ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: 30255203
Laboratory: Pace Analytical Services, LLC, Greensburg, Pennsylvania
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

VOC & TPH			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	SB-43B	3025523001	Soil
2	SB-43C	3025523002	Soil
11	SB-45B	3025523011	Soil
12	SB-45C	3025523012	Soil
17	SB-41B	3025523017	Soil
18	SB-41C	3025523018	Soil

SVOC, PCB, Pesticides, & Metals			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	SB-43B	3025523001	Soil
2	SB-43C	3025523002	Soil
3*	SB-42B	3025523003	Soil
4*	SB-42B DUP	3025523004	Soil
5*	SB-42C	3025523005	Soil
6MS*	SB-42CMS	3025523006MS	Soil
7MSD*	SB-42CMSD	3025523007MSD	Soil
8*	SB-46B	3025523008	Soil
9	SB-46C	3025523009	Soil
10	SB-46C DUP	3025523010	Soil
11*	SB-45B	3025523011	Soil
12*	SB-45C	3025523012	Soil
13	SB-44B	3025523013	Soil
14MS	SB-44BMS	3025523014MS	Soil
15MSD	SB-44BMSD	3025523015MSD	Soil
16	SB-44C	3025523016	Soil
17	SB-41B	3025523017	Soil
18	SB-41C	3025523018	Soil

* - All analyses except Pesticides

A Data Usability Summary Review was performed on the analytical data for fourteen soil samples collected on June 6, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions"*.

Specific method references are as follows:

Analysis	*Method References*
VOCs	USEPA SW-846 Method 8260C
SVOCs	USEPA SW-846 Method 8270D
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
TPH	USEPA SW-846 Method 9071B
Metals/Hg	USEPA SW-846 Methods 6010C/7471B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 0, July 2015: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;
- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample

- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for soil samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibration exhibited acceptable %RSD values and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent difference (%D) and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- The following table presents samples that exceeded the -50%/+100% area criteria for internal standard areas. Non-detected results for the associated compounds are considered estimated and qualified (UJ). Positive results for the associated compounds are considered estimated and qualified (J). Non-detected compounds that exceed the lower limit by -25% area criteria are considered rejected (R) and unusable for project objectives.

EDS Sample ID	Internal Standard	Area Count	Qualifier
1	Chlorobenzene-d5	Low	J/UJ - Associated Compounds
	1,4-Dichlorobenzene-d4	Low	J/UJ - Associated Compounds

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Semivolatile Organics Compounds (SVOCs)

Holding Times

- The samples were extracted within 14 days for soil samples and analyzed within 40 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent difference (%D) and RRF values.

Method Blank

- The method blank was free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
5	2,4-Dimethylphenol	24%/OK/93	UJ
	Benzyl Alcohol	OK/OK/154	None for RPD alone
	n-Nitroso-di-n-propylamine	OK/112%/OK	None - Sample ND
13	Benzyl Alcohol	0%/0%/NC	R

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- EDS Sample IDs 3, 4, 11, 13, and 17 were analyzed at various dilutions due to matrix interference. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable (RPD >50%) for several compounds in one field duplicate pair. These results were qualified estimated (J/UJ).

Compound	SB-42B ug/kg	SB-42B DUP ug/kg	RPD	Qualifier
Fluoranthene	4270	5640	28%	None

Compound	SB-46C ug/kg	SB-46C DUP ug/kg	RPD	Qualifier
Anthracene	1420	ND	200%	J/UJ
Benzo(a)anthracene	3530	1200	99%	J
Benzo(a)pyrene	2770	1110	86%	
Benzo(b)fluoranthene	2000	831	83%	
Benzo(ghi)perylene	722	567	24%	None
Benzo(k)fluoranthene	2470	849	98%	J
Chrysene	3140	1190	90%	
Fluoranthene	7260	2370	102%	
Indeno(123-cd)pyrene	916	591	43%	None - <5X RL
Phenanthrene	6180	2090	99%	J

Compound	SB-46C ug/kg	SB-46C DUP ug/kg	RPD	Qualifier
Pyrene	7020	2640	91%	J

Pesticides

Holding Times

- The sample was extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- The following table presents surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). For a severely low %R (<10%), positive results are considered estimated and qualified (J) while non-detect results are rejected (R) and are unusable for project objectives

EDS Sample ID	Surrogate	%R	Qualifier
1	DCB1/TCX1	164%/155%	None - Sample ND

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- Several samples were analyzed at various dilutions due to matrix interference. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	SB-46C ug/kg	SB-46C DUP ug/kg	RPD	Qualifier
gamma-BHC	14.2	ND	NC	None
Endrin Ketone	15.0	ND	ND	

GC Column Difference Results

- EDS Sample ID 9 exhibited a percent difference (%D) >40% between columns for endrin ketone. This result has been qualified estimated (J).

Polychlorinated Biphenyls (PCBs)

Holding Times

- The sample was extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
13	PCB-1016	180%/157%/OK	None - Sample ND
	PCB-1260	247%/206%/OK	

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- Several samples were analyzed at various dilutions due to matrix interference. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	SB-42B ug/kg	SB-42B DUP ug/kg	RPD	Qualifier
PCBs	ND	ND	-	-

Compound	SB-46C ug/kg	SB-46C DUP ug/kg	RPD	Qualifier
PCBs	ND	ND	-	-

GC Column Difference Results

- All criteria were met.

Total Petroleum Hydrocarbons (TPH)

Holding Times

- The sample was extracted within 7 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Metals & Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

ICP Interference Check Samples

- The ICP interference check samples exhibited acceptable recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
5	Antimony	46%/56%/OK	J/UJ	All Samples
	Barium	413%/OK/121	J	
	Lead	127%/OK/OK	J	
	Potassium	241%/OK/69	J	

EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
5	Zinc	137%/OK/51	J	All Samples
13	Barium	173%/129%/OK	None	See EDS #5
	Lead	133%/39%/109	None	
	Zinc	140%/54%/89	None	

Laboratory Control Samples

- The LCS sample exhibited acceptable recoveries.

ICP Serial Dilution

- ICP serial dilution percent differences (%D) were within acceptance limits except for the following.

EDS Sample ID	Compound	%D	Qualifier	Affected Samples
5	Arsenic	21.0%	J/UJ	All Samples

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable (RPD >50%) for copper in both field duplicate pairs and lead in one field duplicate pair. The copper results were qualified estimated (J). The lead results were already qualified due to MS/MSD.

Compound	SB-42B mg/kg	SB-42B DUP mg/kg	RPD	Qualifier
Aluminum	8230	7590	8%	None
Antimony	1.4	0.98	35%	
Arsenic	7.3	7.4	1%	
Barium	200	171	16%	
Beryllium	1.2	1.1	9%	
Boron	11.0	9.5	15%	
Cadmium	0.85	0.83	2%	
Calcium	21500	14800	37%	
Chromium	25.5	34.7	31%	
Cobalt	8.3	8.9	7%	
Copper	1790	158	168%	J
Iron	18500	20800	12%	None
Lead	811	534	41%	
Magnesium	4930	3250	41%	
Manganese	341	305	11%	
Molybdenum	2.2	4.7	72%	None - <5X RL
Nickel	28.4	43.7	42%	None

Compound	SB-42B mg/kg	SB-42B DUP mg/kg	RPD	Qualifier
Potassium	1430	1250	13%	None
Selenium	0.96	1.1	14%	
Silver	3.2	2.3	33%	
Vanadium	22.9	21.0	9%	
Zinc	442	497	12%	
Mercury	3.6	1.8	67%	None - <5X RL

Compound	SB-46C mg/kg	SB-46C DUP mg/kg	RPD	Qualifier
Aluminum	12100	8940	30%	None
Arsenic	7.8	7.2	8%	
Barium	91.4	69.1	28%	
Beryllium	0.64	0.49	27%	
Boron	6.8	ND	NC	
Cadmium	0.58	0.42	32%	
Calcium	9670	9000	7%	
Chromium	27.9	19.2	37%	
Cobalt	11.2	9.6	15%	
Copper	54.0	29.1	60%	J
Iron	51800	18600	16%	None
Lead	69.7	42.0	50%	None - See MS/MSD
Magnesium	5770	5430	6%	None
Manganese	352	250	34%	
Nickel	22.2	184	19%	
Potassium	1760	1290	31%	
Silver	2.1	1.7	21%	
Vanadium	23.7	19.5	19%	
Zinc	117	80.9	36%	
Mercury	0.64	0.24	91%	None - <5X RL

