0.11	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
2-Butanone (MEK)	ND		5.7	1.3	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
2-Hexanone	ND		5.7	0.90	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.7	0.76	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Acetone	22		5.7	4.4	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Benzene	5.1		1.1	0.30	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Bromodichloromethane	ND		1.1	0.30	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Bromoform	ND		1.1	0.49	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Bromomethane	ND		1.1	0.54	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Carbon disulfide	0.36 J		1.1	0.31	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Carbon tetrachloride	ND		1.1	0.21	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Chlorobenzene	ND		1.1	0.20	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Chloroethane	ND		1.1	0.60	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Chloroform	ND		1.1	0.37	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Chloromethane	ND		1.1	0.50	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
cis-1,2-Dichloroethene	ND		1.1	0.17	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
cis-1,3-Dichloropropene	ND		1.1	0.31	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Cyclohexane	ND		1.1	0.25	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Dibromochloromethane	ND		1.1	0.22	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Dichlorodifluoromethane	ND		1.1	0.39	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Ethylbenzene	8.3		1.1	0.23	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Isopropylbenzene	0.88 J		1.1	0.14	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Methyl acetate	ND *		5.7	4.9	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Methyl tert-butyl ether	ND		1.1	0.14	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Methylcyclohexane	0.32 J		1.1	0.18	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Methylene Chloride	1.5		1.1	0.19	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Styrene	0.29 J B		1.1	0.14	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Tetrachloroethene	ND		1.1	0.16	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Toluene	1.0 J		1.1	0.72	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
trans-1,2-Dichloroethene	ND		1.1	0.28	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
trans-1,3-Dichloropropene	ND		1.1	0.31	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Trichloroethene	ND		1.1	0.17	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Trichlorofluoromethane	ND		1.1	0.47	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Vinyl chloride	ND		1.1	0.63	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1
Xylenes, Total	7.4		2.3	0.29	ug/Kg	☼	04/29/19 23:03	04/30/19 12:37	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180465-1

Client Sample ID: PWEXBM04092

Lab Sample ID: 460-180465-1

Date Collected: 04/25/19 14:45

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Indane	34	T J N	ug/Kg	☼	13.11	496-11-7	04/29/19 23:03	04/30/19 12:37	1
Indene	30	T J N	ug/Kg	☼	13.34	95-13-6	04/29/19 23:03	04/30/19 12:37	1
Benzofuran, 7-methyl-	40	T J N	ug/Kg	☼	13.99	17059-52-8	04/29/19 23:03	04/30/19 12:37	1
Naphthalene	680	T J N	ug/Kg	☼	14.70	91-20-3	04/29/19 23:03	04/30/19 12:37	1
2-Benzothiophene #	45	T J N	ug/Kg	☼	14.77	270-82-6	04/29/19 23:03	04/30/19 12:37	1
Naphthalene, 2-methyl-	21	T J N	ug/Kg	☼	15.44	91-57-6	04/29/19 23:03	04/30/19 12:37	1
Naphthalene, 1-methyl-	69	T J N	ug/Kg	☼	15.57	90-12-0	04/29/19 23:03	04/30/19 12:37	1
Biphenyl	18	T J N	ug/Kg	☼	16.00	92-52-4	04/29/19 23:03	04/30/19 12:37	1
Naphthalene, 1,6-dimethyl-	16	T J N	ug/Kg	☼	16.26	575-43-9	04/29/19 23:03	04/30/19 12:37	1
Naphthalene, 1,7-dimethyl-	18	T J N	ug/Kg	☼	16.39	575-37-1	04/29/19 23:03	04/30/19 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135				04/29/19 23:03	04/30/19 12:37	1
4-Bromofluorobenzene	100		67 - 126				04/29/19 23:03	04/30/19 12:37	1
Dibromofluoromethane (Surr)	106		61 - 149				04/29/19 23:03	04/30/19 12:37	1
Toluene-d8 (Surr)	101		73 - 121				04/29/19 23:03	04/30/19 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND	F1	400	13	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2,4,6-Trichlorophenol	ND	F1	160	20	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2,4-Dichlorophenol	ND		160	8.4	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2,4-Dimethylphenol	ND	F1	400	17	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2,4-Dinitrophenol	ND	F1	320	190	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2,4-Dinitrotoluene	ND	F1	80	20	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2,6-Dinitrotoluene	ND	F1	80	13	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2-Chloronaphthalene	ND	F1	400	18	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2-Chlorophenol	ND	F1	400	5.6	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2-Methylnaphthalene	62	J F1	400	4.9	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2-Methylphenol	ND		400	6.4	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2-Nitroaniline	ND		400	15	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
2-Nitrophenol	ND	F1	400	13	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
3,3'-Dichlorobenzidine	ND	*	160	60	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
3-Nitroaniline	ND		400	21	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4,6-Dinitro-2-methylphenol	ND	F1	320	64	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4-Bromophenyl phenyl ether	ND	F1	400	5.1	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4-Chloro-3-methylphenol	ND		400	6.6	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4-Chloroaniline	ND		400	28	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4-Chlorophenyl phenyl ether	ND	F1	400	6.2	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4-Methylphenol	ND		400	6.8	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4-Nitroaniline	ND		400	15	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
4-Nitrophenol	ND		800	65	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Acenaphthene	110	J F1	400	29	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Acenaphthylene	110	J F1	400	4.1	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Acetophenone	ND	F1	400	6.4	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Anthracene	330	J F1	400	4.4	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Atrazine	ND	F1	160	10	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Benzaldehyde	ND		400	17	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Benzo[a]anthracene	84	F1	40	14	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Benzo[a]pyrene	ND	F1	40	11	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180465-1

Client Sample ID: PWEXBM04092

Lab Sample ID: 460-180465-1

Date Collected: 04/25/19 14:45

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	12	J	40	10	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Benzo[g,h,i]perylene	ND		400	12	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Benzo[k]fluoranthene	ND	F1	40	7.8	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Biphenyl	130	J F1	400	5.3	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
bis (2-chloroisopropyl) ether	ND		400	7.2	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Bis(2-chloroethoxy)methane	ND	F1	400	14	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Bis(2-chloroethyl)ether	ND	F1	40	4.8	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Bis(2-ethylhexyl) phthalate	ND	F1	400	21	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Butyl benzyl phthalate	ND	F1	400	19	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Caprolactam	ND		400	24	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Carbazole	470	F1	400	4.6	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Chrysene	51	J F1	400	6.7	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Dibenz(a,h)anthracene	ND		40	17	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Dibenzofuran	510	F1	400	5.6	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Diethyl phthalate	ND	F1	400	5.7	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Dimethyl phthalate	ND	F1	400	4.8	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Di-n-butyl phthalate	ND	F1	400	70	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Di-n-octyl phthalate	ND		400	21	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Fluoranthene	680	F1	400	5.1	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Fluorene	350	J F1	400	5.4	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Hexachlorobenzene	ND		40	5.8	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Hexachlorobutadiene	ND	F1	80	8.4	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Hexachlorocyclopentadiene	ND	F1	400	35	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Hexachloroethane	ND	F1	40	6.1	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Indeno[1,2,3-cd]pyrene	ND		40	15	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Isophorone	ND	F1	160	10	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Naphthalene	1000	F1	400	6.9	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Nitrobenzene	ND	F1	40	9.5	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
N-Nitrosodi-n-propylamine	ND	F1	40	6.3	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
N-Nitrosodiphenylamine	ND	F1	400	7.6	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Pentachlorophenol	ND	F1	320	81	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Phenanthrene	1500	F1	400	7.0	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Phenol	ND		400	5.9	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1
Pyrene	500	F1	400	9.9	ug/Kg	☼	04/26/19 16:15	04/26/19 22:54	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/26/19 16:15	04/26/19 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		10 - 137	04/26/19 16:15	04/26/19 22:54	1
2-Fluorobiphenyl (Surr)	72		29 - 107	04/26/19 16:15	04/26/19 22:54	1
2-Fluorophenol (Surr)	74		20 - 115	04/26/19 16:15	04/26/19 22:54	1
Nitrobenzene-d5 (Surr)	74		25 - 113	04/26/19 16:15	04/26/19 22:54	1
Phenol-d5 (Surr)	74		28 - 109	04/26/19 16:15	04/26/19 22:54	1
Terphenyl-d14 (Surr)	70		27 - 123	04/26/19 16:15	04/26/19 22:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.6		1.0	1.0	%	-		04/28/19 00:50	1
Percent Solids	83.4		1.0	1.0	%	-		04/28/19 00:50	1

Eurofins TestAmerica, Edison

Surrogate Summary

Client: AECOM

Job ID: 460-180465-1

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

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)
460-180465-1	PWEXBM04092	106	100	106	101
LCS 460-606328/3	Lab Control Sample	108	103	106	104
LCSD 460-606328/4	Lab Control Sample Dup	105	104	105	104
MB 460-606328/8	Method Blank	110	101	106	99

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)
460-180465-1	PWEXBM04092	76	72	74	74	74	70
460-180465-1 MS	PWEXBM04092	65	60	63	60	65	57
460-180465-1 MSD	PWEXBM04092	64	60	63	61	65	57
LCS 460-605595/2-A	Lab Control Sample	78	68	71	67	74	69
LCS 460-605595/4-A	Lab Control Sample	94	84	92	87	92	84
LCSD 460-605595/3-A	Lab Control Sample Dup	85	76	81	77	82	75
MB 460-605595/1-A	Method Blank	76	71	77	73	75	71

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: 460-180465-1

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

Lab Sample ID: MB 460-606328/8

Matrix: Solid

Analysis Batch: 606328

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			04/30/19 12:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			04/30/19 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			04/30/19 12:11	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			04/30/19 12:11	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			04/30/19 12:11	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			04/30/19 12:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			04/30/19 12:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			04/30/19 12:11	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			04/30/19 12:11	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			04/30/19 12:11	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			04/30/19 12:11	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			04/30/19 12:11	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			04/30/19 12:11	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			04/30/19 12:11	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			04/30/19 12:11	1
2-Hexanone	ND		5.0	0.78	ug/Kg			04/30/19 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			04/30/19 12:11	1
Acetone	ND		5.0	3.8	ug/Kg			04/30/19 12:11	1
Benzene	ND		1.0	0.26	ug/Kg			04/30/19 12:11	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			04/30/19 12:11	1
Bromoform	ND		1.0	0.43	ug/Kg			04/30/19 12:11	1
Bromomethane	ND		1.0	0.47	ug/Kg			04/30/19 12:11	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			04/30/19 12:11	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			04/30/19 12:11	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			04/30/19 12:11	1
Chloroethane	ND		1.0	0.52	ug/Kg			04/30/19 12:11	1
Chloroform	ND		1.0	0.32	ug/Kg			04/30/19 12:11	1
Chloromethane	ND		1.0	0.44	ug/Kg			04/30/19 12:11	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			04/30/19 12:11	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			04/30/19 12:11	1
Cyclohexane	ND		1.0	0.22	ug/Kg			04/30/19 12:11	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			04/30/19 12:11	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			04/30/19 12:11	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			04/30/19 12:11	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			04/30/19 12:11	1
Methyl acetate	ND		5.0	4.3	ug/Kg			04/30/19 12:11	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			04/30/19 12:11	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			04/30/19 12:11	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			04/30/19 12:11	1
Styrene	0.170	J	1.0	0.12	ug/Kg			04/30/19 12:11	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			04/30/19 12:11	1
Toluene	ND		1.0	0.63	ug/Kg			04/30/19 12:11	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			04/30/19 12:11	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			04/30/19 12:11	1
Trichloroethene	ND		1.0	0.14	ug/Kg			04/30/19 12:11	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			04/30/19 12:11	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			04/30/19 12:11	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			04/30/19 12:11	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: MB 460-606328/8

Matrix: Solid

Analysis Batch: 606328

Client Sample ID: Method Blank

Prep Type: Total/NA

<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>		ug/Kg					04/30/19 12:11	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	110		78 - 135					04/30/19 12:11	1
4-Bromofluorobenzene	101		67 - 126					04/30/19 12:11	1
Dibromofluoromethane (Surr)	106		61 - 149					04/30/19 12:11	1
Toluene-d8 (Surr)	99		73 - 121					04/30/19 12:11	1

Lab Sample ID: LCS 460-606328/3

Matrix: Solid

Analysis Batch: 606328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1,1-Trichloroethane	20.0	21.4		ug/Kg		107	80 - 125
1,1,2,2-Tetrachloroethane	20.0	22.0		ug/Kg		110	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.0		ug/Kg		110	78 - 132
1,1,2-Trichloroethane	20.0	22.6		ug/Kg		113	76 - 124
1,1-Dichloroethane	20.0	22.2		ug/Kg		111	80 - 124
1,1-Dichloroethene	20.0	21.9		ug/Kg		110	79 - 132
1,2,4-Trichlorobenzene	20.0	21.5		ug/Kg		107	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	21.5		ug/Kg		108	65 - 129
1,2-Dibromoethane	20.0	23.3		ug/Kg		117	80 - 122
1,2-Dichlorobenzene	20.0	21.2		ug/Kg		106	80 - 121
1,2-Dichloroethane	20.0	21.6		ug/Kg		108	68 - 120
1,2-Dichloropropane	20.0	22.4		ug/Kg		112	77 - 124
1,3-Dichlorobenzene	20.0	20.9		ug/Kg		104	79 - 124
1,4-Dichlorobenzene	20.0	21.2		ug/Kg		106	79 - 121
2-Butanone (MEK)	100	100		ug/Kg		100	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	101		ug/Kg		101	75 - 120
Benzene	20.0	22.3		ug/Kg		112	75 - 127
Bromodichloromethane	20.0	21.7		ug/Kg		109	76 - 129
Bromoform	20.0	20.8		ug/Kg		104	19 - 150
Bromomethane	20.0	20.3		ug/Kg		102	59 - 136
Carbon disulfide	20.0	21.0		ug/Kg		105	74 - 130
Carbon tetrachloride	20.0	20.3		ug/Kg		102	77 - 138
Chlorobenzene	20.0	21.3		ug/Kg		107	80 - 120
Chloroethane	20.0	20.5		ug/Kg		102	50 - 139
Chloroform	20.0	22.7		ug/Kg		113	80 - 122
Chloromethane	20.0	21.3		ug/Kg		107	66 - 128
cis-1,2-Dichloroethene	20.0	22.5		ug/Kg		112	80 - 123
cis-1,3-Dichloropropene	20.0	21.4		ug/Kg		107	75 - 124
Cyclohexane	20.0	21.8		ug/Kg		109	67 - 135
Dibromochloromethane	20.0	21.1		ug/Kg		106	67 - 143
Dichlorodifluoromethane	20.0	19.7		ug/Kg		98	72 - 127
Ethylbenzene	20.0	21.1		ug/Kg		105	79 - 124

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: LCS 460-606328/3

Matrix: Solid

Analysis Batch: 606328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	20.0	21.8		ug/Kg		109	80 - 125
Methyl acetate	40.0	50.3	*	ug/Kg		126	73 - 123
Methyl tert-butyl ether	20.0	21.8		ug/Kg		109	80 - 120
Methylcyclohexane	20.0	21.6		ug/Kg		108	71 - 137
Methylene Chloride	20.0	22.2		ug/Kg		111	79 - 128
Styrene	20.0	21.5		ug/Kg		107	78 - 123
Tetrachloroethene	20.0	21.1		ug/Kg		105	73 - 130
Toluene	20.0	21.4		ug/Kg		107	75 - 122
trans-1,2-Dichloroethene	20.0	22.3		ug/Kg		111	80 - 129
trans-1,3-Dichloropropene	20.0	20.7		ug/Kg		103	72 - 121
Trichloroethene	20.0	21.8		ug/Kg		109	79 - 122
Trichlorofluoromethane	20.0	22.5		ug/Kg		112	68 - 136
Vinyl chloride	20.0	20.0		ug/Kg		100	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		78 - 135
4-Bromofluorobenzene	103		67 - 126
Dibromofluoromethane (Surr)	106		61 - 149
Toluene-d8 (Surr)	104		73 - 121

Lab Sample ID: LCSD 460-606328/4

Matrix: Solid

Analysis Batch: 606328

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	21.1		ug/Kg		106	80 - 125	1	30
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/Kg		106	72 - 131	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.8		ug/Kg		114	78 - 132	4	30
1,1,2-Trichloroethane	20.0	22.0		ug/Kg		110	76 - 124	3	30
1,1-Dichloroethane	20.0	22.6		ug/Kg		113	80 - 124	2	30
1,1-Dichloroethene	20.0	22.1		ug/Kg		110	79 - 132	1	30
1,2,4-Trichlorobenzene	20.0	22.5		ug/Kg		113	74 - 124	5	30
1,2-Dibromo-3-Chloropropane	20.0	20.1		ug/Kg		101	65 - 129	7	30
1,2-Dibromoethane	20.0	22.3		ug/Kg		112	80 - 122	4	30
1,2-Dichlorobenzene	20.0	22.4		ug/Kg		112	80 - 121	6	30
1,2-Dichloroethane	20.0	20.5		ug/Kg		102	68 - 120	5	30
1,2-Dichloropropane	20.0	22.7		ug/Kg		114	77 - 124	1	30
1,3-Dichlorobenzene	20.0	22.1		ug/Kg		111	79 - 124	6	30
1,4-Dichlorobenzene	20.0	22.1		ug/Kg		110	79 - 121	4	30
2-Butanone (MEK)	100	108		ug/Kg		108	61 - 140	7	30
2-Hexanone	100	102		ug/Kg		102	78 - 120	4	30
4-Methyl-2-pentanone (MIBK)	100	105		ug/Kg		105	80 - 120	1	30
Acetone	100	103		ug/Kg		103	75 - 120	2	30
Benzene	20.0	22.8		ug/Kg		114	75 - 127	2	30
Bromodichloromethane	20.0	21.2		ug/Kg		106	76 - 129	3	30
Bromoform	20.0	20.0		ug/Kg		100	19 - 150	4	30
Bromomethane	20.0	19.6		ug/Kg		98	59 - 136	4	30
Carbon disulfide	20.0	21.3		ug/Kg		106	74 - 130	1	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: LCSD 460-606328/4

Matrix: Solid

Analysis Batch: 606328

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
Carbon tetrachloride	20.0	21.1		ug/Kg		106	77 - 138	4	30
Chlorobenzene	20.0	21.7		ug/Kg		108	80 - 120	2	30
Chloroethane	20.0	20.5		ug/Kg		102	50 - 139	0	30
Chloroform	20.0	22.6		ug/Kg		113	80 - 122	0	30
Chloromethane	20.0	19.8		ug/Kg		99	66 - 128	7	30
cis-1,2-Dichloroethene	20.0	22.1		ug/Kg		110	80 - 123	2	30
cis-1,3-Dichloropropene	20.0	21.3		ug/Kg		107	75 - 124	0	30
Cyclohexane	20.0	21.6		ug/Kg		108	67 - 135	1	30
Dibromochloromethane	20.0	20.4		ug/Kg		102	67 - 143	3	30
Dichlorodifluoromethane	20.0	18.1		ug/Kg		91	72 - 127	8	30
Ethylbenzene	20.0	22.0		ug/Kg		110	79 - 124	4	30
Isopropylbenzene	20.0	22.6		ug/Kg		113	80 - 125	4	30
Methyl acetate	40.0	44.8		ug/Kg		112	73 - 123	11	30
Methyl tert-butyl ether	20.0	20.9		ug/Kg		105	80 - 120	4	30
Methylcyclohexane	20.0	21.6		ug/Kg		108	71 - 137	0	30
Methylene Chloride	20.0	22.0		ug/Kg		110	79 - 128	1	30
Styrene	20.0	22.5		ug/Kg		112	78 - 123	4	30
Tetrachloroethene	20.0	21.6		ug/Kg		108	73 - 130	2	30
Toluene	20.0	21.6		ug/Kg		108	75 - 122	1	30
trans-1,2-Dichloroethene	20.0	22.5		ug/Kg		112	80 - 129	1	30
trans-1,3-Dichloropropene	20.0	20.4		ug/Kg		102	72 - 121	1	30
Trichloroethene	20.0	21.7		ug/Kg		108	79 - 122	1	30
Trichlorofluoromethane	20.0	21.0		ug/Kg		105	68 - 136	7	30
Vinyl chloride	20.0	19.9		ug/Kg		100	70 - 134	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		78 - 135
4-Bromofluorobenzene	104		67 - 126
Dibromofluoromethane (Surr)	105		61 - 149
Toluene-d8 (Surr)	104		73 - 121

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

Lab Sample ID: MB 460-605595/1-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2-Chloronaphthalene	ND		330	15	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2-Chlorophenol	ND		330	4.6	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2-Methylphenol	ND		330	5.3	ug/Kg		04/26/19 16:15	04/26/19 21:46	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM

Job ID: 460-180465-1

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

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

Lab Sample ID: MB 460-605595/1-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		330	12	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
2-Nitrophenol	ND		330	11	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
3-Nitroaniline	ND		330	18	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4-Chloroaniline	ND		330	23	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4-Methylphenol	ND		330	5.6	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4-Nitroaniline	ND		330	12	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
4-Nitrophenol	ND		670	54	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Acenaphthene	ND		330	24	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Acenaphthylene	ND		330	3.4	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Acetophenone	ND		330	5.3	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Anthracene	ND		330	3.7	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Atrazine	ND		130	8.3	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Benzaldehyde	ND		330	14	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Benzo[a]anthracene	ND		33	12	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Biphenyl	ND		330	4.4	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Caprolactam	ND		330	20	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Carbazole	ND		330	3.9	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Chrysene	ND		330	5.6	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Dibenzofuran	ND		330	4.6	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Diethyl phthalate	ND		330	4.8	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Di-n-octyl phthalate	ND		330	18	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Fluoranthene	ND		330	4.3	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Fluorene	ND		330	4.5	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Hexachloroethane	ND		33	5.1	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Isophorone	ND		130	8.7	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Naphthalene	ND		330	5.7	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Nitrobenzene	ND		33	7.9	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		04/26/19 16:15	04/26/19 21:46	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: MB 460-605595/1-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 605595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Pentachlorophenol	ND		270	68	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Phenanthrene	ND		330	5.8	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Phenol	ND		330	4.9	ug/Kg		04/26/19 16:15	04/26/19 21:46	1
Pyrene	ND		330	8.2	ug/Kg		04/26/19 16:15	04/26/19 21:46	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				04/26/19 16:15	04/26/19 21:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		10 - 137	04/26/19 16:15	04/26/19 21:46	1
2-Fluorobiphenyl (Surr)	71		29 - 107	04/26/19 16:15	04/26/19 21:46	1
2-Fluorophenol (Surr)	77		20 - 115	04/26/19 16:15	04/26/19 21:46	1
Nitrobenzene-d5 (Surr)	73		25 - 113	04/26/19 16:15	04/26/19 21:46	1
Phenol-d5 (Surr)	75		28 - 109	04/26/19 16:15	04/26/19 21:46	1
Terphenyl-d14 (Surr)	71		27 - 123	04/26/19 16:15	04/26/19 21:46	1

Lab Sample ID: LCS 460-605595/2-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Rec. Limits
2,4,5-Trichlorophenol	3330	2480		ug/Kg		74	60 - 106
2,4,6-Trichlorophenol	3330	2450		ug/Kg		74	62 - 110
2,4-Dichlorophenol	3330	2490		ug/Kg		75	61 - 103
2,4-Dimethylphenol	3330	2450		ug/Kg		73	63 - 101
2,4-Dinitrophenol	6670	5870		ug/Kg		88	56 - 122
2,4-Dinitrotoluene	3330	2610		ug/Kg		78	66 - 122
2,6-Dinitrotoluene	3330	2570		ug/Kg		77	70 - 114
2-Chloronaphthalene	3330	2330		ug/Kg		70	63 - 107
2-Chlorophenol	3330	2390		ug/Kg		72	62 - 97
2-Methylnaphthalene	3330	2400		ug/Kg		72	65 - 104
2-Methylphenol	3330	2440		ug/Kg		73	61 - 103
2-Nitroaniline	3330	2420		ug/Kg		73	57 - 114
2-Nitrophenol	3330	2480		ug/Kg		74	65 - 104
3,3'-Dichlorobenzidine	3330	1580		ug/Kg		47	18 - 88
3-Nitroaniline	3330	1720		ug/Kg		52	30 - 94
4,6-Dinitro-2-methylphenol	6670	5820		ug/Kg		87	67 - 120
4-Bromophenyl phenyl ether	3330	2360		ug/Kg		71	59 - 122
4-Chloro-3-methylphenol	3330	2530		ug/Kg		76	62 - 111
4-Chloroaniline	3330	1710		ug/Kg		51	18 - 94
4-Chlorophenyl phenyl ether	3330	2400		ug/Kg		72	66 - 110
4-Methylphenol	3330	2490		ug/Kg		75	61 - 105
4-Nitroaniline	3330	2250		ug/Kg		67	49 - 118
4-Nitrophenol	6670	5190		ug/Kg		78	43 - 141
Acenaphthene	3330	2360		ug/Kg		71	62 - 108
Acenaphthylene	3330	2390		ug/Kg		72	67 - 107
Acetophenone	3330	2350		ug/Kg		71	60 - 109

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: LCS 460-605595/2-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	3330	2410		ug/Kg		72	69 - 111
Benzo[a]anthracene	3330	2390		ug/Kg		72	68 - 110
Benzo[a]pyrene	3330	2660		ug/Kg		80	72 - 115
Benzo[b]fluoranthene	3330	2860		ug/Kg		86	69 - 119
Benzo[g,h,i]perylene	3330	2560		ug/Kg		77	54 - 128
Benzo[k]fluoranthene	3330	2460		ug/Kg		74	70 - 115
Biphenyl	3330	2330		ug/Kg		70	64 - 108
bis (2-chloroisopropyl) ether	3330	2170		ug/Kg		65	39 - 122
Bis(2-chloroethoxy)methane	3330	2300		ug/Kg		69	65 - 106
Bis(2-chloroethyl)ether	3330	2340		ug/Kg		70	64 - 105
Bis(2-ethylhexyl) phthalate	3330	2520		ug/Kg		76	63 - 125
Butyl benzyl phthalate	3330	2500		ug/Kg		75	65 - 125
Carbazole	3330	2400		ug/Kg		72	66 - 115
Chrysene	3330	2480		ug/Kg		74	70 - 111
Dibenz(a,h)anthracene	3330	2940		ug/Kg		88	60 - 130
Dibenzofuran	3330	2380		ug/Kg		71	67 - 107
Diethyl phthalate	3330	2440		ug/Kg		73	66 - 117
Dimethyl phthalate	3330	2450		ug/Kg		73	68 - 112
Di-n-butyl phthalate	3330	2490		ug/Kg		75	67 - 119
Di-n-octyl phthalate	3330	2640		ug/Kg		79	57 - 138
Fluoranthene	3330	2430		ug/Kg		73	64 - 114
Fluorene	3330	2400		ug/Kg		72	66 - 110
Hexachlorobenzene	3330	2460		ug/Kg		74	57 - 128
Hexachlorobutadiene	3330	2230		ug/Kg		67	60 - 108
Hexachlorocyclopentadiene	3330	2260		ug/Kg		68	50 - 129
Hexachloroethane	3330	2220		ug/Kg		67	63 - 99
Indeno[1,2,3-cd]pyrene	3330	2760		ug/Kg		83	53 - 137
Isophorone	3330	2330		ug/Kg		70	68 - 111
Naphthalene	3330	2290		ug/Kg		69	65 - 102
Nitrobenzene	3330	2420		ug/Kg		73	66 - 108
N-Nitrosodi-n-propylamine	3330	2450		ug/Kg		74	63 - 117
N-Nitrosodiphenylamine	3330	2390		ug/Kg		72	65 - 114
Pentachlorophenol	6670	5230		ug/Kg		78	56 - 116
Phenanthrene	3330	2380		ug/Kg		71	68 - 111
Phenol	3330	2480		ug/Kg		75	58 - 103
Pyrene	3330	2450		ug/Kg		73	64 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		10 - 137
2-Fluorobiphenyl (Surr)	68		29 - 107
2-Fluorophenol (Surr)	71		20 - 115
Nitrobenzene-d5 (Surr)	67		25 - 113
Phenol-d5 (Surr)	74		28 - 109
Terphenyl-d14 (Surr)	69		27 - 123

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: LCS 460-605595/4-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	5700		ug/Kg		86	62 - 137
Benzaldehyde	6670	4970		ug/Kg		75	52 - 113
Caprolactam	6670	6770		ug/Kg		102	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	94		10 - 137
2-Fluorobiphenyl (Surr)	84		29 - 107
2-Fluorophenol (Surr)	92		20 - 115
Nitrobenzene-d5 (Surr)	87		25 - 113
Phenol-d5 (Surr)	92		28 - 109
Terphenyl-d14 (Surr)	84		27 - 123

Lab Sample ID: LCSD 460-605595/3-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
2,4,5-Trichlorophenol	3330	2630		ug/Kg		79	60 - 106	6	30
2,4,6-Trichlorophenol	3330	2720		ug/Kg		82	62 - 110	10	30
2,4-Dichlorophenol	3330	2740		ug/Kg		82	61 - 103	10	30
2,4-Dimethylphenol	3330	2680		ug/Kg		80	63 - 101	9	30
2,4-Dinitrophenol	6670	6420		ug/Kg		96	56 - 122	9	30
2,4-Dinitrotoluene	3330	2870		ug/Kg		86	66 - 122	9	30
2,6-Dinitrotoluene	3330	2790		ug/Kg		84	70 - 114	8	30
2-Chloronaphthalene	3330	2580		ug/Kg		78	63 - 107	10	30
2-Chlorophenol	3330	2670		ug/Kg		80	62 - 97	11	30
2-Methylnaphthalene	3330	2660		ug/Kg		80	65 - 104	10	30
2-Methylphenol	3330	2700		ug/Kg		81	61 - 103	10	30
2-Nitroaniline	3330	2630		ug/Kg		79	57 - 114	8	30
2-Nitrophenol	3330	2740		ug/Kg		82	65 - 104	10	30
3,3'-Dichlorobenzidine	3330	1130	*	ug/Kg		34	18 - 88	33	30
3-Nitroaniline	3330	1270		ug/Kg		38	30 - 94	30	30
4,6-Dinitro-2-methylphenol	6670	6300		ug/Kg		95	67 - 120	8	30
4-Bromophenyl phenyl ether	3330	2600		ug/Kg		78	59 - 122	9	30
4-Chloro-3-methylphenol	3330	2770		ug/Kg		83	62 - 111	9	30
4-Chloroaniline	3330	1460		ug/Kg		44	18 - 94	15	30
4-Chlorophenyl phenyl ether	3330	2620		ug/Kg		78	66 - 110	9	30
4-Methylphenol	3330	2730		ug/Kg		82	61 - 105	9	30
4-Nitroaniline	3330	2320		ug/Kg		69	49 - 118	3	30
4-Nitrophenol	6670	5720		ug/Kg		86	43 - 141	10	30
Acenaphthene	3330	2600		ug/Kg		78	62 - 108	9	30
Acenaphthylene	3330	2630		ug/Kg		79	67 - 107	10	30
Acetophenone	3330	2640		ug/Kg		79	60 - 109	12	30
Anthracene	3330	2580		ug/Kg		77	69 - 111	7	30
Benzo[a]anthracene	3330	2540		ug/Kg		76	68 - 110	6	30
Benzo[a]pyrene	3330	2850		ug/Kg		86	72 - 115	7	30
Benzo[b]fluoranthene	3330	2970		ug/Kg		89	69 - 119	4	30
Benzo[g,h,i]perylene	3330	2750		ug/Kg		83	54 - 128	7	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: LCSD 460-605595/3-A