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/8/18

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43B **Lab ID: 30255203001** Collected: 06/06/18 08:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	20.2	3.6	10	06/07/18 19:10	06/08/18 23:35	309-00-2	ED
alpha-BHC	ND	ug/kg	20.2	4.0	10	06/07/18 19:10	06/08/18 23:35	319-84-6	ED
beta-BHC	ND	ug/kg	20.2	14.8	10	06/07/18 19:10	06/08/18 23:35	319-85-7	ED
delta-BHC	ND	ug/kg	20.2	19.6	10	06/07/18 19:10	06/08/18 23:35	319-86-8	ED
gamma-BHC (Lindane)	ND	ug/kg	20.2	5.3	10	06/07/18 19:10	06/08/18 23:35	58-89-9	ED
alpha-Chlordane	ND	ug/kg	20.2	2.2	10	06/07/18 19:10	06/08/18 23:35	5103-71-9	ED
gamma-Chlordane	ND	ug/kg	20.2	5.3	10	06/07/18 19:10	06/08/18 23:35	5103-74-2	ED
4,4'-DDD	ND	ug/kg	40.5	13.3	10	06/07/18 19:10	06/08/18 23:35	72-54-8	ED
4,4'-DDE	ND	ug/kg	40.5	7.2	10	06/07/18 19:10	06/08/18 23:35	72-55-9	ED
4,4'-DDT	ND	ug/kg	40.5	10.6	10	06/07/18 19:10	06/08/18 23:35	50-29-3	ED
Dieldrin	ND	ug/kg	40.5	4.2	10	06/07/18 19:10	06/08/18 23:35	60-57-1	ED
Endosulfan I	ND	ug/kg	20.2	2.5	10	06/07/18 19:10	06/08/18 23:35	959-98-8	ED
Endosulfan II	ND	ug/kg	40.5	5.8	10	06/07/18 19:10	06/08/18 23:35	33213-65-9	ED
Endosulfan sulfate	ND	ug/kg	40.5	3.6	10	06/07/18 19:10	06/08/18 23:35	1031-07-8	ED
Endrin	ND	ug/kg	40.5	6.4	10	06/07/18 19:10	06/08/18 23:35	72-20-8	ED
Endrin aldehyde	ND	ug/kg	40.5	9.6	10	06/07/18 19:10	06/08/18 23:35	7421-93-4	~~CH,ED~~
Endrin ketone	ND	ug/kg	40.5	3.7	10	06/07/18 19:10	06/08/18 23:35	53494-70-5	ED
Heptachlor	ND	ug/kg	20.2	2.4	10	06/07/18 19:10	06/08/18 23:35	76-44-8	ED
Heptachlor epoxide	ND	ug/kg	20.2	5.7	10	06/07/18 19:10	06/08/18 23:35	1024-57-3	ED
Methoxychlor	ND	ug/kg	202	19.6	10	06/07/18 19:10	06/08/18 23:35	72-43-5	ED
Toxaphene	ND	ug/kg	202	66.6	10	06/07/18 19:10	06/08/18 23:35	8001-35-2	ED
Surrogates									
Tetrachloro-m-xylene (S)	155	%	37-113		10	06/07/18 19:10	06/08/18 23:35	877-09-8	S4
Decachlorobiphenyl (S)	164	%	39-122		10	06/07/18 19:10	06/08/18 23:35	2051-24-3	S4
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	20.2	1.9	1	06/07/18 19:10	06/11/18 19:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	20.2	6.5	1	06/07/18 19:10	06/11/18 19:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	20.2	2.7	1	06/07/18 19:10	06/11/18 19:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	20.2	2.4	1	06/07/18 19:10	06/11/18 19:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	20.2	2.0	1	06/07/18 19:10	06/11/18 19:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	20.2	2.2	1	06/07/18 19:10	06/11/18 19:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	20.2	2.0	1	06/07/18 19:10	06/11/18 19:35	11096-82-5	
PCB, Total	ND	ug/kg	182	24.5	1	06/07/18 19:10	06/11/18 19:35	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	41-99		1	06/07/18 19:10	06/11/18 19:35	877-09-8	
Decachlorobiphenyl (S)	94	%	55-110		1	06/07/18 19:10	06/11/18 19:35	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**9560**	mg/kg	11.5	2.9	1	06/08/18 09:48	06/11/18 19:34	7429-90-5	
Antimony	**3.4**	mg/kg	0.69	0.55	1	06/08/18 09:48	06/11/18 16:49	7440-36-0	J
Arsenic	**9.1**	mg/kg	0.57	0.55	1	06/08/18 09:48	06/11/18 16:49	7440-38-2	J
Barium	**241**	mg/kg	2.3	0.11	1	06/08/18 09:48	06/11/18 16:49	7440-39-3	
Beryllium	**0.82**	mg/kg	0.23	0.035	1	06/08/18 09:48	06/11/18 16:49	7440-41-7	
Boron	ND	mg/kg	5.7	0.20	1	06/08/18 09:48	06/11/18 16:49	7440-42-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43B **Lab ID: 30255203001** Collected: 06/06/18 08:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	**0.82**	mg/kg	0.34	0.070	1	06/08/18 09:48	06/11/18 16:49	7440-43-9	
Calcium	**15800**	mg/kg	230	5.6	1	06/08/18 09:48	06/11/18 16:49	7440-70-2	
Chromium	**74.4**	mg/kg	0.57	0.11	1	06/08/18 09:48	06/11/18 16:49	7440-47-3	
Cobalt	**10.4**	mg/kg	1.1	0.12	1	06/08/18 09:48	06/11/18 16:49	7440-48-4	
Copper	**143**	mg/kg	1.1	0.67	1	06/08/18 09:48	06/11/18 16:49	7440-50-8	
Iron	**54400**	mg/kg	11.5	1.3	1	06/08/18 09:48	06/11/18 16:49	7439-89-6	
Lead	**660** J	mg/kg	0.57	0.56	1	06/08/18 09:48	06/11/18 16:49	7439-92-1	
Magnesium	**5740**	mg/kg	57.4	6.7	1	06/08/18 09:48	06/11/18 16:49	7439-95-4	
Manganese	**562**	mg/kg	1.1	0.11	1	06/08/18 09:48	06/11/18 16:49	7439-96-5	
Molybdenum	**5.1**	mg/kg	2.3	0.16	1	06/08/18 09:48	06/11/18 16:49	7439-98-7	
Nickel	**32.6**	mg/kg	2.3	0.28	1	06/08/18 09:48	06/11/18 16:49	7440-02-0	
Potassium	**1470** J	mg/kg	57.4	52.9	1	06/08/18 09:48	06/11/18 16:49	7440-09-7	
Selenium	**1.2**	mg/kg	0.92	0.67	1	06/08/18 09:48	06/11/18 16:49	7782-49-2	
Silver	**2.4**	mg/kg	0.69	0.11	1	06/08/18 09:48	06/11/18 16:49	7440-22-4	
Sodium	ND	mg/kg	574	41.8	1	06/08/18 09:48	06/11/18 16:49	7440-23-5	
Thallium	ND	mg/kg	2.3	0.70	1	06/08/18 09:48	06/11/18 16:49	7440-28-0	
Vanadium	**27.0**	mg/kg	1.1	0.093	1	06/08/18 09:48	06/11/18 16:49	7440-62-2	
Zinc	**496** J	mg/kg	1.1	0.19	1	06/08/18 09:48	06/11/18 16:49	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.58**	mg/kg	0.12	0.0058	1	06/08/18 09:06	06/08/18 17:38	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	409	15.0	1	06/07/18 22:43	06/11/18 23:32	83-32-9	
Acenaphthylene	ND	ug/kg	409	13.3	1	06/07/18 22:43	06/11/18 23:32	208-96-8	
Anthracene	ND	ug/kg	409	12.8	1	06/07/18 22:43	06/11/18 23:32	120-12-7	
Azobenzene	ND	ug/kg	409	14.3	1	06/07/18 22:43	06/11/18 23:32	103-33-3	~~N2~~
Benzo(a)anthracene	ND	ug/kg	409	13.4	1	06/07/18 22:43	06/11/18 23:32	56-55-3	
Benzo(a)pyrene	ND	ug/kg	409	17.0	1	06/07/18 22:43	06/11/18 23:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	409	61.0	1	06/07/18 22:43	06/11/18 23:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	409	59.4	1	06/07/18 22:43	06/11/18 23:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	409	72.8	1	06/07/18 22:43	06/11/18 23:32	207-08-9	
Benzoic acid	ND	ug/kg	1020	563	1	06/07/18 22:43	06/11/18 23:32	65-85-0	
Benzyl alcohol	ND	ug/kg	409	96.1	1	06/07/18 22:43	06/11/18 23:32	100-51-6	~~L0~~
4-Bromophenylphenyl ether	ND	ug/kg	409	41.8	1	06/07/18 22:43	06/11/18 23:32	101-55-3	
Butylbenzylphthalate	ND	ug/kg	409	42.8	1	06/07/18 22:43	06/11/18 23:32	85-68-7	
Carbazole	ND	ug/kg	409	42.2	1	06/07/18 22:43	06/11/18 23:32	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	409	34.0	1	06/07/18 22:43	06/11/18 23:32	59-50-7	
4-Chloroaniline	ND	ug/kg	409	64.6	1	06/07/18 22:43	06/11/18 23:32	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	409	18.8	1	06/07/18 22:43	06/11/18 23:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	409	41.7	1	06/07/18 22:43	06/11/18 23:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	409	12.8	1	06/07/18 22:43	06/11/18 23:32	108-60-1	
2-Chloronaphthalene	ND	ug/kg	409	15.0	1	06/07/18 22:43	06/11/18 23:32	91-58-7	
2-Chlorophenol	ND	ug/kg	409	14.5	1	06/07/18 22:43	06/11/18 23:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	409	60.2	1	06/07/18 22:43	06/11/18 23:32	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43B **Lab ID: 30255203001** Collected: 06/06/18 08:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Chrysene	ND	ug/kg	409	110	1	06/07/18 22:43	06/11/18 23:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	409	60.2	1	06/07/18 22:43	06/11/18 23:32	53-70-3	
Dibenzofuran	ND	ug/kg	409	69.6	1	06/07/18 22:43	06/11/18 23:32	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	409	88.6	1	06/07/18 22:43	06/11/18 23:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	409	58.5	1	06/07/18 22:43	06/11/18 23:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	409	13.0	1	06/07/18 22:43	06/11/18 23:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	409	117	1	06/07/18 22:43	06/11/18 23:32	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	409	13.8	1	06/07/18 22:43	06/11/18 23:32	120-83-2	
Diethylphthalate	ND	ug/kg	409	15.5	1	06/07/18 22:43	06/11/18 23:32	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	409	41.3	1	06/07/18 22:43	06/11/18 23:32	105-67-9	
Dimethylphthalate	ND	ug/kg	409	17.2	1	06/07/18 22:43	06/11/18 23:32	131-11-3	
Di-n-butylphthalate	ND	ug/kg	409	15.0	1	06/07/18 22:43	06/11/18 23:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1020	79.8	1	06/07/18 22:43	06/11/18 23:32	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1020	391	1	06/07/18 22:43	06/11/18 23:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	409	19.8	1	06/07/18 22:43	06/11/18 23:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	409	50.0	1	06/07/18 22:43	06/11/18 23:32	606-20-2	
Di-n-octylphthalate	ND	ug/kg	409	49.0	1	06/07/18 22:43	06/11/18 23:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	409	79.5	1	06/07/18 22:43	06/11/18 23:32	117-81-7	
Fluoranthene	**632**	ug/kg	409	101	1	06/07/18 22:43	06/11/18 23:32	206-44-0	
Fluorene	ND	ug/kg	409	18.7	1	06/07/18 22:43	06/11/18 23:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	409	40.3	1	06/07/18 22:43	06/11/18 23:32	87-68-3	
Hexachlorobenzene	ND	ug/kg	409	45.5	1	06/07/18 22:43	06/11/18 23:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	409	202	1	06/07/18 22:43	06/11/18 23:32	77-47-4	
Hexachloroethane	ND	ug/kg	409	22.5	1	06/07/18 22:43	06/11/18 23:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	409	64.2	1	06/07/18 22:43	06/11/18 23:32	193-39-5	
Isophorone	ND	ug/kg	409	34.5	1	06/07/18 22:43	06/11/18 23:32	78-59-1	
1-Methylnaphthalene	ND	ug/kg	409	21.9	1	06/07/18 22:43	06/11/18 23:32	90-12-0	
2-Methylnaphthalene	ND	ug/kg	409	16.8	1	06/07/18 22:43	06/11/18 23:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	409	46.5	1	06/07/18 22:43	06/11/18 23:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	818	13.5	1	06/07/18 22:43	06/11/18 23:32		
Naphthalene	ND	ug/kg	409	128	1	06/07/18 22:43	06/11/18 23:32	91-20-3	
2-Nitroaniline	ND	ug/kg	1020	16.3	1	06/07/18 22:43	06/11/18 23:32	88-74-4	
3-Nitroaniline	ND	ug/kg	1020	102	1	06/07/18 22:43	06/11/18 23:32	99-09-2	
4-Nitroaniline	ND	ug/kg	1020	104	1	06/07/18 22:43	06/11/18 23:32	100-01-6	
Nitrobenzene	ND	ug/kg	409	12.7	1	06/07/18 22:43	06/11/18 23:32	98-95-3	
2-Nitrophenol	ND	ug/kg	409	20.9	1	06/07/18 22:43	06/11/18 23:32	88-75-5	
4-Nitrophenol	ND	ug/kg	409	51.6	1	06/07/18 22:43	06/11/18 23:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	409	46.9	1	06/07/18 22:43	06/11/18 23:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	409	24.1	1	06/07/18 22:43	06/11/18 23:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	409	60.3	1	06/07/18 22:43	06/11/18 23:32	86-30-6	
Pentachlorophenol	ND	ug/kg	1020	128	1	06/07/18 22:43	06/11/18 23:32	87-86-5	
Phenanthrene	ND	ug/kg	409	12.8	1	06/07/18 22:43	06/11/18 23:32	85-01-8	
Phenol	ND	ug/kg	409	52.1	1	06/07/18 22:43	06/11/18 23:32	108-95-2	
Pyrene	**531**	ug/kg	409	49.9	1	06/07/18 22:43	06/11/18 23:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	409	53.2	1	06/07/18 22:43	06/11/18 23:32	120-82-1	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43B **Lab ID: 30255203001** Collected: 06/06/18 08:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2,4,5-Trichlorophenol	ND	ug/kg	1020	71.2	1	06/07/18 22:43	06/11/18 23:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	409	131	1	06/07/18 22:43	06/11/18 23:32	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	67	%	10-175		1	06/07/18 22:43	06/11/18 23:32	4165-60-0	
2-Fluorobiphenyl (S)	70	%	10-151		1	06/07/18 22:43	06/11/18 23:32	321-60-8	
Terphenyl-d14 (S)	81	%	10-172		1	06/07/18 22:43	06/11/18 23:32	1718-51-0	
Phenol-d6 (S)	69	%	10-142		1	06/07/18 22:43	06/11/18 23:32	13127-88-3	
2-Fluorophenol (S)	85	%	10-138		1	06/07/18 22:43	06/11/18 23:32	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-144		1	06/07/18 22:43	06/11/18 23:32	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**270**	ug/kg	11.4	5.4	1	06/11/18 11:29	06/11/18 13:54	67-64-1	1c
Benzene	ND	ug/kg	5.7	1.7	1	06/11/18 11:29	06/11/18 13:54	71-43-2	1c
Bromochloromethane	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	74-97-5	1c
Bromodichloromethane	ND UJ	ug/kg	5.7	0.93	1	06/11/18 11:29	06/11/18 13:54	75-27-4	1c,IS
Bromoform	ND	ug/kg	5.7	0.90	1	06/11/18 11:29	06/11/18 13:54	75-25-2	1c,IS
Bromomethane	ND	ug/kg	5.7	3.6	1	06/11/18 11:29	06/11/18 13:54	74-83-9	1c
TOTAL BTEX	ND UJ	ug/kg	34.3	10.1	1	06/11/18 11:29	06/11/18 13:54		ES
2-Butanone (MEK)	**38.1**	ug/kg	11.4	3.2	1	06/11/18 11:29	06/11/18 13:54	78-93-3	1c
Carbon disulfide	**9.2**	ug/kg	5.7	2.4	1	06/11/18 11:29	06/11/18 13:54	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.7	2.3	1	06/11/18 11:29	06/11/18 13:54	56-23-5	1c
Chlorobenzene	ND UJ	ug/kg	5.7	1.8	1	06/11/18 11:29	06/11/18 13:54	108-90-7	1c,IS
Chloroethane	ND	ug/kg	5.7	2.3	1	06/11/18 11:29	06/11/18 13:54	75-00-3	1c
Chloroform	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	67-66-3	1c
Chloromethane	ND	ug/kg	5.7	2.3	1	06/11/18 11:29	06/11/18 13:54	74-87-3	1c
Dibromochloromethane	ND UJ	ug/kg	5.7	0.82	1	06/11/18 11:29	06/11/18 13:54	124-48-1	1c,IS
1,2-Dichlorobenzene	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	95-50-1	1c,IS
1,3-Dichlorobenzene	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	541-73-1	1c,IS
1,4-Dichlorobenzene	ND	ug/kg	5.7	1.4	1	06/11/18 11:29	06/11/18 13:54	106-46-7	1c,IS
1,1-Dichloroethane	ND	ug/kg	5.7	2.1	1	06/11/18 11:29	06/11/18 13:54	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.7	0.94	1	06/11/18 11:29	06/11/18 13:54	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	11.4	4.6	1	06/11/18 11:29	06/11/18 13:54	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.7	3.9	1	06/11/18 11:29	06/11/18 13:54	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.7	2.0	1	06/11/18 11:29	06/11/18 13:54	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.7	2.6	1	06/11/18 11:29	06/11/18 13:54	156-60-5	1c
1,2-Dichloropropane	ND UJ	ug/kg	5.7	1.1	1	06/11/18 11:29	06/11/18 13:54	78-87-5	1c,IS
cis-1,3-Dichloropropene	ND	ug/kg	5.7	0.82	1	06/11/18 11:29	06/11/18 13:54	10061-01-5	1c,IS
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1.0	1	06/11/18 11:29	06/11/18 13:54	10061-02-6	1c,IS
Ethylbenzene	ND	ug/kg	5.7	1.7	1	06/11/18 11:29	06/11/18 13:54	100-41-4	1c,IS
2-Hexanone	ND	ug/kg	11.4	0.91	1	06/11/18 11:29	06/11/18 13:54	591-78-6	1c
Isopropylbenzene (Cumene)	ND UJ	ug/kg	5.7	1.7	1	06/11/18 11:29	06/11/18 13:54	98-82-8	1c,IS
Methylene Chloride	ND	ug/kg	5.7	3.7	1	06/11/18 11:29	06/11/18 13:54	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND UJ	ug/kg	11.4	1.2	1	06/11/18 11:29	06/11/18 13:54	108-10-1	1c,IS
Methyl-tert-butyl ether	ND	ug/kg	5.7	0.90	1	06/11/18 11:29	06/11/18 13:54	1634-04-4	1c
Naphthalene	ND UJ	ug/kg	5.7	2.5	1	06/11/18 11:29	06/11/18 13:54	91-20-3	1c,IS

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43B **Lab ID: 30255203001** Collected: 06/06/18 08:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Styrene	ND UJ	ug/kg	5.7	1.3	1	06/11/18 11:29	06/11/18 13:54	100-42-5	1c,IS
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.4	1	06/11/18 11:29	06/11/18 13:54	79-34-5	1c,IS
Tetrachloroethene	ND	ug/kg	5.7	2.1	1	06/11/18 11:29	06/11/18 13:54	127-18-4	1c,IS
Toluene	ND	ug/kg	5.7	1.7	1	06/11/18 11:29	06/11/18 13:54	108-88-3	1c,IS
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	2.3	1	06/11/18 11:29	06/11/18 13:54	120-82-1	1c,IS
1,1,1-Trichloroethane	ND	ug/kg	5.7	2.1	1	06/11/18 11:29	06/11/18 13:54	71-55-6	1c
1,1,2-Trichloroethane	ND UJ	ug/kg	5.7	0.99	1	06/11/18 11:29	06/11/18 13:54	79-00-5	1c,IS
Trichloroethene	ND	ug/kg	5.7	2.3	1	06/11/18 11:29	06/11/18 13:54	79-01-6	1c,IS
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	95-63-6	1c,IS
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	108-67-8	1c,IS
Vinyl chloride	ND	ug/kg	5.7	2.9	1	06/11/18 11:29	06/11/18 13:54	75-01-4	1c
Xylene (Total)	ND UJ	ug/kg	17.2	5.0	1	06/11/18 11:29	06/11/18 13:54	1330-20-7	ES
m&p-Xylene	ND UJ	ug/kg	11.4	3.4	1	06/11/18 11:29	06/11/18 13:54	179601-23-1	1c,IS
o-Xylene	ND UJ	ug/kg	5.7	1.6	1	06/11/18 11:29	06/11/18 13:54	95-47-6	1c,IS
Surrogates									
Toluene-d8 (S)	108	%	76-124		1	06/11/18 11:29	06/11/18 13:54	2037-26-5	IS
4-Bromofluorobenzene (S)	122	%	70-133		1	06/11/18 11:29	06/11/18 13:54	460-00-4	IS
1,2-Dichloroethane-d4 (S)	108	%	74-131		1	06/11/18 11:29	06/11/18 13:54	17060-07-0	
Dibromofluoromethane (S)	101	%	71-130		1	06/11/18 11:29	06/11/18 13:54	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.3**	%	0.10	0.10	1		06/10/18 12:37		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**335**	mg/kg	124	18.5	1	06/11/18 08:50	06/11/18 14:27		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43B **Lab ID: 30255203001** Collected: 06/06/18 08:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Styrene	ND	ug/kg	5.7	1.3	1	06/11/18 11:29	06/11/18 13:54	100-42-5	1c,IS
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.4	1	06/11/18 11:29	06/11/18 13:54	79-34-5	1c,IS
Tetrachloroethene	ND	ug/kg	5.7	2.1	1	06/11/18 11:29	06/11/18 13:54	127-18-4	1c,IS
Toluene	ND	ug/kg	5.7	1.7	1	06/11/18 11:29	06/11/18 13:54	108-88-3	1c,IS
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	2.3	1	06/11/18 11:29	06/11/18 13:54	120-82-1	1c,IS
1,1,1-Trichloroethane	ND	ug/kg	5.7	2.1	1	06/11/18 11:29	06/11/18 13:54	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.7	0.99	1	06/11/18 11:29	06/11/18 13:54	79-00-5	1c,IS
Trichloroethene	ND	ug/kg	5.7	2.3	1	06/11/18 11:29	06/11/18 13:54	79-01-6	1c,IS
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	95-63-6	1c,IS
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1.5	1	06/11/18 11:29	06/11/18 13:54	108-67-8	1c,IS
Vinyl chloride	ND	ug/kg	5.7	2.9	1	06/11/18 11:29	06/11/18 13:54	75-01-4	1c
Xylene (Total)	ND	ug/kg	17.2	5.0	1	06/11/18 11:29	06/11/18 13:54	1330-20-7	ES
m&p-Xylene	ND	ug/kg	11.4	3.4	1	06/11/18 11:29	06/11/18 13:54	179601-23-1	1c,IS
o-Xylene	ND	ug/kg	5.7	1.6	1	06/11/18 11:29	06/11/18 13:54	95-47-6	1c,IS
Surrogates									
Toluene-d8 (S)	108	%	76-124		1	06/11/18 11:29	06/11/18 13:54	2037-26-5	IS
4-Bromofluorobenzene (S)	122	%	70-133		1	06/11/18 11:29	06/11/18 13:54	460-00-4	IS
1,2-Dichloroethane-d4 (S)	108	%	74-131		1	06/11/18 11:29	06/11/18 13:54	17060-07-0	
Dibromofluoromethane (S)	101	%	71-130		1	06/11/18 11:29	06/11/18 13:54	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.3**	%	0.10	0.10	1		06/10/18 12:37		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**335**	mg/kg	124	18.5	1	06/11/18 08:50	06/11/18 14:27		