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene	3330	2690		ug/Kg		81	70 - 115	9	30
Biphenyl	3330	2570		ug/Kg		77	64 - 108	10	30
bis (2-chloroisopropyl) ether	3330	2500		ug/Kg		75	39 - 122	14	30
Bis(2-chloroethoxy)methane	3330	2550		ug/Kg		76	65 - 106	10	30
Bis(2-chloroethyl)ether	3330	2650		ug/Kg		79	64 - 105	12	30
Bis(2-ethylhexyl) phthalate	3330	2700		ug/Kg		81	63 - 125	7	30
Butyl benzyl phthalate	3330	2680		ug/Kg		80	65 - 125	7	30
Carbazole	3330	2590		ug/Kg		78	66 - 115	8	30
Chrysene	3330	2570		ug/Kg		77	70 - 111	3	30
Dibenz(a,h)anthracene	3330	3150		ug/Kg		95	60 - 130	7	30
Dibenzofuran	3330	2610		ug/Kg		78	67 - 107	10	30
Diethyl phthalate	3330	2650		ug/Kg		80	66 - 117	8	30
Dimethyl phthalate	3330	2650		ug/Kg		79	68 - 112	8	30
Di-n-butyl phthalate	3330	2690		ug/Kg		81	67 - 119	8	30
Di-n-octyl phthalate	3330	2790		ug/Kg		84	57 - 138	6	30
Fluoranthene	3330	2640		ug/Kg		79	64 - 114	8	30
Fluorene	3330	2590		ug/Kg		78	66 - 110	8	30
Hexachlorobenzene	3330	2650		ug/Kg		80	57 - 128	8	30
Hexachlorobutadiene	3330	2570		ug/Kg		77	60 - 108	14	30
Hexachlorocyclopentadiene	3330	2630		ug/Kg		79	50 - 129	15	30
Hexachloroethane	3330	2660		ug/Kg		80	63 - 99	18	30
Indeno[1,2,3-cd]pyrene	3330	3010		ug/Kg		90	53 - 137	9	30
Isophorone	3330	2570		ug/Kg		77	68 - 111	9	30
Naphthalene	3330	2570		ug/Kg		77	65 - 102	12	30
Nitrobenzene	3330	2740		ug/Kg		82	66 - 108	12	30
N-Nitrosodi-n-propylamine	3330	2700		ug/Kg		81	63 - 117	10	30
N-Nitrosodiphenylamine	3330	2590		ug/Kg		78	65 - 114	8	30
Pentachlorophenol	6670	5680		ug/Kg		85	56 - 116	8	30
Phenanthrene	3330	2560		ug/Kg		77	68 - 111	7	30
Phenol	3330	2900		ug/Kg		87	58 - 103	16	30
Pyrene	3330	2600		ug/Kg		78	64 - 121	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		10 - 137
2-Fluorobiphenyl (Surr)	76		29 - 107
2-Fluorophenol (Surr)	81		20 - 115
Nitrobenzene-d5 (Surr)	77		25 - 113
Phenol-d5 (Surr)	82		28 - 109
Terphenyl-d14 (Surr)	75		27 - 123

Lab Sample ID: 460-180465-1 MS

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: PWEXBM04092

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND	F1	3990	2340	F1	ug/Kg	☼	59	60 - 106
2,4,6-Trichlorophenol	ND	F1	3990	2410	F1	ug/Kg	☼	60	62 - 110
2,4-Dichlorophenol	ND		3990	2540		ug/Kg	☼	64	61 - 103

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: 460-180465-1 MS

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: PWEXBM04092

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	ND	F1	3990	2530		ug/Kg	☼	63	63 - 101
2,4-Dinitrophenol	ND	F1	7980	1230	F1	ug/Kg	☼	15	56 - 122
2,4-Dinitrotoluene	ND	F1	3990	2610	F1	ug/Kg	☼	65	66 - 122
2,6-Dinitrotoluene	ND	F1	3990	2580	F1	ug/Kg	☼	65	70 - 114
2-Chloronaphthalene	ND	F1	3990	2410	F1	ug/Kg	☼	60	63 - 107
2-Chlorophenol	ND	F1	3990	2470		ug/Kg	☼	62	62 - 97
2-Methylnaphthalene	62	J F1	3990	2520	F1	ug/Kg	☼	62	65 - 104
2-Methylphenol	ND		3990	2570		ug/Kg	☼	64	61 - 103
2-Nitroaniline	ND		3990	2480		ug/Kg	☼	62	57 - 114
2-Nitrophenol	ND	F1	3990	2150	F1	ug/Kg	☼	54	65 - 104
3,3'-Dichlorobenzidine	ND	*	3990	2430		ug/Kg	☼	61	18 - 88
3-Nitroaniline	ND		3990	2390		ug/Kg	☼	60	30 - 94
4,6-Dinitro-2-methylphenol	ND	F1	7980	2000	F1	ug/Kg	☼	25	67 - 120
4-Bromophenyl phenyl ether	ND	F1	3990	2350		ug/Kg	☼	59	59 - 122
4-Chloro-3-methylphenol	ND		3990	2560		ug/Kg	☼	64	62 - 111
4-Chloroaniline	ND		3990	1850		ug/Kg	☼	46	18 - 94
4-Chlorophenyl phenyl ether	ND	F1	3990	2450	F1	ug/Kg	☼	61	66 - 110
4-Methylphenol	ND		3990	2570		ug/Kg	☼	64	61 - 105
4-Nitroaniline	ND		3990	2300		ug/Kg	☼	58	49 - 118
4-Nitrophenol	ND		7980	4850		ug/Kg	☼	61	43 - 141
Acenaphthene	110	J F1	3990	2540	F1	ug/Kg	☼	61	62 - 108
Acenaphthylene	110	J F1	3990	2600	F1	ug/Kg	☼	62	67 - 107
Acetophenone	ND	F1	3990	2410		ug/Kg	☼	60	60 - 109
Anthracene	330	J F1	3990	2760	F1	ug/Kg	☼	61	69 - 111
Atrazine	ND	F1	7980	3680	F1	ug/Kg	☼	46	62 - 137
Benzaldehyde	ND		7980	4630		ug/Kg	☼	58	52 - 113
Benzo[a]anthracene	84	F1	3990	2550	F1	ug/Kg	☼	62	68 - 110
Benzo[a]pyrene	ND	F1	3990	2740	F1	ug/Kg	☼	69	72 - 115
Benzo[b]fluoranthene	12	J	3990	2910		ug/Kg	☼	73	69 - 119
Benzo[g,h,i]perylene	ND		3990	2550		ug/Kg	☼	64	54 - 128
Benzo[k]fluoranthene	ND	F1	3990	2480	F1	ug/Kg	☼	62	70 - 115
Biphenyl	130	J F1	3990	2540	F1	ug/Kg	☼	60	64 - 108
bis (2-chloroisopropyl) ether	ND		3990	2200		ug/Kg	☼	55	39 - 122
Bis(2-chloroethoxy)methane	ND	F1	3990	2400	F1	ug/Kg	☼	60	65 - 106
Bis(2-chloroethyl)ether	ND	F1	3990	2450	F1	ug/Kg	☼	61	64 - 105
Bis(2-ethylhexyl) phthalate	ND	F1	3990	2460	F1	ug/Kg	☼	62	63 - 125
Butyl benzyl phthalate	ND	F1	3990	2460	F1	ug/Kg	☼	62	65 - 125
Caprolactam	ND		7980	5080		ug/Kg	☼	64	53 - 148
Carbazole	470	F1	3990	2740	F1	ug/Kg	☼	57	66 - 115
Chrysene	51	J F1	3990	2550	F1	ug/Kg	☼	62	70 - 111
Dibenz(a,h)anthracene	ND		3990	3040		ug/Kg	☼	76	60 - 130
Dibenzofuran	510	F1	3990	2960	F1	ug/Kg	☼	61	67 - 107
Diethyl phthalate	ND	F1	3990	2430	F1	ug/Kg	☼	61	66 - 117
Dimethyl phthalate	ND	F1	3990	2460	F1	ug/Kg	☼	62	68 - 112
Di-n-butyl phthalate	ND	F1	3990	2450	F1	ug/Kg	☼	61	67 - 119
Di-n-octyl phthalate	ND		3990	2590		ug/Kg	☼	65	57 - 138
Fluoranthene	680	F1	3990	3230		ug/Kg	☼	64	64 - 114
Fluorene	350	J F1	3990	2840	F1	ug/Kg	☼	62	66 - 110
Hexachlorobenzene	ND		3990	2470		ug/Kg	☼	62	57 - 128

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: 460-180465-1 MS

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: PWEXBM04092

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	ND	F1	3990	2280	F1	ug/Kg	☼	57	60 - 108
Hexachlorocyclopentadiene	ND	F1	3990	1440	F1	ug/Kg	☼	36	50 - 129
Hexachloroethane	ND	F1	3990	2140	F1	ug/Kg	☼	54	63 - 99
Indeno[1,2,3-cd]pyrene	ND		3990	2750		ug/Kg	☼	69	53 - 137
Isophorone	ND	F1	3990	2380	F1	ug/Kg	☼	60	68 - 111
Naphthalene	1000	F1	3990	3480	F1	ug/Kg	☼	62	65 - 102
Nitrobenzene	ND	F1	3990	2440	F1	ug/Kg	☼	61	66 - 108
N-Nitrosodi-n-propylamine	ND	F1	3990	2490	F1	ug/Kg	☼	62	63 - 117
N-Nitrosodiphenylamine	ND	F1	3990	2420	F1	ug/Kg	☼	61	65 - 114
Pentachlorophenol	ND	F1	7980	3900	F1	ug/Kg	☼	49	56 - 116
Phenanthrene	1500	F1	3990	3960	F1	ug/Kg	☼	62	68 - 111
Phenol	ND		3990	2560		ug/Kg	☼	64	58 - 103
Pyrene	500	F1	3990	3050		ug/Kg	☼	64	64 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	65		10 - 137
2-Fluorobiphenyl (Surr)	60		29 - 107
2-Fluorophenol (Surr)	63		20 - 115
Nitrobenzene-d5 (Surr)	60		25 - 113
Phenol-d5 (Surr)	65		28 - 109
Terphenyl-d14 (Surr)	57		27 - 123

Lab Sample ID: 460-180465-1 MSD

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: PWEXBM04092

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND	F1	3990	2280	F1	ug/Kg	☼	57	60 - 106	2	30
2,4,6-Trichlorophenol	ND	F1	3990	2330	F1	ug/Kg	☼	58	62 - 110	4	30
2,4-Dichlorophenol	ND		3990	2490		ug/Kg	☼	62	61 - 103	2	30
2,4-Dimethylphenol	ND	F1	3990	2470	F1	ug/Kg	☼	62	63 - 101	2	30
2,4-Dinitrophenol	ND	F1	7980	1110	F1	ug/Kg	☼	14	56 - 122	10	30
2,4-Dinitrotoluene	ND	F1	3990	2580	F1	ug/Kg	☼	65	66 - 122	1	30
2,6-Dinitrotoluene	ND	F1	3990	2560	F1	ug/Kg	☼	64	70 - 114	1	30
2-Chloronaphthalene	ND	F1	3990	2350	F1	ug/Kg	☼	59	63 - 107	2	30
2-Chlorophenol	ND	F1	3990	2380	F1	ug/Kg	☼	60	62 - 97	4	30
2-Methylnaphthalene	62	J F1	3990	2500	F1	ug/Kg	☼	61	65 - 104	1	30
2-Methylphenol	ND		3990	2440		ug/Kg	☼	61	61 - 103	5	30
2-Nitroaniline	ND		3990	2390		ug/Kg	☼	60	57 - 114	4	30
2-Nitrophenol	ND	F1	3990	2110	F1	ug/Kg	☼	53	65 - 104	2	30
3,3'-Dichlorobenzidine	ND	*	3990	2370		ug/Kg	☼	59	18 - 88	3	30
3-Nitroaniline	ND		3990	2330		ug/Kg	☼	58	30 - 94	2	30
4,6-Dinitro-2-methylphenol	ND	F1	7980	1790	F1	ug/Kg	☼	22	67 - 120	11	30
4-Bromophenyl phenyl ether	ND	F1	3990	2310	F1	ug/Kg	☼	58	59 - 122	1	30
4-Chloro-3-methylphenol	ND		3990	2530		ug/Kg	☼	63	62 - 111	1	30
4-Chloroaniline	ND		3990	1950		ug/Kg	☼	49	18 - 94	5	30
4-Chlorophenyl phenyl ether	ND	F1	3990	2410	F1	ug/Kg	☼	60	66 - 110	2	30
4-Methylphenol	ND		3990	2490		ug/Kg	☼	62	61 - 105	3	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180465-1

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

Lab Sample ID: 460-180465-1 MSD

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: PWEXBM04092

Prep Type: Total/NA

Prep Batch: 605595

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitroaniline	ND		3990	2210		ug/Kg	☼	55	49 - 118	4	30
4-Nitrophenol	ND		7980	4650		ug/Kg	☼	58	43 - 141	4	30
Acenaphthene	110	J F1	3990	2470	F1	ug/Kg	☼	59	62 - 108	3	30
Acenaphthylene	110	J F1	3990	2530	F1	ug/Kg	☼	61	67 - 107	2	30
Acetophenone	ND	F1	3990	2350	F1	ug/Kg	☼	59	60 - 109	3	30
Anthracene	330	J F1	3990	2670	F1	ug/Kg	☼	59	69 - 111	3	30
Atrazine	ND	F1	7980	3680	F1	ug/Kg	☼	46	62 - 137	0	30
Benzaldehyde	ND		7980	4540		ug/Kg	☼	57	52 - 113	2	30
Benzo[a]anthracene	84	F1	3990	2460	F1	ug/Kg	☼	59	68 - 110	4	30
Benzo[a]pyrene	ND	F1	3990	2620	F1	ug/Kg	☼	66	72 - 115	5	30
Benzo[b]fluoranthene	12	J	3990	2870		ug/Kg	☼	72	69 - 119	1	30
Benzo[g,h,i]perylene	ND		3990	2480		ug/Kg	☼	62	54 - 128	3	30
Benzo[k]fluoranthene	ND	F1	3990	2350	F1	ug/Kg	☼	59	70 - 115	5	30
Biphenyl	130	J F1	3990	2460	F1	ug/Kg	☼	58	64 - 108	3	30
bis (2-chloroisopropyl) ether	ND		3990	2160		ug/Kg	☼	54	39 - 122	2	30
Bis(2-chloroethoxy)methane	ND	F1	3990	2330	F1	ug/Kg	☼	58	65 - 106	3	30
Bis(2-chloroethyl)ether	ND	F1	3990	2320	F1	ug/Kg	☼	58	64 - 105	6	30
Bis(2-ethylhexyl) phthalate	ND	F1	3990	2420	F1	ug/Kg	☼	61	63 - 125	2	30
Butyl benzyl phthalate	ND	F1	3990	2420	F1	ug/Kg	☼	61	65 - 125	2	30
Caprolactam	ND		7980	5040		ug/Kg	☼	63	53 - 148	1	30
Carbazole	470	F1	3990	2680	F1	ug/Kg	☼	55	66 - 115	3	30
Chrysene	51	J F1	3990	2420	F1	ug/Kg	☼	59	70 - 111	5	30
Dibenz(a,h)anthracene	ND		3990	2960		ug/Kg	☼	74	60 - 130	3	30
Dibenzofuran	510	F1	3990	2890	F1	ug/Kg	☼	60	67 - 107	2	30
Diethyl phthalate	ND	F1	3990	2400	F1	ug/Kg	☼	60	66 - 117	2	30
Dimethyl phthalate	ND	F1	3990	2400	F1	ug/Kg	☼	60	68 - 112	2	30
Di-n-butyl phthalate	ND	F1	3990	2400	F1	ug/Kg	☼	60	67 - 119	2	30
Di-n-octyl phthalate	ND		3990	2530		ug/Kg	☼	63	57 - 138	3	30
Fluoranthene	680	F1	3990	3150	F1	ug/Kg	☼	62	64 - 114	3	30
Fluorene	350	J F1	3990	2770	F1	ug/Kg	☼	61	66 - 110	2	30
Hexachlorobenzene	ND		3990	2400		ug/Kg	☼	60	57 - 128	3	30
Hexachlorobutadiene	ND	F1	3990	2250	F1	ug/Kg	☼	56	60 - 108	1	30
Hexachlorocyclopentadiene	ND	F1	3990	1360	F1	ug/Kg	☼	34	50 - 129	6	30
Hexachloroethane	ND	F1	3990	2110	F1	ug/Kg	☼	53	63 - 99	2	30
Indeno[1,2,3-cd]pyrene	ND		3990	2670		ug/Kg	☼	67	53 - 137	3	30
Isophorone	ND	F1	3990	2350	F1	ug/Kg	☼	59	68 - 111	1	30
Naphthalene	1000	F1	3990	3310	F1	ug/Kg	☼	58	65 - 102	5	30
Nitrobenzene	ND	F1	3990	2390	F1	ug/Kg	☼	60	66 - 108	2	30
N-Nitrosodi-n-propylamine	ND	F1	3990	2420	F1	ug/Kg	☼	61	63 - 117	3	30
N-Nitrosodiphenylamine	ND	F1	3990	2360	F1	ug/Kg	☼	59	65 - 114	3	30
Pentachlorophenol	ND	F1	7980	3720	F1	ug/Kg	☼	47	56 - 116	5	30
Phenanthrene	1500	F1	3990	3860	F1	ug/Kg	☼	59	68 - 111	3	30
Phenol	ND		3990	2490		ug/Kg	☼	62	58 - 103	3	30
Pyrene	500	F1	3990	2960	F1	ug/Kg	☼	62	64 - 121	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	64		10 - 137
2-Fluorobiphenyl (Surr)	60		29 - 107

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM

Job ID: 460-180465-1

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

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

Lab Sample ID: 460-180465-1 MSD

Matrix: Solid

Analysis Batch: 605671

Client Sample ID: PWEXBM04092

Prep Type: Total/NA

Prep Batch: 605595

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	63		20 - 115
Nitrobenzene-d5 (Surr)	61		25 - 113
Phenol-d5 (Surr)	65		28 - 109
Terphenyl-d14 (Surr)	57		27 - 123

QC Association Summary

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

Job ID: 460-180465-1

GC/MS VOA

Prep Batch: 606220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180465-1	PWEXBM04092	Total/NA	Solid	5035	

Analysis Batch: 606328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180465-1	PWEXBM04092	Total/NA	Solid	8260C	606220
MB 460-606328/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-606328/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-606328/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 605595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180465-1	PWEXBM04092	Total/NA	Solid	3546	
MB 460-605595/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-605595/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-605595/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-605595/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-180465-1 MS	PWEXBM04092	Total/NA	Solid	3546	
460-180465-1 MSD	PWEXBM04092	Total/NA	Solid	3546	

Analysis Batch: 605671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180465-1	PWEXBM04092	Total/NA	Solid	8270D	605595
MB 460-605595/1-A	Method Blank	Total/NA	Solid	8270D	605595
LCS 460-605595/2-A	Lab Control Sample	Total/NA	Solid	8270D	605595
LCS 460-605595/4-A	Lab Control Sample	Total/NA	Solid	8270D	605595
LCSD 460-605595/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	605595
460-180465-1 MS	PWEXBM04092	Total/NA	Solid	8270D	605595
460-180465-1 MSD	PWEXBM04092	Total/NA	Solid	8270D	605595

General Chemistry

Analysis Batch: 605856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180465-1	PWEXBM04092	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM

Job ID: 460-180465-1

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

Client Sample ID: PWEXBM04092

Lab Sample ID: 460-180465-1

Date Collected: 04/25/19 14:45

Matrix: Solid

Date Received: 04/26/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	605856	04/28/19 00:50	APV	TAL EDI

Client Sample ID: PWEXBM04092

Lab Sample ID: 460-180465-1

Date Collected: 04/25/19 14:45

Matrix: Solid

Date Received: 04/26/19 10:00

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			606220	04/29/19 23:03	AVM	TAL EDI
Total/NA	Analysis	8260C		1	606328	04/30/19 12:37	EMM	TAL EDI
Total/NA	Prep	3546			605595	04/26/19 16:15	GRB	TAL EDI
Total/NA	Analysis	8270D		1	605671	04/26/19 22:54	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

Job ID: 460-180465-1

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

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

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: 460-180465-1

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: 460-180465-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-180465-1	PWEXBM04092	Solid	04/25/19 14:45	04/26/19 10:00

TestAmerica Buffalo

777 Durham Drive
Edison, NJ 08817
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: George Hermance Company: AECOM 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:		Sampler: George Hermance Lab PM: Deyo, Melissa L Phone: 716-861-7882 E-Mail: melissa.deyo@testamericainc.com		Carrier Tracking No(s): COC No: 480-128476-28976.1 Page: Page 1 of 2 Job #: 180465	
Due Date Requested: 4/30/2019 TAT Requested (days): 48 Hour per Melissa Deyo PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015558 SSO#:		Analysis Requested			
Sample Identification PWEXBM04092  480-180465 Chain of Custody		Sample Date 4/25/19	Sample Time 1445	Sample Type (C=comp, G=grab) G	Matrix (W=water, S=solid, O=other) Solid
Field Filled Sample (Yes or No)		8270 - TCL SVOCs + 20 TICs N	8260C - TCL VOCs + TICs N	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: 2-DAY RUSH			
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/Reinforced by:		Date/Time: 4/25/19 1900		Date/Time: 4/26/19 10:00	
Relinquished by: George Hermance		Company: AECOM		Company: AECOM	
Relinquished by:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seals Intact:		Custody Seal No.: 6045559		Cooler Temperature(s) °C and Other Remarks: 1.7°C	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-180465-1

Login Number: 180465

List Number: 1

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	648559
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.	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	
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

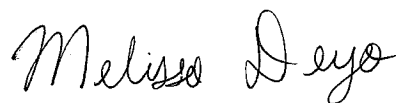
Laboratory Job ID: 460-180726-1

Client Project/Site: 60584654, Penn Yan Former MGP Phase 2
Revision: 1

For:

AECOM
40 British American Blvd
Latham, New York 12110

Attn: Mr. Matt Thorpe



Authorized for release by:
5/3/2019 8:11:41 AM

Melissa Deyo, Project Manager I
(716)504-9874
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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: 460-180726-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

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

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
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: 460-180726-1

Job ID: 460-180726-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-180726-1

Revision I

This report was revised in order to correct a sample ID.

Receipt

The samples were received on 4/30/2019 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.2° C.

Receipt Exceptions

The following samples were collected in an improper container: PWEXBM04097 (460-180726-1) and PWEXBM04141 (460-180726-2). VOCs were collected as dirt in jar. Samples were not collected according to 5035L/5035A-L specifications.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No container total recorded on the COC for sample #2. COC is marked 1 of 2 but no second page was received.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-606745 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; 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) associated with batch 460-606541 recovered above the upper control limit for Indeno[1,2,3-cd]pyrene and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; 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.

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: 460-180726-1

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

Client Sample ID: PWEXBM04097

Lab Sample ID: 460-180726-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	15		6.2	4.7	ug/Kg	1		✖	8260C	Total/NA
Carbon disulfide	0.66	J	1.2	0.33	ug/Kg	1		✖	8260C	Total/NA
Carbon tetrachloride	2.5	B	1.2	0.23	ug/Kg	1		✖	8260C	Total/NA
Xylenes, Total	0.48	J	2.5	0.32	ug/Kg	1		✖	8260C	Total/NA
2-Methylnaphthalene	9.7	J	380	4.8	ug/Kg	1		✖	8270D	Total/NA
Acenaphthene	46	J	380	28	ug/Kg	1		✖	8270D	Total/NA
Benzo[b]fluoranthene	11	J	38	9.9	ug/Kg	1		✖	8270D	Total/NA
Carbazole	12	J	380	4.5	ug/Kg	1		✖	8270D	Total/NA
Dibenzofuran	40	J	380	5.4	ug/Kg	1		✖	8270D	Total/NA
Fluoranthene	27	J	380	5.0	ug/Kg	1		✖	8270D	Total/NA
Fluorene	73	J	380	5.2	ug/Kg	1		✖	8270D	Total/NA
Naphthalene	24	J	380	6.6	ug/Kg	1		✖	8270D	Total/NA
Phenanthrene	27	J	380	6.7	ug/Kg	1		✖	8270D	Total/NA
Pyrene	26	J	380	9.5	ug/Kg	1		✖	8270D	Total/NA

Client Sample ID: PWEXBM04141

Lab Sample ID: 460-180726-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	9.8		5.0	3.8	ug/Kg	1		✖	8260C	Total/NA
Benzene	0.64	J	0.99	0.26	ug/Kg	1		✖	8260C	Total/NA
Carbon disulfide	0.27	J	0.99	0.26	ug/Kg	1		✖	8260C	Total/NA
Carbon tetrachloride	1.6	B	0.99	0.18	ug/Kg	1		✖	8260C	Total/NA
Ethylbenzene	0.49	J	0.99	0.20	ug/Kg	1		✖	8260C	Total/NA
Isopropylbenzene	0.21	J	0.99	0.13	ug/Kg	1		✖	8260C	Total/NA
Xylenes, Total	1.7	J	2.0	0.25	ug/Kg	1		✖	8260C	Total/NA
2-Methylnaphthalene	12	J	380	4.8	ug/Kg	1		✖	8270D	Total/NA
Acenaphthene	78	J	380	28	ug/Kg	1		✖	8270D	Total/NA
Carbazole	25	J	380	4.5	ug/Kg	1		✖	8270D	Total/NA
Dibenzofuran	47	J	380	5.4	ug/Kg	1		✖	8270D	Total/NA
Fluoranthene	13	J	380	5.0	ug/Kg	1		✖	8270D	Total/NA
Fluorene	43	J	380	5.2	ug/Kg	1		✖	8270D	Total/NA
Naphthalene	42	J	380	6.6	ug/Kg	1		✖	8270D	Total/NA
Phenanthrene	34	J	380	6.7	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: 460-180726-1

Client Sample ID: PWEXBM04097

Lab Sample ID: 460-180726-1

Date Collected: 04/29/19 11:52

Matrix: Solid

Date Received: 04/30/19 09:05

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.2	0.29	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.27	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.2	0.38	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,1,2-Trichloroethane	ND		1.2	0.22	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,1-Dichloroethane	ND		1.2	0.26	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,1-Dichloroethene	ND		1.2	0.28	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,2,4-Trichlorobenzene	ND		1.2	0.11	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,2-Dibromo-3-Chloropropane	ND		1.2	0.57	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,2-Dibromoethane	ND		1.2	0.22	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,2-Dichlorobenzene	ND		1.2	0.18	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,2-Dichloroethane	ND		1.2	0.37	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,2-Dichloropropane	ND		1.2	0.53	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,3-Dichlorobenzene	ND		1.2	0.20	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
1,4-Dichlorobenzene	ND		1.2	0.12	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
2-Butanone (MEK)	ND		6.2	1.4	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
2-Hexanone	ND		6.2	0.97	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		6.2	0.83	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Acetone	15		6.2	4.7	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Benzene	ND		1.2	0.32	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Bromodichloromethane	ND		1.2	0.32	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Bromoform	ND		1.2	0.53	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Bromomethane	ND		1.2	0.59	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Carbon disulfide	0.66	J	1.2	0.33	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Carbon tetrachloride	2.5	B	1.2	0.23	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Chlorobenzene	ND		1.2	0.22	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Chloroethane	ND		1.2	0.65	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Chloroform	ND		1.2	0.40	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Chloromethane	ND		1.2	0.54	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
cis-1,2-Dichloroethene	ND		1.2	0.19	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
cis-1,3-Dichloropropene	ND		1.2	0.34	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Cyclohexane	ND		1.2	0.28	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Dibromochloromethane	ND		1.2	0.24	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Dichlorodifluoromethane	ND		1.2	0.42	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Ethylbenzene	ND		1.2	0.25	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Isopropylbenzene	ND		1.2	0.16	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Methyl acetate	ND		6.2	5.4	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Methyl tert-butyl ether	ND		1.2	0.16	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Methylcyclohexane	ND		1.2	0.20	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Methylene Chloride	ND		1.2	0.20	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Styrene	ND		1.2	0.15	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Tetrachloroethene	ND		1.2	0.18	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Toluene	ND		1.2	0.78	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
trans-1,2-Dichloroethene	ND		1.2	0.31	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
trans-1,3-Dichloropropene	ND		1.2	0.33	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Trichloroethene	ND		1.2	0.18	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Trichlorofluoromethane	ND		1.2	0.51	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Vinyl chloride	ND		1.2	0.68	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1
Xylenes, Total	0.48	J	2.5	0.32	ug/Kg	☼	04/30/19 22:29	05/02/19 02:54	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180726-1

Client Sample ID: PWEXBM04097

Lab Sample ID: 460-180726-1

Date Collected: 04/29/19 11:52

Matrix: Solid

Date Received: 04/30/19 09:05

Percent Solids: 86.6

<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>Naphthalene, 2-methyl-</i>	6.5	T J N	ug/Kg	☼	15.55	91-57-6	04/30/19 22:29	05/02/19 02:54	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	111		78 - 135				04/30/19 22:29	05/02/19 02:54	1
<i>4-Bromofluorobenzene</i>	101		67 - 126				04/30/19 22:29	05/02/19 02:54	1
<i>Dibromofluoromethane (Surr)</i>	105		61 - 149				04/30/19 22:29	05/02/19 02:54	1
<i>Toluene-d8 (Surr)</i>	98		73 - 121				04/30/19 22:29	05/02/19 02:54	1

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

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,5-Trichlorophenol	ND		380	13	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2,4,6-Trichlorophenol	ND		150	19	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2,4-Dichlorophenol	ND		150	8.1	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2,4-Dimethylphenol	ND		380	17	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2,4-Dinitrophenol	ND		310	190	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2,4-Dinitrotoluene	ND		77	19	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2,6-Dinitrotoluene	ND		77	12	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2-Chloronaphthalene	ND		380	18	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2-Chlorophenol	ND		380	5.3	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2-Methylnaphthalene	9.7 J		380	4.8	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2-Methylphenol	ND		380	6.2	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2-Nitroaniline	ND		380	14	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
2-Nitrophenol	ND		380	12	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
3,3'-Dichlorobenzidine	ND		150	58	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
3-Nitroaniline	ND		380	21	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4,6-Dinitro-2-methylphenol	ND		310	62	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4-Bromophenyl phenyl ether	ND		380	4.9	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4-Chloro-3-methylphenol	ND		380	6.3	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4-Chloroaniline	ND		380	27	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4-Chlorophenyl phenyl ether	ND		380	6.0	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4-Methylphenol	ND		380	6.5	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4-Nitroaniline	ND		380	14	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
4-Nitrophenol	ND		770	62	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Acenaphthene	46 J		380	28	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Acenaphthylene	ND		380	3.9	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Acetophenone	ND		380	6.2	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Anthracene	ND		380	4.3	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Atrazine	ND		150	9.6	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Benzaldehyde	ND		380	17	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Benzo[a]anthracene	ND		38	13	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Benzo[a]pyrene	ND		38	10	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Benzo[b]fluoranthene	11 J		38	9.9	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Benzo[g,h,i]perylene	ND		380	11	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Benzo[k]fluoranthene	ND		38	7.5	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Biphenyl	ND		380	5.1	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
bis (2-chloroisopropyl) ether	ND		380	6.9	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Bis(2-chloroethoxy)methane	ND		380	13	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Bis(2-chloroethyl)ether	ND		38	4.6	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Bis(2-ethylhexyl) phthalate	ND		380	20	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Butyl benzyl phthalate	ND		380	18	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180726-1

Client Sample ID: PWEXBM04097

Lab Sample ID: 460-180726-1

Date Collected: 04/29/19 11:52

Matrix: Solid

Date Received: 04/30/19 09:05

Percent Solids: 86.6

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	☼	04/30/19 21:35	05/01/19 09:40	1
Carbazole	12	J	380	4.5	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Chrysene	ND		380	6.5	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Dibenz(a,h)anthracene	ND		38	17	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Dibenzofuran	40	J	380	5.4	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Diethyl phthalate	ND		380	5.5	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Dimethyl phthalate	ND		380	4.6	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Di-n-butyl phthalate	ND		380	67	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Di-n-octyl phthalate	ND		380	20	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Fluoranthene	27	J	380	5.0	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Fluorene	73	J	380	5.2	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Hexachlorobenzene	ND		38	5.6	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Hexachlorobutadiene	ND		77	8.1	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Hexachlorocyclopentadiene	ND		380	33	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Hexachloroethane	ND		38	5.9	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Indeno[1,2,3-cd]pyrene	ND		38	15	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Isophorone	ND		150	10	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Naphthalene	24	J	380	6.6	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Nitrobenzene	ND		38	9.2	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
N-Nitrosodi-n-propylamine	ND		38	6.1	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
N-Nitrosodiphenylamine	ND		380	7.3	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Pentachlorophenol	ND		310	78	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Phenanthrene	27	J	380	6.7	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Phenol	ND		380	5.7	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1
Pyrene	26	J	380	9.5	ug/Kg	☼	04/30/19 21:35	05/01/19 09:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	610	T J	ug/Kg	☼	4.85		04/30/19 21:35	05/01/19 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 137	04/30/19 21:35	05/01/19 09:40	1
2-Fluorobiphenyl (Surr)	89		29 - 107	04/30/19 21:35	05/01/19 09:40	1
2-Fluorophenol (Surr)	86		20 - 115	04/30/19 21:35	05/01/19 09:40	1
Nitrobenzene-d5 (Surr)	90		25 - 113	04/30/19 21:35	05/01/19 09:40	1
Phenol-d5 (Surr)	89		28 - 109	04/30/19 21:35	05/01/19 09:40	1
Terphenyl-d14 (Surr)	101		27 - 123	04/30/19 21:35	05/01/19 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		1.0	1.0	%			04/30/19 13:53	1
Percent Solids	86.6		1.0	1.0	%			04/30/19 13:53	1

Client Sample ID: PWEXBM04141

Lab Sample ID: 460-180726-2

Date Collected: 04/29/19 11:57

Matrix: Solid

Date Received: 04/30/19 09:05

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.99	0.23	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,1,2,2-Tetrachloroethane	ND		0.99	0.21	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.99	0.30	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180726-1

Client Sample ID: PWEXBM04141

Lab Sample ID: 460-180726-2

Date Collected: 04/29/19 11:57

Matrix: Solid

Date Received: 04/30/19 09:05

Percent Solids: 86.1

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		0.99	0.18	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,1-Dichloroethane	ND		0.99	0.20	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,1-Dichloroethene	ND		0.99	0.22	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,2,4-Trichlorobenzene	ND		0.99	0.091	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,2-Dibromo-3-Chloropropane	ND		0.99	0.46	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,2-Dibromoethane	ND		0.99	0.18	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,2-Dichlorobenzene	ND		0.99	0.14	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,2-Dichloroethane	ND		0.99	0.29	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,2-Dichloropropane	ND		0.99	0.42	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,3-Dichlorobenzene	ND		0.99	0.16	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
1,4-Dichlorobenzene	ND		0.99	0.099	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
2-Hexanone	ND		5.0	0.77	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Acetone	9.8		5.0	3.8	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Benzene	0.64	J	0.99	0.26	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Bromodichloromethane	ND		0.99	0.25	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Bromoform	ND		0.99	0.42	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Bromomethane	ND		0.99	0.47	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Carbon disulfide	0.27	J	0.99	0.26	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Carbon tetrachloride	1.6	B	0.99	0.18	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Chlorobenzene	ND		0.99	0.18	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Chloroethane	ND		0.99	0.52	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Chloroform	ND		0.99	0.32	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Chloromethane	ND		0.99	0.43	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
cis-1,2-Dichloroethene	ND		0.99	0.15	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
cis-1,3-Dichloropropene	ND		0.99	0.27	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Cyclohexane	ND		0.99	0.22	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Dibromochloromethane	ND		0.99	0.19	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Ethylbenzene	0.49	J	0.99	0.20	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Isopropylbenzene	0.21	J	0.99	0.13	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Methyl acetate	ND		5.0	4.3	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Methyl tert-butyl ether	ND		0.99	0.12	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Methylcyclohexane	ND		0.99	0.16	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Methylene Chloride	ND		0.99	0.16	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Styrene	ND		0.99	0.12	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Tetrachloroethene	ND		0.99	0.14	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Toluene	ND		0.99	0.62	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
trans-1,2-Dichloroethene	ND		0.99	0.24	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
trans-1,3-Dichloropropene	ND		0.99	0.26	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Trichloroethene	ND		0.99	0.14	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Trichlorofluoromethane	ND		0.99	0.40	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Vinyl chloride	ND		0.99	0.54	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1
Xylenes, Total	1.7	J	2.0	0.25	ug/Kg	☼	04/30/19 22:29	05/02/19 03:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Indene	7.1	T J N	ug/Kg	☼	13.35	95-13-6	04/30/19 22:29	05/02/19 03:18	1
3-Phenyl-2-propyn-1-ol	6.6	T J N	ug/Kg	☼	13.91	1504-58-1	04/30/19 22:29	05/02/19 03:18	1
Benzofuran, 7-methyl-	15	T J N	ug/Kg	☼	13.99	17059-52-8	04/30/19 22:29	05/02/19 03:18	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180726-1

Client Sample ID: PWEXBM04141

Lab Sample ID: 460-180726-2

Date Collected: 04/29/19 11:57

Matrix: Solid

Date Received: 04/30/19 09:05

Percent Solids: 86.1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Naphthalene	110	T J N	ug/Kg	☼	14.69	91-20-3	04/30/19 22:29	05/02/19 03:18	1
Benzo[b]thiophene	10	T J N	ug/Kg	☼	14.76	95-15-8	04/30/19 22:29	05/02/19 03:18	1
Naphthalene, 2-methyl-	17	T J N	ug/Kg	☼	15.42	91-57-6	04/30/19 22:29	05/02/19 03:18	1
Naphthalene, 1-methyl-	41	T J N	ug/Kg	☼	15.55	90-12-0	04/30/19 22:29	05/02/19 03:18	1
Biphenyl	8.6	T J N	ug/Kg	☼	15.98	92-52-4	04/30/19 22:29	05/02/19 03:18	1
Unknown	9.4	T J	ug/Kg	☼	16.24		04/30/19 22:29	05/02/19 03:18	1
Naphthalene, 1,6-dimethyl-	13	T J N	ug/Kg	☼	16.37	575-43-9	04/30/19 22:29	05/02/19 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		78 - 135	04/30/19 22:29	05/02/19 03:18	1
4-Bromofluorobenzene	101		67 - 126	04/30/19 22:29	05/02/19 03:18	1
Dibromofluoromethane (Surr)	107		61 - 149	04/30/19 22:29	05/02/19 03:18	1
Toluene-d8 (Surr)	99		73 - 121	04/30/19 22:29	05/02/19 03:18	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	13	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2,4,6-Trichlorophenol	ND		150	19	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2,4-Dichlorophenol	ND		150	8.1	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2,4-Dimethylphenol	ND		380	17	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2,4-Dinitrophenol	ND		310	190	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2,4-Dinitrotoluene	ND		78	19	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2,6-Dinitrotoluene	ND		78	12	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2-Chloronaphthalene	ND		380	18	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2-Chlorophenol	ND		380	5.4	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2-Methylnaphthalene	12	J	380	4.8	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2-Methylphenol	ND		380	6.2	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2-Nitroaniline	ND		380	14	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
2-Nitrophenol	ND		380	12	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
3,3'-Dichlorobenzidine	ND		150	58	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
3-Nitroaniline	ND		380	21	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4,6-Dinitro-2-methylphenol	ND		310	62	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4-Bromophenyl phenyl ether	ND		380	5.0	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4-Chloro-3-methylphenol	ND		380	6.4	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4-Chloroaniline	ND		380	27	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4-Chlorophenyl phenyl ether	ND		380	6.0	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4-Methylphenol	ND		380	6.5	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4-Nitroaniline	ND		380	14	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
4-Nitrophenol	ND		780	62	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Acenaphthene	78	J	380	28	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Acenaphthylene	ND		380	4.0	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Acetophenone	ND		380	6.2	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Anthracene	ND		380	4.3	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Atrazine	ND		150	9.7	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Benzaldehyde	ND		380	17	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Benzo[a]anthracene	ND		38	13	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Benzo[a]pyrene	ND		38	10	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Benzo[b]fluoranthene	ND		38	9.9	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Benzo[g,h,i]perylene	ND		380	11	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180726-1

Client Sample ID: PWEXBM04141

Lab Sample ID: 460-180726-2

Date Collected: 04/29/19 11:57

Matrix: Solid

Date Received: 04/30/19 09:05

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		38	7.5	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Biphenyl	ND		380	5.1	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
bis (2-chloroisopropyl) ether	ND		380	6.9	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Bis(2-chloroethoxy)methane	ND		380	13	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Bis(2-chloroethyl)ether	ND		38	4.6	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Bis(2-ethylhexyl) phthalate	ND		380	20	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Butyl benzyl phthalate	ND		380	18	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Caprolactam	ND		380	23	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Carbazole	25	J	380	4.5	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Chrysene	ND		380	6.5	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Dibenz(a,h)anthracene	ND		38	17	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Dibenzofuran	47	J	380	5.4	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Diethyl phthalate	ND		380	5.6	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Dimethyl phthalate	ND		380	4.6	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Di-n-butyl phthalate	ND		380	68	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Di-n-octyl phthalate	ND		380	20	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Fluoranthene	13	J	380	5.0	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Fluorene	43	J	380	5.2	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Hexachlorobenzene	ND		38	5.6	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Hexachlorobutadiene	ND		78	8.2	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Hexachlorocyclopentadiene	ND		380	34	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Hexachloroethane	ND		38	5.9	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Indeno[1,2,3-cd]pyrene	ND		38	15	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Isophorone	ND		150	10	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Naphthalene	42	J	380	6.6	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Nitrobenzene	ND		38	9.2	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
N-Nitrosodi-n-propylamine	ND		38	6.1	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
N-Nitrosodiphenylamine	ND		380	7.3	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Pentachlorophenol	ND		310	79	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Phenanthrene	34	J	380	6.7	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Phenol	ND		380	5.7	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1
Pyrene	ND		380	9.5	ug/Kg	☼	04/30/19 21:35	05/01/19 10:03	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			04/30/19 21:35	05/01/19 10:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		10 - 137	04/30/19 21:35	05/01/19 10:03	1
2-Fluorobiphenyl (Surr)	83		29 - 107	04/30/19 21:35	05/01/19 10:03	1
2-Fluorophenol (Surr)	68		20 - 115	04/30/19 21:35	05/01/19 10:03	1
Nitrobenzene-d5 (Surr)	86		25 - 113	04/30/19 21:35	05/01/19 10:03	1
Phenol-d5 (Surr)	85		28 - 109	04/30/19 21:35	05/01/19 10:03	1
Terphenyl-d14 (Surr)	87		27 - 123	04/30/19 21:35	05/01/19 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		1.0	1.0	%			04/30/19 13:53	1
Percent Solids	86.1		1.0	1.0	%			04/30/19 13:53	1

Eurofins TestAmerica, Edison

Surrogate Summary

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

Job ID: 460-180726-1

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)
460-180726-1	PWEXBM04097	111	101	105	98
460-180726-2	PWEXBM04141	111	101	107	99
LB3 460-606516/1-A	Method Blank	108	100	105	101
LCS 460-606745/3	Lab Control Sample	104	101	102	99
LCSD 460-606745/4	Lab Control Sample Dup	105	102	102	101
MB 460-606745/8	Method Blank	106	105	105	101

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)
460-180726-1	PWEXBM04097	72	89	86	90	89	101
460-180726-2	PWEXBM04141	73	83	68	86	85	87
LCS 460-606507/2-A	Lab Control Sample	101	91	90	96	92	99
LCS 460-606507/4-A	Lab Control Sample	93	93	93	100	88	97
LCSD 460-606507/3-A	Lab Control Sample Dup	90	91	87	94	90	94
MB 460-606507/1-A	Method Blank	95	98	100	103	101	104

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: 460-180726-1

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

Lab Sample ID: LB3 460-606516/1-A

Matrix: Solid

Analysis Batch: 606745

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606516

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
2-Hexanone	ND		5.0	0.78	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Acetone	ND		5.0	3.8	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Benzene	ND		1.0	0.26	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Bromoform	ND		1.0	0.43	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Bromomethane	ND		1.0	0.47	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Carbon disulfide	ND		1.0	0.27	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Carbon tetrachloride	1.38		1.0	0.18	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Chlorobenzene	ND		1.0	0.18	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Chloroethane	ND		1.0	0.52	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Chloroform	ND		1.0	0.32	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Chloromethane	ND		1.0	0.44	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Cyclohexane	ND		1.0	0.22	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Ethylbenzene	ND		1.0	0.20	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Methyl acetate	ND		5.0	4.3	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Methylene Chloride	ND		1.0	0.16	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Styrene	ND		1.0	0.12	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Toluene	ND		1.0	0.63	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Trichloroethene	ND		1.0	0.14	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Vinyl chloride	ND		1.0	0.55	ug/Kg		04/30/19 22:29	05/01/19 22:19	1
Xylenes, Total	ND		2.0	0.25	ug/Kg		04/30/19 22:29	05/01/19 22:19	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: LB3 460-606516/1-A

Matrix: Solid

Analysis Batch: 606745

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606516

	LB3	LB3							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				04/30/19 22:29	05/01/19 22:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		78 - 135				04/30/19 22:29	05/01/19 22:19	1
4-Bromofluorobenzene	100		67 - 126				04/30/19 22:29	05/01/19 22:19	1
Dibromofluoromethane (Surr)	105		61 - 149				04/30/19 22:29	05/01/19 22:19	1
Toluene-d8 (Surr)	101		73 - 121				04/30/19 22:29	05/01/19 22:19	1

Lab Sample ID: MB 460-606745/8

Matrix: Solid

Analysis Batch: 606745

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			05/01/19 21:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			05/01/19 21:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			05/01/19 21:47	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			05/01/19 21:47	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			05/01/19 21:47	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			05/01/19 21:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			05/01/19 21:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			05/01/19 21:47	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			05/01/19 21:47	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			05/01/19 21:47	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			05/01/19 21:47	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			05/01/19 21:47	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			05/01/19 21:47	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			05/01/19 21:47	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			05/01/19 21:47	1
2-Hexanone	ND		5.0	0.78	ug/Kg			05/01/19 21:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			05/01/19 21:47	1
Acetone	ND		5.0	3.8	ug/Kg			05/01/19 21:47	1
Benzene	ND		1.0	0.26	ug/Kg			05/01/19 21:47	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			05/01/19 21:47	1
Bromoform	ND		1.0	0.43	ug/Kg			05/01/19 21:47	1
Bromomethane	ND		1.0	0.47	ug/Kg			05/01/19 21:47	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			05/01/19 21:47	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			05/01/19 21:47	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			05/01/19 21:47	1
Chloroethane	ND		1.0	0.52	ug/Kg			05/01/19 21:47	1
Chloroform	ND		1.0	0.32	ug/Kg			05/01/19 21:47	1
Chloromethane	ND		1.0	0.44	ug/Kg			05/01/19 21:47	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			05/01/19 21:47	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/01/19 21:47	1
Cyclohexane	ND		1.0	0.22	ug/Kg			05/01/19 21:47	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			05/01/19 21:47	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			05/01/19 21:47	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			05/01/19 21:47	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			05/01/19 21:47	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: MB 460-606745/8

Matrix: Solid

Analysis Batch: 606745

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			05/01/19 21:47	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			05/01/19 21:47	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			05/01/19 21:47	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			05/01/19 21:47	1
Styrene	ND		1.0	0.12	ug/Kg			05/01/19 21:47	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			05/01/19 21:47	1
Toluene	ND		1.0	0.63	ug/Kg			05/01/19 21:47	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			05/01/19 21:47	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/01/19 21:47	1
Trichloroethene	ND		1.0	0.14	ug/Kg			05/01/19 21:47	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			05/01/19 21:47	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			05/01/19 21:47	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			05/01/19 21:47	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg					05/01/19 21:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135		05/01/19 21:47	1
4-Bromofluorobenzene	105		67 - 126		05/01/19 21:47	1
Dibromofluoromethane (Surr)	105		61 - 149		05/01/19 21:47	1
Toluene-d8 (Surr)	101		73 - 121		05/01/19 21:47	1

Lab Sample ID: LCS 460-606745/3

Matrix: Solid

Analysis Batch: 606745

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	21.8		ug/Kg		109	80 - 125
1,1,1,2,2-Tetrachloroethane	20.0	21.8		ug/Kg		109	72 - 131
1,1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.2		ug/Kg		111	78 - 132
1,1,2-Trichloroethane	20.0	21.6		ug/Kg		108	76 - 124
1,1-Dichloroethane	20.0	23.3		ug/Kg		116	80 - 124
1,1-Dichloroethene	20.0	22.2		ug/Kg		111	79 - 132
1,2,4-Trichlorobenzene	20.0	20.5		ug/Kg		102	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/Kg		93	65 - 129
1,2-Dibromoethane	20.0	21.9		ug/Kg		110	80 - 122
1,2-Dichlorobenzene	20.0	21.4		ug/Kg		107	80 - 121
1,2-Dichloroethane	20.0	22.0		ug/Kg		110	68 - 120
1,2-Dichloropropane	20.0	23.4		ug/Kg		117	77 - 124
1,3-Dichlorobenzene	20.0	20.9		ug/Kg		105	79 - 124
1,4-Dichlorobenzene	20.0	21.2		ug/Kg		106	79 - 121
2-Butanone (MEK)	100	93.2		ug/Kg		93	61 - 140
2-Hexanone	100	109		ug/Kg		109	78 - 120
4-Methyl-2-pentanone (MIBK)	100	109		ug/Kg		109	80 - 120
Acetone	100	101		ug/Kg		101	75 - 120
Benzene	20.0	22.5		ug/Kg		113	75 - 127

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QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: LCS 460-606745/3

Matrix: Solid

Analysis Batch: 606745

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	21.9		ug/Kg		110	76 - 129
Bromoform	20.0	19.7		ug/Kg		98	19 - 150
Bromomethane	20.0	20.3		ug/Kg		101	59 - 136
Carbon disulfide	20.0	21.2		ug/Kg		106	74 - 130
Carbon tetrachloride	20.0	20.5		ug/Kg		103	77 - 138
Chlorobenzene	20.0	21.0		ug/Kg		105	80 - 120
Chloroethane	20.0	21.5		ug/Kg		108	50 - 139
Chloroform	20.0	23.0		ug/Kg		115	80 - 122
Chloromethane	20.0	21.0		ug/Kg		105	66 - 128
cis-1,2-Dichloroethene	20.0	23.2		ug/Kg		116	80 - 123
cis-1,3-Dichloropropene	20.0	20.7		ug/Kg		104	75 - 124
Cyclohexane	20.0	21.8		ug/Kg		109	67 - 135
Dibromochloromethane	20.0	20.0		ug/Kg		100	67 - 143
Dichlorodifluoromethane	20.0	18.3		ug/Kg		91	72 - 127
Ethylbenzene	20.0	21.3		ug/Kg		107	79 - 124
Isopropylbenzene	20.0	21.0		ug/Kg		105	80 - 125
Methyl acetate	40.0	47.2		ug/Kg		118	73 - 123
Methyl tert-butyl ether	20.0	22.1		ug/Kg		110	80 - 120
Methylcyclohexane	20.0	19.7		ug/Kg		98	71 - 137
Methylene Chloride	20.0	22.4		ug/Kg		112	79 - 128
Styrene	20.0	21.0		ug/Kg		105	78 - 123
Tetrachloroethene	20.0	20.9		ug/Kg		104	73 - 130
Toluene	20.0	21.1		ug/Kg		106	75 - 122
trans-1,2-Dichloroethene	20.0	22.8		ug/Kg		114	80 - 129
trans-1,3-Dichloropropene	20.0	19.5		ug/Kg		98	72 - 121
Trichloroethene	20.0	22.1		ug/Kg		110	79 - 122
Trichlorofluoromethane	20.0	22.4		ug/Kg		112	68 - 136
Vinyl chloride	20.0	20.4		ug/Kg		102	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		78 - 135
4-Bromofluorobenzene	101		67 - 126
Dibromofluoromethane (Surr)	102		61 - 149
Toluene-d8 (Surr)	99		73 - 121

Lab Sample ID: LCSD 460-606745/4

Matrix: Solid

Analysis Batch: 606745

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	21.1		ug/Kg		106	80 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/Kg		106	72 - 131	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.3		ug/Kg		111	78 - 132	0	30
1,1,2-Trichloroethane	20.0	21.9		ug/Kg		109	76 - 124	1	30
1,1-Dichloroethane	20.0	22.6		ug/Kg		113	80 - 124	3	30
1,1-Dichloroethene	20.0	21.9		ug/Kg		109	79 - 132	1	30
1,2,4-Trichlorobenzene	20.0	22.0		ug/Kg		110	74 - 124	7	30
1,2-Dibromo-3-Chloropropane	20.0	17.4		ug/Kg		87	65 - 129	6	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: LCSD 460-606745/4

Matrix: Solid

Analysis Batch: 606745

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	22.0		ug/Kg		110	80 - 122	0	30
1,2-Dichlorobenzene	20.0	21.4		ug/Kg		107	80 - 121	0	30
1,2-Dichloroethane	20.0	21.3		ug/Kg		107	68 - 120	3	30
1,2-Dichloropropane	20.0	22.3		ug/Kg		112	77 - 124	5	30
1,3-Dichlorobenzene	20.0	21.1		ug/Kg		106	79 - 124	1	30
1,4-Dichlorobenzene	20.0	21.2		ug/Kg		106	79 - 121	0	30
2-Butanone (MEK)	100	101		ug/Kg		101	61 - 140	8	30
2-Hexanone	100	102		ug/Kg		102	78 - 120	7	30
4-Methyl-2-pentanone (MIBK)	100	105		ug/Kg		105	80 - 120	4	30
Acetone	100	97.4		ug/Kg		97	75 - 120	4	30
Benzene	20.0	22.9		ug/Kg		114	75 - 127	1	30
Bromodichloromethane	20.0	21.9		ug/Kg		109	76 - 129	0	30
Bromoform	20.0	18.8		ug/Kg		94	19 - 150	5	30
Bromomethane	20.0	19.3		ug/Kg		96	59 - 136	5	30
Carbon disulfide	20.0	20.6		ug/Kg		103	74 - 130	3	30
Carbon tetrachloride	20.0	20.9		ug/Kg		105	77 - 138	2	30
Chlorobenzene	20.0	21.0		ug/Kg		105	80 - 120	0	30
Chloroethane	20.0	20.4		ug/Kg		102	50 - 139	5	30
Chloroform	20.0	22.6		ug/Kg		113	80 - 122	2	30
Chloromethane	20.0	20.5		ug/Kg		103	66 - 128	2	30
cis-1,2-Dichloroethene	20.0	22.2		ug/Kg		111	80 - 123	4	30
cis-1,3-Dichloropropene	20.0	21.0		ug/Kg		105	75 - 124	1	30
Cyclohexane	20.0	21.3		ug/Kg		107	67 - 135	2	30
Dibromochloromethane	20.0	19.7		ug/Kg		98	67 - 143	2	30
Dichlorodifluoromethane	20.0	18.1		ug/Kg		90	72 - 127	1	30
Ethylbenzene	20.0	20.8		ug/Kg		104	79 - 124	3	30
Isopropylbenzene	20.0	22.0		ug/Kg		110	80 - 125	4	30
Methyl acetate	40.0	47.2		ug/Kg		118	73 - 123	0	30
Methyl tert-butyl ether	20.0	21.1		ug/Kg		106	80 - 120	4	30
Methylcyclohexane	20.0	21.6		ug/Kg		108	71 - 137	9	30
Methylene Chloride	20.0	21.9		ug/Kg		110	79 - 128	2	30
Styrene	20.0	21.0		ug/Kg		105	78 - 123	0	30
Tetrachloroethene	20.0	21.3		ug/Kg		107	73 - 130	2	30
Toluene	20.0	21.2		ug/Kg		106	75 - 122	0	30
trans-1,2-Dichloroethene	20.0	21.9		ug/Kg		110	80 - 129	4	30
trans-1,3-Dichloropropene	20.0	19.5		ug/Kg		97	72 - 121	0	30
Trichloroethene	20.0	22.0		ug/Kg		110	79 - 122	1	30
Trichlorofluoromethane	20.0	22.5		ug/Kg		112	68 - 136	0	30
Vinyl chloride	20.0	20.0		ug/Kg		100	70 - 134	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		78 - 135
4-Bromofluorobenzene	102		67 - 126
Dibromofluoromethane (Surr)	102		61 - 149
Toluene-d8 (Surr)	101		73 - 121

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM

Job ID: 460-180726-1

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

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

Lab Sample ID: MB 460-606507/1-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2-Chloronaphthalene	ND		330	15	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2-Chlorophenol	ND		330	4.6	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2-Methylphenol	ND		330	5.3	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2-Nitroaniline	ND		330	12	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
2-Nitrophenol	ND		330	11	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
3-Nitroaniline	ND		330	18	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4-Chloroaniline	ND		330	23	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4-Methylphenol	ND		330	5.6	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4-Nitroaniline	ND		330	12	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
4-Nitrophenol	ND		670	54	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Acenaphthene	ND		330	24	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Acenaphthylene	ND		330	3.4	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Acetophenone	ND		330	5.3	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Anthracene	ND		330	3.7	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Atrazine	ND		130	8.3	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Benzaldehyde	ND		330	14	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Benzo[a]anthracene	ND		33	12	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Biphenyl	ND		330	4.4	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Caprolactam	ND		330	20	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Carbazole	ND		330	3.9	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Chrysene	ND		330	5.6	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Dibenzofuran	ND		330	4.6	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Diethyl phthalate	ND		330	4.8	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		04/30/19 21:35	05/01/19 05:48	1

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QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: MB 460-606507/1-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		330	18	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Fluoranthene	ND		330	4.3	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Fluorene	ND		330	4.5	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Hexachloroethane	ND		33	5.1	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Isophorone	ND		130	8.7	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Naphthalene	ND		330	5.7	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Nitrobenzene	ND		33	7.9	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Pentachlorophenol	ND		270	68	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Phenanthrene	ND		330	5.8	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Phenol	ND		330	4.9	ug/Kg		04/30/19 21:35	05/01/19 05:48	1
Pyrene	ND		330	8.2	ug/Kg		04/30/19 21:35	05/01/19 05:48	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	456	T A J	ug/Kg		2.42		04/30/19 21:35	05/01/19 05:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		10 - 137	04/30/19 21:35	05/01/19 05:48	1
2-Fluorobiphenyl (Surr)	98		29 - 107	04/30/19 21:35	05/01/19 05:48	1
2-Fluorophenol (Surr)	100		20 - 115	04/30/19 21:35	05/01/19 05:48	1
Nitrobenzene-d5 (Surr)	103		25 - 113	04/30/19 21:35	05/01/19 05:48	1
Phenol-d5 (Surr)	101		28 - 109	04/30/19 21:35	05/01/19 05:48	1
Terphenyl-d14 (Surr)	104		27 - 123	04/30/19 21:35	05/01/19 05:48	1

Lab Sample ID: LCS 460-606507/2-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	3330	2970		ug/Kg		89	60 - 106
2,4,6-Trichlorophenol	3330	2540		ug/Kg		76	62 - 110
2,4-Dichlorophenol	3330	3090		ug/Kg		93	61 - 103
2,4-Dimethylphenol	3330	3060		ug/Kg		92	63 - 101
2,4-Dinitrophenol	6670	6590		ug/Kg		99	56 - 122
2,4-Dinitrotoluene	3330	3390		ug/Kg		102	66 - 122
2,6-Dinitrotoluene	3330	3200		ug/Kg		96	70 - 114
2-Chloronaphthalene	3330	3000		ug/Kg		90	63 - 107
2-Chlorophenol	3330	2960		ug/Kg		89	62 - 97
2-Methylnaphthalene	3330	3060		ug/Kg		92	65 - 104
2-Methylphenol	3330	3180		ug/Kg		95	61 - 103
2-Nitroaniline	3330	3180		ug/Kg		95	57 - 114
2-Nitrophenol	3330	3010		ug/Kg		90	65 - 104
3,3'-Dichlorobenzidine	3330	1270		ug/Kg		38	18 - 88

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: LCS 460-606507/2-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	3330	2550		ug/Kg		77	30 - 94
4,6-Dinitro-2-methylphenol	6670	7240		ug/Kg		109	67 - 120
4-Bromophenyl phenyl ether	3330	3080		ug/Kg		92	59 - 122
4-Chloro-3-methylphenol	3330	3230		ug/Kg		97	62 - 111
4-Chloroaniline	3330	2510		ug/Kg		75	18 - 94
4-Chlorophenyl phenyl ether	3330	3170		ug/Kg		95	66 - 110
4-Methylphenol	3330	3020		ug/Kg		91	61 - 105
4-Nitroaniline	3330	2940		ug/Kg		88	49 - 118
4-Nitrophenol	6670	7740		ug/Kg		116	43 - 141
Acenaphthene	3330	2890		ug/Kg		87	62 - 108
Acenaphthylene	3330	3170		ug/Kg		95	67 - 107
Acetophenone	3330	2920		ug/Kg		88	60 - 109
Anthracene	3330	3300		ug/Kg		99	69 - 111
Benzo[a]anthracene	3330	3300		ug/Kg		99	68 - 110
Benzo[a]pyrene	3330	3220		ug/Kg		97	72 - 115
Benzo[b]fluoranthene	3330	3590		ug/Kg		108	69 - 119
Benzo[g,h,i]perylene	3330	2860		ug/Kg		86	54 - 128
Benzo[k]fluoranthene	3330	3410		ug/Kg		102	70 - 115
Biphenyl	3330	3020		ug/Kg		90	64 - 108
bis (2-chloroisopropyl) ether	3330	3050		ug/Kg		91	39 - 122
Bis(2-chloroethoxy)methane	3330	2770		ug/Kg		83	65 - 106
Bis(2-chloroethyl)ether	3330	3300		ug/Kg		99	64 - 105
Bis(2-ethylhexyl) phthalate	3330	3620		ug/Kg		109	63 - 125
Butyl benzyl phthalate	3330	3670		ug/Kg		110	65 - 125
Carbazole	3330	3160		ug/Kg		95	66 - 115
Chrysene	3330	3170		ug/Kg		95	70 - 111
Dibenz(a,h)anthracene	3330	3090		ug/Kg		93	60 - 130
Dibenzofuran	3330	3190		ug/Kg		96	67 - 107
Diethyl phthalate	3330	3360		ug/Kg		101	66 - 117
Dimethyl phthalate	3330	3100		ug/Kg		93	68 - 112
Di-n-butyl phthalate	3330	3530		ug/Kg		106	67 - 119
Di-n-octyl phthalate	3330	4250		ug/Kg		127	57 - 138
Fluoranthene	3330	3220		ug/Kg		96	64 - 114
Fluorene	3330	3330		ug/Kg		100	66 - 110
Hexachlorobenzene	3330	3290		ug/Kg		99	57 - 128
Hexachlorobutadiene	3330	2820		ug/Kg		85	60 - 108
Hexachlorocyclopentadiene	3330	2860		ug/Kg		86	50 - 129
Hexachloroethane	3330	3070		ug/Kg		92	63 - 99
Indeno[1,2,3-cd]pyrene	3330	3520		ug/Kg		106	53 - 137
Isophorone	3330	3120		ug/Kg		94	68 - 111
Naphthalene	3330	2560		ug/Kg		77	65 - 102
Nitrobenzene	3330	2940		ug/Kg		88	66 - 108
N-Nitrosodi-n-propylamine	3330	3120		ug/Kg		94	63 - 117
N-Nitrosodiphenylamine	3330	3110		ug/Kg		93	65 - 114
Pentachlorophenol	6670	5910		ug/Kg		89	56 - 116
Phenanthrene	3330	3330		ug/Kg		100	68 - 111
Phenol	3330	3180		ug/Kg		95	58 - 103
Pyrene	3330	3600		ug/Kg		108	64 - 121