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43C **Lab ID: 30255203002** Collected: 06/06/18 08:57 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	1.7	0.31	1	06/07/18 19:10	06/08/18 23:52	309-00-2	
alpha-BHC	ND	ug/kg	1.7	0.34	1	06/07/18 19:10	06/08/18 23:52	319-84-6	
beta-BHC	ND	ug/kg	1.7	1.3	1	06/07/18 19:10	06/08/18 23:52	319-85-7	
delta-BHC	ND	ug/kg	1.7	1.7	1	06/07/18 19:10	06/08/18 23:52	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	1.7	0.46	1	06/07/18 19:10	06/08/18 23:52	58-89-9	
alpha-Chlordane	ND	ug/kg	1.7	0.19	1	06/07/18 19:10	06/08/18 23:52	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.7	0.46	1	06/07/18 19:10	06/08/18 23:52	5103-74-2	
4,4'-DDD	ND	ug/kg	3.5	1.2	1	06/07/18 19:10	06/08/18 23:52	72-54-8	
4,4'-DDE	ND	ug/kg	3.5	0.62	1	06/07/18 19:10	06/08/18 23:52	72-55-9	
4,4'-DDT	ND	ug/kg	3.5	0.92	1	06/07/18 19:10	06/08/18 23:52	50-29-3	
Dieldrin	ND	ug/kg	3.5	0.36	1	06/07/18 19:10	06/08/18 23:52	60-57-1	
Endosulfan I	ND	ug/kg	1.7	0.22	1	06/07/18 19:10	06/08/18 23:52	959-98-8	
Endosulfan II	ND	ug/kg	3.5	0.50	1	06/07/18 19:10	06/08/18 23:52	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.5	0.32	1	06/07/18 19:10	06/08/18 23:52	1031-07-8	
Endrin	ND	ug/kg	3.5	0.55	1	06/07/18 19:10	06/08/18 23:52	72-20-8	
Endrin aldehyde	ND	ug/kg	3.5	0.83	1	06/07/18 19:10	06/08/18 23:52	7421-93-4	~~CH~~
Endrin ketone	ND	ug/kg	3.5	0.32	1	06/07/18 19:10	06/08/18 23:52	53494-70-5	
Heptachlor	ND	ug/kg	1.7	0.21	1	06/07/18 19:10	06/08/18 23:52	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.7	0.49	1	06/07/18 19:10	06/08/18 23:52	1024-57-3	
Methoxychlor	ND	ug/kg	17.5	1.7	1	06/07/18 19:10	06/08/18 23:52	72-43-5	
Toxaphene	ND	ug/kg	17.5	5.8	1	06/07/18 19:10	06/08/18 23:52	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	37-113		1	06/07/18 19:10	06/08/18 23:52	877-09-8	
Decachlorobiphenyl (S)	80	%	39-122		1	06/07/18 19:10	06/08/18 23:52	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.5	1.6	1	06/07/18 19:10	06/11/18 19:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.5	5.6	1	06/07/18 19:10	06/11/18 19:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.5	2.3	1	06/07/18 19:10	06/11/18 19:43	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.5	2.1	1	06/07/18 19:10	06/11/18 19:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.5	1.7	1	06/07/18 19:10	06/11/18 19:43	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	17.5	1.9	1	06/07/18 19:10	06/11/18 19:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.5	1.7	1	06/07/18 19:10	06/11/18 19:43	11096-82-5	
PCB, Total	ND	ug/kg	157	21.2	1	06/07/18 19:10	06/11/18 19:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	41-99		1	06/07/18 19:10	06/11/18 19:43	877-09-8	
Decachlorobiphenyl (S)	82	%	55-110		1	06/07/18 19:10	06/11/18 19:43	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**5990**	mg/kg	9.6	2.4	1	06/08/18 09:48	06/11/18 19:36	7429-90-5	
Antimony	~~ND~~ UJ	mg/kg	0.58	0.46	1	06/08/18 09:48	06/11/18 16:51	7440-36-0	
Arsenic	**2.2** J	mg/kg	0.48	0.46	1	06/08/18 09:48	06/11/18 16:51	7440-38-2	
Barium	**31.9** J	mg/kg	1.9	0.090	1	06/08/18 09:48	06/11/18 16:51	7440-39-3	
Beryllium	**0.29**	mg/kg	0.19	0.029	1	06/08/18 09:48	06/11/18 16:51	7440-41-7	
Boron	ND	mg/kg	4.8	0.17	1	06/08/18 09:48	06/11/18 16:51	7440-42-8	

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www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43C **Lab ID: 30255203002** Collected: 06/06/18 08:57 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	ND	mg/kg	0.29	0.058	1	06/08/18 09:48	06/11/18 16:51	7440-43-9	
Calcium	**3450**	mg/kg	192	4.7	1	06/08/18 09:48	06/11/18 16:51	7440-70-2	
Chromium	**9.2**	mg/kg	0.48	0.088	1	06/08/18 09:48	06/11/18 19:36	7440-47-3	
Cobalt	**5.5**	mg/kg	0.96	0.10	1	06/08/18 09:48	06/11/18 16:51	7440-48-4	
Copper	**10.4**	mg/kg	0.96	0.56	1	06/08/18 09:48	06/11/18 16:51	7440-50-8	
Iron	**12400**	mg/kg	9.6	1.1	1	06/08/18 09:48	06/11/18 16:51	7439-89-6	
Lead	**18.6** J	mg/kg	0.48	0.47	1	06/08/18 09:48	06/11/18 16:51	7439-92-1	
Magnesium	**3310**	mg/kg	48.0	5.6	1	06/08/18 09:48	06/11/18 16:51	7439-95-4	
Manganese	**195**	mg/kg	0.96	0.096	1	06/08/18 09:48	06/11/18 16:51	7439-96-5	
Molybdenum	ND	mg/kg	1.9	0.14	1	06/08/18 09:48	06/11/18 16:51	7439-98-7	
Nickel	**11.4**	mg/kg	1.9	0.24	1	06/08/18 09:48	06/11/18 16:51	7440-02-0	
Potassium	**923** J	mg/kg	48.0	44.2	1	06/08/18 09:48	06/11/18 16:51	7440-09-7	
Selenium	ND	mg/kg	0.77	0.56	1	06/08/18 09:48	06/11/18 16:51	7782-49-2	
Silver	**1.1**	mg/kg	0.58	0.093	1	06/08/18 09:48	06/11/18 19:36	7440-22-4	
Sodium	ND	mg/kg	480	35.0	1	06/08/18 09:48	06/11/18 16:51	7440-23-5	
Thallium	ND	mg/kg	1.9	0.59	1	06/08/18 09:48	06/11/18 16:51	7440-28-0	
Vanadium	**11.2**	mg/kg	0.96	0.078	1	06/08/18 09:48	06/11/18 19:36	7440-62-2	
Zinc	**35.8** J	mg/kg	0.96	0.16	1	06/08/18 09:48	06/11/18 16:51	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	ND	mg/kg	0.099	0.0049	1	06/08/18 09:06	06/08/18 17:39	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	356	13.0	1	06/07/18 22:43	06/09/18 18:25	83-32-9	
Acenaphthylene	ND	ug/kg	356	11.5	1	06/07/18 22:43	06/09/18 18:25	208-96-8	
Anthracene	ND	ug/kg	356	11.1	1	06/07/18 22:43	06/09/18 18:25	120-12-7	
Azobenzene	ND	ug/kg	356	12.4	1	06/07/18 22:43	06/09/18 18:25	103-33-3	~~N2~~
Benzo(a)anthracene	ND	ug/kg	356	11.6	1	06/07/18 22:43	06/09/18 18:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	356	14.7	1	06/07/18 22:43	06/09/18 18:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	356	53.0	1	06/07/18 22:43	06/09/18 18:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	356	51.6	1	06/07/18 22:43	06/09/18 18:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	356	63.3	1	06/07/18 22:43	06/09/18 18:25	207-08-9	
Benzoic acid	ND	ug/kg	890	489	1	06/07/18 22:43	06/09/18 18:25	65-85-0	
Benzyl alcohol	ND	ug/kg	356	83.6	1	06/07/18 22:43	06/09/18 18:25	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	356	36.3	1	06/07/18 22:43	06/09/18 18:25	101-55-3	
Butylbenzylphthalate	ND	ug/kg	356	37.2	1	06/07/18 22:43	06/09/18 18:25	85-68-7	
Carbazole	ND	ug/kg	356	36.7	1	06/07/18 22:43	06/09/18 18:25	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	356	29.6	1	06/07/18 22:43	06/09/18 18:25	59-50-7	
4-Chloroaniline	ND	ug/kg	356	56.2	1	06/07/18 22:43	06/09/18 18:25	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	356	16.4	1	06/07/18 22:43	06/09/18 18:25	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	356	36.2	1	06/07/18 22:43	06/09/18 18:25	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	356	11.1	1	06/07/18 22:43	06/09/18 18:25	108-60-1	
2-Chloronaphthalene	ND	ug/kg	356	13.0	1	06/07/18 22:43	06/09/18 18:25	91-58-7	
2-Chlorophenol	ND	ug/kg	356	12.6	1	06/07/18 22:43	06/09/18 18:25	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	356	52.4	1	06/07/18 22:43	06/09/18 18:25	7005-72-3	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43C **Lab ID: 30255203002** Collected: 06/06/18 08:57 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Chrysene	ND	ug/kg	356	96.1	1	06/07/18 22:43	06/09/18 18:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	356	52.4	1	06/07/18 22:43	06/09/18 18:25	53-70-3	
Dibenzofuran	ND	ug/kg	356	60.5	1	06/07/18 22:43	06/09/18 18:25	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	356	77.1	1	06/07/18 22:43	06/09/18 18:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	356	50.9	1	06/07/18 22:43	06/09/18 18:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	356	11.3	1	06/07/18 22:43	06/09/18 18:25	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	356	101	1	06/07/18 22:43	06/09/18 18:25	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	356	12.0	1	06/07/18 22:43	06/09/18 18:25	120-83-2	
Diethylphthalate	ND	ug/kg	356	13.5	1	06/07/18 22:43	06/09/18 18:25	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	356	35.9	1	06/07/18 22:43	06/09/18 18:25	105-67-9	
Dimethylphthalate	ND	ug/kg	356	15.0	1	06/07/18 22:43	06/09/18 18:25	131-11-3	
Di-n-butylphthalate	ND	ug/kg	356	13.0	1	06/07/18 22:43	06/09/18 18:25	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	890	69.4	1	06/07/18 22:43	06/09/18 18:25	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	890	340	1	06/07/18 22:43	06/09/18 18:25	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	356	17.2	1	06/07/18 22:43	06/09/18 18:25	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	356	43.5	1	06/07/18 22:43	06/09/18 18:25	606-20-2	
Di-n-octylphthalate	ND	ug/kg	356	42.6	1	06/07/18 22:43	06/09/18 18:25	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	356	69.1	1	06/07/18 22:43	06/09/18 18:25	117-81-7	
Fluoranthene	ND	ug/kg	356	88.0	1	06/07/18 22:43	06/09/18 18:25	206-44-0	
Fluorene	ND	ug/kg	356	16.2	1	06/07/18 22:43	06/09/18 18:25	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	356	35.1	1	06/07/18 22:43	06/09/18 18:25	87-68-3	
Hexachlorobenzene	ND	ug/kg	356	39.5	1	06/07/18 22:43	06/09/18 18:25	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	356	175	1	06/07/18 22:43	06/09/18 18:25	77-47-4	
Hexachloroethane	ND	ug/kg	356	19.6	1	06/07/18 22:43	06/09/18 18:25	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	356	55.8	1	06/07/18 22:43	06/09/18 18:25	193-39-5	
Isophorone	ND	ug/kg	356	30.0	1	06/07/18 22:43	06/09/18 18:25	78-59-1	
1-Methylnaphthalene	ND	ug/kg	356	19.0	1	06/07/18 22:43	06/09/18 18:25	90-12-0	
2-Methylnaphthalene	ND	ug/kg	356	14.6	1	06/07/18 22:43	06/09/18 18:25	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	356	40.4	1	06/07/18 22:43	06/09/18 18:25	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	712	11.8	1	06/07/18 22:43	06/09/18 18:25		
Naphthalene	ND	ug/kg	356	111	1	06/07/18 22:43	06/09/18 18:25	91-20-3	
2-Nitroaniline	ND	ug/kg	890	14.2	1	06/07/18 22:43	06/09/18 18:25	88-74-4	
3-Nitroaniline	ND	ug/kg	890	89.1	1	06/07/18 22:43	06/09/18 18:25	99-09-2	
4-Nitroaniline	ND	ug/kg	890	90.7	1	06/07/18 22:43	06/09/18 18:25	100-01-6	
Nitrobenzene	ND	ug/kg	356	11.0	1	06/07/18 22:43	06/09/18 18:25	98-95-3	
2-Nitrophenol	ND	ug/kg	356	18.2	1	06/07/18 22:43	06/09/18 18:25	88-75-5	
4-Nitrophenol	ND	ug/kg	356	44.9	1	06/07/18 22:43	06/09/18 18:25	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	356	40.8	1	06/07/18 22:43	06/09/18 18:25	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	356	20.9	1	06/07/18 22:43	06/09/18 18:25	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	356	52.5	1	06/07/18 22:43	06/09/18 18:25	86-30-6	
Pentachlorophenol	ND	ug/kg	890	111	1	06/07/18 22:43	06/09/18 18:25	87-86-5	
Phenanthrene	ND	ug/kg	356	11.1	1	06/07/18 22:43	06/09/18 18:25	85-01-8	
Phenol	ND	ug/kg	356	45.3	1	06/07/18 22:43	06/09/18 18:25	108-95-2	
Pyrene	ND	ug/kg	356	43.4	1	06/07/18 22:43	06/09/18 18:25	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	356	46.3	1	06/07/18 22:43	06/09/18 18:25	120-82-1	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43C **Lab ID: 30255203002** Collected: 06/06/18 08:57 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2,4,5-Trichlorophenol	ND	ug/kg	890	61.9	1	06/07/18 22:43	06/09/18 18:25	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	356	114	1	06/07/18 22:43	06/09/18 18:25	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	80	%	10-175		1	06/07/18 22:43	06/09/18 18:25	4165-60-0	
2-Fluorobiphenyl (S)	80	%	10-151		1	06/07/18 22:43	06/09/18 18:25	321-60-8	
Terphenyl-d14 (S)	91	%	10-172		1	06/07/18 22:43	06/09/18 18:25	1718-51-0	
Phenol-d6 (S)	85	%	10-142		1	06/07/18 22:43	06/09/18 18:25	13127-88-3	
2-Fluorophenol (S)	88	%	10-138		1	06/07/18 22:43	06/09/18 18:25	367-12-4	
2,4,6-Tribromophenol (S)	93	%	10-144		1	06/07/18 22:43	06/09/18 18:25	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**21.9**	ug/kg	9.8	4.6	1	06/11/18 11:29	06/11/18 14:21	67-64-1	1c
Benzene	ND	ug/kg	4.9	1.4	1	06/11/18 11:29	06/11/18 14:21	71-43-2	1c
Bromochloromethane	ND	ug/kg	4.9	1.3	1	06/11/18 11:29	06/11/18 14:21	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.9	0.79	1	06/11/18 11:29	06/11/18 14:21	75-27-4	1c
Bromoform	ND	ug/kg	4.9	0.77	1	06/11/18 11:29	06/11/18 14:21	75-25-2	1c
Bromomethane	ND	ug/kg	4.9	3.1	1	06/11/18 11:29	06/11/18 14:21	74-83-9	1c
TOTAL BTEX	ND	ug/kg	29.4	8.7	1	06/11/18 11:29	06/11/18 14:21		
2-Butanone (MEK)	ND	ug/kg	9.8	2.8	1	06/11/18 11:29	06/11/18 14:21	78-93-3	1c
Carbon disulfide	ND	ug/kg	4.9	2.0	1	06/11/18 11:29	06/11/18 14:21	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	4.9	2.0	1	06/11/18 11:29	06/11/18 14:21	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.9	1.5	1	06/11/18 11:29	06/11/18 14:21	108-90-7	1c
Chloroethane	ND	ug/kg	4.9	2.0	1	06/11/18 11:29	06/11/18 14:21	75-00-3	1c
Chloroform	ND	ug/kg	4.9	1.3	1	06/11/18 11:29	06/11/18 14:21	67-66-3	1c
Chloromethane	ND	ug/kg	4.9	2.0	1	06/11/18 11:29	06/11/18 14:21	74-87-3	1c
Dibromochloromethane	ND	ug/kg	4.9	0.71	1	06/11/18 11:29	06/11/18 14:21	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	4.9	1.2	1	06/11/18 11:29	06/11/18 14:21	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.9	1.3	1	06/11/18 11:29	06/11/18 14:21	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.9	1.2	1	06/11/18 11:29	06/11/18 14:21	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	4.9	1.8	1	06/11/18 11:29	06/11/18 14:21	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.9	0.80	1	06/11/18 11:29	06/11/18 14:21	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	9.8	3.9	1	06/11/18 11:29	06/11/18 14:21	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.9	3.3	1	06/11/18 11:29	06/11/18 14:21	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1.7	1	06/11/18 11:29	06/11/18 14:21	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.2	1	06/11/18 11:29	06/11/18 14:21	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	4.9	0.97	1	06/11/18 11:29	06/11/18 14:21	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.9	0.71	1	06/11/18 11:29	06/11/18 14:21	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.9	0.89	1	06/11/18 11:29	06/11/18 14:21	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.9	1.5	1	06/11/18 11:29	06/11/18 14:21	100-41-4	1c
2-Hexanone	ND	ug/kg	9.8	0.78	1	06/11/18 11:29	06/11/18 14:21	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1.4	1	06/11/18 11:29	06/11/18 14:21	98-82-8	1c
Methylene Chloride	ND	ug/kg	4.9	3.2	1	06/11/18 11:29	06/11/18 14:21	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	1.0	1	06/11/18 11:29	06/11/18 14:21	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.9	0.77	1	06/11/18 11:29	06/11/18 14:21	1634-04-4	1c
Naphthalene	ND	ug/kg	4.9	2.2	1	06/11/18 11:29	06/11/18 14:21	91-20-3	1c

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-43C **Lab ID: 30255203002** Collected: 06/06/18 08:57 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Styrene	ND	ug/kg	4.9	1.1	1	06/11/18 11:29	06/11/18 14:21	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1.2	1	06/11/18 11:29	06/11/18 14:21	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.9	1.8	1	06/11/18 11:29	06/11/18 14:21	127-18-4	1c
Toluene	ND	ug/kg	4.9	1.4	1	06/11/18 11:29	06/11/18 14:21	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1.9	1	06/11/18 11:29	06/11/18 14:21	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.9	1.8	1	06/11/18 11:29	06/11/18 14:21	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.9	0.85	1	06/11/18 11:29	06/11/18 14:21	79-00-5	1c
Trichloroethene	ND	ug/kg	4.9	2.0	1	06/11/18 11:29	06/11/18 14:21	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1.3	1	06/11/18 11:29	06/11/18 14:21	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1.3	1	06/11/18 11:29	06/11/18 14:21	108-67-8	1c
Vinyl chloride	ND	ug/kg	4.9	2.5	1	06/11/18 11:29	06/11/18 14:21	75-01-4	1c
Xylene (Total)	ND	ug/kg	14.7	4.3	1	06/11/18 11:29	06/11/18 14:21	1330-20-7	
m&p-Xylene	ND	ug/kg	9.8	2.9	1	06/11/18 11:29	06/11/18 14:21	179601-23-1	1c
o-Xylene	ND	ug/kg	4.9	1.4	1	06/11/18 11:29	06/11/18 14:21	95-47-6	1c
Surrogates									
Toluene-d8 (S)	96	%	76-124		1	06/11/18 11:29	06/11/18 14:21	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-133		1	06/11/18 11:29	06/11/18 14:21	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	74-131		1	06/11/18 11:29	06/11/18 14:21	17060-07-0	
Dibromofluoromethane (S)	100	%	71-130		1	06/11/18 11:29	06/11/18 14:21	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.0**	%	0.10	0.10	1		06/10/18 12:37		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**129**	mg/kg	108	16.0	1	06/11/18 08:50	06/11/18 14:27		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42B **Lab ID: 30255203003** Collected: 06/06/18 09:36 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	98.9	9.2	5	06/07/18 19:10	06/11/18 20:00	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	98.9	31.7	5	06/07/18 19:10	06/11/18 20:00	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	98.9	13.2	5	06/07/18 19:10	06/11/18 20:00	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	98.9	11.6	5	06/07/18 19:10	06/11/18 20:00	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	98.9	9.6	5	06/07/18 19:10	06/11/18 20:00	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	98.9	10.9	5	06/07/18 19:10	06/11/18 20:00	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	98.9	9.6	5	06/07/18 19:10	06/11/18 20:00	11096-82-5	ED
PCB, Total	ND	ug/kg	890	120	5	06/07/18 19:10	06/11/18 20:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	65	%	41-99		5	06/07/18 19:10	06/11/18 20:00	877-09-8	
Decachlorobiphenyl (S)	80	%	55-110		5	06/07/18 19:10	06/11/18 20:00	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8230**	mg/kg	10.6	2.6	1	06/08/18 09:48	06/11/18 19:43	7429-90-5	
Antimony	**1.4** J	mg/kg	0.64	0.51	1	06/08/18 09:48	06/11/18 17:03	7440-36-0	
Arsenic	**7.3** J	mg/kg	0.53	0.51	1	06/08/18 09:48	06/11/18 17:03	7440-38-2	
Barium	**200** J	mg/kg	2.1	0.099	1	06/08/18 09:48	06/11/18 17:03	7440-39-3	
Beryllium	**1.2**	mg/kg	0.21	0.032	1	06/08/18 09:48	06/11/18 17:03	7440-41-7	
Boron	**11.0**	mg/kg	5.3	0.19	1	06/08/18 09:48	06/11/18 17:03	7440-42-8	
Cadmium	**0.85**	mg/kg	0.32	0.064	1	06/08/18 09:48	06/11/18 17:03	7440-43-9	
Calcium	**21500**	mg/kg	212	5.1	1	06/08/18 09:48	06/11/18 17:03	7440-70-2	
Chromium	**25.5**	mg/kg	0.53	0.097	1	06/08/18 09:48	06/11/18 17:03	7440-47-3	
Cobalt	**8.3**	mg/kg	1.1	0.11	1	06/08/18 09:48	06/11/18 17:03	7440-48-4	
Copper	**1790** J	mg/kg	1.1	0.62	1	06/08/18 09:48	06/11/18 17:03	7440-50-8	
Iron	**18500**	mg/kg	10.6	1.2	1	06/08/18 09:48	06/11/18 17:03	7439-89-6	
Lead	**811** J	mg/kg	0.53	0.52	1	06/08/18 09:48	06/11/18 17:03	7439-92-1	
Magnesium	**4930**	mg/kg	53.0	6.2	1	06/08/18 09:48	06/11/18 17:03	7439-95-4	
Manganese	**341**	mg/kg	1.1	0.11	1	06/08/18 09:48	06/11/18 17:03	7439-96-5	
Molybdenum	**2.2**	mg/kg	2.1	0.15	1	06/08/18 09:48	06/11/18 17:03	7439-98-7	
Nickel	**28.4**	mg/kg	2.1	0.26	1	06/08/18 09:48	06/11/18 17:03	7440-02-0	
Potassium	**1430** J	mg/kg	53.0	48.8	1	06/08/18 09:48	06/11/18 17:03	7440-09-7	
Selenium	**0.96**	mg/kg	0.85	0.62	1	06/08/18 09:48	06/11/18 17:03	7782-49-2	
Silver	**3.2**	mg/kg	0.64	0.10	1	06/08/18 09:48	06/11/18 17:03	7440-22-4	
Sodium	ND	mg/kg	530	38.6	1	06/08/18 09:48	06/11/18 17:03	7440-23-5	
Thallium	ND	mg/kg	2.1	0.65	1	06/08/18 09:48	06/11/18 17:03	7440-28-0	
Vanadium	**22.9**	mg/kg	1.1	0.086	1	06/08/18 09:48	06/11/18 17:03	7440-62-2	
Zinc	**442** J	mg/kg	1.1	0.18	1	06/08/18 09:48	06/11/18 17:03	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**3.6**	mg/kg	0.57	0.028	5	06/08/18 09:06	06/08/18 18:17	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3840	141	10	06/07/18 22:43	06/09/18 21:23	83-32-9	ED
Acenaphthylene	ND	ug/kg	3840	125	10	06/07/18 22:43	06/09/18 21:23	208-96-8	ED
Anthracene	ND	ug/kg	3840	120	10	06/07/18 22:43	06/09/18 21:23	120-12-7	ED