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: LCS 460-606507/2-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606507

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	101		10 - 137
2-Fluorobiphenyl (Surr)	91		29 - 107
2-Fluorophenol (Surr)	90		20 - 115
Nitrobenzene-d5 (Surr)	96		25 - 113
Phenol-d5 (Surr)	92		28 - 109
Terphenyl-d14 (Surr)	99		27 - 123

Lab Sample ID: LCS 460-606507/4-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	7600		ug/Kg		114	62 - 137
Benzaldehyde	6670	5200		ug/Kg		78	52 - 113
Caprolactam	6670	7370		ug/Kg		111	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		10 - 137
2-Fluorobiphenyl (Surr)	93		29 - 107
2-Fluorophenol (Surr)	93		20 - 115
Nitrobenzene-d5 (Surr)	100		25 - 113
Phenol-d5 (Surr)	88		28 - 109
Terphenyl-d14 (Surr)	97		27 - 123

Lab Sample ID: LCSD 460-606507/3-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 606507

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	3330	2830		ug/Kg		85	60 - 106	5	30
2,4,6-Trichlorophenol	3330	3280		ug/Kg		98	62 - 110	25	30
2,4-Dichlorophenol	3330	3150		ug/Kg		94	61 - 103	2	30
2,4-Dimethylphenol	3330	3010		ug/Kg		90	63 - 101	2	30
2,4-Dinitrophenol	6670	6240		ug/Kg		94	56 - 122	6	30
2,4-Dinitrotoluene	3330	3250		ug/Kg		98	66 - 122	4	30
2,6-Dinitrotoluene	3330	3130		ug/Kg		94	70 - 114	2	30
2-Chloronaphthalene	3330	3070		ug/Kg		92	63 - 107	2	30
2-Chlorophenol	3330	2950		ug/Kg		88	62 - 97	0	30
2-Methylnaphthalene	3330	3020		ug/Kg		91	65 - 104	1	30
2-Methylphenol	3330	3090		ug/Kg		93	61 - 103	3	30
2-Nitroaniline	3330	3460		ug/Kg		104	57 - 114	8	30
2-Nitrophenol	3330	2990		ug/Kg		90	65 - 104	1	30
3,3'-Dichlorobenzidine	3330	1120		ug/Kg		34	18 - 88	12	30
3-Nitroaniline	3330	2090		ug/Kg		63	30 - 94	20	30
4,6-Dinitro-2-methylphenol	6670	7190		ug/Kg		108	67 - 120	1	30
4-Bromophenyl phenyl ether	3330	3150		ug/Kg		95	59 - 122	2	30
4-Chloro-3-methylphenol	3330	3200		ug/Kg		96	62 - 111	1	30
4-Chloroaniline	3330	2320		ug/Kg		69	18 - 94	8	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180726-1

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

Lab Sample ID: LCSD 460-606507/3-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 606507

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	3330	3060		ug/Kg		92	66 - 110	4	30
4-Methylphenol	3330	2810		ug/Kg		84	61 - 105	7	30
4-Nitroaniline	3330	2680		ug/Kg		80	49 - 118	9	30
4-Nitrophenol	6670	7260		ug/Kg		109	43 - 141	6	30
Acenaphthene	3330	2940		ug/Kg		88	62 - 108	2	30
Acenaphthylene	3330	3210		ug/Kg		96	67 - 107	1	30
Acetophenone	3330	2930		ug/Kg		88	60 - 109	0	30
Anthracene	3330	3160		ug/Kg		95	69 - 111	4	30
Benzo[a]anthracene	3330	3230		ug/Kg		97	68 - 110	2	30
Benzo[a]pyrene	3330	3230		ug/Kg		97	72 - 115	0	30
Benzo[b]fluoranthene	3330	3670		ug/Kg		110	69 - 119	2	30
Benzo[g,h,i]perylene	3330	2870		ug/Kg		86	54 - 128	0	30
Benzo[k]fluoranthene	3330	3350		ug/Kg		100	70 - 115	2	30
Biphenyl	3330	3100		ug/Kg		93	64 - 108	3	30
bis (2-chloroisopropyl) ether	3330	3090		ug/Kg		93	39 - 122	1	30
Bis(2-chloroethoxy)methane	3330	3130		ug/Kg		94	65 - 106	12	30
Bis(2-chloroethyl)ether	3330	3130		ug/Kg		94	64 - 105	5	30
Bis(2-ethylhexyl) phthalate	3330	3550		ug/Kg		107	63 - 125	2	30
Butyl benzyl phthalate	3330	3570		ug/Kg		107	65 - 125	3	30
Carbazole	3330	3180		ug/Kg		95	66 - 115	1	30
Chrysene	3330	3130		ug/Kg		94	70 - 111	1	30
Dibenz(a,h)anthracene	3330	3090		ug/Kg		93	60 - 130	0	30
Dibenzofuran	3330	3140		ug/Kg		94	67 - 107	1	30
Diethyl phthalate	3330	3160		ug/Kg		95	66 - 117	6	30
Dimethyl phthalate	3330	3040		ug/Kg		91	68 - 112	2	30
Di-n-butyl phthalate	3330	3500		ug/Kg		105	67 - 119	1	30
Di-n-octyl phthalate	3330	4290		ug/Kg		129	57 - 138	1	30
Fluoranthene	3330	3170		ug/Kg		95	64 - 114	2	30
Fluorene	3330	3220		ug/Kg		96	66 - 110	3	30
Hexachlorobenzene	3330	3200		ug/Kg		96	57 - 128	3	30
Hexachlorobutadiene	3330	2890		ug/Kg		87	60 - 108	2	30
Hexachlorocyclopentadiene	3330	2720		ug/Kg		82	50 - 129	5	30
Hexachloroethane	3330	3070		ug/Kg		92	63 - 99	0	30
Indeno[1,2,3-cd]pyrene	3330	3580		ug/Kg		108	53 - 137	2	30
Isophorone	3330	3120		ug/Kg		94	68 - 111	0	30
Naphthalene	3330	3020		ug/Kg		91	65 - 102	17	30
Nitrobenzene	3330	2930		ug/Kg		88	66 - 108	0	30
N-Nitrosodi-n-propylamine	3330	3100		ug/Kg		93	63 - 117	1	30
N-Nitrosodiphenylamine	3330	3210		ug/Kg		96	65 - 114	3	30
Pentachlorophenol	6670	5930		ug/Kg		89	56 - 116	0	30
Phenanthrene	3330	3230		ug/Kg		97	68 - 111	3	30
Phenol	3330	3070		ug/Kg		92	58 - 103	4	30
Pyrene	3330	3470		ug/Kg		104	64 - 121	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		10 - 137
2-Fluorobiphenyl (Surr)	91		29 - 107
2-Fluorophenol (Surr)	87		20 - 115

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM

Job ID: 460-180726-1

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

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

Lab Sample ID: LCSD 460-606507/3-A

Matrix: Solid

Analysis Batch: 606541

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 606507

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	94		25 - 113
Phenol-d5 (Surr)	90		28 - 109
Terphenyl-d14 (Surr)	94		27 - 123

QC Association Summary

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

Job ID: 460-180726-1

GC/MS VOA

Prep Batch: 606516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180726-1	PWEXBM04097	Total/NA	Solid	5035	
460-180726-2	PWEXBM04141	Total/NA	Solid	5035	
LB3 460-606516/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 606745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180726-1	PWEXBM04097	Total/NA	Solid	8260C	606516
460-180726-2	PWEXBM04141	Total/NA	Solid	8260C	606516
LB3 460-606516/1-A	Method Blank	Total/NA	Solid	8260C	606516
MB 460-606745/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-606745/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-606745/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 606507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180726-1	PWEXBM04097	Total/NA	Solid	3546	
460-180726-2	PWEXBM04141	Total/NA	Solid	3546	
MB 460-606507/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-606507/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-606507/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-606507/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 606541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180726-1	PWEXBM04097	Total/NA	Solid	8270D	606507
460-180726-2	PWEXBM04141	Total/NA	Solid	8270D	606507
MB 460-606507/1-A	Method Blank	Total/NA	Solid	8270D	606507
LCS 460-606507/2-A	Lab Control Sample	Total/NA	Solid	8270D	606507
LCS 460-606507/4-A	Lab Control Sample	Total/NA	Solid	8270D	606507
LCSD 460-606507/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	606507

General Chemistry

Analysis Batch: 606407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180726-1	PWEXBM04097	Total/NA	Solid	Moisture	
460-180726-2	PWEXBM04141	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 460-180726-1

Client Sample ID: PWEXBM04097

Date Collected: 04/29/19 11:52

Date Received: 04/30/19 09:05

Lab Sample ID: 460-180726-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	606407	04/30/19 13:53	MMC	TAL EDI

Client Sample ID: PWEXBM04097

Date Collected: 04/29/19 11:52

Date Received: 04/30/19 09:05

Lab Sample ID: 460-180726-1

Matrix: Solid

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			606516	04/30/19 22:29	AVM	TAL EDI
Total/NA	Analysis	8260C		1	606745	05/02/19 02:54	AAT	TAL EDI
Total/NA	Prep	3546			606507	04/30/19 21:35	GRB	TAL EDI
Total/NA	Analysis	8270D		1	606541	05/01/19 09:40	FAM	TAL EDI

Client Sample ID: PWEXBM04141

Date Collected: 04/29/19 11:57

Date Received: 04/30/19 09:05

Lab Sample ID: 460-180726-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	606407	04/30/19 13:53	MMC	TAL EDI

Client Sample ID: PWEXBM04141

Date Collected: 04/29/19 11:57

Date Received: 04/30/19 09:05

Lab Sample ID: 460-180726-2

Matrix: Solid

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			606516	04/30/19 22:29	AVM	TAL EDI
Total/NA	Analysis	8260C		1	606745	05/02/19 03:18	AAT	TAL EDI
Total/NA	Prep	3546			606507	04/30/19 21:35	GRB	TAL EDI
Total/NA	Analysis	8270D		1	606541	05/01/19 10:03	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

Job ID: 460-180726-1

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

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

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: 460-180726-1

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: 460-180726-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-180726-1	PWEXBM04097	Solid	04/29/19 11:52	04/30/19 09:05
460-180726-2	PWEXBM04141	Solid	04/29/19 11:57	04/30/19 09:05

Chain of Custody Record

Client Information Client Contact: George Hermance Phone: 716-861-7882 Company: AECOM		Sampler: George Hermance Lab PIV: Deyo, Melissa L E-Mail: melissa.deyo@testamericainc.com		Carrier Tracking No(s): 480-128476-28976.1 Page: Page 1 of 2 Job #: 180726	
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: 5/2/2019 TAT Requested (days): 48 Hour per Melissa Deyo PO #: 107852 WO #: Matthew.Thorpe@aecom.com Project #: 48015568 SOW#:		Analysis Requested 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 Z - other (specify) Other:	
Sample Identification PWEXBM04097 PWEXBM04141		Sample Date: 4/29/19 Sample Time: 1152 Sample Type (C=comp, G=grab): G Matrix (Water, Solid, Composite, Other): Solid		Field Filtered Sample (Yes or No): 8270D - TCL SVOCs + 20 TICs 8260C - TCL VOCs + TICs Total Number of Containers: 2	
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	
Empty Kit Relinquished by: George Hermance Relinquished by: Angela Finilla Relinquished by: via FEDEX Relinquished by:		Date/Time: 4/29/19 1315 Date/Time: 04/30/19 Date/Time: 09:05 Date/Time:		Method of Shipment: TA Edison Company: Company Company: Company	
Custody Seals Intact: Yes ☒ No ☐ Custody Seal No.: 645558		Cooler Temperature(s) °C and Other Remarks: On Ice 6.2°C IR#9		Ver: 01/16	

077081

IR Gun

Number of Coolers:

	RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	6.2 °C	6.7 °C	Cooler #4:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C
			Cooler #7:	°C	°C
			Cooler #8:	°C	°C
			Cooler #9:	°C	°C

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Volume of Preservative used (ml): _____

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.

Accp

Date: 04/30/19

Client: AECOM

Job Number: 460-180726-1

Login Number: 180726

List Number: 1

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	645558
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.	False	Refer to job narrative for details
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.	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	
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.	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.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

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

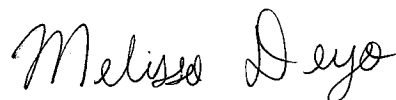
Laboratory Job ID: 460-180817-1

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:
5/3/2019 4:23:47 PM

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

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

Job ID: 460-180817-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
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: 460-180817-1

Job ID: 460-180817-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-180817-1

Receipt

The sample was received on 5/1/2019 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

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

GC/MS Semi VOA

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 460-607061 was outside the method criteria for the following analyte: 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.

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: 460-180817-1

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

Client Sample ID: PWEXBM04144

Lab Sample ID: 460-180817-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	5.1	J	5.4	4.1	ug/Kg	1		✱	8260C	Total/NA
Carbon tetrachloride	1.1	B	1.1	0.19	ug/Kg	1		✱	8260C	Total/NA
Methylene Chloride	0.47	J	1.1	0.18	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: 460-180817-1

Client Sample ID: PWEXBM04144

Lab Sample ID: 460-180817-1

Date Collected: 04/30/19 13:50

Matrix: Solid

Date Received: 05/01/19 09:00

Percent Solids: 84.4

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	☼	05/01/19 21:16	05/03/19 12:23	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.23	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.32	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,1,2-Trichloroethane	ND		1.1	0.19	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,1-Dichloroethane	ND		1.1	0.22	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,1-Dichloroethene	ND		1.1	0.24	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,2,4-Trichlorobenzene	ND		1.1	0.099	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.49	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,2-Dibromoethane	ND		1.1	0.19	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,2-Dichlorobenzene	ND		1.1	0.15	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,2-Dichloroethane	ND		1.1	0.32	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,2-Dichloropropane	ND		1.1	0.45	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,3-Dichlorobenzene	ND		1.1	0.17	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
1,4-Dichlorobenzene	ND		1.1	0.11	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
2-Butanone (MEK)	ND		5.4	1.2	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
2-Hexanone	ND		5.4	0.84	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.4	0.71	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Acetone	5.1	J	5.4	4.1	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Benzene	ND		1.1	0.28	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Bromodichloromethane	ND		1.1	0.28	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Bromoform	ND		1.1	0.46	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Bromomethane	ND		1.1	0.51	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Carbon disulfide	ND		1.1	0.29	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Carbon tetrachloride	1.1	B	1.1	0.19	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Chlorobenzene	ND		1.1	0.19	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Chloroethane	ND		1.1	0.56	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Chloroform	ND		1.1	0.34	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Chloromethane	ND		1.1	0.47	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
cis-1,2-Dichloroethene	ND		1.1	0.16	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
cis-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Cyclohexane	ND		1.1	0.24	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Dibromochloromethane	ND		1.1	0.21	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Dichlorodifluoromethane	ND		1.1	0.36	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Ethylbenzene	ND		1.1	0.21	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Methyl acetate	ND		5.4	4.6	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Methyl tert-butyl ether	ND		1.1	0.13	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Methylcyclohexane	ND		1.1	0.17	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Methylene Chloride	0.47	J	1.1	0.18	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Styrene	ND		1.1	0.13	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Tetrachloroethene	ND		1.1	0.15	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Toluene	ND		1.1	0.67	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
trans-1,2-Dichloroethene	ND		1.1	0.26	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
trans-1,3-Dichloropropene	ND		1.1	0.29	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Trichloroethene	ND		1.1	0.15	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Trichlorofluoromethane	ND		1.1	0.44	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Vinyl chloride	ND		1.1	0.59	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1
Xylenes, Total	ND		2.2	0.27	ug/Kg	☼	05/01/19 21:16	05/03/19 12:23	1

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Client Sample Results

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

Job ID: 460-180817-1

Client Sample ID: PWEXBM04144

Lab Sample ID: 460-180817-1

Date Collected: 04/30/19 13:50

Matrix: Solid

Date Received: 05/01/19 09:00

Percent Solids: 84.4

<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>05/01/19 21:16</i>	<i>05/03/19 12:23</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		78 - 135				05/01/19 21:16	05/03/19 12:23	1
4-Bromofluorobenzene	105		67 - 126				05/01/19 21:16	05/03/19 12:23	1
Dibromofluoromethane (Surr)	107		61 - 149				05/01/19 21:16	05/03/19 12:23	1
Toluene-d8 (Surr)	98		73 - 121				05/01/19 21:16	05/03/19 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		390	13	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2,4,6-Trichlorophenol	ND		160	20	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2,4-Dichlorophenol	ND		160	8.3	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2,4-Dimethylphenol	ND		390	17	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2,4-Dinitrophenol	ND		320	190	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2,4-Dinitrotoluene	ND		79	20	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2,6-Dinitrotoluene	ND		79	13	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2-Chloronaphthalene	ND		390	18	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2-Chlorophenol	ND		390	5.5	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2-Methylnaphthalene	ND		390	4.9	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2-Methylphenol	ND		390	6.3	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2-Nitroaniline	ND		390	15	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
2-Nitrophenol	ND		390	13	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
3,3'-Dichlorobenzidine	ND		160	59	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
3-Nitroaniline	ND		390	21	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4,6-Dinitro-2-methylphenol	ND		320	64	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4-Bromophenyl phenyl ether	ND		390	5.1	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4-Chloro-3-methylphenol	ND		390	6.5	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4-Chloroaniline	ND		390	27	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4-Chlorophenyl phenyl ether	ND		390	6.2	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4-Methylphenol	ND		390	6.7	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4-Nitroaniline	ND		390	15	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
4-Nitrophenol	ND		790	64	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Acenaphthene	ND		390	29	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Acenaphthylene	ND		390	4.1	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Acetophenone	ND		390	6.3	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Anthracene	ND		390	4.4	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Atrazine	ND		160	9.9	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Benzaldehyde	ND		390	17	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Benzo[a]anthracene	ND		39	14	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Benzo[a]pyrene	ND		39	10	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Benzo[b]fluoranthene	ND		39	10	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Benzo[g,h,i]perylene	ND		390	12	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Benzo[k]fluoranthene	ND		39	7.7	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Biphenyl	ND		390	5.2	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
bis (2-chloroisopropyl) ether	ND		390	7.1	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Bis(2-chloroethoxy)methane	ND		390	13	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Bis(2-chloroethyl)ether	ND		39	4.7	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Bis(2-ethylhexyl) phthalate	ND		390	21	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Butyl benzyl phthalate	ND		390	18	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1

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Client Sample Results

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

Job ID: 460-180817-1

Client Sample ID: PWEXBM04144

Lab Sample ID: 460-180817-1

Date Collected: 04/30/19 13:50

Matrix: Solid

Date Received: 05/01/19 09:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		390	23	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Carbazole	ND		390	4.6	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Chrysene	ND		390	6.6	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Dibenz(a,h)anthracene	ND		39	17	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Dibenzofuran	ND		390	5.5	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Diethyl phthalate	ND		390	5.7	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Dimethyl phthalate	ND		390	4.7	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Di-n-butyl phthalate	ND		390	69	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Di-n-octyl phthalate	ND		390	21	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Fluoranthene	ND		390	5.1	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Fluorene	ND		390	5.3	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Hexachlorobenzene	ND		39	5.7	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Hexachlorobutadiene	ND		79	8.3	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Hexachlorocyclopentadiene	ND		390	34	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Hexachloroethane	ND		39	6.0	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Indeno[1,2,3-cd]pyrene	ND		39	15	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Isophorone	ND		160	10	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Naphthalene	ND		390	6.8	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Nitrobenzene	ND		39	9.4	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
N-Nitrosodi-n-propylamine	ND		39	6.2	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
N-Nitrosodiphenylamine	ND		390	7.5	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Pentachlorophenol	ND		320	80	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Phenanthrene	ND		390	6.9	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Phenol	ND		390	5.8	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1
Pyrene	ND		390	9.8	ug/Kg	☼	05/02/19 09:02	05/02/19 22:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			05/02/19 09:02	05/02/19 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		10 - 137	05/02/19 09:02	05/02/19 22:42	1
2-Fluorobiphenyl (Surr)	72		29 - 107	05/02/19 09:02	05/02/19 22:42	1
2-Fluorophenol (Surr)	81		20 - 115	05/02/19 09:02	05/02/19 22:42	1
Nitrobenzene-d5 (Surr)	70		25 - 113	05/02/19 09:02	05/02/19 22:42	1
Phenol-d5 (Surr)	75		28 - 109	05/02/19 09:02	05/02/19 22:42	1
Terphenyl-d14 (Surr)	87		27 - 123	05/02/19 09:02	05/02/19 22:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		1.0	1.0	%			05/02/19 07:58	1
Percent Solids	84.4		1.0	1.0	%			05/02/19 07:58	1

Eurofins TestAmerica, Edison

Surrogate Summary

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

Job ID: 460-180817-1

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)
460-180817-1	PWEXBM04144	113	105	107	98
LB3 460-606788/1-A	Method Blank	107	102	104	100
LCS 460-607175/3	Lab Control Sample	104	101	101	100
LCSD 460-607175/4	Lab Control Sample Dup	105	104	102	102
MB 460-607175/8	Method Blank	109	101	105	98

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)
460-180817-1	PWEXBM04144	75	72	81	70	75	87
LCS 460-606926/2-A	Lab Control Sample	94	86	85	80	83	90
LCS 460-606926/4-A	Lab Control Sample	100	94	100	94	96	100
LCSD 460-606926/3-A	Lab Control Sample Dup	97	83	82	82	82	90
MB 460-606926/1-A	Method Blank	100	95	102	93	97	102

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: 460-180817-1

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

Lab Sample ID: LB3 460-606788/1-A

Matrix: Solid

Analysis Batch: 607175

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606788

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
2-Hexanone	ND		5.0	0.78	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Acetone	ND		5.0	3.8	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Benzene	ND		1.0	0.26	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Bromoform	ND		1.0	0.43	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Bromomethane	ND		1.0	0.47	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Carbon disulfide	ND		1.0	0.27	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Carbon tetrachloride	0.864	J	1.0	0.18	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Chlorobenzene	ND		1.0	0.18	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Chloroethane	ND		1.0	0.52	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Chloroform	ND		1.0	0.32	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Chloromethane	ND		1.0	0.44	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Cyclohexane	ND		1.0	0.22	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Ethylbenzene	ND		1.0	0.20	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Methyl acetate	ND		5.0	4.3	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Methylene Chloride	ND		1.0	0.16	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Styrene	ND		1.0	0.12	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Toluene	ND		1.0	0.63	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Trichloroethene	ND		1.0	0.14	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Vinyl chloride	ND		1.0	0.55	ug/Kg		05/01/19 21:15	05/03/19 11:57	1
Xylenes, Total	ND		2.0	0.25	ug/Kg		05/01/19 21:15	05/03/19 11:57	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: LB3 460-606788/1-A

Matrix: Solid

Analysis Batch: 607175

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606788

	LB3	LB3							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				05/01/19 21:15	05/03/19 11:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135				05/01/19 21:15	05/03/19 11:57	1
4-Bromofluorobenzene	102		67 - 126				05/01/19 21:15	05/03/19 11:57	1
Dibromofluoromethane (Surr)	104		61 - 149				05/01/19 21:15	05/03/19 11:57	1
Toluene-d8 (Surr)	100		73 - 121				05/01/19 21:15	05/03/19 11:57	1

Lab Sample ID: MB 460-607175/8

Matrix: Solid

Analysis Batch: 607175

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			05/03/19 08:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			05/03/19 08:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			05/03/19 08:09	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			05/03/19 08:09	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			05/03/19 08:09	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			05/03/19 08:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			05/03/19 08:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			05/03/19 08:09	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			05/03/19 08:09	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			05/03/19 08:09	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			05/03/19 08:09	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			05/03/19 08:09	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			05/03/19 08:09	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			05/03/19 08:09	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			05/03/19 08:09	1
2-Hexanone	ND		5.0	0.78	ug/Kg			05/03/19 08:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			05/03/19 08:09	1
Acetone	ND		5.0	3.8	ug/Kg			05/03/19 08:09	1
Benzene	ND		1.0	0.26	ug/Kg			05/03/19 08:09	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			05/03/19 08:09	1
Bromoform	ND		1.0	0.43	ug/Kg			05/03/19 08:09	1
Bromomethane	ND		1.0	0.47	ug/Kg			05/03/19 08:09	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			05/03/19 08:09	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			05/03/19 08:09	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			05/03/19 08:09	1
Chloroethane	ND		1.0	0.52	ug/Kg			05/03/19 08:09	1
Chloroform	ND		1.0	0.32	ug/Kg			05/03/19 08:09	1
Chloromethane	ND		1.0	0.44	ug/Kg			05/03/19 08:09	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			05/03/19 08:09	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/03/19 08:09	1
Cyclohexane	ND		1.0	0.22	ug/Kg			05/03/19 08:09	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			05/03/19 08:09	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			05/03/19 08:09	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			05/03/19 08:09	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			05/03/19 08:09	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: MB 460-607175/8

Matrix: Solid

Analysis Batch: 607175

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			05/03/19 08:09	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			05/03/19 08:09	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			05/03/19 08:09	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			05/03/19 08:09	1
Styrene	ND		1.0	0.12	ug/Kg			05/03/19 08:09	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			05/03/19 08:09	1
Toluene	ND		1.0	0.63	ug/Kg			05/03/19 08:09	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			05/03/19 08:09	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/03/19 08:09	1
Trichloroethene	ND		1.0	0.14	ug/Kg			05/03/19 08:09	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			05/03/19 08:09	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			05/03/19 08:09	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			05/03/19 08:09	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg					05/03/19 08:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		78 - 135		05/03/19 08:09	1
4-Bromofluorobenzene	101		67 - 126		05/03/19 08:09	1
Dibromofluoromethane (Surr)	105		61 - 149		05/03/19 08:09	1
Toluene-d8 (Surr)	98		73 - 121		05/03/19 08:09	1

Lab Sample ID: LCS 460-607175/3

Matrix: Solid

Analysis Batch: 607175

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	20.2		ug/Kg		101	80 - 125
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	72 - 131
1,1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.3		ug/Kg		101	78 - 132
1,1,2-Trichloroethane	20.0	19.0		ug/Kg		95	76 - 124
1,1-Dichloroethane	20.0	21.3		ug/Kg		106	80 - 124
1,1-Dichloroethene	20.0	19.8		ug/Kg		99	79 - 132
1,2,4-Trichlorobenzene	20.0	20.0		ug/Kg		100	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	16.1		ug/Kg		80	65 - 129
1,2-Dibromoethane	20.0	19.0		ug/Kg		95	80 - 122
1,2-Dichlorobenzene	20.0	19.5		ug/Kg		97	80 - 121
1,2-Dichloroethane	20.0	19.3		ug/Kg		97	68 - 120
1,2-Dichloropropane	20.0	20.6		ug/Kg		103	77 - 124
1,3-Dichlorobenzene	20.0	19.4		ug/Kg		97	79 - 124
1,4-Dichlorobenzene	20.0	19.4		ug/Kg		97	79 - 121
2-Butanone (MEK)	100	84.0		ug/Kg		84	61 - 140
2-Hexanone	100	97.1		ug/Kg		97	78 - 120
4-Methyl-2-pentanone (MIBK)	100	100		ug/Kg		100	80 - 120
Acetone	100	95.9		ug/Kg		96	75 - 120
Benzene	20.0	20.9		ug/Kg		104	75 - 127

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: LCS 460-607175/3

Matrix: Solid

Analysis Batch: 607175

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	19.5		ug/Kg		97	76 - 129
Bromoform	20.0	17.1		ug/Kg		85	19 - 150
Bromomethane	20.0	18.6		ug/Kg		93	59 - 136
Carbon disulfide	20.0	19.1		ug/Kg		95	74 - 130
Carbon tetrachloride	20.0	19.2		ug/Kg		96	77 - 138
Chlorobenzene	20.0	19.2		ug/Kg		96	80 - 120
Chloroethane	20.0	20.3		ug/Kg		101	50 - 139
Chloroform	20.0	20.6		ug/Kg		103	80 - 122
Chloromethane	20.0	19.8		ug/Kg		99	66 - 128
cis-1,2-Dichloroethene	20.0	20.3		ug/Kg		101	80 - 123
cis-1,3-Dichloropropene	20.0	18.4		ug/Kg		92	75 - 124
Cyclohexane	20.0	20.4		ug/Kg		102	67 - 135
Dibromochloromethane	20.0	17.0		ug/Kg		85	67 - 143
Dichlorodifluoromethane	20.0	17.8		ug/Kg		89	72 - 127
Ethylbenzene	20.0	19.5		ug/Kg		97	79 - 124
Isopropylbenzene	20.0	20.5		ug/Kg		103	80 - 125
Methyl acetate	40.0	43.0		ug/Kg		107	73 - 123
Methyl tert-butyl ether	20.0	19.7		ug/Kg		99	80 - 120
Methylcyclohexane	20.0	20.6		ug/Kg		103	71 - 137
Methylene Chloride	20.0	22.0		ug/Kg		110	79 - 128
Styrene	20.0	19.1		ug/Kg		96	78 - 123
Tetrachloroethene	20.0	19.1		ug/Kg		96	73 - 130
Toluene	20.0	19.7		ug/Kg		99	75 - 122
trans-1,2-Dichloroethene	20.0	20.3		ug/Kg		101	80 - 129
trans-1,3-Dichloropropene	20.0	16.9		ug/Kg		85	72 - 121
Trichloroethene	20.0	19.7		ug/Kg		99	79 - 122
Trichlorofluoromethane	20.0	21.3		ug/Kg		106	68 - 136
Vinyl chloride	20.0	19.5		ug/Kg		97	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		78 - 135
4-Bromofluorobenzene	101		67 - 126
Dibromofluoromethane (Surr)	101		61 - 149
Toluene-d8 (Surr)	100		73 - 121

Lab Sample ID: LCSD 460-607175/4

Matrix: Solid

Analysis Batch: 607175

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	2	30
1,1,2,2-Tetrachloroethane	20.0	18.5		ug/Kg		92	72 - 131	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/Kg		105	78 - 132	3	30
1,1,2-Trichloroethane	20.0	19.9		ug/Kg		100	76 - 124	5	30
1,1-Dichloroethane	20.0	21.4		ug/Kg		107	80 - 124	0	30
1,1-Dichloroethene	20.0	19.9		ug/Kg		99	79 - 132	0	30
1,2,4-Trichlorobenzene	20.0	20.4		ug/Kg		102	74 - 124	2	30
1,2-Dibromo-3-Chloropropane	20.0	15.3		ug/Kg		76	65 - 129	5	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: LCSD 460-607175/4