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42B **Lab ID: 30255203003** Collected: 06/06/18 09:36 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	3840	134	10	06/07/18 22:43	06/09/18 21:23	103-33-3	ED,N2
Benzo(a)anthracene	ND	ug/kg	3840	126	10	06/07/18 22:43	06/09/18 21:23	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3840	159	10	06/07/18 22:43	06/09/18 21:23	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3840	572	10	06/07/18 22:43	06/09/18 21:23	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3840	557	10	06/07/18 22:43	06/09/18 21:23	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3840	683	10	06/07/18 22:43	06/09/18 21:23	207-08-9	ED
Benzoic acid	ND	ug/kg	9610	5280	10	06/07/18 22:43	06/09/18 21:23	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3840	902	10	06/07/18 22:43	06/09/18 21:23	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	3840	392	10	06/07/18 22:43	06/09/18 21:23	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3840	401	10	06/07/18 22:43	06/09/18 21:23	85-68-7	ED
Carbazole	ND	ug/kg	3840	396	10	06/07/18 22:43	06/09/18 21:23	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3840	319	10	06/07/18 22:43	06/09/18 21:23	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3840	607	10	06/07/18 22:43	06/09/18 21:23	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3840	176	10	06/07/18 22:43	06/09/18 21:23	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3840	391	10	06/07/18 22:43	06/09/18 21:23	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3840	120	10	06/07/18 22:43	06/09/18 21:23	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3840	141	10	06/07/18 22:43	06/09/18 21:23	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3840	136	10	06/07/18 22:43	06/09/18 21:23	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3840	565	10	06/07/18 22:43	06/09/18 21:23	7005-72-3	ED
Chrysene	ND	ug/kg	3840	1040	10	06/07/18 22:43	06/09/18 21:23	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3840	565	10	06/07/18 22:43	06/09/18 21:23	53-70-3	ED
Dibenzofuran	ND	ug/kg	3840	653	10	06/07/18 22:43	06/09/18 21:23	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3840	831	10	06/07/18 22:43	06/09/18 21:23	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3840	549	10	06/07/18 22:43	06/09/18 21:23	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3840	122	10	06/07/18 22:43	06/09/18 21:23	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3840	1090	10	06/07/18 22:43	06/09/18 21:23	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3840	129	10	06/07/18 22:43	06/09/18 21:23	120-83-2	ED
Diethylphthalate	ND	ug/kg	3840	145	10	06/07/18 22:43	06/09/18 21:23	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3840	387	10	06/07/18 22:43	06/09/18 21:23	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3840	161	10	06/07/18 22:43	06/09/18 21:23	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3840	141	10	06/07/18 22:43	06/09/18 21:23	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9610	748	10	06/07/18 22:43	06/09/18 21:23	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9610	3670	10	06/07/18 22:43	06/09/18 21:23	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3840	186	10	06/07/18 22:43	06/09/18 21:23	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3840	469	10	06/07/18 22:43	06/09/18 21:23	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3840	460	10	06/07/18 22:43	06/09/18 21:23	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3840	746	10	06/07/18 22:43	06/09/18 21:23	117-81-7	ED
Fluoranthene	**4270**	ug/kg	3840	949	10	06/07/18 22:43	06/09/18 21:23	206-44-0	ED
Fluorene	ND	ug/kg	3840	175	10	06/07/18 22:43	06/09/18 21:23	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3840	378	10	06/07/18 22:43	06/09/18 21:23	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3840	427	10	06/07/18 22:43	06/09/18 21:23	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3840	1890	10	06/07/18 22:43	06/09/18 21:23	77-47-4	ED
Hexachloroethane	ND	ug/kg	3840	211	10	06/07/18 22:43	06/09/18 21:23	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3840	602	10	06/07/18 22:43	06/09/18 21:23	193-39-5	ED
Isophorone	ND	ug/kg	3840	324	10	06/07/18 22:43	06/09/18 21:23	78-59-1	ED

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42B **Lab ID: 30255203003** Collected: 06/06/18 09:36 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	3840	205	10	06/07/18 22:43	06/09/18 21:23	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3840	158	10	06/07/18 22:43	06/09/18 21:23	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3840	436	10	06/07/18 22:43	06/09/18 21:23	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7680	127	10	06/07/18 22:43	06/09/18 21:23		ED
Naphthalene	ND	ug/kg	3840	1200	10	06/07/18 22:43	06/09/18 21:23	91-20-3	ED
2-Nitroaniline	ND	ug/kg	9610	153	10	06/07/18 22:43	06/09/18 21:23	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9610	962	10	06/07/18 22:43	06/09/18 21:23	99-09-2	ED
4-Nitroaniline	ND	ug/kg	9610	979	10	06/07/18 22:43	06/09/18 21:23	100-01-6	ED
Nitrobenzene	ND	ug/kg	3840	119	10	06/07/18 22:43	06/09/18 21:23	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3840	196	10	06/07/18 22:43	06/09/18 21:23	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3840	484	10	06/07/18 22:43	06/09/18 21:23	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3840	441	10	06/07/18 22:43	06/09/18 21:23	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3840	226	10	06/07/18 22:43	06/09/18 21:23	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3840	566	10	06/07/18 22:43	06/09/18 21:23	86-30-6	ED
Pentachlorophenol	ND	ug/kg	9610	1200	10	06/07/18 22:43	06/09/18 21:23	87-86-5	ED
Phenanthrene	ND	ug/kg	3840	120	10	06/07/18 22:43	06/09/18 21:23	85-01-8	ED
Phenol	ND	ug/kg	3840	489	10	06/07/18 22:43	06/09/18 21:23	108-95-2	ED
Pyrene	ND	ug/kg	3840	468	10	06/07/18 22:43	06/09/18 21:23	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3840	499	10	06/07/18 22:43	06/09/18 21:23	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9610	668	10	06/07/18 22:43	06/09/18 21:23	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3840	1230	10	06/07/18 22:43	06/09/18 21:23	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	70	%	10-175		10	06/07/18 22:43	06/09/18 21:23	4165-60-0	
2-Fluorobiphenyl (S)	74	%	10-151		10	06/07/18 22:43	06/09/18 21:23	321-60-8	
Terphenyl-d14 (S)	75	%	10-172		10	06/07/18 22:43	06/09/18 21:23	1718-51-0	
Phenol-d6 (S)	78	%	10-142		10	06/07/18 22:43	06/09/18 21:23	13127-88-3	
2-Fluorophenol (S)	82	%	10-138		10	06/07/18 22:43	06/09/18 21:23	367-12-4	
2,4,6-Tribromophenol (S)	63	%	10-144		10	06/07/18 22:43	06/09/18 21:23	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.7**	%	0.10	0.10	1		06/10/18 12:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42B DUP **Lab ID: 30255203004** Collected: 06/06/18 09:37 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	94.0	8.8	5	06/07/18 19:10	06/11/18 20:08	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	94.0	30.2	5	06/07/18 19:10	06/11/18 20:08	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	94.0	12.5	5	06/07/18 19:10	06/11/18 20:08	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	94.0	11.0	5	06/07/18 19:10	06/11/18 20:08	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	94.0	9.1	5	06/07/18 19:10	06/11/18 20:08	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	94.0	10.4	5	06/07/18 19:10	06/11/18 20:08	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	94.0	9.1	5	06/07/18 19:10	06/11/18 20:08	11096-82-5	ED
PCB, Total	ND	ug/kg	846	114	5	06/07/18 19:10	06/11/18 20:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	41-99		5	06/07/18 19:10	06/11/18 20:08	877-09-8	
Decachlorobiphenyl (S)	94	%	55-110		5	06/07/18 19:10	06/11/18 20:08	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**7590**	mg/kg	10.5	2.6	1	06/08/18 09:48	06/11/18 19:45	7429-90-5	
Antimony	**0.98** J	mg/kg	0.63	0.51	1	06/08/18 09:48	06/11/18 17:05	7440-36-0	
Arsenic	**7.4** J	mg/kg	0.53	0.51	1	06/08/18 09:48	06/11/18 17:05	7440-38-2	
Barium	**171** J	mg/kg	2.1	0.099	1	06/08/18 09:48	06/11/18 17:05	7440-39-3	
Beryllium	**1.1**	mg/kg	0.21	0.032	1	06/08/18 09:48	06/11/18 17:05	7440-41-7	
Boron	**9.5**	mg/kg	5.3	0.18	1	06/08/18 09:48	06/11/18 17:05	7440-42-8	
Cadmium	**0.83**	mg/kg	0.32	0.064	1	06/08/18 09:48	06/11/18 17:05	7440-43-9	
Calcium	**14800**	mg/kg	211	5.1	1	06/08/18 09:48	06/11/18 17:05	7440-70-2	
Chromium	**34.7**	mg/kg	0.53	0.097	1	06/08/18 09:48	06/11/18 17:05	7440-47-3	
Cobalt	**8.9**	mg/kg	1.1	0.11	1	06/08/18 09:48	06/11/18 17:05	7440-48-4	
Copper	**158** J	mg/kg	1.1	0.62	1	06/08/18 09:48	06/11/18 17:05	7440-50-8	
Iron	**20800**	mg/kg	10.5	1.2	1	06/08/18 09:48	06/11/18 17:05	7439-89-6	
Lead	**534** J	mg/kg	0.53	0.52	1	06/08/18 09:48	06/11/18 17:05	7439-92-1	
Magnesium	**3250**	mg/kg	52.7	6.2	1	06/08/18 09:48	06/11/18 17:05	7439-95-4	
Manganese	**305**	mg/kg	1.1	0.11	1	06/08/18 09:48	06/11/18 17:05	7439-96-5	
Molybdenum	**4.7**	mg/kg	2.1	0.15	1	06/08/18 09:48	06/11/18 17:05	7439-98-7	
Nickel	**43.7**	mg/kg	2.1	0.26	1	06/08/18 09:48	06/11/18 17:05	7440-02-0	
Potassium	**1250** J	mg/kg	52.7	48.6	1	06/08/18 09:48	06/11/18 17:05	7440-09-7	
Selenium	**1.1**	mg/kg	0.84	0.62	1	06/08/18 09:48	06/11/18 17:05	7782-49-2	
Silver	**2.3**	mg/kg	0.63	0.10	1	06/08/18 09:48	06/11/18 17:05	7440-22-4	
Sodium	ND	mg/kg	527	38.4	1	06/08/18 09:48	06/11/18 17:05	7440-23-5	
Thallium	ND	mg/kg	2.1	0.65	1	06/08/18 09:48	06/11/18 17:05	7440-28-0	
Vanadium	**21.0**	mg/kg	1.1	0.086	1	06/08/18 09:48	06/11/18 17:05	7440-62-2	
Zinc	**497** J	mg/kg	1.1	0.18	1	06/08/18 09:48	06/11/18 17:05	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**1.8**	mg/kg	0.11	0.0054	1	06/08/18 09:06	06/08/18 17:47	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3770	138	10	06/07/18 22:43	06/09/18 21:45	83-32-9	ED
Acenaphthylene	ND	ug/kg	3770	122	10	06/07/18 22:43	06/09/18 21:45	208-96-8	ED
Anthracene	ND	ug/kg	3770	118	10	06/07/18 22:43	06/09/18 21:45	120-12-7	ED