Matrix: Solid

Analysis Batch: 607175

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	19.6		ug/Kg		98	80 - 122	3	30
1,2-Dichlorobenzene	20.0	20.0		ug/Kg		100	80 - 121	3	30
1,2-Dichloroethane	20.0	19.6		ug/Kg		98	68 - 120	1	30
1,2-Dichloropropane	20.0	21.0		ug/Kg		105	77 - 124	2	30
1,3-Dichlorobenzene	20.0	20.0		ug/Kg		100	79 - 124	3	30
1,4-Dichlorobenzene	20.0	20.1		ug/Kg		101	79 - 121	4	30
2-Butanone (MEK)	100	86.2		ug/Kg		86	61 - 140	3	30
2-Hexanone	100	94.9		ug/Kg		95	78 - 120	2	30
4-Methyl-2-pentanone (MIBK)	100	98.1		ug/Kg		98	80 - 120	2	30
Acetone	100	90.9		ug/Kg		91	75 - 120	5	30
Benzene	20.0	21.7		ug/Kg		108	75 - 127	4	30
Bromodichloromethane	20.0	19.7		ug/Kg		99	76 - 129	1	30
Bromoform	20.0	17.0		ug/Kg		85	19 - 150	0	30
Bromomethane	20.0	18.2		ug/Kg		91	59 - 136	2	30
Carbon disulfide	20.0	19.0		ug/Kg		95	74 - 130	0	30
Carbon tetrachloride	20.0	18.9		ug/Kg		94	77 - 138	1	30
Chlorobenzene	20.0	19.9		ug/Kg		100	80 - 120	4	30
Chloroethane	20.0	19.4		ug/Kg		97	50 - 139	4	30
Chloroform	20.0	20.9		ug/Kg		105	80 - 122	2	30
Chloromethane	20.0	19.5		ug/Kg		97	66 - 128	2	30
cis-1,2-Dichloroethene	20.0	20.4		ug/Kg		102	80 - 123	1	30
cis-1,3-Dichloropropene	20.0	19.4		ug/Kg		97	75 - 124	5	30
Cyclohexane	20.0	20.6		ug/Kg		103	67 - 135	1	30
Dibromochloromethane	20.0	17.6		ug/Kg		88	67 - 143	4	30
Dichlorodifluoromethane	20.0	17.2		ug/Kg		86	72 - 127	4	30
Ethylbenzene	20.0	20.2		ug/Kg		101	79 - 124	3	30
Isopropylbenzene	20.0	21.0		ug/Kg		105	80 - 125	2	30
Methyl acetate	40.0	41.1		ug/Kg		103	73 - 123	4	30
Methyl tert-butyl ether	20.0	19.4		ug/Kg		97	80 - 120	2	30
Methylcyclohexane	20.0	20.7		ug/Kg		104	71 - 137	1	30
Methylene Chloride	20.0	23.3		ug/Kg		116	79 - 128	5	30
Styrene	20.0	20.3		ug/Kg		102	78 - 123	6	30
Tetrachloroethene	20.0	19.8		ug/Kg		99	73 - 130	4	30
Toluene	20.0	20.4		ug/Kg		102	75 - 122	3	30
trans-1,2-Dichloroethene	20.0	20.4		ug/Kg		102	80 - 129	1	30
trans-1,3-Dichloropropene	20.0	18.1		ug/Kg		90	72 - 121	6	30
Trichloroethene	20.0	20.4		ug/Kg		102	79 - 122	3	30
Trichlorofluoromethane	20.0	21.0		ug/Kg		105	68 - 136	1	30
Vinyl chloride	20.0	19.6		ug/Kg		98	70 - 134	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		78 - 135
4-Bromofluorobenzene	104		67 - 126
Dibromofluoromethane (Surr)	102		61 - 149
Toluene-d8 (Surr)	102		73 - 121

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: MB 460-606926/1-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2-Chloronaphthalene	ND		330	15	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2-Chlorophenol	ND		330	4.6	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2-Methylphenol	ND		330	5.3	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2-Nitroaniline	ND		330	12	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
2-Nitrophenol	ND		330	11	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
3-Nitroaniline	ND		330	18	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4-Chloroaniline	ND		330	23	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4-Methylphenol	ND		330	5.6	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4-Nitroaniline	ND		330	12	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
4-Nitrophenol	ND		670	54	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Acenaphthene	ND		330	24	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Acenaphthylene	ND		330	3.4	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Acetophenone	ND		330	5.3	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Anthracene	ND		330	3.7	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Atrazine	ND		130	8.3	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Benzaldehyde	ND		330	14	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Benzo[a]anthracene	ND		33	12	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Biphenyl	ND		330	4.4	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Caprolactam	ND		330	20	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Carbazole	ND		330	3.9	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Chrysene	ND		330	5.6	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Dibenzofuran	ND		330	4.6	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Diethyl phthalate	ND		330	4.8	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		05/02/19 09:02	05/02/19 19:31	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: MB 460-606926/1-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 606926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		330	18	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Fluoranthene	ND		330	4.3	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Fluorene	ND		330	4.5	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Hexachloroethane	ND		33	5.1	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Isophorone	ND		130	8.7	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Naphthalene	ND		330	5.7	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Nitrobenzene	ND		33	7.9	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Pentachlorophenol	ND		270	68	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Phenanthrene	ND		330	5.8	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Phenol	ND		330	4.9	ug/Kg		05/02/19 09:02	05/02/19 19:31	1
Pyrene	ND		330	8.2	ug/Kg		05/02/19 09:02	05/02/19 19:31	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Aldol condensation product	369	T A J	ug/Kg		2.82		05/02/19 09:02	05/02/19 19:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		10 - 137	05/02/19 09:02	05/02/19 19:31	1
2-Fluorobiphenyl (Surr)	95		29 - 107	05/02/19 09:02	05/02/19 19:31	1
2-Fluorophenol (Surr)	102		20 - 115	05/02/19 09:02	05/02/19 19:31	1
Nitrobenzene-d5 (Surr)	93		25 - 113	05/02/19 09:02	05/02/19 19:31	1
Phenol-d5 (Surr)	97		28 - 109	05/02/19 09:02	05/02/19 19:31	1
Terphenyl-d14 (Surr)	102		27 - 123	05/02/19 09:02	05/02/19 19:31	1

Lab Sample ID: LCS 460-606926/2-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	3330	3020		ug/Kg		90	60 - 106
2,4,6-Trichlorophenol	3330	3150		ug/Kg		95	62 - 110
2,4-Dichlorophenol	3330	3080		ug/Kg		92	61 - 103
2,4-Dimethylphenol	3330	2850		ug/Kg		85	63 - 101
2,4-Dinitrophenol	6670	5100		ug/Kg		77	56 - 122
2,4-Dinitrotoluene	3330	3090		ug/Kg		93	66 - 122
2,6-Dinitrotoluene	3330	3370		ug/Kg		101	70 - 114
2-Chloronaphthalene	3330	3090		ug/Kg		93	63 - 107
2-Chlorophenol	3330	2820		ug/Kg		85	62 - 97
2-Methylnaphthalene	3330	2890		ug/Kg		87	65 - 104
2-Methylphenol	3330	2790		ug/Kg		84	61 - 103
2-Nitroaniline	3330	3050		ug/Kg		91	57 - 114
2-Nitrophenol	3330	2910		ug/Kg		87	65 - 104
3,3'-Dichlorobenzidine	3330	2130		ug/Kg		64	18 - 88

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: LCS 460-606926/2-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	3330	2480		ug/Kg		74	30 - 94
4,6-Dinitro-2-methylphenol	6670	6160		ug/Kg		92	67 - 120
4-Bromophenyl phenyl ether	3330	3100		ug/Kg		93	59 - 122
4-Chloro-3-methylphenol	3330	2970		ug/Kg		89	62 - 111
4-Chloroaniline	3330	2490		ug/Kg		75	18 - 94
4-Chlorophenyl phenyl ether	3330	3180		ug/Kg		95	66 - 110
4-Methylphenol	3330	2860		ug/Kg		86	61 - 105
4-Nitroaniline	3330	2780		ug/Kg		83	49 - 118
4-Nitrophenol	6670	5490		ug/Kg		82	43 - 141
Acenaphthene	3330	2660		ug/Kg		80	62 - 108
Acenaphthylene	3330	3070		ug/Kg		92	67 - 107
Acetophenone	3330	2760		ug/Kg		83	60 - 109
Anthracene	3330	3050		ug/Kg		92	69 - 111
Benzo[a]anthracene	3330	3070		ug/Kg		92	68 - 110
Benzo[a]pyrene	3330	3090		ug/Kg		93	72 - 115
Benzo[b]fluoranthene	3330	3280		ug/Kg		99	69 - 119
Benzo[g,h,i]perylene	3330	2820		ug/Kg		85	54 - 128
Benzo[k]fluoranthene	3330	3300		ug/Kg		99	70 - 115
Biphenyl	3330	3100		ug/Kg		93	64 - 108
bis (2-chloroisopropyl) ether	3330	2270		ug/Kg		68	39 - 122
Bis(2-chloroethoxy)methane	3330	2750		ug/Kg		83	65 - 106
Bis(2-chloroethyl)ether	3330	2690		ug/Kg		81	64 - 105
Bis(2-ethylhexyl) phthalate	3330	3260		ug/Kg		98	63 - 125
Butyl benzyl phthalate	3330	3220		ug/Kg		97	65 - 125
Carbazole	3330	2910		ug/Kg		87	66 - 115
Chrysene	3330	3130		ug/Kg		94	70 - 111
Dibenz(a,h)anthracene	3330	3260		ug/Kg		98	60 - 130
Dibenzofuran	3330	3040		ug/Kg		91	67 - 107
Diethyl phthalate	3330	3020		ug/Kg		91	66 - 117
Dimethyl phthalate	3330	3010		ug/Kg		90	68 - 112
Di-n-butyl phthalate	3330	3070		ug/Kg		92	67 - 119
Di-n-octyl phthalate	3330	3410		ug/Kg		102	57 - 138
Fluoranthene	3330	2970		ug/Kg		89	64 - 114
Fluorene	3330	3070		ug/Kg		92	66 - 110
Hexachlorobenzene	3330	3220		ug/Kg		97	57 - 128
Hexachlorobutadiene	3330	2950		ug/Kg		89	60 - 108
Hexachlorocyclopentadiene	3330	2620		ug/Kg		79	50 - 129
Hexachloroethane	3330	2880		ug/Kg		86	63 - 99
Indeno[1,2,3-cd]pyrene	3330	3320		ug/Kg		100	53 - 137
Isophorone	3330	2750		ug/Kg		83	68 - 111
Naphthalene	3330	2750		ug/Kg		82	65 - 102
Nitrobenzene	3330	2830		ug/Kg		85	66 - 108
N-Nitrosodi-n-propylamine	3330	2810		ug/Kg		84	63 - 117
N-Nitrosodiphenylamine	3330	3120		ug/Kg		93	65 - 114
Pentachlorophenol	6670	5390		ug/Kg		81	56 - 116
Phenanthrene	3330	3080		ug/Kg		92	68 - 111
Phenol	3330	3000		ug/Kg		90	58 - 103
Pyrene	3330	3270		ug/Kg		98	64 - 121

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: LCS 460-606926/2-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606926

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	94		10 - 137
2-Fluorobiphenyl (Surr)	86		29 - 107
2-Fluorophenol (Surr)	85		20 - 115
Nitrobenzene-d5 (Surr)	80		25 - 113
Phenol-d5 (Surr)	83		28 - 109
Terphenyl-d14 (Surr)	90		27 - 123

Lab Sample ID: LCS 460-606926/4-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 606926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	4890		ug/Kg		73	62 - 137
Benzaldehyde	6670	6630		ug/Kg		99	52 - 113
Caprolactam	6670	7470		ug/Kg		112	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	100		10 - 137
2-Fluorobiphenyl (Surr)	94		29 - 107
2-Fluorophenol (Surr)	100		20 - 115
Nitrobenzene-d5 (Surr)	94		25 - 113
Phenol-d5 (Surr)	96		28 - 109
Terphenyl-d14 (Surr)	100		27 - 123

Lab Sample ID: LCSD 460-606926/3-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 606926

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	3330	2990		ug/Kg		90	60 - 106	1	30
2,4,6-Trichlorophenol	3330	3130		ug/Kg		94	62 - 110	1	30
2,4-Dichlorophenol	3330	3140		ug/Kg		94	61 - 103	2	30
2,4-Dimethylphenol	3330	3030		ug/Kg		91	63 - 101	6	30
2,4-Dinitrophenol	6670	5230		ug/Kg		78	56 - 122	2	30
2,4-Dinitrotoluene	3330	3200		ug/Kg		96	66 - 122	4	30
2,6-Dinitrotoluene	3330	3440		ug/Kg		103	70 - 114	2	30
2-Chloronaphthalene	3330	3040		ug/Kg		91	63 - 107	2	30
2-Chlorophenol	3330	2800		ug/Kg		84	62 - 97	1	30
2-Methylnaphthalene	3330	2990		ug/Kg		90	65 - 104	4	30
2-Methylphenol	3330	2780		ug/Kg		83	61 - 103	0	30
2-Nitroaniline	3330	3140		ug/Kg		94	57 - 114	3	30
2-Nitrophenol	3330	2860		ug/Kg		86	65 - 104	2	30
3,3'-Dichlorobenzidine	3330	2260		ug/Kg		68	18 - 88	6	30
3-Nitroaniline	3330	2560		ug/Kg		77	30 - 94	3	30
4,6-Dinitro-2-methylphenol	6670	6450		ug/Kg		97	67 - 120	5	30
4-Bromophenyl phenyl ether	3330	3180		ug/Kg		95	59 - 122	3	30
4-Chloro-3-methylphenol	3330	3270		ug/Kg		98	62 - 111	10	30
4-Chloroaniline	3330	2570		ug/Kg		77	18 - 94	3	30

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QC Sample Results

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

Job ID: 460-180817-1

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

Lab Sample ID: LCSD 460-606926/3-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 606926

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	3330	3150		ug/Kg		95	66 - 110	1	30
4-Methylphenol	3330	2960		ug/Kg		89	61 - 105	3	30
4-Nitroaniline	3330	2820		ug/Kg		85	49 - 118	2	30
4-Nitrophenol	6670	5580		ug/Kg		84	43 - 141	2	30
Acenaphthene	3330	2590		ug/Kg		78	62 - 108	3	30
Acenaphthylene	3330	2980		ug/Kg		89	67 - 107	3	30
Acetophenone	3330	2820		ug/Kg		85	60 - 109	2	30
Anthracene	3330	3150		ug/Kg		95	69 - 111	3	30
Benzo[a]anthracene	3330	3020		ug/Kg		91	68 - 110	2	30
Benzo[a]pyrene	3330	3010		ug/Kg		90	72 - 115	3	30
Benzo[b]fluoranthene	3330	3000		ug/Kg		90	69 - 119	9	30
Benzo[g,h,i]perylene	3330	2870		ug/Kg		86	54 - 128	2	30
Benzo[k]fluoranthene	3330	3320		ug/Kg		100	70 - 115	1	30
Biphenyl	3330	2910		ug/Kg		87	64 - 108	6	30
bis (2-chloroisopropyl) ether	3330	2330		ug/Kg		70	39 - 122	2	30
Bis(2-chloroethoxy)methane	3330	2790		ug/Kg		84	65 - 106	1	30
Bis(2-chloroethyl)ether	3330	2600		ug/Kg		78	64 - 105	3	30
Bis(2-ethylhexyl) phthalate	3330	3310		ug/Kg		99	63 - 125	1	30
Butyl benzyl phthalate	3330	3280		ug/Kg		98	65 - 125	2	30
Carbazole	3330	3010		ug/Kg		90	66 - 115	3	30
Chrysene	3330	3250		ug/Kg		97	70 - 111	4	30
Dibenz(a,h)anthracene	3330	3300		ug/Kg		99	60 - 130	1	30
Dibenzofuran	3330	2980		ug/Kg		89	67 - 107	2	30
Diethyl phthalate	3330	3100		ug/Kg		93	66 - 117	2	30
Dimethyl phthalate	3330	3070		ug/Kg		92	68 - 112	2	30
Di-n-butyl phthalate	3330	3180		ug/Kg		96	67 - 119	4	30
Di-n-octyl phthalate	3330	3300		ug/Kg		99	57 - 138	3	30
Fluoranthene	3330	3020		ug/Kg		90	64 - 114	2	30
Fluorene	3330	3080		ug/Kg		92	66 - 110	0	30
Hexachlorobenzene	3330	3200		ug/Kg		96	57 - 128	1	30
Hexachlorobutadiene	3330	2970		ug/Kg		89	60 - 108	1	30
Hexachlorocyclopentadiene	3330	2490		ug/Kg		75	50 - 129	5	30
Hexachloroethane	3330	2730		ug/Kg		82	63 - 99	5	30
Indeno[1,2,3-cd]pyrene	3330	3230		ug/Kg		97	53 - 137	3	30
Isophorone	3330	2810		ug/Kg		84	68 - 111	2	30
Naphthalene	3330	2830		ug/Kg		85	65 - 102	3	30
Nitrobenzene	3330	2850		ug/Kg		86	66 - 108	1	30
N-Nitrosodi-n-propylamine	3330	2840		ug/Kg		85	63 - 117	1	30
N-Nitrosodiphenylamine	3330	3140		ug/Kg		94	65 - 114	1	30
Pentachlorophenol	6670	5540		ug/Kg		83	56 - 116	3	30
Phenanthrene	3330	3060		ug/Kg		92	68 - 111	1	30
Phenol	3330	3040		ug/Kg		91	58 - 103	1	30
Pyrene	3330	3230		ug/Kg		97	64 - 121	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		10 - 137
2-Fluorobiphenyl (Surr)	83		29 - 107
2-Fluorophenol (Surr)	82		20 - 115

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QC Sample Results

Client: AECOM

Job ID: 460-180817-1

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

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

Lab Sample ID: LCSD 460-606926/3-A

Matrix: Solid

Analysis Batch: 607061

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 606926

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	82		25 - 113
Phenol-d5 (Surr)	82		28 - 109
Terphenyl-d14 (Surr)	90		27 - 123

QC Association Summary

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

Job ID: 460-180817-1

GC/MS VOA

Prep Batch: 606788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180817-1	PWEXBM04144	Total/NA	Solid	5035	
LB3 460-606788/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 607175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180817-1	PWEXBM04144	Total/NA	Solid	8260C	606788
LB3 460-606788/1-A	Method Blank	Total/NA	Solid	8260C	606788
MB 460-607175/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-607175/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-607175/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 606926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180817-1	PWEXBM04144	Total/NA	Solid	3546	
MB 460-606926/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-606926/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-606926/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-606926/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 607061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180817-1	PWEXBM04144	Total/NA	Solid	8270D	606926
MB 460-606926/1-A	Method Blank	Total/NA	Solid	8270D	606926
LCS 460-606926/2-A	Lab Control Sample	Total/NA	Solid	8270D	606926
LCS 460-606926/4-A	Lab Control Sample	Total/NA	Solid	8270D	606926
LCSD 460-606926/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	606926

General Chemistry

Analysis Batch: 606897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180817-1	PWEXBM04144	Total/NA	Solid	Moisture	

Lab Chronicle

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

Job ID: 460-180817-1

Client Sample ID: PWEXBM04144

Date Collected: 04/30/19 13:50

Date Received: 05/01/19 09:00

Lab Sample ID: 460-180817-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	606897	05/02/19 07:58	MMC	TAL EDI

Client Sample ID: PWEXBM04144

Date Collected: 04/30/19 13:50

Date Received: 05/01/19 09:00

Lab Sample ID: 460-180817-1

Matrix: Solid

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			606788	05/01/19 21:16	AVM	TAL EDI
Total/NA	Analysis	8260C		1	607175	05/03/19 12:23	AAT	TAL EDI
Total/NA	Prep	3546			606926	05/02/19 09:02	YXY	TAL EDI
Total/NA	Analysis	8270D		1	607061	05/02/19 22:42	SK	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: 460-180817-1

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: 460-180817-1

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: 460-180817-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-180817-1	PWEXBM04144	Solid	04/30/19 13:50	05/01/19 09:00

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Chain of Custody Record

[illegible]

Job Number:

18087

Number of Coolers:

IR Gun #

九

Cooler Temperatures

RAW		CORRECTED		RAW		CORRECTED			
Cooler #1	29 °C		°C	Cooler #4		°C	Cooler #7		°C
Cooler #2	°C	°C	°C	Cooler #5		°C	Cooler #8		°C
Cooler #3	°C	°C	°C	Cooler #6		°C	Cooler #9		°C

TALS Sample Number

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

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:

5

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

Date:

6/1/9

Login Sample Receipt Checklist

Client: AECOM

Job Number: 460-180817-1

Login Number: 180817

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.	N/A	No: Not present
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

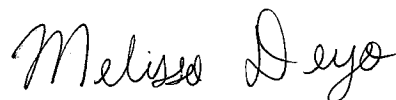
Laboratory Job ID: 460-180912-1

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:
5/6/2019 3:39:09 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: 460-180912-1

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

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: 460-180912-1

Job ID: 460-180912-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-180912-1

Receipt

The sample was received on 5/2/2019 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 460-607479 was outside the method criteria for the following analytes: Chloromethane and Dichlorodifluoromethane. 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 continuing calibration verification (CCV) analyzed in batch 460-607612 was outside the method criteria for the following analyte: Dichlorodifluoromethane. 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 is considered estimated.

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 460-607375 was outside the method criteria for the following analytes: 4-Methylphenol and Indeno[1,2,3-cd]pyrene. 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

Job ID: 460-180912-1

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

Client Sample ID: PWEXBM04146

Lab Sample ID: 460-180912-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	B	6.0	4.6	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	0.34	J B	1.2	0.20	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	35	J	39	14	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	26	J	39	11	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	34	J	39	10	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	14	J	39	7.8	ug/Kg	1	✱	8270D	Total/NA
Chrysene	28	J	390	6.7	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	46	J	390	5.1	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	40	J	390	6.9	ug/Kg	1	✱	8270D	Total/NA
Pyrene	52	J	390	9.8	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: 460-180912-1

Client Sample ID: PWEXBM04146

Lab Sample ID: 460-180912-1

Date Collected: 05/01/19 11:44

Matrix: Solid

Date Received: 05/02/19 09:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.2	0.28	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,1,2,2-Tetrachloroethane	ND		1.2	0.26	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.2	0.36	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,1,2-Trichloroethane	ND		1.2	0.22	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,1-Dichloroethane	ND		1.2	0.25	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,1-Dichloroethene	ND		1.2	0.27	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,2,4-Trichlorobenzene	ND		1.2	0.11	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,2-Dibromo-3-Chloropropane	ND		1.2	0.56	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,2-Dibromoethane	ND		1.2	0.22	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,2-Dichlorobenzene	ND		1.2	0.17	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,2-Dichloroethane	ND		1.2	0.36	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,2-Dichloropropane	ND		1.2	0.51	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,3-Dichlorobenzene	ND		1.2	0.19	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
1,4-Dichlorobenzene	ND		1.2	0.12	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
2-Butanone (MEK)	ND		6.0	1.3	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
2-Hexanone	ND		6.0	0.94	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		6.0	0.80	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Acetone	14	B	6.0	4.6	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Benzene	ND		1.2	0.31	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Bromodichloromethane	ND		1.2	0.31	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Bromoform	ND		1.2	0.51	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Bromomethane	ND		1.2	0.57	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Carbon disulfide	ND		1.2	0.32	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Carbon tetrachloride	ND		1.2	0.22	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Chlorobenzene	ND		1.2	0.21	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Chloroethane	ND		1.2	0.63	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Chloroform	ND		1.2	0.39	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Chloromethane	ND		1.2	0.53	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
cis-1,2-Dichloroethene	ND		1.2	0.18	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
cis-1,3-Dichloropropene	ND		1.2	0.33	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Cyclohexane	ND		1.2	0.27	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Dibromochloromethane	ND		1.2	0.23	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Dichlorodifluoromethane	ND		1.2	0.41	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Ethylbenzene	ND		1.2	0.24	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Isopropylbenzene	ND		1.2	0.15	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Methyl acetate	ND		6.0	5.2	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Methyl tert-butyl ether	ND		1.2	0.15	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Methylcyclohexane	ND		1.2	0.19	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Methylene Chloride	0.34	J B	1.2	0.20	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Styrene	ND		1.2	0.15	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Tetrachloroethene	ND		1.2	0.17	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Toluene	ND		1.2	0.76	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
trans-1,2-Dichloroethene	ND		1.2	0.30	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
trans-1,3-Dichloropropene	ND		1.2	0.32	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Trichloroethene	ND		1.2	0.17	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Trichlorofluoromethane	ND		1.2	0.49	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Vinyl chloride	ND		1.2	0.66	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1
Xylenes, Total	ND		2.4	0.31	ug/Kg	☼	05/02/19 22:24	05/04/19 17:34	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180912-1

Client Sample ID: PWEXBM04146

Lab Sample ID: 460-180912-1

Date Collected: 05/01/19 11:44

Matrix: Solid

Date Received: 05/02/19 09:00

Percent Solids: 83.8

<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>05/02/19 22:24</i>	<i>05/04/19 17:34</i>	<i>1</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		78 - 135				05/02/19 22:24	05/04/19 17:34	1
4-Bromofluorobenzene	102		67 - 126				05/02/19 22:24	05/04/19 17:34	1
Dibromofluoromethane (Surr)	101		61 - 149				05/02/19 22:24	05/04/19 17:34	1
Toluene-d8 (Surr)	100		73 - 121				05/02/19 22:24	05/04/19 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		390	13	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2,4,6-Trichlorophenol	ND		160	20	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2,4-Dichlorophenol	ND		160	8.3	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2,4-Dimethylphenol	ND		390	17	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2,4-Dinitrophenol	ND		320	190	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2,4-Dinitrotoluene	ND		80	20	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2,6-Dinitrotoluene	ND		80	13	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2-Chloronaphthalene	ND		390	18	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2-Chlorophenol	ND		390	5.5	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2-Methylnaphthalene	ND		390	4.9	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2-Methylphenol	ND		390	6.4	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2-Nitroaniline	ND		390	15	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
2-Nitrophenol	ND		390	13	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
3,3'-Dichlorobenzidine	ND		160	60	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
3-Nitroaniline	ND		390	21	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4,6-Dinitro-2-methylphenol	ND		320	64	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4-Bromophenyl phenyl ether	ND		390	5.1	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4-Chloro-3-methylphenol	ND		390	6.6	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4-Chloroaniline	ND		390	28	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4-Chlorophenyl phenyl ether	ND		390	6.2	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4-Methylphenol	ND		390	6.7	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4-Nitroaniline	ND		390	15	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
4-Nitrophenol	ND		800	64	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Acenaphthene	ND		390	29	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Acenaphthylene	ND		390	4.1	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Acetophenone	ND		390	6.4	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Anthracene	ND		390	4.4	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Atrazine	ND		160	10	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Benzaldehyde	ND		390	17	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Benzo[a]anthracene	35	J	39	14	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Benzo[a]pyrene	26	J	39	11	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Benzo[b]fluoranthene	34	J	39	10	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Benzo[g,h,i]perylene	ND		390	12	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Benzo[k]fluoranthene	14	J	39	7.8	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Biphenyl	ND		390	5.2	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
bis (2-chloroisopropyl) ether	ND		390	7.2	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Bis(2-chloroethoxy)methane	ND		390	14	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Bis(2-chloroethyl)ether	ND		39	4.8	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Bis(2-ethylhexyl) phthalate	ND		390	21	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Butyl benzyl phthalate	ND		390	19	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-180912-1

Client Sample ID: PWEXBM04146

Lab Sample ID: 460-180912-1

Date Collected: 05/01/19 11:44

Matrix: Solid

Date Received: 05/02/19 09:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	ND		390	24	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Carbazole	ND		390	4.6	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Chrysene	28	J	390	6.7	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Dibenz(a,h)anthracene	ND		39	17	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Dibenzofuran	ND		390	5.6	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Diethyl phthalate	ND		390	5.7	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Dimethyl phthalate	ND		390	4.8	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Di-n-butyl phthalate	ND		390	70	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Di-n-octyl phthalate	ND		390	21	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Fluoranthene	46	J	390	5.1	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Fluorene	ND		390	5.4	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Hexachlorobenzene	ND		39	5.8	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Hexachlorobutadiene	ND		80	8.4	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Hexachlorocyclopentadiene	ND		390	35	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Hexachloroethane	ND		39	6.1	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Indeno[1,2,3-cd]pyrene	ND		39	15	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Isophorone	ND		160	10	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Naphthalene	ND		390	6.8	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Nitrobenzene	ND		39	9.5	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
N-Nitrosodi-n-propylamine	ND		39	6.3	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
N-Nitrosodiphenylamine	ND		390	7.6	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Pentachlorophenol	ND		320	81	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Phenanthrene	40	J	390	6.9	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Phenol	ND		390	5.9	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1
Pyrene	52	J	390	9.8	ug/Kg	☼	05/03/19 12:00	05/04/19 01:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			05/03/19 12:00	05/04/19 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 137	05/03/19 12:00	05/04/19 01:41	1
2-Fluorobiphenyl (Surr)	56		29 - 107	05/03/19 12:00	05/04/19 01:41	1
2-Fluorophenol (Surr)	54		20 - 115	05/03/19 12:00	05/04/19 01:41	1
Nitrobenzene-d5 (Surr)	46		25 - 113	05/03/19 12:00	05/04/19 01:41	1
Phenol-d5 (Surr)	48		28 - 109	05/03/19 12:00	05/04/19 01:41	1
Terphenyl-d14 (Surr)	64		27 - 123	05/03/19 12:00	05/04/19 01:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.2		1.0	1.0	%			05/03/19 12:28	1
Percent Solids	83.8		1.0	1.0	%			05/03/19 12:28	1

Eurofins TestAmerica, Edison

Surrogate Summary

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

Job ID: 460-180912-1

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)
460-180912-1	PWEXBM04146	102	102	101	100
LB3 460-607137/2-A	Method Blank	91	107	98	100
LCS 460-607479/3	Lab Control Sample	96	105	102	103
LCS 460-607612/3	Lab Control Sample	89	106	95	101
LCSD 460-607479/4	Lab Control Sample Dup	94	102	100	105
LCSD 460-607612/4	Lab Control Sample Dup	91	105	97	102
MB 460-607479/8	Method Blank	96	103	101	103
MB 460-607612/8	Method Blank	93	108	102	105

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)
460-180912-1	PWEXBM04146	56	56	54	46	48	64
LCS 460-607306/2-A	Lab Control Sample	82	80	73	65	70	83
LCS 460-607306/4-A	Lab Control Sample	91	87	84	75	78	97
LCSD 460-607306/3-A	Lab Control Sample Dup	86	84	77	69	73	88
MB 460-607306/1-A	Method Blank	83	76	73	66	67	84

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: 460-180912-1

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

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

Lab Sample ID: LB3 460-607137/2-A

Matrix: Solid

Analysis Batch: 607612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 607137

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
2-Hexanone	ND		5.0	0.78	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Acetone	4.88	J	5.0	3.8	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Benzene	ND		1.0	0.26	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Bromoform	ND		1.0	0.43	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Bromomethane	ND		1.0	0.47	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Carbon disulfide	ND		1.0	0.27	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Chlorobenzene	ND		1.0	0.18	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Chloroethane	ND		1.0	0.52	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Chloroform	ND		1.0	0.32	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Chloromethane	ND		1.0	0.44	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Cyclohexane	ND		1.0	0.22	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Ethylbenzene	ND		1.0	0.20	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Methyl acetate	ND		5.0	4.3	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Methylcyclohexane	0.259	J	1.0	0.16	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Methylene Chloride	0.400	J	1.0	0.16	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Styrene	ND		1.0	0.12	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Tetrachloroethene	0.143	J	1.0	0.14	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Toluene	ND		1.0	0.63	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Trichloroethene	ND		1.0	0.14	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Vinyl chloride	ND		1.0	0.55	ug/Kg		05/02/19 22:23	05/05/19 08:48	1
Xylenes, Total	ND		2.0	0.25	ug/Kg		05/02/19 22:23	05/05/19 08:48	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180912-1

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

Lab Sample ID: LB3 460-607137/2-A

Matrix: Solid

Analysis Batch: 607612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 607137

	LB3	LB3							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	23.0		ug/Kg		3.19	67-63-0	05/02/19 22:23	05/05/19 08:48	1
Tentatively Identified Compound	None		ug/Kg				05/02/19 22:23	05/05/19 08:48	1

	LB3	LB3							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		78 - 135				05/02/19 22:23	05/05/19 08:48	1
4-Bromofluorobenzene	107		67 - 126				05/02/19 22:23	05/05/19 08:48	1
Dibromofluoromethane (Surr)	98		61 - 149				05/02/19 22:23	05/05/19 08:48	1
Toluene-d8 (Surr)	100		73 - 121				05/02/19 22:23	05/05/19 08:48	1

Lab Sample ID: MB 460-607479/8

Matrix: Solid

Analysis Batch: 607479

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			05/04/19 09:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			05/04/19 09:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			05/04/19 09:47	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			05/04/19 09:47	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			05/04/19 09:47	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			05/04/19 09:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			05/04/19 09:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			05/04/19 09:47	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			05/04/19 09:47	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			05/04/19 09:47	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			05/04/19 09:47	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			05/04/19 09:47	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			05/04/19 09:47	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			05/04/19 09:47	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			05/04/19 09:47	1
2-Hexanone	ND		5.0	0.78	ug/Kg			05/04/19 09:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			05/04/19 09:47	1
Acetone	ND		5.0	3.8	ug/Kg			05/04/19 09:47	1
Benzene	ND		1.0	0.26	ug/Kg			05/04/19 09:47	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			05/04/19 09:47	1
Bromoform	ND		1.0	0.43	ug/Kg			05/04/19 09:47	1
Bromomethane	ND		1.0	0.47	ug/Kg			05/04/19 09:47	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			05/04/19 09:47	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			05/04/19 09:47	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			05/04/19 09:47	1
Chloroethane	ND		1.0	0.52	ug/Kg			05/04/19 09:47	1
Chloroform	ND		1.0	0.32	ug/Kg			05/04/19 09:47	1
Chloromethane	ND		1.0	0.44	ug/Kg			05/04/19 09:47	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			05/04/19 09:47	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/04/19 09:47	1
Cyclohexane	ND		1.0	0.22	ug/Kg			05/04/19 09:47	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			05/04/19 09:47	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			05/04/19 09:47	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			05/04/19 09:47	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180912-1

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

Lab Sample ID: MB 460-607479/8

Matrix: Solid

Analysis Batch: 607479

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.13	ug/Kg			05/04/19 09:47	1
Methyl acetate	ND		5.0	4.3	ug/Kg			05/04/19 09:47	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			05/04/19 09:47	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			05/04/19 09:47	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			05/04/19 09:47	1
Styrene	ND		1.0	0.12	ug/Kg			05/04/19 09:47	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			05/04/19 09:47	1
Toluene	ND		1.0	0.63	ug/Kg			05/04/19 09:47	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			05/04/19 09:47	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/04/19 09:47	1
Trichloroethene	ND		1.0	0.14	ug/Kg			05/04/19 09:47	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			05/04/19 09:47	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			05/04/19 09:47	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			05/04/19 09:47	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg					05/04/19 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135		05/04/19 09:47	1
4-Bromofluorobenzene	103		67 - 126		05/04/19 09:47	1
Dibromofluoromethane (Surr)	101		61 - 149		05/04/19 09:47	1
Toluene-d8 (Surr)	103		73 - 121		05/04/19 09:47	1

Lab Sample ID: LCS 460-607479/3

Matrix: Solid

Analysis Batch: 607479

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	18.6		ug/Kg		93	80 - 125
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/Kg		98	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.6		ug/Kg		98	78 - 132
1,1,2-Trichloroethane	20.0	19.0		ug/Kg		95	76 - 124
1,1-Dichloroethane	20.0	19.8		ug/Kg		99	80 - 124
1,1-Dichloroethene	20.0	19.6		ug/Kg		98	79 - 132
1,2,4-Trichlorobenzene	20.0	20.1		ug/Kg		101	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/Kg		100	65 - 129
1,2-Dibromoethane	20.0	18.6		ug/Kg		93	80 - 122
1,2-Dichlorobenzene	20.0	19.0		ug/Kg		95	80 - 121
1,2-Dichloroethane	20.0	18.2		ug/Kg		91	68 - 120
1,2-Dichloropropane	20.0	19.0		ug/Kg		95	77 - 124
1,3-Dichlorobenzene	20.0	18.8		ug/Kg		94	79 - 124
1,4-Dichlorobenzene	20.0	18.7		ug/Kg		94	79 - 121
2-Butanone (MEK)	100	92.6		ug/Kg		93	61 - 140
2-Hexanone	100	86.5		ug/Kg		86	78 - 120
4-Methyl-2-pentanone (MIBK)	100	90.1		ug/Kg		90	80 - 120
Acetone	100	95.5		ug/Kg		96	75 - 120

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180912-1

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

Lab Sample ID: LCS 460-607479/3

Matrix: Solid

Analysis Batch: 607479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.1		ug/Kg		100	75 - 127
Bromodichloromethane	20.0	18.3		ug/Kg		92	76 - 129
Bromoform	20.0	18.7		ug/Kg		94	19 - 150
Bromomethane	20.0	17.6		ug/Kg		88	59 - 136
Carbon disulfide	20.0	19.4		ug/Kg		97	74 - 130
Carbon tetrachloride	20.0	18.5		ug/Kg		93	77 - 138
Chlorobenzene	20.0	19.2		ug/Kg		96	80 - 120
Chloroethane	20.0	17.9		ug/Kg		90	50 - 139
Chloroform	20.0	19.2		ug/Kg		96	80 - 122
Chloromethane	20.0	15.6		ug/Kg		78	66 - 128
cis-1,2-Dichloroethene	20.0	19.7		ug/Kg		99	80 - 123
cis-1,3-Dichloropropene	20.0	18.9		ug/Kg		95	75 - 124
Cyclohexane	20.0	19.6		ug/Kg		98	67 - 135
Dibromochloromethane	20.0	18.6		ug/Kg		93	67 - 143
Dichlorodifluoromethane	20.0	15.4		ug/Kg		77	72 - 127
Ethylbenzene	20.0	18.6		ug/Kg		93	79 - 124
Isopropylbenzene	20.0	19.3		ug/Kg		97	80 - 125
Methyl acetate	40.0	39.4		ug/Kg		99	73 - 123
Methyl tert-butyl ether	20.0	19.2		ug/Kg		96	80 - 120
Methylcyclohexane	20.0	20.1		ug/Kg		101	71 - 137
Methylene Chloride	20.0	21.7		ug/Kg		108	79 - 128
Styrene	20.0	18.8		ug/Kg		94	78 - 123
Tetrachloroethene	20.0	19.2		ug/Kg		96	73 - 130
Toluene	20.0	19.2		ug/Kg		96	75 - 122
trans-1,2-Dichloroethene	20.0	20.0		ug/Kg		100	80 - 129
trans-1,3-Dichloropropene	20.0	18.6		ug/Kg		93	72 - 121
Trichloroethene	20.0	18.9		ug/Kg		95	79 - 122
Trichlorofluoromethane	20.0	18.1		ug/Kg		91	68 - 136
Vinyl chloride	20.0	17.9		ug/Kg		90	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		78 - 135
4-Bromofluorobenzene	105		67 - 126
Dibromofluoromethane (Surr)	102		61 - 149
Toluene-d8 (Surr)	103		73 - 121

Lab Sample ID: LCSD 460-607479/4

Matrix: Solid

Analysis Batch: 607479

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	17.9		ug/Kg		89	80 - 125	4	30
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/Kg		103	72 - 131	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/Kg		92	78 - 132	6	30
1,1,2-Trichloroethane	20.0	19.6		ug/Kg		98	76 - 124	3	30
1,1-Dichloroethane	20.0	18.9		ug/Kg		94	80 - 124	5	30
1,1-Dichloroethene	20.0	18.2		ug/Kg		91	79 - 132	7	30
1,2,4-Trichlorobenzene	20.0	19.9		ug/Kg		100	74 - 124	1	30

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180912-1

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

Lab Sample ID: LCSD 460-607479/4

Matrix: Solid

Analysis Batch: 607479

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-Dibromo-3-Chloropropane	20.0	20.8		ug/Kg		104	65 - 129	4	30
1,2-Dibromoethane	20.0	18.4		ug/Kg		92	80 - 122	1	30
1,2-Dichlorobenzene	20.0	19.3		ug/Kg		96	80 - 121	2	30
1,2-Dichloroethane	20.0	18.0		ug/Kg		90	68 - 120	1	30
1,2-Dichloropropane	20.0	19.3		ug/Kg		97	77 - 124	2	30
1,3-Dichlorobenzene	20.0	18.7		ug/Kg		94	79 - 124	1	30
1,4-Dichlorobenzene	20.0	18.6		ug/Kg		93	79 - 121	1	30
2-Butanone (MEK)	100	91.4		ug/Kg		91	61 - 140	1	30
2-Hexanone	100	86.0		ug/Kg		86	78 - 120	1	30
4-Methyl-2-pentanone (MIBK)	100	93.6		ug/Kg		94	80 - 120	4	30
Acetone	100	90.5		ug/Kg		90	75 - 120	5	30
Benzene	20.0	20.6		ug/Kg		103	75 - 127	3	30
Bromodichloromethane	20.0	18.1		ug/Kg		91	76 - 129	1	30
Bromoform	20.0	19.4		ug/Kg		97	19 - 150	4	30
Bromomethane	20.0	17.0		ug/Kg		85	59 - 136	4	30
Carbon disulfide	20.0	18.3		ug/Kg		91	74 - 130	6	30
Carbon tetrachloride	20.0	17.9		ug/Kg		90	77 - 138	3	30
Chlorobenzene	20.0	19.2		ug/Kg		96	80 - 120	0	30
Chloroethane	20.0	17.0		ug/Kg		85	50 - 139	5	30
Chloroform	20.0	18.7		ug/Kg		94	80 - 122	3	30
Chloromethane	20.0	14.9		ug/Kg		74	66 - 128	5	30
cis-1,2-Dichloroethene	20.0	19.1		ug/Kg		95	80 - 123	3	30
cis-1,3-Dichloropropene	20.0	18.8		ug/Kg		94	75 - 124	0	30
Cyclohexane	20.0	18.6		ug/Kg		93	67 - 135	5	30
Dibromochloromethane	20.0	18.8		ug/Kg		94	67 - 143	1	30
Dichlorodifluoromethane	20.0	14.4		ug/Kg		72	72 - 127	6	30
Ethylbenzene	20.0	19.5		ug/Kg		97	79 - 124	5	30
Isopropylbenzene	20.0	20.0		ug/Kg		100	80 - 125	3	30
Methyl acetate	40.0	39.3		ug/Kg		98	73 - 123	0	30
Methyl tert-butyl ether	20.0	18.2		ug/Kg		91	80 - 120	6	30
Methylcyclohexane	20.0	19.2		ug/Kg		96	71 - 137	5	30
Methylene Chloride	20.0	20.4		ug/Kg		102	79 - 128	6	30
Styrene	20.0	19.2		ug/Kg		96	78 - 123	2	30
Tetrachloroethene	20.0	19.8		ug/Kg		99	73 - 130	3	30
Toluene	20.0	19.5		ug/Kg		98	75 - 122	2	30
trans-1,2-Dichloroethene	20.0	18.9		ug/Kg		95	80 - 129	5	30
trans-1,3-Dichloropropene	20.0	18.0		ug/Kg		90	72 - 121	3	30
Trichloroethene	20.0	19.0		ug/Kg		95	79 - 122	0	30
Trichlorofluoromethane	20.0	17.3		ug/Kg		87	68 - 136	5	30
Vinyl chloride	20.0	16.8		ug/Kg		84	70 - 134	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		78 - 135
4-Bromofluorobenzene	102		67 - 126
Dibromofluoromethane (Surr)	100		61 - 149
Toluene-d8 (Surr)	105		73 - 121

QC Sample Results

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

Job ID: 460-180912-1

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

Lab Sample ID: MB 460-607612/8

Matrix: Solid

Analysis Batch: 607612

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			05/05/19 08:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			05/05/19 08:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			05/05/19 08:18	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			05/05/19 08:18	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			05/05/19 08:18	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			05/05/19 08:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			05/05/19 08:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			05/05/19 08:18	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			05/05/19 08:18	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			05/05/19 08:18	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			05/05/19 08:18	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			05/05/19 08:18	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			05/05/19 08:18	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			05/05/19 08:18	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			05/05/19 08:18	1
2-Hexanone	ND		5.0	0.78	ug/Kg			05/05/19 08:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			05/05/19 08:18	1
Acetone	ND		5.0	3.8	ug/Kg			05/05/19 08:18	1
Benzene	ND		1.0	0.26	ug/Kg			05/05/19 08:18	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			05/05/19 08:18	1
Bromoform	ND		1.0	0.43	ug/Kg			05/05/19 08:18	1
Bromomethane	ND		1.0	0.47	ug/Kg			05/05/19 08:18	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			05/05/19 08:18	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			05/05/19 08:18	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			05/05/19 08:18	1
Chloroethane	ND		1.0	0.52	ug/Kg			05/05/19 08:18	1
Chloroform	ND		1.0	0.32	ug/Kg			05/05/19 08:18	1
Chloromethane	ND		1.0	0.44	ug/Kg			05/05/19 08:18	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			05/05/19 08:18	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/05/19 08:18	1
Cyclohexane	ND		1.0	0.22	ug/Kg			05/05/19 08:18	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			05/05/19 08:18	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			05/05/19 08:18	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			05/05/19 08:18	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			05/05/19 08:18	1
Methyl acetate	ND		5.0	4.3	ug/Kg			05/05/19 08:18	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			05/05/19 08:18	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			05/05/19 08:18	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			05/05/19 08:18	1
Styrene	ND		1.0	0.12	ug/Kg			05/05/19 08:18	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			05/05/19 08:18	1
Toluene	ND		1.0	0.63	ug/Kg			05/05/19 08:18	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			05/05/19 08:18	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			05/05/19 08:18	1
Trichloroethene	ND		1.0	0.14	ug/Kg			05/05/19 08:18	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			05/05/19 08:18	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			05/05/19 08:18	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			05/05/19 08:18	1

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180912-1

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

Lab Sample ID: MB 460-607612/8

Matrix: Solid

Analysis Batch: 607612

Client Sample ID: Method Blank

Prep Type: Total/NA

<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>					05/05/19 08:18	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	93		78 - 135					05/05/19 08:18	1
4-Bromofluorobenzene	108		67 - 126					05/05/19 08:18	1
Dibromofluoromethane (Surr)	102		61 - 149					05/05/19 08:18	1
Toluene-d8 (Surr)	105		73 - 121					05/05/19 08:18	1

Lab Sample ID: LCS 460-607612/3

Matrix: Solid

Analysis Batch: 607612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1,1-Trichloroethane	20.0	19.4		ug/Kg		97	80 - 125
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/Kg		100	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/Kg		105	78 - 132
1,1,2-Trichloroethane	20.0	19.6		ug/Kg		98	76 - 124
1,1-Dichloroethane	20.0	20.0		ug/Kg		100	80 - 124
1,1-Dichloroethene	20.0	20.2		ug/Kg		101	79 - 132
1,2,4-Trichlorobenzene	20.0	21.5		ug/Kg		108	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.4		ug/Kg		102	65 - 129
1,2-Dibromoethane	20.0	19.2		ug/Kg		96	80 - 122
1,2-Dichlorobenzene	20.0	19.8		ug/Kg		99	80 - 121
1,2-Dichloroethane	20.0	17.1		ug/Kg		86	68 - 120
1,2-Dichloropropane	20.0	19.9		ug/Kg		100	77 - 124
1,3-Dichlorobenzene	20.0	19.7		ug/Kg		98	79 - 124
1,4-Dichlorobenzene	20.0	19.8		ug/Kg		99	79 - 121
2-Butanone (MEK)	100	92.9		ug/Kg		93	61 - 140
2-Hexanone	100	91.6		ug/Kg		92	78 - 120
4-Methyl-2-pentanone (MIBK)	100	93.7		ug/Kg		94	80 - 120
Acetone	100	96.6		ug/Kg		97	75 - 120
Benzene	20.0	19.9		ug/Kg		100	75 - 127
Bromodichloromethane	20.0	17.9		ug/Kg		89	76 - 129
Bromoform	20.0	18.5		ug/Kg		93	19 - 150
Bromomethane	20.0	19.4		ug/Kg		97	59 - 136
Carbon disulfide	20.0	20.9		ug/Kg		104	74 - 130
Carbon tetrachloride	20.0	18.9		ug/Kg		95	77 - 138
Chlorobenzene	20.0	19.9		ug/Kg		99	80 - 120
Chloroethane	20.0	19.9		ug/Kg		100	50 - 139
Chloroform	20.0	18.4		ug/Kg		92	80 - 122
Chloromethane	20.0	17.5		ug/Kg		88	66 - 128
cis-1,2-Dichloroethene	20.0	19.9		ug/Kg		100	80 - 123
cis-1,3-Dichloropropene	20.0	19.6		ug/Kg		98	75 - 124
Cyclohexane	20.0	21.2		ug/Kg		106	67 - 135
Dibromochloromethane	20.0	19.1		ug/Kg		95	67 - 143
Dichlorodifluoromethane	20.0	16.8		ug/Kg		84	72 - 127
Ethylbenzene	20.0	19.5		ug/Kg		97	79 - 124

Eurofins TestAmerica, Edison

QC Sample Results

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

Job ID: 460-180912-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-607612/3

Matrix: Solid

Analysis Batch: 607612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	20.0	19.8		ug/Kg		99	80 - 125
Methyl acetate	40.0	38.2		ug/Kg		96	73 - 123
Methyl tert-butyl ether	20.0	19.9		ug/Kg		99	80 - 120
Methylcyclohexane	20.0	21.5		ug/Kg		107	71 - 137
Methylene Chloride	20.0	21.1		ug/Kg		106	79 - 128
Styrene	20.0	19.7		ug/Kg		98	78 - 123
Tetrachloroethene	20.0	19.7		ug/Kg		99	73 - 130
Toluene	20.0	19.6		ug/Kg		98	75 - 122
trans-1,2-Dichloroethene	20.0	20.2		ug/Kg		101	80 - 129
trans-1,3-Dichloropropene	20.0	19.3		ug/Kg		96	72 - 121
Trichloroethene	20.0	19.0		ug/Kg		95	79 - 122
Trichlorofluoromethane	20.0	19.2		ug/Kg		96	68 - 136
Vinyl chloride	20.0	20.2		ug/Kg		101	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		78 - 135
4-Bromofluorobenzene	106		67 - 126
Dibromofluoromethane (Surr)	95		61 - 149
Toluene-d8 (Surr)	101		73 - 121

Lab Sample ID: LCSD 460-607612/4

Matrix: Solid

Analysis Batch: 607612

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	19.6		ug/Kg		98	80 - 125	1	30
1,1,2,2-Tetrachloroethane	20.0	21.1		ug/Kg		105	72 - 131	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.7		ug/Kg		109	78 - 132	3	30
1,1,2-Trichloroethane	20.0	19.3		ug/Kg		96	76 - 124	2	30
1,1-Dichloroethane	20.0	20.4		ug/Kg		102	80 - 124	2	30
1,1-Dichloroethene	20.0	21.0		ug/Kg		105	79 - 132	4	30
1,2,4-Trichlorobenzene	20.0	21.3		ug/Kg		106	74 - 124	1	30
1,2-Dibromo-3-Chloropropane	20.0	21.3		ug/Kg		106	65 - 129	4	30
1,2-Dibromoethane	20.0	19.7		ug/Kg		98	80 - 122	3	30
1,2-Dichlorobenzene	20.0	19.9		ug/Kg		100	80 - 121	1	30
1,2-Dichloroethane	20.0	17.6		ug/Kg		88	68 - 120	3	30
1,2-Dichloropropane	20.0	19.8		ug/Kg		99	77 - 124	1	30
1,3-Dichlorobenzene	20.0	19.8		ug/Kg		99	79 - 124	1	30
1,4-Dichlorobenzene	20.0	19.5		ug/Kg		98	79 - 121	1	30
2-Butanone (MEK)	100	96.1		ug/Kg		96	61 - 140	3	30
2-Hexanone	100	93.7		ug/Kg		94	78 - 120	2	30
4-Methyl-2-pentanone (MIBK)	100	94.7		ug/Kg		95	80 - 120	1	30
Acetone	100	96.1		ug/Kg		96	75 - 120	1	30
Benzene	20.0	20.2		ug/Kg		101	75 - 127	1	30
Bromodichloromethane	20.0	18.4		ug/Kg		92	76 - 129	3	30
Bromoform	20.0	18.9		ug/Kg		94	19 - 150	2	30
Bromomethane	20.0	19.5		ug/Kg		97	59 - 136	0	30
Carbon disulfide	20.0	21.5		ug/Kg		107	74 - 130	3	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-180912-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-607612/4

Matrix: Solid

Analysis Batch: 607612

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
Carbon tetrachloride	20.0	19.5		ug/Kg		97	77 - 138	3	30
Chlorobenzene	20.0	19.8		ug/Kg		99	80 - 120	0	30
Chloroethane	20.0	19.8		ug/Kg		99	50 - 139	1	30
Chloroform	20.0	19.1		ug/Kg		96	80 - 122	4	30
Chloromethane	20.0	17.6		ug/Kg		88	66 - 128	0	30
cis-1,2-Dichloroethene	20.0	20.3		ug/Kg		102	80 - 123	2	30
cis-1,3-Dichloropropene	20.0	19.8		ug/Kg		99	75 - 124	1	30
Cyclohexane	20.0	22.0		ug/Kg		110	67 - 135	3	30
Dibromochloromethane	20.0	18.3		ug/Kg		92	67 - 143	4	30
Dichlorodifluoromethane	20.0	16.5		ug/Kg		83	72 - 127	2	30
Ethylbenzene	20.0	19.4		ug/Kg		97	79 - 124	0	30
Isopropylbenzene	20.0	19.8		ug/Kg		99	80 - 125	0	30
Methyl acetate	40.0	39.6		ug/Kg		99	73 - 123	3	30
Methyl tert-butyl ether	20.0	20.1		ug/Kg		101	80 - 120	1	30
Methylcyclohexane	20.0	22.1		ug/Kg		110	71 - 137	3	30
Methylene Chloride	20.0	21.9		ug/Kg		109	79 - 128	4	30
Styrene	20.0	19.8		ug/Kg		99	78 - 123	1	30
Tetrachloroethene	20.0	20.4		ug/Kg		102	73 - 130	4	30
Toluene	20.0	19.9		ug/Kg		100	75 - 122	2	30
trans-1,2-Dichloroethene	20.0	20.5		ug/Kg		103	80 - 129	2	30
trans-1,3-Dichloropropene	20.0	19.4		ug/Kg		97	72 - 121	1	30
Trichloroethene	20.0	19.4		ug/Kg		97	79 - 122	2	30
Trichlorofluoromethane	20.0	19.1		ug/Kg		95	68 - 136	1	30
Vinyl chloride	20.0	19.9		ug/Kg		100	70 - 134	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		78 - 135
4-Bromofluorobenzene	105		67 - 126
Dibromofluoromethane (Surr)	97		61 - 149
Toluene-d8 (Surr)	102		73 - 121

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-607306/1-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 607306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		330	11	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2,4,6-Trichlorophenol	ND		130	17	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2,4-Dichlorophenol	ND		130	7.0	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2,4-Dimethylphenol	ND		330	15	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2,4-Dinitrophenol	ND		270	160	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2,4-Dinitrotoluene	ND		67	17	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2,6-Dinitrotoluene	ND		67	11	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2-Chloronaphthalene	ND		330	15	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2-Chlorophenol	ND		330	4.6	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2-Methylnaphthalene	ND		330	4.1	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2-Methylphenol	ND		330	5.3	ug/Kg		05/03/19 12:00	05/03/19 19:34	1

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-180912-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-607306/1-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 607306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		330	12	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
2-Nitrophenol	ND		330	11	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
3,3'-Dichlorobenzidine	ND		130	50	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
3-Nitroaniline	ND		330	18	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4,6-Dinitro-2-methylphenol	ND		270	54	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4-Bromophenyl phenyl ether	ND		330	4.3	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4-Chloro-3-methylphenol	ND		330	5.5	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4-Chloroaniline	ND		330	23	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4-Chlorophenyl phenyl ether	ND		330	5.2	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4-Methylphenol	ND		330	5.6	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4-Nitroaniline	ND		330	12	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
4-Nitrophenol	ND		670	54	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Acenaphthene	ND		330	24	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Acenaphthylene	ND		330	3.4	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Acetophenone	ND		330	5.3	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Anthracene	ND		330	3.7	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Atrazine	ND		130	8.3	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Benzaldehyde	ND		330	14	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Benzo[a]anthracene	ND		33	12	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Benzo[a]pyrene	ND		33	8.8	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Benzo[b]fluoranthene	ND		33	8.6	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Benzo[g,h,i]perylene	ND		330	9.8	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Benzo[k]fluoranthene	ND		33	6.5	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Biphenyl	ND		330	4.4	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
bis (2-chloroisopropyl) ether	ND		330	6.0	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Bis(2-chloroethoxy)methane	ND		330	11	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Bis(2-chloroethyl)ether	ND		33	4.0	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Bis(2-ethylhexyl) phthalate	ND		330	17	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Butyl benzyl phthalate	ND		330	16	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Caprolactam	ND		330	20	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Carbazole	ND		330	3.9	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Chrysene	ND		330	5.6	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Dibenz(a,h)anthracene	ND		33	14	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Dibenzofuran	ND		330	4.6	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Diethyl phthalate	ND		330	4.8	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Dimethyl phthalate	ND		330	4.0	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Di-n-butyl phthalate	ND		330	58	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Di-n-octyl phthalate	ND		330	18	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Fluoranthene	ND		330	4.3	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Fluorene	ND		330	4.5	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Hexachlorobenzene	ND		33	4.8	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Hexachlorobutadiene	ND		67	7.0	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Hexachlorocyclopentadiene	ND		330	29	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Hexachloroethane	ND		33	5.1	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Indeno[1,2,3-cd]pyrene	ND		33	13	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Isophorone	ND		130	8.7	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Naphthalene	ND		330	5.7	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Nitrobenzene	ND		33	7.9	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
N-Nitrosodi-n-propylamine	ND		33	5.3	ug/Kg		05/03/19 12:00	05/03/19 19:34	1

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QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-180912-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-607306/1-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 607306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		330	6.3	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Pentachlorophenol	ND		270	68	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Phenanthrene	ND		330	5.8	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Phenol	ND		330	4.9	ug/Kg		05/03/19 12:00	05/03/19 19:34	1
Pyrene	ND		330	8.2	ug/Kg		05/03/19 12:00	05/03/19 19:34	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				05/03/19 12:00	05/03/19 19:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 137	05/03/19 12:00	05/03/19 19:34	1
2-Fluorobiphenyl (Surr)	76		29 - 107	05/03/19 12:00	05/03/19 19:34	1
2-Fluorophenol (Surr)	73		20 - 115	05/03/19 12:00	05/03/19 19:34	1
Nitrobenzene-d5 (Surr)	66		25 - 113	05/03/19 12:00	05/03/19 19:34	1
Phenol-d5 (Surr)	67		28 - 109	05/03/19 12:00	05/03/19 19:34	1
Terphenyl-d14 (Surr)	84		27 - 123	05/03/19 12:00	05/03/19 19:34	1

Lab Sample ID: LCS 460-607306/2-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	3330	2720		ug/Kg		82	60 - 106
2,4,6-Trichlorophenol	3330	3030		ug/Kg		91	62 - 110
2,4-Dichlorophenol	3330	2870		ug/Kg		86	61 - 103
2,4-Dimethylphenol	3330	2630		ug/Kg		79	63 - 101
2,4-Dinitrophenol	6670	4940		ug/Kg		74	56 - 122
2,4-Dinitrotoluene	3330	2830		ug/Kg		85	66 - 122
2,6-Dinitrotoluene	3330	2950		ug/Kg		89	70 - 114
2-Chloronaphthalene	3330	2700		ug/Kg		81	63 - 107
2-Chlorophenol	3330	2560		ug/Kg		77	62 - 97
2-Methylnaphthalene	3330	2560		ug/Kg		77	65 - 104
2-Methylphenol	3330	2360		ug/Kg		71	61 - 103
2-Nitroaniline	3330	2330		ug/Kg		70	57 - 114
2-Nitrophenol	3330	2620		ug/Kg		78	65 - 104
3,3'-Dichlorobenzidine	3330	1410		ug/Kg		42	18 - 88
3-Nitroaniline	3330	1620		ug/Kg		49	30 - 94
4,6-Dinitro-2-methylphenol	6670	5790		ug/Kg		87	67 - 120
4-Bromophenyl phenyl ether	3330	2930		ug/Kg		88	59 - 122
4-Chloro-3-methylphenol	3330	2630		ug/Kg		79	62 - 111
4-Chloroaniline	3330	1450		ug/Kg		43	18 - 94
4-Chlorophenyl phenyl ether	3330	2680		ug/Kg		80	66 - 110
4-Methylphenol	3330	2080		ug/Kg		62	61 - 105
4-Nitroaniline	3330	2140		ug/Kg		64	49 - 118
4-Nitrophenol	6670	4450		ug/Kg		67	43 - 141
Acenaphthene	3330	2200		ug/Kg		66	62 - 108
Acenaphthylene	3330	2670		ug/Kg		80	67 - 107
Acetophenone	3330	2140		ug/Kg		64	60 - 109

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-180912-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-607306/2-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	3330	2630		ug/Kg		79	69 - 111
Benzo[a]anthracene	3330	2610		ug/Kg		78	68 - 110
Benzo[a]pyrene	3330	2710		ug/Kg		81	72 - 115
Benzo[b]fluoranthene	3330	2820		ug/Kg		85	69 - 119
Benzo[g,h,i]perylene	3330	2710		ug/Kg		81	54 - 128
Benzo[k]fluoranthene	3330	2900		ug/Kg		87	70 - 115
Biphenyl	3330	2730		ug/Kg		82	64 - 108
bis (2-chloroisopropyl) ether	3330	1950		ug/Kg		58	39 - 122
Bis(2-chloroethoxy)methane	3330	2480		ug/Kg		74	65 - 106
Bis(2-chloroethyl)ether	3330	2320		ug/Kg		70	64 - 105
Bis(2-ethylhexyl) phthalate	3330	2930		ug/Kg		88	63 - 125
Butyl benzyl phthalate	3330	2930		ug/Kg		88	65 - 125
Carbazole	3330	2480		ug/Kg		74	66 - 115
Chrysene	3330	2670		ug/Kg		80	70 - 111
Dibenz(a,h)anthracene	3330	2990		ug/Kg		90	60 - 130
Dibenzofuran	3330	2650		ug/Kg		79	67 - 107
Diethyl phthalate	3330	2640		ug/Kg		79	66 - 117
Dimethyl phthalate	3330	2730		ug/Kg		82	68 - 112
Di-n-butyl phthalate	3330	2650		ug/Kg		79	67 - 119
Di-n-octyl phthalate	3330	2970		ug/Kg		89	57 - 138
Fluoranthene	3330	2510		ug/Kg		75	64 - 114
Fluorene	3330	2500		ug/Kg		75	66 - 110
Hexachlorobenzene	3330	3030		ug/Kg		91	57 - 128
Hexachlorobutadiene	3330	2810		ug/Kg		84	60 - 108
Hexachlorocyclopentadiene	3330	2280		ug/Kg		68	50 - 129
Hexachloroethane	3330	2200		ug/Kg		66	63 - 99
Indeno[1,2,3-cd]pyrene	3330	3110		ug/Kg		93	53 - 137
Isophorone	3330	2370		ug/Kg		71	68 - 111
Naphthalene	3330	2490		ug/Kg		75	65 - 102
Nitrobenzene	3330	2350		ug/Kg		71	66 - 108
N-Nitrosodi-n-propylamine	3330	2160		ug/Kg		65	63 - 117
N-Nitrosodiphenylamine	3330	2780		ug/Kg		83	65 - 114
Pentachlorophenol	6670	4650		ug/Kg		70	56 - 116
Phenanthrene	3330	2570		ug/Kg		77	68 - 111
Phenol	3330	2390		ug/Kg		72	58 - 103
Pyrene	3330	2950		ug/Kg		89	64 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		10 - 137
2-Fluorobiphenyl (Surr)	80		29 - 107
2-Fluorophenol (Surr)	73		20 - 115
Nitrobenzene-d5 (Surr)	65		25 - 113
Phenol-d5 (Surr)	70		28 - 109
Terphenyl-d14 (Surr)	83		27 - 123