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42B DUP **Lab ID: 30255203004** Collected: 06/06/18 09:37 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	3770	131	10	06/07/18 22:43	06/09/18 21:45	103-33-3	ED,N2
Benzo(a)anthracene	ND	ug/kg	3770	123	10	06/07/18 22:43	06/09/18 21:45	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3770	156	10	06/07/18 22:43	06/09/18 21:45	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3770	561	10	06/07/18 22:43	06/09/18 21:45	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3770	547	10	06/07/18 22:43	06/09/18 21:45	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3770	670	10	06/07/18 22:43	06/09/18 21:45	207-08-9	ED
Benzoic acid	ND	ug/kg	9430	5180	10	06/07/18 22:43	06/09/18 21:45	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3770	885	10	06/07/18 22:43	06/09/18 21:45	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	3770	385	10	06/07/18 22:43	06/09/18 21:45	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3770	394	10	06/07/18 22:43	06/09/18 21:45	85-68-7	ED
Carbazole	ND	ug/kg	3770	388	10	06/07/18 22:43	06/09/18 21:45	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3770	313	10	06/07/18 22:43	06/09/18 21:45	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3770	595	10	06/07/18 22:43	06/09/18 21:45	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3770	173	10	06/07/18 22:43	06/09/18 21:45	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3770	384	10	06/07/18 22:43	06/09/18 21:45	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3770	118	10	06/07/18 22:43	06/09/18 21:45	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3770	138	10	06/07/18 22:43	06/09/18 21:45	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3770	134	10	06/07/18 22:43	06/09/18 21:45	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3770	555	10	06/07/18 22:43	06/09/18 21:45	7005-72-3	ED
Chrysene	ND	ug/kg	3770	1020	10	06/07/18 22:43	06/09/18 21:45	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3770	555	10	06/07/18 22:43	06/09/18 21:45	53-70-3	ED
Dibenzofuran	ND	ug/kg	3770	641	10	06/07/18 22:43	06/09/18 21:45	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3770	816	10	06/07/18 22:43	06/09/18 21:45	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3770	539	10	06/07/18 22:43	06/09/18 21:45	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3770	120	10	06/07/18 22:43	06/09/18 21:45	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3770	1070	10	06/07/18 22:43	06/09/18 21:45	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3770	127	10	06/07/18 22:43	06/09/18 21:45	120-83-2	ED
Diethylphthalate	ND	ug/kg	3770	143	10	06/07/18 22:43	06/09/18 21:45	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3770	380	10	06/07/18 22:43	06/09/18 21:45	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3770	158	10	06/07/18 22:43	06/09/18 21:45	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3770	138	10	06/07/18 22:43	06/09/18 21:45	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9430	734	10	06/07/18 22:43	06/09/18 21:45	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9430	3600	10	06/07/18 22:43	06/09/18 21:45	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3770	182	10	06/07/18 22:43	06/09/18 21:45	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3770	461	10	06/07/18 22:43	06/09/18 21:45	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3770	452	10	06/07/18 22:43	06/09/18 21:45	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3770	732	10	06/07/18 22:43	06/09/18 21:45	117-81-7	ED
Fluoranthene	**5640**	ug/kg	3770	931	10	06/07/18 22:43	06/09/18 21:45	206-44-0	ED
Fluorene	ND	ug/kg	3770	172	10	06/07/18 22:43	06/09/18 21:45	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3770	371	10	06/07/18 22:43	06/09/18 21:45	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3770	419	10	06/07/18 22:43	06/09/18 21:45	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3770	1860	10	06/07/18 22:43	06/09/18 21:45	77-47-4	ED
Hexachloroethane	ND	ug/kg	3770	207	10	06/07/18 22:43	06/09/18 21:45	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3770	591	10	06/07/18 22:43	06/09/18 21:45	193-39-5	ED
Isophorone	ND	ug/kg	3770	318	10	06/07/18 22:43	06/09/18 21:45	78-59-1	ED

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42B DUP **Lab ID: 30255203004** Collected: 06/06/18 09:37 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	3770	201	10	06/07/18 22:43	06/09/18 21:45	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3770	155	10	06/07/18 22:43	06/09/18 21:45	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3770	428	10	06/07/18 22:43	06/09/18 21:45	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7540	124	10	06/07/18 22:43	06/09/18 21:45		ED
Naphthalene	ND	ug/kg	3770	1180	10	06/07/18 22:43	06/09/18 21:45	91-20-3	ED
2-Nitroaniline	ND	ug/kg	9430	151	10	06/07/18 22:43	06/09/18 21:45	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9430	944	10	06/07/18 22:43	06/09/18 21:45	99-09-2	ED
4-Nitroaniline	ND	ug/kg	9430	961	10	06/07/18 22:43	06/09/18 21:45	100-01-6	ED
Nitrobenzene	ND	ug/kg	3770	117	10	06/07/18 22:43	06/09/18 21:45	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3770	192	10	06/07/18 22:43	06/09/18 21:45	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3770	475	10	06/07/18 22:43	06/09/18 21:45	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3770	432	10	06/07/18 22:43	06/09/18 21:45	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3770	222	10	06/07/18 22:43	06/09/18 21:45	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3770	556	10	06/07/18 22:43	06/09/18 21:45	86-30-6	ED
Pentachlorophenol	ND	ug/kg	9430	1180	10	06/07/18 22:43	06/09/18 21:45	87-86-5	ED
Phenanthrene	ND	ug/kg	3770	118	10	06/07/18 22:43	06/09/18 21:45	85-01-8	ED
Phenol	ND	ug/kg	3770	480	10	06/07/18 22:43	06/09/18 21:45	108-95-2	ED
Pyrene	**5120**	ug/kg	3770	459	10	06/07/18 22:43	06/09/18 21:45	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3770	490	10	06/07/18 22:43	06/09/18 21:45	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9430	655	10	06/07/18 22:43	06/09/18 21:45	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3770	1210	10	06/07/18 22:43	06/09/18 21:45	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	71	%	10-175		10	06/07/18 22:43	06/09/18 21:45	4165-60-0	
2-Fluorobiphenyl (S)	76	%	10-151		10	06/07/18 22:43	06/09/18 21:45	321-60-8	
Terphenyl-d14 (S)	88	%	10-172		10	06/07/18 22:43	06/09/18 21:45	1718-51-0	
Phenol-d6 (S)	79	%	10-142		10	06/07/18 22:43	06/09/18 21:45	13127-88-3	
2-Fluorophenol (S)	81	%	10-138		10	06/07/18 22:43	06/09/18 21:45	367-12-4	
2,4,6-Tribromophenol (S)	66	%	10-144		10	06/07/18 22:43	06/09/18 21:45	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.2**	%	0.10	0.10	1		06/10/18 12:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42C **Lab ID: 30255203005** Collected: 06/06/18 10:00 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	18.3	1.7	1	06/07/18 19:10	06/11/18 20:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	18.3	5.9	1	06/07/18 19:10	06/11/18 20:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	18.3	2.4	1	06/07/18 19:10	06/11/18 20:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	18.3	2.1	1	06/07/18 19:10	06/11/18 20:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	18.3	1.8	1	06/07/18 19:10	06/11/18 20:25	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	18.3	2.0	1	06/07/18 19:10	06/11/18 20:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	18.3	1.8	1	06/07/18 19:10	06/11/18 20:25	11096-82-5	
PCB, Total	ND	ug/kg	165	22.2	1	06/07/18 19:10	06/11/18 20:25	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	41-99		1	06/07/18 19:10	06/11/18 20:25	877-09-8	
Decachlorobiphenyl (S)	86	%	55-110		1	06/07/18 19:10	06/11/18 20:25	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**9390**	mg/kg	10.4	2.6	1	06/08/18 09:48	06/11/18 19:21	7429-90-5	~~MH,ML,~~ R1
Antimony	~~ND~~ UJ	mg/kg	0.62	0.50	1	06/08/18 09:48	06/11/18 16:36	7440-36-0	ML
Arsenic	**5.1** J	mg/kg	0.52	0.50	1	06/08/18 09:48	06/11/18 16:36	7440-38-2	
Barium	**61.1** J	mg/kg	2.1	0.097	1	06/08/18 09:48	06/11/18 16:36	7440-39-3	~~D6,MH,~~ R1
Beryllium	**0.48**	mg/kg	0.21	0.031	1	06/08/18 09:48	06/11/18 16:36	7440-41-7	
Boron	ND	mg/kg	5.2	0.18	1	06/08/18 09:48	06/11/18 16:36	7440-42-8	
Cadmium	ND	mg/kg	0.31	0.063	1	06/08/18 09:48	06/11/18 16:36	7440-43-9	
Calcium	**5260**	mg/kg	207	5.0	1	06/08/18 09:48	06/11/18 16:36	7440-70-2	~~MH,ML,~~ R1
Chromium	**14.7**	mg/kg	0.52	0.095	1	06/08/18 09:48	06/11/18 16:36	7440-47-3	
Cobalt	**7.3**	mg/kg	1.0	0.11	1	06/08/18 09:48	06/11/18 16:36	7440-48-4	~~D6~~
Copper	**19.9**	mg/kg	1.0	0.60	1	06/08/18 09:48	06/11/18 16:36	7440-50-8	
Iron	**18300**	mg/kg	10.4	1.2	1	06/08/18 09:48	06/11/18 16:36	7439-89-6	~~MH,ML,~~ R1
Lead	**16.7** J	mg/kg	0.52	0.51	1	06/08/18 09:48	06/11/18 16:36	7439-92-1	~~MH,R1~~
Magnesium	**5240**	mg/kg	51.8	6.0	1	06/08/18 09:48	06/11/18 16:36	7439-95-4	~~ML,R1~~
Manganese	**757**	mg/kg	1.0	0.10	1	06/08/18 09:48	06/11/18 16:36	7439-96-5	~~D6,~~ML
Molybdenum	ND	mg/kg	2.1	0.15	1	06/08/18 09:48	06/11/18 16:36	7439-98-7	
Nickel	**17.2**	mg/kg	2.1	0.26	1	06/08/18 09:48	06/11/18 16:36	7440-02-0	
Potassium	**1180** J	mg/kg	51.8	47.7	1	06/08/18 09:48	06/11/18 16:36	7440-09-7	~~MH,R1~~
Selenium	ND	mg/kg	0.83	0.61	1	06/08/18 09:48	06/11/18 16:36	7782-49-2	
Silver	**1.2**	mg/kg	0.62	0.10	1	06/08/18 09:48	06/11/18 16:36	7440-22-4	~~D6~~
Sodium	ND	mg/kg	518	37.7	1	06/08/18 09:48	06/11/18 16:36	7440-23-5	
Thallium	ND	mg/kg	2.1	0.64	1	06/08/18 09:48	06/11/18 16:36	7440-28-0	
Vanadium	**16.0**	mg/kg	1.0	0.084	1	06/08/18 09:48	06/11/18 16:36	7440-62-2	
Zinc	**51.3** J	mg/kg	1.0	0.17	1	06/08/18 09:48	06/11/18 16:36	7440-66-6	~~MH,R1~~
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.15**	mg/kg	0.11	0.0055	1	06/08/18 09:06	06/08/18 17:28	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42C **Lab ID: 30255203005** Collected: 06/06/18 10:00 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	372	13.6	1	06/07/18 22:43	06/09/18 18:47	83-32-9	
Acenaphthylene	ND	ug/kg	372	12.1	1	06/07/18 22:43	06/09/18 18:47	208-96-8	
Anthracene	ND	ug/kg	372	11.6	1	06/07/18 22:43	06/09/18 18:47	120-12-7	
Azobenzene	ND	ug/kg	372	13.0	1	06/07/18 22:43	06/09/18 18:47	103-33-3	~~NZ~~
Benzo(a)anthracene	ND	ug/kg	372	12.2	1	06/07/18 22:43	06/09/18 18:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	372	15.4	1	06/07/18 22:43	06/09/18 18:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	372	55.4	1	06/07/18 22:43	06/09/18 18:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	372	54.0	1	06/07/18 22:43	06/09/18 18:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	372	66.2	1	06/07/18 22:43	06/09/18 18:47	207-08-9	
Benzoic acid	ND	ug/kg	931	512	1	06/07/18 22:43	06/09/18 18:47	65-85-0	
Benzyl alcohol	ND	ug/kg	372	87.4	1	06/07/18 22:43	06/09/18 18:47	100-51-6	~~R1~~
4-Bromophenylphenyl ether	ND	ug/kg	372	38.0	1	06/07/18 22:43	06/09/18 18:47	101-55-3	
Butylbenzylphthalate	ND	ug/kg	372	38.9	1	06/07/18 22:43	06/09/18 18:47	85-68-7	
Carbazole	ND	ug/kg	372	38.3	1	06/07/18 22:43	06/09/18 18:47	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	372	31.0	1	06/07/18 22:43	06/09/18 18:47	59-50-7	
4-Chloroaniline	ND	ug/kg	372	58.8	1	06/07/18 22:43	06/09/18 18:47	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	372	17.1	1	06/07/18 22:43	06/09/18 18:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	372	37.9	1	06/07/18 22:43	06/09/18 18:47	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	372	11.6	1	06/07/18 22:43	06/09/18 18:47	108-60-1	
2-Chloronaphthalene	ND	ug/kg	372	13.6	1	06/07/18 22:43	06/09/18 18:47	91-58-7	
2-Chlorophenol	ND	ug/kg	372	13.2	1	06/07/18 22:43	06/09/18 18:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	372	54.8	1	06/07/18 22:43	06/09/18 18:47	7005-72-3	
Chrysene	ND	ug/kg	372	100	1	06/07/18 22:43	06/09/18 18:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	372	54.8	1	06/07/18 22:43	06/09/18 18:47	53-70-3	
Dibenzofuran	ND	ug/kg	372	63.3	1	06/07/18 22:43	06/09/18 18:47	132-64-9	
1,2-Dichlorobenzene	~~ND~~	~~ug/kg~~	~~372~~	~~80.6~~	1	~~06/07/18 22:43~~	~~06/09/18 18:47~~	~~95-50-1~~	
1,3-Dichlorobenzene	ND	ug/kg	372	53.2	1	06/07/18 22:43	06/09/18 18:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	372	11.8	1	06/07/18 22:43	06/09/18 18:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	372	106	1	06/07/18 22:43	06/09/18 18:47	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	372	12.5	1	06/07/18 22:43	06/09/18 18:47	120-83-2	
Diethylphthalate	ND	ug/kg	372	14.1	1	06/07/18 22:43	06/09/18 18:47	84-66-2	
2,4-Dimethylphenol	~~ND~~ UJ	ug/kg	372	37.6	1	06/07/18 22:43	06/09/18 18:47	105-67-9	~~ML,R1~~
Dimethylphthalate	ND	ug/kg	372	15.6	1	06/07/18 22:43	06/09/18 18:47	131-11-3	
Di-n-butylphthalate	ND	ug/kg	372	13.6	1	06/07/18 22:43	06/09/18 18:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	931	72.5	1	06/07/18 22:43	06/09/18 18:47	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	931	355	1	06/07/18 22:43	06/09/18 18:47	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	372	18.0	1	06/07/18 22:43	06/09/18 18:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	372	45.5	1	06/07/18 22:43	06/09/18 18:47	606-20-2	
Di-n-octylphthalate	ND	ug/kg	372	44.6	1	06/07/18 22:43	06/09/18 18:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	372	72.3	1	06/07/18 22:43	06/09/18 18:47	117-81-7	
Fluoranthene	ND	ug/kg	372	92.0	1	06/07/18 22:43	06/09/18 18:47	206-44-0	
Fluorene	ND	ug/kg	372	17.0	1	06/07/18 22:43	06/09/18 18:47	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	372	36.7	1	06/07/18 22:43	06/09/18 18:47	87-68-3	
Hexachlorobenzene	ND	ug/kg	372	41.4	1	06/07/18 22:43	06/09/18 18:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	372	183	1	06/07/18 22:43	06/09/18 18:47	77-47-4	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-42C **Lab ID: 30255203005** Collected: 06/06/18 10:00 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Hexachloroethane	ND	ug/kg	372	20.5	1	06/07/18 22:43	06/09/18 18:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	372	58.4	1	06/07/18 22:43	06/09/18 18:47	193-39-5	
Isophorone	ND	ug/kg	372	31.4	1	06/07/18 22:43	06/09/18 18:47	78-59-1	
1-Methylnaphthalene	ND	ug/kg	372	19.9	1	06/07/18 22:43	06/09/18 18:47	90-12-0	
2-Methylnaphthalene	ND	ug/kg	372	15.3	1	06/07/18 22:43	06/09/18 18:47	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	372	42.3	1	06/07/18 22:43	06/09/18 18:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	744	12.3	1	06/07/18 22:43	06/09/18 18:47		
Naphthalene	ND	ug/kg	372	116	1	06/07/18 22:43	06/09/18 18:47	91-20-3	
2-Nitroaniline	ND	ug/kg	931	14.9	1	06/07/18 22:43	06/09/18 18:47	88-74-4	
3-Nitroaniline	ND	ug/kg	931	93.2	1	06/07/18 22:43	06/09/18 18:47	99-09-2	
4-Nitroaniline	ND	ug/kg	931	94.9	1	06/07/18 22:43	06/09/18 18:47	100-01-6	
Nitrobenzene	ND	ug/kg	372	11.5	1	06/07/18 22:43	06/09/18 18:47	98-95-3	
2-Nitrophenol	ND	ug/kg	372	19.0	1	06/07/18 22:43	06/09/18 18:47	88-75-5	
4-Nitrophenol	ND	ug/kg	372	46.9	1	06/07/18 22:43	06/09/18 18:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	372	42.7	1	06/07/18 22:43	06/09/18 18:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	372	21.9	1	06/07/18 22:43	06/09/18 18:47	621-64-7	MH
N-Nitrosodiphenylamine	ND	ug/kg	372	54.9	1	06/07/18 22:43	06/09/18 18:47	86-30-6	
Pentachlorophenol	ND	ug/kg	931	116	1	06/07/18 22:43	06/09/18 18:47	87-86-5	
Phenanthrene	ND	ug/kg	372	11.6	1	06/07/18 22:43	06/09/18 18:47	85-01-8	
Phenol	ND	ug/kg	372	47.4	1	06/07/18 22:43	06/09/18 18:47	108-95-2	
Pyrene	ND	ug/kg	372	45.4	1	06/07/18 22:43	06/09/18 18:47	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	372	48.4	1	06/07/18 22:43	06/09/18 18:47	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	931	64.7	1	06/07/18 22:43	06/09/18 18:47	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	372	120	1	06/07/18 22:43	06/09/18 18:47	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%	10-175		1	06/07/18 22:43	06/09/18 18:47	4165-60-0	
2-Fluorobiphenyl (S)	80	%	10-151		1	06/07/18 22:43	06/09/18 18:47	321-60-8	
Terphenyl-d14 (S)	91	%	10-172		1	06/07/18 22:43	06/09/18 18:47	1718-51-0	
Phenol-d6 (S)	87	%	10-142		1	06/07/18 22:43	06/09/18 18:47	13127-88-3	
2-Fluorophenol (S)	87	%	10-138		1	06/07/18 22:43	06/09/18 18:47	367-12-4	
2,4,6-Tribromophenol (S)	92	%	10-144		1	06/07/18 22:43	06/09/18 18:47	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.6**	%	0.10	0.10	**1**		06/10/18 12:38		