QC Sample Results

Client: AECOM

Job ID: 460-180912-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-607306/4-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 607306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	6570		ug/Kg		99	62 - 137
Benzaldehyde	6670	5270		ug/Kg		79	52 - 113
Caprolactam	6670	6100		ug/Kg		92	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		10 - 137
2-Fluorobiphenyl (Surr)	87		29 - 107
2-Fluorophenol (Surr)	84		20 - 115
Nitrobenzene-d5 (Surr)	75		25 - 113
Phenol-d5 (Surr)	78		28 - 109
Terphenyl-d14 (Surr)	97		27 - 123

Lab Sample ID: LCSD 460-607306/3-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 607306

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
2,4,5-Trichlorophenol	3330	2900		ug/Kg		87	60 - 106	6	30
2,4,6-Trichlorophenol	3330	3030		ug/Kg		91	62 - 110	0	30
2,4-Dichlorophenol	3330	2970		ug/Kg		89	61 - 103	4	30
2,4-Dimethylphenol	3330	2740		ug/Kg		82	63 - 101	4	30
2,4-Dinitrophenol	6670	5290		ug/Kg		79	56 - 122	7	30
2,4-Dinitrotoluene	3330	3030		ug/Kg		91	66 - 122	7	30
2,6-Dinitrotoluene	3330	3080		ug/Kg		93	70 - 114	4	30
2-Chloronaphthalene	3330	2790		ug/Kg		84	63 - 107	3	30
2-Chlorophenol	3330	2650		ug/Kg		79	62 - 97	3	30
2-Methylnaphthalene	3330	2640		ug/Kg		79	65 - 104	3	30
2-Methylphenol	3330	2440		ug/Kg		73	61 - 103	3	30
2-Nitroaniline	3330	2450		ug/Kg		73	57 - 114	5	30
2-Nitrophenol	3330	2740		ug/Kg		82	65 - 104	5	30
3,3'-Dichlorobenzidine	3330	1350		ug/Kg		41	18 - 88	4	30
3-Nitroaniline	3330	1630		ug/Kg		49	30 - 94	1	30
4,6-Dinitro-2-methylphenol	6670	6030		ug/Kg		90	67 - 120	4	30
4-Bromophenyl phenyl ether	3330	3060		ug/Kg		92	59 - 122	4	30
4-Chloro-3-methylphenol	3330	2770		ug/Kg		83	62 - 111	5	30
4-Chloroaniline	3330	1420		ug/Kg		43	18 - 94	2	30
4-Chlorophenyl phenyl ether	3330	2770		ug/Kg		83	66 - 110	3	30
4-Methylphenol	3330	2210		ug/Kg		66	61 - 105	6	30
4-Nitroaniline	3330	2220		ug/Kg		67	49 - 118	4	30
4-Nitrophenol	6670	4770		ug/Kg		71	43 - 141	7	30
Acenaphthene	3330	2260		ug/Kg		68	62 - 108	3	30
Acenaphthylene	3330	2800		ug/Kg		84	67 - 107	5	30
Acetophenone	3330	2240		ug/Kg		67	60 - 109	4	30
Anthracene	3330	2660		ug/Kg		80	69 - 111	1	30
Benzo[a]anthracene	3330	2750		ug/Kg		82	68 - 110	5	30
Benzo[a]pyrene	3330	2850		ug/Kg		85	72 - 115	5	30
Benzo[b]fluoranthene	3330	2970		ug/Kg		89	69 - 119	5	30
Benzo[g,h,i]perylene	3330	2850		ug/Kg		86	54 - 128	5	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-180912-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-607306/3-A

Matrix: Solid

Analysis Batch: 607375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 607306

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene	3330	3020		ug/Kg		91	70 - 115	4	30
Biphenyl	3330	2820		ug/Kg		84	64 - 108	3	30
bis (2-chloroisopropyl) ether	3330	2020		ug/Kg		61	39 - 122	4	30
Bis(2-chloroethoxy)methane	3330	2550		ug/Kg		77	65 - 106	3	30
Bis(2-chloroethyl)ether	3330	2390		ug/Kg		72	64 - 105	3	30
Bis(2-ethylhexyl) phthalate	3330	3090		ug/Kg		93	63 - 125	5	30
Butyl benzyl phthalate	3330	3040		ug/Kg		91	65 - 125	4	30
Carbazole	3330	2570		ug/Kg		77	66 - 115	3	30
Chrysene	3330	2820		ug/Kg		84	70 - 111	5	30
Dibenz(a,h)anthracene	3330	3160		ug/Kg		95	60 - 130	5	30
Dibenzofuran	3330	2730		ug/Kg		82	67 - 107	3	30
Diethyl phthalate	3330	2730		ug/Kg		82	66 - 117	4	30
Dimethyl phthalate	3330	2820		ug/Kg		84	68 - 112	3	30
Di-n-butyl phthalate	3330	2750		ug/Kg		83	67 - 119	4	30
Di-n-octyl phthalate	3330	3140		ug/Kg		94	57 - 138	6	30
Fluoranthene	3330	2590		ug/Kg		78	64 - 114	3	30
Fluorene	3330	2620		ug/Kg		78	66 - 110	5	30
Hexachlorobenzene	3330	3160		ug/Kg		95	57 - 128	4	30
Hexachlorobutadiene	3330	2920		ug/Kg		88	60 - 108	4	30
Hexachlorocyclopentadiene	3330	2390		ug/Kg		72	50 - 129	5	30
Hexachloroethane	3330	2340		ug/Kg		70	63 - 99	6	30
Indeno[1,2,3-cd]pyrene	3330	3270		ug/Kg		98	53 - 137	5	30
Isophorone	3330	2430		ug/Kg		73	68 - 111	2	30
Naphthalene	3330	2540		ug/Kg		76	65 - 102	2	30
Nitrobenzene	3330	2430		ug/Kg		73	66 - 108	3	30
N-Nitrosodi-n-propylamine	3330	2270		ug/Kg		68	63 - 117	5	30
N-Nitrosodiphenylamine	3330	2870		ug/Kg		86	65 - 114	3	30
Pentachlorophenol	6670	4780		ug/Kg		72	56 - 116	3	30
Phenanthrene	3330	2650		ug/Kg		80	68 - 111	3	30
Phenol	3330	2480		ug/Kg		74	58 - 103	4	30
Pyrene	3330	3090		ug/Kg		93	64 - 121	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		10 - 137
2-Fluorobiphenyl (Surr)	84		29 - 107
2-Fluorophenol (Surr)	77		20 - 115
Nitrobenzene-d5 (Surr)	69		25 - 113
Phenol-d5 (Surr)	73		28 - 109
Terphenyl-d14 (Surr)	88		27 - 123

QC Association Summary

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-180912-1

GC/MS VOA

Prep Batch: 607137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180912-1	PWEXBM04146	Total/NA	Solid	5035	
LB3 460-607137/2-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 607479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180912-1	PWEXBM04146	Total/NA	Solid	8260C	607137
MB 460-607479/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-607479/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-607479/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 607612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-607137/2-A	Method Blank	Total/NA	Solid	8260C	607137
MB 460-607612/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-607612/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-607612/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 607306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180912-1	PWEXBM04146	Total/NA	Solid	3546	
MB 460-607306/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-607306/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-607306/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-607306/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 607375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180912-1	PWEXBM04146	Total/NA	Solid	8270D	607306
MB 460-607306/1-A	Method Blank	Total/NA	Solid	8270D	607306
LCS 460-607306/2-A	Lab Control Sample	Total/NA	Solid	8270D	607306
LCS 460-607306/4-A	Lab Control Sample	Total/NA	Solid	8270D	607306
LCSD 460-607306/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	607306

General Chemistry

Analysis Batch: 607312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-180912-1	PWEXBM04146	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Project/Site: 60584654, Penn Yan Former MGP Phase 2

Job ID: 460-180912-1

Client Sample ID: PWEXBM04146

Date Collected: 05/01/19 11:44

Date Received: 05/02/19 09:00

Lab Sample ID: 460-180912-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	607312	05/03/19 12:28	MMC	TAL EDI

Client Sample ID: PWEXBM04146

Date Collected: 05/01/19 11:44

Date Received: 05/02/19 09:00

Lab Sample ID: 460-180912-1

Matrix: Solid

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			607137	05/02/19 22:24	AVM	TAL EDI
Total/NA	Analysis	8260C		1	607479	05/04/19 17:34	AAT	TAL EDI
Total/NA	Prep	3546			607306	05/03/19 12:00	CPG	TAL EDI
Total/NA	Analysis	8270D		1	607375	05/04/19 01:41	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

Job ID: 460-180912-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21

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: 460-180912-1

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: 460-180912-1

Project/Site: 60584654, Penn Yan Former MGP Phase 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-180912-1	PWEXBM04146	Solid	05/01/19 11:44	05/02/19 09:00

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Job Number:

216081

Number of Coolers:

IR Gun #

9

Cooler Temperatures

RAW		CORRECTED		RAW		CORRECTED	
Cooler #1:	22.9 °C			Cooler #4:	°C		
Cooler #2:	°C			Cooler #5:	°C		
Cooler #3:	°C			Cooler #6:	°C		
				Cooler #7:	°C		
				Cooler #8:	°C		
				Cooler #9:	°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:

Accept

Date: 05/2/19

Location ID Sample Date Sample ID	NYSDEC Part 375-6 Restricted- Res	LARGE NORTHEAST ROOM						
		PWEXSNA090 4/9/2019	PWEXSNA091 4/9/2019	PWEXSNA152 4/9/2019	PWEXSNA092	PWEXSNA093 4/9/2019	PWEXSNA094 4/9/2019	PWEXBM04074 4/8/2019
		480-151605-10	480-151605-11	480-151605-13		480-151605-9	480-151605-12	480-151605-1
Volatile Organic Compounds (ppm)								
1,1,1-Trichloroethane	100	ND	ND	ND		ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND		ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND		ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND		ND	ND	ND
1,1-Dichloroethane	26	ND	ND	ND		ND	ND	ND
1,1-Dichloroethene	100	ND	ND	ND		ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND		ND	ND	ND
1,2-Dibromo-3-Chloropropane		ND	ND	ND		ND	ND	ND
1,2-Dibromoethane		ND	ND	ND		ND	ND	ND
1,2-Dichlorobenzene	100	ND	ND	ND		ND	ND	ND
1,2-Dichloroethane	3.1	ND	ND	ND		ND	ND	ND
1,2-Dichloropropane		ND	ND	ND		ND	ND	ND
1,3-Dichlorobenzene	49	ND	ND	ND		ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND		ND	ND	ND
2-Butanone (MEK)		ND	ND	ND		ND	ND	ND
2-Hexanone		ND	ND	ND		ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND		ND	ND	ND
Acetone	100	0.07	0.025	0.0059		0.032	ND	0.015
Benzene	4.8	0.0019	ND	ND		0.0022	0.12	ND
Bromodichloromethane		ND	ND	ND		ND	ND	ND
Bromoform		ND	ND	ND		ND	ND	ND
Bromomethane		ND	ND	ND		ND	ND	ND
Carbon disulfide		ND	ND	ND		ND	ND	ND
Carbon tetrachloride	2.4	ND	ND	ND		ND	ND	ND
Chlorobenzene	100	ND	ND	ND		ND	ND	ND
Chloroethane		ND	ND	ND		ND	ND	ND
Chloroform	49	0.00063	0.00049	0.00048		0.00053	ND	0.00045
Chloromethane		ND	ND	ND		ND	ND	ND
cis-1,2-Dichloroethene		ND	ND	ND		ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND		ND	ND	ND
Cyclohexane		ND	ND	ND		ND	ND	ND
Dibromochloromethane		ND	ND	ND		ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND		ND	ND	ND
Ethylbenzene	41	0.0025	ND	0.0011		0.0051	0.73	0.00074
Isopropylbenzene		0.0011	ND	ND		0.00097	0.13	ND
Methyl acetate		ND	ND	ND		ND	ND	ND
Methyl tert-butyl ether	100	ND	ND	ND		ND	ND	ND
Methylcyclohexane		ND	ND	ND		ND	ND	ND
Methylene Chloride	100	ND	ND	ND		ND	ND	ND
Styrene		ND	ND	ND		ND	ND	ND
Tetrachloroethene	19	ND	ND	ND		ND	ND	ND
Toluene	100	0.00045	ND	ND		ND	ND	ND
trans-1,2-Dichloroethene	100000	ND	ND	ND		ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND		ND	ND	ND
Trichloroethene	21	ND	ND	ND		ND	ND	ND
Trichlorofluoromethane		ND	ND	ND		ND	ND	ND
Vinyl chloride	0.9	ND	ND	ND		ND	ND	ND
Xylenes, Total	100	0.0011	ND	ND		0.0029	5.8	0.0062
Total Conc		0.07768	0.02549	0.00748		0.0437	6.78	0.02239
Total Estimated Conc. (TICs)		0.221	0.023	0.0836		0.41	213.3	0.1471

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	LARGE NORTHEAST ROOM						
		PWEXSWNA090	PWEXSWNA091	PWEXSWNA152	PWEXSWNA092	PWEXSWNA093	PWEXSWNA094	PWEXBM04074
		4/9/2019	4/9/2019	4/9/2019		4/9/2019	4/9/2019	4/8/2019
		480-151605-10	480-151605-11	480-151605-13		480-151605-9	480-151605-12	480-151605-1
Semivolatile Organic Compounds (ppm)								
2,4,5-Trichlorophenol		ND	ND	ND		ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND		ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND		ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND		ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND		ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND		ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND		ND	ND	ND
2-Chloronaphthalene		ND	ND	ND		ND	ND	ND
2-Chlorophenol		ND	ND	ND		ND	ND	ND
2-Methylnaphthalene		ND	ND	ND		ND	6.4D	ND
2-Methylphenol		ND	ND	ND		ND	ND	ND
2-Nitroaniline		ND	ND	ND		ND	ND	ND
2-Nitrophenol		ND	ND	ND		ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND		ND	ND	ND
3-Nitroaniline		ND	ND	ND		ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND		ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND		ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND		ND	ND	ND
4-Chloroaniline		ND	ND	ND		ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND		ND	ND	ND
4-Methylphenol		ND	ND	ND		ND	ND	ND
4-Nitroaniline		ND	ND	ND		ND	ND	ND
4-Nitrophenol		ND	ND	ND		ND	ND	ND
Acenaphthylene	100	0.5D	0.039	0.11		0.73	3D	0.9D
Acetophenone		ND	ND	ND		ND	ND	ND
Anthracene	100	5.7D	0.073	0.71		2.3	11D	2.7D
Atrazine		ND	ND	ND		ND	ND	ND
Benzaldehyde		ND	ND	ND		ND	ND	ND
Benzo[a]anthracene	1	7.6D	0.07	1		2.2	9.9D	3.4D
Benzo[a]pyrene	1	5.8D	0.083	0.79		1.7	6.7D	2.6D
Benzo[b]fluoranthene	1	7D	0.065	0.9		2.2	9.2D	2.9D
Benzo[g,h,i]perylene	100	3.1D	0.039	0.41		1.1	3.5D	1.3D
Benzo[k]fluoranthene	3.9	3.4D	0.064	0.51		0.86	3.2D	1.8D
bis (2-chloroisopropyl) ether		ND	ND	ND		ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND		ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND		ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND		ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND		ND	ND	ND
Acenaphthene	100	0.22D	ND	0.082		0.4	1.4D	0.38D
Biphenyl		1.3D	ND	0.24		0.54	3.3D	0.45D
Caprolactam		ND	ND	ND		ND	ND	ND
Carbazole		1.7D	0.034	0.29		0.64	3.7D	0.28D
Chrysene	3.9	5.5D	0.091	0.74		1.8	7D	2.8D
Dibenz(a,h)anthracene	0.33	ND	ND	ND		0.32	ND	ND
Dibenzofuran	59	4.8D	0.07	0.84		2.1	11D	1.9D
Diethyl phthalate		ND	ND	ND		ND	ND	ND
Dimethyl phthalate		ND	ND	ND		ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND		ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND		ND	ND	ND
Fluoranthene	100	14D	0.22	1.5		5.4	23D	6.9D
Fluorene	100	3.3D	0.052	0.67		2	10D	2.7D
Hexachlorobenzene		ND	ND	ND		ND	ND	ND
Hexachlorobutadiene		ND	ND	ND		ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND		ND	ND	ND
Hexachloroethane		ND	ND	ND		ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	3.2D	0.043	0.41		1	3.6D	1.3D
Isophorone		ND	ND	ND		ND	ND	ND
Naphthalene	100	2D	ND	0.16		0.46	58D	0.28D
Nitrobenzene		ND	ND	ND		ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND		ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND		ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND		ND	ND	ND
Phenanthrene	100	22D	0.2	2.9		9.7D	47D	9.7D
Phenol	100	ND	ND	ND		ND	ND	ND
Pyrene	100	12D	0.17	1.4		4.4	19D	5.7D
Total Conc		103.12D	1.313	13.662		40	239.9	47.99D
Total Estimated Conc. (TICs)		37.1D	11.27	15.61		31.14	156.6	22.98D

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	NORTHWEST ROOM										
		PWEXSNA099 4/10/2019	PWEXSNA100 4/10/2019	PWEXSNA101 4/10/2019	PWEXSNA102	PWEXSNA103	PWEXSNA104	PWEXSNA105	PWEXSNA106	PWEXSNA107	PWEXBM04076	PWEXBM04080
		480-151836-9	480-151836-8	480-151836-7								
Volatile Organic Compounds (ppm)												
1,1,1-Trichloroethane	100	ND	ND	ND								
1,1,2,2-Tetrachloroethane		ND	ND	ND								
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND								
1,1,2-Trichloroethane		ND	ND	ND								
1,1-Dichloroethane	26	ND	ND	ND								
1,1-Dichloroethene	100	ND	ND	ND								
1,2,4-Trichlorobenzene		ND	ND	ND								
1,2-Dibromo-3-Chloropropane		ND	ND	ND								
1,2-Dibromoethane		ND	ND	ND								
1,2-Dichlorobenzene	100	ND	ND	ND								
1,2-Dichloroethane	3.1	ND	ND	ND								
1,2-Dichloropropane		ND	ND	ND								
1,3-Dichlorobenzene	49	ND	ND	ND								
1,4-Dichlorobenzene	13	ND	ND	ND								
2-Butanone (MEK)		ND	ND	ND								
2-Hexanone		ND	ND	ND								
4-Methyl-2-pentanone (MIBK)		ND	ND	ND								
Acetone	100	ND	ND	ND								
Benzene	4.8	ND	ND	0.11								
Bromodichloromethane		ND	ND	ND								
Bromoform		ND	ND	ND								
Bromomethane		ND	ND	ND								
Carbon disulfide		ND	ND	ND								
Carbon tetrachloride	2.4	ND	ND	ND								
Chlorobenzene	100	ND	ND	ND								
Chloroethane		ND	ND	ND								
Chloroform	49	0.00051	0.00047	ND								
Chloromethane		ND	ND	ND								
cis-1,2-Dichloroethene		ND	ND	ND								
cis-1,3-Dichloropropene		ND	ND	ND								
Cyclohexane		ND	ND	ND								
Dibromochloromethane		ND	ND	ND								
Dichlorodifluoromethane		ND	ND	ND								
Ethylbenzene	41	ND	ND	1.5								
Isopropylbenzene		ND	ND	ND								
Methyl acetate		ND	ND	ND								
Methyl tert-butyl ether	100	ND	ND	ND								
Methylcyclohexane		ND	ND	ND								
Methylene Chloride	100	ND	ND	ND								
Styrene		ND	ND	ND								
Tetrachloroethene	19	ND	ND	ND								
Toluene	100	ND	ND	ND								
trans-1,2-Dichloroethene	100000	ND	ND	ND								
trans-1,3-Dichloropropene		ND	ND	ND								
Trichloroethene	21	ND	ND	ND								
Trichlorofluoromethane		ND	ND	ND								
Vinyl chloride	0.9	ND	ND	ND								
Xylenes, Total	100	ND	ND	10								
Total Conc		0.00051	0.00047	11.61								
Total Estimated Conc. (TICs)				286.4								

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	NORTHWEST ROOM										
		PWEXSWNA099 4/10/2019 480-151836-9	PWEXSWNA100 4/10/2019 480-151836-8	PWEXSWNA101 4/10/2019 480-151836-7	PWEXSWNA102	PWEXSWNA103	PWEXSWNA104	PWEXSWNA105	PWEXSWNA106	PWEXSWNA107	PWEXBM04076	PWEXBM04080
		Semivolatile Organic Compounds (ppm)										
2,4,5-Trichlorophenol		ND	ND	ND								
2,4,6-Trichlorophenol		ND	ND	ND								
2,4-Dichlorophenol		ND	ND	ND								
2,4-Dimethylphenol		ND	ND	ND								
2,4-Dinitrophenol		ND	ND	ND								
2,4-Dinitrotoluene		ND	ND	ND								
2,6-Dinitrotoluene		ND	ND	ND								
2-Chloronaphthalene		ND	ND	ND								
2-Chlorophenol		ND	ND	ND								
2-Methylnaphthalene		ND	ND	14								
2-Methylphenol		ND	ND	ND								
2-Nitroaniline		ND	ND	ND								
2-Nitrophenol		ND	ND	ND								
3,3'-Dichlorobenzidine		ND	ND	ND								
3-Nitroaniline		ND	ND	ND								
4,6-Dinitro-2-methylphenol		ND	ND	ND								
4-Bromophenyl phenyl ether		ND	ND	ND								
4-Chloro-3-methylphenol		ND	ND	ND								
4-Chloroaniline		ND	ND	ND								
4-Chlorophenyl phenyl ether		ND	ND	ND								
4-Methylphenol		ND	ND	ND								
4-Nitroaniline		ND	ND	ND								
4-Nitrophenol		ND	ND	ND								
Acenaphthylene	100	ND	ND	14								
Acetophenone		ND	ND	ND								
Anthracene	100	ND	ND	35								
Atrazine		ND	ND	ND								
Benzaldehyde		ND	ND	ND								
Benzo[a]anthracene	1	ND	ND	25								
Benzo[a]pyrene	1	ND	ND	17								
Benzo[b]fluoranthene	1	ND	ND	20								
Benzo[g,h,i]perylene	100	ND	ND	8.1								
Benzo[k]fluoranthene	3.9	ND	ND	6.9								
bis (2-chloroisopropyl) ether		ND	ND	ND								
Bis(2-chloroethoxy)methane		ND	ND	ND								
Bis(2-chloroethyl)ether		ND	ND	ND								
Bis(2-ethylhexyl) phthalate		ND	ND	ND								
Butyl benzyl phthalate		ND	ND	ND								
Acenaphthene	100	ND	ND	13								
Biphenyl		ND	ND	9.2								
Caprolactam		ND	ND	ND								
Carbazole		ND	ND	12								
Chrysene	3.9	ND	ND	23								
Dibenz(a,h)anthracene	0.33	ND	ND	ND								
Dibenzofuran	59	ND	ND	32								
Diethyl phthalate		ND	ND	ND								
Dimethyl phthalate		ND	ND	ND								
Di-n-butyl phthalate		ND	ND	ND								
Di-n-octyl phthalate		ND	ND	ND								
Fluoranthene	100	ND	ND	58								
Fluorene	100	ND	ND	32								
Hexachlorobenzene		ND	ND	ND								
Hexachlorobutadiene		ND	ND	ND								
Hexachlorocyclopentadiene		ND	ND	ND								
Hexachloroethane		ND	ND	ND								
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	8								
Isophorone		ND	ND	ND								
Naphthalene	100	ND	ND	180 D								
Nitrobenzene		ND	ND	ND								
N-Nitrosodi-n-propylamine		ND	ND	ND								
N-Nitrosodiphenylamine		ND	ND	ND								
Pentachlorophenol	6.7	ND	ND	ND								
Phenanthrene	100	ND	ND	99								
Phenol	100	ND	ND	ND								
Pyrene	100	ND	ND	46								
Total Conc				652.2								
Total Estimated Conc. (TICs)		5.08	5.51	336.8								

Notes:
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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	OUTSIDE E WALL OF NORTHEAST/SOUTHEAST ROOMS							OUTSIDE NORTH WALL OF NE ROOMS	
			PWEXSNA150 4/10/2019	PWEXSNA129 4/10/2019	PWEXSNA130 4/10/2019	PWEXSNA131 4/9/2019	PWEXSNA132 4/10/2019	PWEXSNA133 4/9/2019	PWEXSNA134 4/9/2019	PWEXSNA135 4/10/2019	PWEXSNA136 4/10/2019
			480-151836-6	480-151836-1	480-151836-2	480-151605-3	480-151836-3	480-151605-7	480-151605-8	480-151836-4	480-151836-5
Volatile Organic Compounds (ppm)											
1,1,1-Trichloroethane	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane		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	
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	100	0.017	ND	0.015	ND	0.0094	ND	ND	ND	ND	
Benzene	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon disulfide		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	49	0.0005	0.00049	0.00045	0.00044	0.00043	0.0004	0.00047	0.00042	0.00043	
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cyclohexane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	41	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Isopropylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl tert-butyl ether	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylcyclohexane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	100	0.003	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	100000	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes, Total	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total Conc		0.0205	0.00049	0.01545	0.00044	0.00983	0.0004	0.00047	0.00042	0.00043	
Total Estimated Conc. (TICs)											

Notes:
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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	OUTSIDE EAST WALL OF NORTHEAST/SOUTHEAST ROOMS							OUTSIDE NORTH WALL OF NORTHEAST ROOMS	
		PWEXSWNA150 4/10/2019	PWEXSWNA129 4/10/2019	PWEXSWNA130 4/10/2019	PWEXSWNA131 4/9/2019	PWEXSWNA132 4/10/2019	PWEXSWNA133 4/9/2019	PWEXSWNA134 4/9/2019	PWEXSWNA135 4/10/2019	PWEXSWNA136 4/10/2019
		480-151836-6	480-151836-1	480-151836-2	480-151605-3	480-151836-3	480-151605-7	480-151605-8	480-151836-4	480-151836-5
Semivolatile Organic Compounds (ppm)										
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	0.13	0.024	ND	ND	ND	ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	0.24	0.047	0.053	ND	ND	ND	0.072	ND	ND
Atrazine		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1	0.89	0.19	0.45	0.019	ND	ND	0.047	ND	ND
Benzo[a]pyrene	1	0.75	0.2	0.43	0.042	ND	ND	0.057	ND	ND
Benzo[b]fluoranthene	1	1.1	0.3	0.62	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	100	0.63	0.21	0.41	0.022	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	3.9	0.38	0.11	0.23	0.04	ND	ND	0.05	ND	ND
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl		ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	3.9	0.85	0.2	0.45	0.045	ND	ND	0.067	ND	ND
Dibenz(a,h)anthracene	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	59	0.065	ND	0.041	ND	ND	ND	ND	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	1.6	0.41	0.61	0.064	ND	ND	0.11	ND	ND
Fluorene	100	0.081	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	0.49	0.16	0.35	ND	ND	ND	0.025	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	100	0.074	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	1	0.24	0.26	0.034	ND	ND	0.086	ND	ND
Phenol	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100	1.5	0.38	0.8	0.029	ND	ND	0.068	ND	ND
Total Conc		9.78	2.471	4.704	0.295			0.582		
Total Estimated Conc. (TICs)		7.71	4.55	4.47	12.39	3.5	10.43	12.13	4.17	3.88

Notes:
Results are pending data validation and DUSR preparation.
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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	SMALL NORTHEAST ROOM				
		PWEXSNA087 4/9/2019	PWEXSNA088 4/9/2019	PWEXSNA089 4/9/2019	PWEXSNA051 4/9/2019	PWEXBM04073
		480-151605-15	480-151605-16	480-151605-14	480-151605-6	
Volatile Organic Compounds (ppm)						
1,1,1-Trichloroethane	100	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND	ND	
1,1,2-Trichloroethane		ND	ND	ND	ND	
1,1-Dichloroethane	26	ND	ND	ND	ND	
1,1-Dichloroethene	100	ND	ND	ND	ND	
1,2,4-Trichlorobenzene		ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	
1,2-Dibromoethane		ND	ND	ND	ND	
1,2-Dichlorobenzene	100	ND	ND	ND	ND	
1,2-Dichloroethane	3.1	ND	ND	ND	ND	
1,2-Dichloropropane		ND	ND	ND	ND	
1,3-Dichlorobenzene	49	ND	ND	ND	ND	
1,4-Dichlorobenzene	13	ND	ND	ND	ND	
2-Butanone (MEK)		ND	ND	ND	ND	
2-Hexanone		ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	
Acetone	100	0.013	ND	0.01	ND	
Benzene	4.8	ND	ND	ND	ND	
Bromodichloromethane		ND	ND	ND	ND	
Bromoform		ND	ND	ND	ND	
Bromomethane		ND	ND	ND	ND	
Carbon disulfide		ND	ND	ND	ND	
Carbon tetrachloride	2.4	ND	ND	ND	ND	
Chlorobenzene	100	ND	ND	ND	ND	
Chloroethane		ND	ND	ND	ND	
Chloroform	49	0.00047	ND	0.00049	0.00051	
Chloromethane		ND	ND	ND	ND	
cis-1,2-Dichloroethene		ND	ND	ND	ND	
cis-1,3-Dichloropropene		ND	ND	ND	ND	
Cyclohexane		ND	ND	ND	ND	
Dibromochloromethane		ND	ND	ND	ND	
Dichlorodifluoromethane		ND	ND	ND	ND	
Ethylbenzene	41	0.0013	0.2	ND	ND	
Isopropylbenzene		ND	ND	ND	ND	
Methyl acetate		ND	ND	ND	ND	
Methyl tert-butyl ether	100	ND	ND	ND	ND	
Methylcyclohexane		ND	ND	ND	ND	
Methylene Chloride	100	ND	ND	ND	ND	
Styrene		0.00029	ND	ND	ND	
Tetrachloroethene	19	ND	ND	ND	ND	
Toluene	100	ND	ND	ND	ND	
trans-1,2-Dichloroethene	100000	ND	ND	ND	ND	
trans-1,3-Dichloropropene		ND	ND	ND	ND	
Trichloroethene	21	ND	ND	ND	ND	
Trichlorofluoromethane		ND	ND	ND	ND	
Vinyl chloride	0.9	ND	ND	ND	ND	
Xylenes, Total	100	ND	0.62	ND	ND	
Total Conc		0.01506	0.82	0.01049	0.00051	
Total Estimated Conc. (TICs)		0.1011	97.2	0.42		

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	SMALL NORTHEAST ROOM				
		PWEXSWNA087	PWEXSWNA088	PWEXSWNA089	PWEXSWNA051	PWEXBM04073
		4/9/2019	4/9/2019	4/9/2019	4/9/2019	
		480-151605-15	480-151605-16	480-151605-14	480-151605-6	
Semivolatile Organic Compounds (ppm)						
2,4,5-Trichlorophenol		ND	ND	ND	ND	
2,4,6-Trichlorophenol		ND	ND	ND	ND	
2,4-Dichlorophenol		ND	ND	ND	ND	
2,4-Dimethylphenol		ND	ND	ND	ND	
2,4-Dinitrophenol		ND	ND	ND	ND	
2,4-Dinitrotoluene		ND	ND	ND	ND	
2,6-Dinitrotoluene		ND	ND	ND	ND	
2-Chloronaphthalene		ND	ND	ND	ND	
2-Chlorophenol		ND	ND	ND	ND	
2-Methylnaphthalene		0.11	0.2	ND	ND	
2-Methylphenol		ND	ND	ND	ND	
2-Nitroaniline		ND	ND	ND	ND	
2-Nitrophenol		ND	ND	ND	ND	
3,3'-Dichlorobenzidine		ND	ND	ND	ND	
3-Nitroaniline		ND	ND	ND	ND	
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	
4-Bromophenyl phenyl ether		ND	ND	ND	ND	
4-Chloro-3-methylphenol		ND	ND	ND	ND	
4-Chloroaniline		ND	ND	ND	ND	
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	
4-Methylphenol		ND	ND	ND	ND	
4-Nitroaniline		ND	ND	ND	ND	
4-Nitrophenol		ND	ND	ND	ND	
Acenaphthylene	100	0.079	0.31	0.032	ND	
Acetophenone		ND	ND	ND	ND	
Anthracene	100	0.36	2.6	0.069	ND	
Atrazine		ND	ND	ND	ND	
Benzaldehyde		ND	ND	ND	ND	
Benzo[a]anthracene	1	0.26	2.1	0.23	ND	
Benzo[a]pyrene	1	0.2	1.3	0.18	ND	
Benzo[b]fluoranthene	1	0.22	1.8	0.23	ND	
Benzo[g,h,i]perylene	100	0.12	0.66	0.087	ND	
Benzo[k]fluoranthene	3.9	0.14	0.73	0.11	ND	
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	
Bis(2-chloroethyl)ether		ND	ND	ND	ND	
Bis(2-ethylhexyl) phthalate		ND	ND	ND	ND	
Butyl benzyl phthalate		ND	ND	ND	ND	
Acenaphthene	100	0.25	1.4	0.03	ND	
Biphenyl		0.073	0.71	ND	ND	
Caprolactam		ND	ND	ND	ND	
Carbazole		0.2	0.48	ND	ND	
Chrysene	3.9	0.21	1.5	0.21	ND	
Dibenz(a,h)anthracene	0.33	0.055	ND	ND	ND	
Dibenzofuran	59	0.25	2.7	0.077	ND	
Diethyl phthalate		ND	ND	ND	ND	
Dimethyl phthalate		ND	ND	ND	ND	
Di-n-butyl phthalate		ND	ND	ND	ND	
Di-n-octyl phthalate		ND	ND	ND	ND	
Fluoranthene	100	0.56	5.1	0.39	ND	
Fluorene	100	0.28	3.1	ND	ND	
Hexachlorobenzene		ND	ND	ND	ND	
Hexachlorobutadiene		ND	ND	ND	ND	
Hexachlorocyclopentadiene		ND	ND	ND	ND	
Hexachloroethane		ND	ND	ND	ND	
Indeno[1,2,3-cd]pyrene	0.5	0.11	0.68	0.091	ND	
Isophorone		ND	ND	ND	ND	
Naphthalene	100	0.44	100	ND	ND	
Nitrobenzene		ND	ND	ND	ND	
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	
N-Nitrosodiphenylamine		ND	ND	ND	ND	
Pentachlorophenol	6.7	ND	ND	ND	ND	
Phenanthrene	100	0.94	100	0.074	ND	
Phenol	100	ND	ND	ND	ND	
Pyrene	100	0.47	4	0.37	ND	
Total Conc		5.327	51.17	2.18		
Total Estimated Conc. (TICs)		13.31	44.75	11.92	11.91	

Notes:

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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	WEST CORRIDOR							
			PWEXSNA108 4/11/2019	PWEXSNA109 4/11/2019	PWEXSNA110	PWEXSNA111	PWEXSNA112 4/11/2019	PWEXSNA113 4/11/2019	PWEXSNA114 4/11/2019	PWEXBM04081 4/11/2019
			480-151821-1	480-151821-2			480-151821-3	480-151821-4	480-151821-5	480-151821-6
Volatile Organic Compounds (ppm)										
1,1,1-Trichloroethane	100	ND	ND			ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane		ND	ND			ND	ND	ND	ND	
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND			ND	ND	ND	ND	
1,1,2-Trichloroethane		ND	ND			ND	ND	ND	ND	
1,1-Dichloroethane	26	ND	ND			ND	ND	ND	ND	
1,1-Dichloroethene	100	ND	ND			ND	ND	ND	ND	
1,2,4-Trichlorobenzene		ND	ND			ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane		ND	ND			ND	ND	ND	ND	
1,2-Dibromoethane		ND	ND			ND	ND	ND	ND	
1,2-Dichlorobenzene	100	ND	ND			ND	ND	ND	ND	
1,2-Dichloroethane	3.1	ND	ND			ND	ND	ND	ND	
1,2-Dichloropropane		ND	ND			ND	ND	ND	ND	
1,3-Dichlorobenzene	49	ND	ND			ND	ND	ND	ND	
1,4-Dichlorobenzene	13	ND	ND			ND	ND	ND	ND	
2-Butanone (MEK)		ND	ND			ND	ND	ND	ND	
2-Hexanone		ND	ND			ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)		ND	ND			ND	ND	ND	ND	
Acetone	100	0.0056	0.013			0.014	ND	0.049	0.016	
Benzene	4.8	ND	ND			ND	ND	0.00037	ND	
Bromodichloromethane		ND	ND			ND	ND	ND	ND	
Bromoform		ND	ND			ND	ND	ND	ND	
Bromomethane		ND	ND			ND	ND	ND	ND	
Carbon disulfide		ND	ND			ND	ND	ND	ND	
Carbon tetrachloride	2.4	ND	ND			ND	ND	ND	ND	
Chlorobenzene	100	ND	ND			ND	ND	ND	ND	
Chloroethane		ND	ND			ND	ND	ND	ND	
Chloroform	49	0.00048	0.00046			0.0004	0.0004	0.00043	0.0005	
Chloromethane		ND	ND			ND	ND	ND	ND	
cis-1,2-Dichloroethene		ND	ND			ND	ND	ND	ND	
cis-1,3-Dichloropropene		ND	ND			ND	ND	ND	ND	
Cyclohexane		ND	ND			ND	ND	ND	ND	
Dibromochloromethane		ND	ND			ND	ND	ND	ND	
Dichlorodifluoromethane		ND	ND			ND	ND	ND	ND	
Ethylbenzene	41	ND	ND			ND	ND	0.006	ND	
Isopropylbenzene		ND	ND			ND	ND	ND	ND	
Methyl acetate		ND	ND			ND	ND	ND	ND	
Methyl tert-butyl ether	100	ND	ND			ND	ND	ND	ND	
Methylcyclohexane		ND	ND			ND	ND	ND	ND	
Methylene Chloride	100	ND	ND			ND	ND	ND	ND	
Styrene		ND	ND			ND	ND	ND	ND	
Tetrachloroethene	19	ND	ND			ND	ND	0.0026	ND	
Toluene	100	ND	ND			ND	ND	ND	ND	
trans-1,2-Dichloroethene	100000	ND	ND			ND	ND	ND	ND	
trans-1,3-Dichloropropene		ND	ND			ND	ND	ND	ND	
Trichloroethene	21	ND	ND			ND	ND	ND	ND	
Trichlorofluoromethane		ND	ND			ND	ND	ND	ND	
Vinyl chloride	0.9	ND	ND			ND	ND	0.046	ND	
Xylenes, Total	100	ND	ND			ND	ND	ND	ND	
Total Conc		0.0608	0.01346			0.0144	0.0004	0.1044	0.0165	
Total Estimated Conc. (TICs)						0.039		0.667		

Notes:
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Location ID Sample Date Sample ID		NYSDEC Part 375-6 Restricted- Res	WEST CORRIDOR							
			PWEXSWNA108 4/11/2019	PWEXSWNA109 4/11/2019	PWEXSWNA110	PWEXSWNA111	PWEXSWNA112 4/11/2019	PWEXSWNA113 4/11/2019	PWEXSWNA114 4/11/2019	PWEXBM04081 4/11/2019
			480-151821-1	480-151821-2			480-151821-3	480-151821-4	480-151821-5	480-151821-6
Semivolatile Organic Compounds (ppm)										
2,4,5-Trichlorophenol			ND	ND			ND	ND	ND	ND
2,4,6-Trichlorophenol			ND	ND			ND	ND	ND	ND
2,4-Dichlorophenol			ND	ND			ND	ND	ND	ND
2,4-Dimethylphenol			ND	ND			ND	ND	ND	ND
2,4-Dinitrophenol			ND	ND			ND	ND	ND	ND
2,4-Dinitrotoluene			ND	ND			ND	ND	ND	ND
2,6-Dinitrotoluene			ND	ND			ND	ND	ND	ND
2-Chloronaphthalene			ND	ND			ND	ND	ND	ND
2-Chlorophenol			ND	ND			ND	ND	ND	ND
2-Methylnaphthalene			ND	ND			ND	ND	2.4	ND
2-Methylphenol			ND	ND			ND	ND	ND	ND
2-Nitroaniline			ND	ND			ND	ND	ND	ND
2-Nitrophenol			ND	ND			ND	ND	ND	ND
3,3'-Dichlorobenzidine			ND	ND			ND	ND	ND	ND
3-Nitroaniline			ND	ND			ND	ND	ND	ND
4,6-Dinitro-2-methylphenol			ND	ND			ND	ND	ND	ND
4-Bromophenyl phenyl ether			ND	ND			ND	ND	ND	ND
4-Chloro-3-methylphenol			ND	ND			ND	ND	ND	ND
4-Chloroaniline			ND	ND			ND	ND	ND	ND
4-Chlorophenyl phenyl ether			ND	ND			ND	ND	ND	ND
4-Methylphenol			ND	ND			ND	ND	ND	ND
4-Nitroaniline			ND	ND			ND	ND	ND	ND
4-Nitrophenol			ND	ND			ND	ND	ND	ND
Acenaphthylene		100	ND	0.57			ND	ND	1.1	ND
Acetophenone			ND	ND			ND	ND	ND	ND
Anthracene		100	ND	1.6			0.19	ND	1.6	ND
Atrazine			ND	ND			ND	ND	ND	ND
Benzaldehyde			ND	ND			ND	ND	ND	ND
Benzo[a]anthracene		1	ND	2.3			0.29	ND	1.8	0.036
Benzo[a]pyrene		1	ND	1.9			0.28	ND	1.1	0.075
Benzo[b]fluoranthene		1	ND	2.1			0.3	ND	1.4	0.055
Benzo[g,h,i]perylene		100	ND	1.5			0.24	ND	0.6	0.053
Benzo[k]fluoranthene		3.9	ND	1.2			0.19	ND	0.68	0.051
bis (2-chloroisopropyl) ether			ND	ND			ND	ND	ND	ND
Bis(2-chloroethoxy)methane			ND	ND			ND	ND	ND	ND
Bis(2-chloroethyl)ether			ND	ND			ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate			ND	ND			ND	ND	ND	ND
Butyl benzyl phthalate			ND	ND			ND	ND	ND	ND
Acenaphthene		100	ND	0.26			0.068	ND	0.37	ND
Biphenyl			ND	100			ND	ND	0.45	ND
Caprolactam			ND	ND			ND	ND	ND	ND
Carbazole			ND	0.14			0.078	ND	0.62	ND
Chrysene		3.9	ND	1.8			0.26	ND	1.2	0.064
Dibenz(a,h)anthracene		0.33	ND	0.3			ND	ND	ND	ND
Dibenzofuran		59	ND	1.1			0.051	ND	1.7	ND
Diethyl phthalate			ND	ND			ND	ND	ND	ND
Dimethyl phthalate			ND	ND			ND	ND	ND	ND
Di-n-butyl phthalate			ND	ND			ND	ND	ND	ND
Di-n-octyl phthalate			ND	ND			ND	ND	ND	ND
Fluoranthene		100	ND	5.6D			0.56	ND	3.5	0.071
Fluorene		100	ND	0.81			0.048	ND	2	ND
Hexachlorobenzene			ND	ND			ND	ND	ND	ND
Hexachlorobutadiene			ND	ND			ND	ND	ND	ND
Hexachlorocyclopentadiene			ND	ND			ND	ND	ND	ND
Hexachloroethane			ND	ND			ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene		0.5	ND	1.3			0.21	ND	0.62	0.05
Isophorone			ND	ND			ND	ND	ND	ND
Naphthalene		100	ND	0.043			0.04	ND	5.5D	ND
Nitrobenzene			ND	ND			ND	ND	ND	ND
N-Nitrosodi-n-propylamine			ND	ND			ND	ND	ND	ND
N-Nitrosodiphenylamine			ND	ND			ND	ND	ND	ND
Pentachlorophenol		6.7	ND	ND			ND	ND	ND	ND
Phenanthrene		100	ND	6D			0.58	ND	5.3D	0.029
Phenol		100	ND	ND			ND	ND	ND	ND
Pyrene		100	ND	5.4			0.55	ND	2.8	0.34
Total Conc				34.023			3.935		34.74	0.518
Total Estimated Conc. (TICs)			10.7	53.39			10.77	10.87	60.05	10.54

Notes:
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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
Volatile Organic Compounds (ppm)						
1,1,1-Trichloroethane	100	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethane	26	ND	ND	ND	ND	ND
1,1-Dichloroethene	100	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND	ND	ND
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.1	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND
1,3-Dichlorobenzene	49	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND
Acetone	100	0.0081	0.012	0.022	0.015	0.0098
Benzene	4.8	ND	ND	0.0051	ND	0.00064
Bromodichloromethane		ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND
Carbon disulfide		ND	ND	0.00036	0.00066	0.00027
Carbon tetrachloride	2.4	ND	ND	ND	0.0025	0.0016
Chlorobenzene	100	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND
Chloroform	49	ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND
Ethylbenzene	41	ND	ND	0.0083	ND	0.00049
Isopropylbenzene		ND	ND	0.00088	ND	0.00021
Methyl acetate		ND	ND	ND	ND	ND
Methyl tert-butyl ether	100	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	0.00032	ND	ND
Methylene Chloride	100	0.00082	0.0013	0.0015	ND	ND
Styrene		ND	ND	0.00029	ND	ND
Tetrachloroethene	19	ND	ND	ND	ND	ND
Toluene	100	ND	ND	0.001	ND	ND
trans-1,2-Dichloroethene	100000	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND
Trichloroethene	21	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
Vinyl chloride	0.9	ND	ND	ND	ND	ND
Xylenes, Total	100	ND	ND	0.0074	0.00048	0.0017
Total Conc		0.00892	0.0133	0.04715	0.01864	0.01471
Total Estimated Conc. (TICs)			0.0063	0.971	0.0065	0.2377

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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
Semivolatile Organic Compounds (ppm)						
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	0.067	0.062	0.0097	0.012
2-Methylphenol		ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND
Acenaphthene	100	0.11	0.044	0.11	0.046	0.078
Acenaphthylene	100	0.026	0.028	0.11	ND	ND
Acetophenone		ND	ND	ND	ND	ND
Anthracene	100	ND	0.13	0.33	ND	ND
Atrazine		ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND
Benzo[a]anthracene	1	ND	0.028	0.084	ND	ND
Benzo[a]pyrene	1	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	1	ND	0.021	0.012	0.011	ND
Benzo[g,h,i]perylene	100	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	3.9	ND	ND	ND	ND	ND
Biphenyl		ND	0.099	0.13	ND	ND
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND
Carbazole		ND	0.17	0.47	0.012	0.025
Chrysene	3.9	ND	0.021	0.051	ND	ND
Dibenz(a,h)anthracene	0.33	ND	ND	ND	ND	ND
Dibenzofuran	59	0.04	0.59	0.51	0.04	0.047
Diethyl phthalate		ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND
Fluoranthene	100	ND	0.33	0.68	0.027	0.013
Fluorene	100	0.081	0.35	0.35	0.073	0.043
Hexachlorobenzene		ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND
Naphthalene	100	0.037	0.22	1	0.024	0.042
Nitrobenzene		ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND	ND	ND
Phenanthrene	100	ND	0.44	1.5	0.027	0.034
Phenol	100	ND	ND	ND	ND	ND
Pyrene	100	ND	0.24	0.5	0.026	ND
Total Conc		0.294	2.778	5.899	0.2957	0.294
Total Estimated Conc. (TICs)			0.45		0.61	

Notes:
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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
Volatile Organic Compounds (ppm)							
1,1,1-Trichloroethane	100	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	26	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	100	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.1	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	49	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND	ND
Acetone	100	0.0081	0.012	0.022	0.015	0.0098	0.0051
Benzene	4.8	ND	ND	0.0051	ND	0.00064	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND
Carbon disulfide		ND	ND	0.00036	0.00066	0.00027	ND
Carbon tetrachloride	2.4	ND	ND	ND	0.0025	0.0016	0.0011
Chlorobenzene	100	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND
Chloroform	49	ND	ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND
Ethylbenzene	41	ND	ND	0.0083	ND	0.00049	ND
Isopropylbenzene		ND	ND	0.00088	ND	0.00021	ND
Methyl acetate		ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	100	ND	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	0.00032	ND	ND	ND
Methylene Chloride	100	0.00082	0.0013	0.0015	ND	ND	0.00047
Styrene		ND	ND	0.00029	ND	ND	ND
Tetrachloroethene	19	ND	ND	ND	ND	ND	ND
Toluene	100	ND	ND	0.001	ND	ND	ND
trans-1,2-Dichloroethene	100000	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND
Trichloroethene	21	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND
Vinyl chloride	0.9	ND	ND	ND	ND	ND	ND
Xylenes, Total	100	ND	ND	0.0074	0.00048	0.0017	ND
Total Conc		0.00892	0.0133	0.04715	0.01864	0.01471	0.00667
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
Semivolatile Organic Compounds (ppm)							
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	0.067	0.062	0.0097	0.012	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND
Acenaphthene	100	0.11	0.044	0.11	0.046	0.078	ND
Acenaphthylene	100	0.026	0.028	0.11	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND
Anthracene	100	ND	0.13	0.33	ND	ND	ND
Atrazine		ND	ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1	ND	0.028	0.084	ND	ND	ND
Benzo[a]pyrene	1	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	1	ND	0.021	0.012	0.011	ND	ND
Benzo[g,h,i]perylene	100	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	3.9	ND	ND	ND	ND	ND	ND
Biphenyl		ND	0.099	0.13	ND	ND	ND
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND
Carbazole		ND	0.17	0.47	0.012	0.025	ND
Chrysene	3.9	ND	0.021	0.051	ND	ND	ND
Dibenz(a,h)anthracene	0.33	ND	ND	ND	ND	ND	ND
Dibenzofuran	59	0.04	0.59	0.51	0.04	0.047	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND
Fluoranthene	100	ND	0.33	0.68	0.027	0.013	ND
Fluorene	100	0.081	0.35	0.35	0.073	0.043	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND
Naphthalene	100	0.037	0.22	1	0.024	0.042	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND	ND	ND	ND
Phenanthrene	100	ND	0.44	1.5	0.027	0.034	ND
Phenol	100	ND	ND	ND	ND	ND	ND
Pyrene	100	ND	0.24	0.5	0.026	ND	ND
Total Conc		0.294	2.778	5.899	0.2957	0.294	
Total Estimated Conc. (TICs)			0.45		0.61		

Notes:
Results are pending data validation and DUSR preparation.
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ND = Not detected above given laboratory reporting limit.
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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
Volatile Organic Compounds (ppm)								
1,1,1-Trichloroethane	100	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	26	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	100	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	100	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	49	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND	ND	ND
Acetone	100	0.0081	0.012	0.022	0.015	0.0098	0.0051	0.014
Benzene	4.8	ND	ND	0.0051	ND	0.00064	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND
Carbon disulfide		ND	ND	0.00036	0.00066	0.00027	ND	ND
Carbon tetrachloride	2.4	ND	ND	ND	0.0025	0.0016	0.0011	ND
Chlorobenzene	100	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND
Chloroform	49	ND	ND	ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	41	ND	ND	0.0083	ND	0.00049	ND	ND
Isopropylbenzene		ND	ND	0.00088	ND	0.00021	ND	ND
Methyl acetate		ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	100	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	0.00032	ND	ND	ND	ND
Methylene Chloride	100	0.00082	0.0013	0.0015	ND	ND	0.00047	0.00034
Styrene		ND	ND	0.00029	ND	ND	ND	ND
Tetrachloroethene	19	ND	ND	ND	ND	ND	ND	ND
Toluene	100	ND	ND	0.001	ND	ND	ND	ND
trans-1,2-Dichloroethene	100000	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND
Trichloroethene	21	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.9	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	100	ND	ND	0.0074	0.00048	0.0017	ND	ND
Total Conc		0.00892	0.0133	0.04715	0.01864	0.01471	0.00667	0.01434
Total Estimated Conc. (TICs)			0.0063	0.971	0.0065	0.2377		

Notes:
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Results do not include laboratory data qualifier codes.
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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
Semivolatile Organic Compounds (ppm)								
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	0.067	0.062	0.0097	0.012	ND	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline		ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline		ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND
Acenaphthene	100	0.11	0.044	0.11	0.046	0.078	ND	ND
Acenaphthylene	100	0.026	0.028	0.11	ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND	ND
Anthracene	100	ND	0.13	0.33	ND	ND	ND	ND
Atrazine		ND	ND	ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1	ND	0.028	0.084	ND	ND	ND	0.035
Benzo[a]pyrene	1	ND	ND	ND	ND	ND	ND	0.026
Benzo[b]fluoranthene	1	ND	0.021	0.012	0.011	ND	ND	0.034
Benzo[g,h,i]perylene	100	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	3.9	ND	ND	ND	ND	ND	ND	0.014
Biphenyl		ND	0.099	0.13	ND	ND	ND	ND
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	0.17	0.47	0.012	0.025	ND	ND
Chrysene	3.9	ND	0.021	0.051	ND	ND	ND	0.028
Dibenz(a,h)anthracene	0.33	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	59	0.04	0.59	0.51	0.04	0.047	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	ND	0.33	0.68	0.027	0.013	ND	0.046
Fluorene	100	0.081	0.35	0.35	0.073	0.043	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND
Naphthalene	100	0.037	0.22	1	0.024	0.042	ND	ND
Nitrobenzene		ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	ND	0.44	1.5	0.027	0.034	ND	0.04
Phenol	100	ND	ND	ND	ND	ND	ND	ND
Pyrene	100	ND	0.24	0.5	0.026	ND	ND	0.052
Total Conc		0.294	2.778	5.899	0.2957	0.294		0.275
Total Estimated Conc. (TICs)			0.45		0.61			

Notes:
Results are pending data validation and DUSR preparation.
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ppm = Parts per million
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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
Volatile Organic Compounds (ppm)				
1,1,1-Trichloroethane	100	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND
1,1-Dichloroethane	26	ND	ND	ND
1,1-Dichloroethene	100	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND
1,2-Dibromo-3-Chloropropane		ND	ND	ND
1,2-Dibromoethane		ND	ND	ND
1,2-Dichlorobenzene	100	ND	ND	ND
1,2-Dichloroethane	3.1	ND	ND	ND
1,2-Dichloropropane		ND	ND	ND
1,3-Dichlorobenzene	49	ND	ND	ND
1,4-Dichlorobenzene	13	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND
2-Hexanone		ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND
Acetone	100	0.0081	0.012	0.022
Benzene	4.8	ND	ND	0.0051
Bromodichloromethane		ND	ND	ND
Bromoform		ND	ND	ND
Bromomethane		ND	ND	ND
Carbon disulfide		ND	ND	0.00036
Carbon tetrachloride	2.4	ND	ND	ND
Chlorobenzene	100	ND	ND	ND
Chloroethane		ND	ND	ND
Chloroform	49	ND	ND	ND
Chloromethane		ND	ND	ND
cis-1,2-Dichloroethene		ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND
Cyclohexane		ND	ND	ND
Dibromochloromethane		ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND
Ethylbenzene	41	ND	ND	0.0083
Isopropylbenzene		ND	ND	0.00088
Methyl acetate		ND	ND	ND
Methyl tert-butyl ether	100	ND	ND	ND
Methylcyclohexane		ND	ND	0.00032
Methylene Chloride	100	0.00082	0.0013	0.0015
Styrene		ND	ND	0.00029
Tetrachloroethene	19	ND	ND	ND
Toluene	100	ND	ND	0.001
trans-1,2-Dichloroethene	100000	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND
Trichloroethene	21	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND
Vinyl chloride	0.9	ND	ND	ND
Xylenes, Total	100	ND	ND	0.0074
Total Conc		0.00892	0.0133	0.04715
Total Estimated Conc. (TICs)			0.0063	0.971

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
Semivolatile Organic Compounds (ppm)				
2,4,5-Trichlorophenol		ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND
2,4-Dinitrophenol		ND	ND	ND
2,4-Dinitrotoluene		ND	ND	ND
2,6-Dinitrotoluene		ND	ND	ND
2-Chloronaphthalene		ND	ND	ND
2-Chlorophenol		ND	ND	ND
2-Methylnaphthalene		ND	0.067	0.062
2-Methylphenol		ND	ND	ND
2-Nitroaniline		ND	ND	ND
2-Nitrophenol		ND	ND	ND
3,3'-Dichlorobenzidine		ND	ND	ND
3-Nitroaniline		ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND
4-Chloroaniline		ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND
4-Methylphenol		ND	ND	ND
4-Nitroaniline		ND	ND	ND
4-Nitrophenol		ND	ND	ND
Acenaphthene	100	0.11	0.044	0.11
Acenaphthylene	100	0.026	0.028	0.11
Acetophenone		ND	ND	ND
Anthracene	100	ND	0.13	0.33
Atrazine		ND	ND	ND
Benzaldehyde		ND	ND	ND
Benzo[a]anthracene	1	ND	0.028	0.084
Benzo[a]pyrene	1	ND	ND	ND
Benzo[b]fluoranthene	1	ND	0.021	0.012
Benzo[g,h,i]perylene	100	ND	ND	ND
Benzo[k]fluoranthene	3.9	ND	ND	ND
Biphenyl		ND	0.099	0.13
bis (2-chloroisopropyl) ether		ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	ND
Bis(2-ethylhexyl) phthalate		ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND
Caprolactam		ND	ND	ND
Carbazole		ND	0.17	0.47
Chrysene	3.9	ND	0.021	0.051
Dibenz(a,h)anthracene	0.33	ND	ND	ND
Dibenzofuran	59	0.04	0.59	0.51
Diethyl phthalate		ND	ND	ND
Dimethyl phthalate		ND	ND	ND
Di-n-butyl phthalate		ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND
Fluoranthene	100	ND	0.33	0.68
Fluorene	100	0.081	0.35	0.35
Hexachlorobenzene		ND	ND	ND
Hexachlorobutadiene		ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND
Hexachloroethane		ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	ND
Isophorone		ND	ND	ND
Naphthalene	100	0.037	0.22	1
Nitrobenzene		ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND
Pentachlorophenol	6.7	ND	ND	ND
Phenanthrene	100	ND	0.44	1.5
Phenol	100	ND	ND	ND
Pyrene	100	ND	0.24	0.5
Total Conc		0.294	2.778	5.899
Total Estimated Conc. (TICs)			0.45	

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Location ID Sample Date Sample ID	NYSDEC Part 375-6 Restricted- Res	PWEXSWNA115 4/8/2019 480-151556-1	PWEXSWNA116 4/8/2019 480-151556-2	PWEXSWNA117 4/8/2019 480-151556-3	PWEXSWNA118 4/8/2019 480-151556-4	PWEXSWNA119 4/8/2019 480-151556-5	PWEXSWNA120 4/8/2019 480-151556-6	PWEXSWNA123 4/8/2019 480-151556-7	PWEXSWNA124 4/8/2019 480-151556-8	PWEXSWNA125 4/8/2019 480-151556-9	PWEXBM04077 4/8/2019 480-151605-2	PWEXSWNA121 4/9/2019 480-151605-4	PWEXBM04078 4/9/2019 480-151605-5	PWEXSNA122 4/9/2019 480-151605-18
Semivolatile Organic Compounds (ppm)														
2,4,5-Trichlorophenol		ND	ND	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	ND	ND
2,4-Dichlorophenol		ND	ND	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	ND	ND
2,4-Dinitrophenol		ND	ND	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	ND	ND
2,6-Dinitrotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	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	ND	ND
3-Nitroaniline		ND	ND	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	ND	ND
4-Bromophenyl phenyl ether		ND	ND	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	ND	ND
4-Chloroaniline		ND	ND	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	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	ND	ND	0.12	ND	ND	4.1	ND	ND	ND	ND	ND	1.1	ND
Acetophenone		ND	ND	0.063	ND	ND	11	0.025	ND	0.06	ND	ND	ND	ND
Anthracene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.7	0.051	0.092
Atrazine		ND	ND	0.12	ND	ND	49	0.14	ND	0.24	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023	13	0.029	0.15
Benzo[a]pyrene	1	ND	ND	0.067	ND	ND	46	0.66	ND	0.74	0.045	9.6	0.049	0.13
Benzo[b]fluoranthene	1	ND	ND	ND	ND	ND	31	0.51	0.069	0.69	ND	11	ND	0.14
Benzo[g,h,i]perylene	100	ND	ND	ND	ND	ND	32	0.54	ND	0.86	ND	5.7	ND	0.065
Benzo[k]fluoranthene	3.9	ND	ND	ND	ND	ND	15	0.26	ND	0.47	0.04	5.7	ND	0.11
bis (2-chloroisopropyl) ether		ND	ND	ND	ND	ND	15	0.34	0.045	0.33	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		ND	ND	0.035	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether		ND	ND	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	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND	ND
Biphenyl		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	0.23	ND	ND	4.8	ND	ND	0.057	ND	0.8	ND	ND
Chrysene	3.9	ND	ND	0.061	ND	ND	37	0.63	0.054	0.72	0.045	9.5	0.053	0.15
Dibenz(a,h)anthracene	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	59	ND	ND	0.19	ND	ND	24	ND	ND	0.031	ND	2.1	ND	ND
Diethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		ND	ND	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	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	ND	0.024	0.19	ND	ND	120 D	1	0.1	1.5	0.069	28	0.082	0.31
Fluorene	100	ND	ND	0.2	ND	ND	30	ND	ND	0.047	ND	2.1	ND	ND
Hexachlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	ND	ND	ND	ND	ND	15	0.24	ND	0.44	0.023	5.5	ND	0.068
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	100	ND	ND	0.061	ND	ND	1.5	ND	ND	ND	ND	0.33	ND	ND
Nitrobenzene		ND	ND	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	ND	ND
N-Nitrosodiphenylamine		ND	ND	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	ND	ND
Phenanthrene	100	ND	ND	0.42	ND	ND	160 D	0.22	0.038	0.99	0.032	20	0.049	0.13
Phenol	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100	ND	ND	0.16	ND	ND	77 D	0.88	0.12	1.3	0.032	25	0.045	0.24
Total Conc			0.024	1.917			675.9	5.445	0.426	8.475	0.309	149.46	0.358	1.585
Total Estimated Conc. (TICs)		9.19	3.23	3.4	3.8	3.2	2644.7	7.62	3.59	6.39	11.41	46	15.53	13.44

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Volatile Organic Compounds (ppm)														
1,1,1-Trichloroethane	100	ND	ND	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	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	ND	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	ND	ND
1,1-Dichloroethane	26	ND	ND	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	ND	ND
1,2,4-Trichlorobenzene		ND	ND	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	ND	ND
1,2-Dibromoethane		ND	ND	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	ND	ND
1,2-Dichloroethane	3.1	ND	ND	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	ND	ND
1,3-Dichlorobenzene	49	ND	ND	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	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	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	ND	ND
Acetone	100	0.067	0.022	0.035	0.014	0.0085	0.01	0.018	0.0078	0.025	0.0051	ND	ND	ND
Benzene	4.8	ND	ND	0.00061	ND	ND	0.0011	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00038	0.00045	0.00047	0.00045
Chloromethane		ND	ND	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	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	41	ND	ND	0.0024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate		ND	ND	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	ND	ND
Methylcyclohexane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	ND	0.0028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	ND	ND	ND	ND	ND	0.00061	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	100000	ND	ND	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	ND	ND
Trichloroethene	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	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	ND	ND
Xylenes, Total	100	ND	ND	0.0041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Conc		0.067	0.0248	0.04211	0.014	0.0085	0.01171	0.018	0.0078	0.025	0.00548	0.00045	0.00047	0.00045
Total Estimated Conc. (TICs)				0.275							0.0222			

Notes:

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