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46B **Lab ID: 30255203008** Collected: 06/06/18 10:33 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	21.2	2.0	1	06/07/18 19:10	06/11/18 20:59	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	21.2	6.8	1	06/07/18 19:10	06/11/18 20:59	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	21.2	2.8	1	06/07/18 19:10	06/11/18 20:59	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	21.2	2.5	1	06/07/18 19:10	06/11/18 20:59	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	21.2	2.1	1	06/07/18 19:10	06/11/18 20:59	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	21.2	2.3	1	06/07/18 19:10	06/11/18 20:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	21.2	2.1	1	06/07/18 19:10	06/11/18 20:59	11096-82-5	
PCB, Total	ND	ug/kg	191	25.7	1	06/07/18 19:10	06/11/18 20:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	64	%	41-99		1	06/07/18 19:10	06/11/18 20:59	877-09-8	
Decachlorobiphenyl (S)	77	%	55-110		1	06/07/18 19:10	06/11/18 20:59	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8340**	mg/kg	11.4	2.8	1	06/08/18 09:48	06/11/18 19:48	7429-90-5	
Antimony	**2.6** J	mg/kg	0.68	0.55	1	06/08/18 09:48	06/11/18 17:07	7440-36-0	
Arsenic	**13.0** J	mg/kg	0.57	0.55	1	06/08/18 09:48	06/11/18 17:07	7440-38-2	
Barium	**357** J	mg/kg	2.3	0.11	1	06/08/18 09:48	06/11/18 17:07	7440-39-3	
Beryllium	**0.57**	mg/kg	0.23	0.035	1	06/08/18 09:48	06/11/18 17:07	7440-41-7	
Boron	ND	mg/kg	5.7	0.20	1	06/08/18 09:48	06/11/18 17:07	7440-42-8	
Cadmium	**0.83**	mg/kg	0.34	0.069	1	06/08/18 09:48	06/11/18 17:07	7440-43-9	
Calcium	**8720**	mg/kg	227	5.5	1	06/08/18 09:48	06/11/18 17:07	7440-70-2	
Chromium	**17.2**	mg/kg	0.57	0.10	1	06/08/18 09:48	06/11/18 17:07	7440-47-3	
Cobalt	**9.2**	mg/kg	1.1	0.12	1	06/08/18 09:48	06/11/18 17:07	7440-48-4	
Copper	**140**	mg/kg	1.1	0.66	1	06/08/18 09:48	06/11/18 17:07	7440-50-8	
Iron	**29900**	mg/kg	11.4	1.3	1	06/08/18 09:48	06/11/18 17:07	7439-89-6	
Lead	**926** J	mg/kg	0.57	0.56	1	06/08/18 09:48	06/11/18 17:07	7439-92-1	
Magnesium	**4420**	mg/kg	56.8	6.6	1	06/08/18 09:48	06/11/18 17:07	7439-95-4	
Manganese	**694**	mg/kg	1.1	0.11	1	06/08/18 09:48	06/11/18 17:07	7439-96-5	
Molybdenum	ND	mg/kg	2.3	0.16	1	06/08/18 09:48	06/11/18 17:07	7439-98-7	
Nickel	**18.7**	mg/kg	2.3	0.28	1	06/08/18 09:48	06/11/18 17:07	7440-02-0	
Potassium	**1250** J	mg/kg	56.8	52.3	1	06/08/18 09:48	06/11/18 17:07	7440-09-7	
Selenium	**1.5**	mg/kg	0.91	0.66	1	06/08/18 09:48	06/11/18 17:07	7782-49-2	
Silver	**2.6**	mg/kg	0.68	0.11	1	06/08/18 09:48	06/11/18 17:07	7440-22-4	
Sodium	ND	mg/kg	568	41.3	1	06/08/18 09:48	06/11/18 17:07	7440-23-5	
Thallium	ND	mg/kg	2.3	0.70	1	06/08/18 09:48	06/11/18 17:07	7440-28-0	
Vanadium	**22.9**	mg/kg	1.1	0.092	1	06/08/18 09:48	06/11/18 17:07	7440-62-2	
Zinc	**434** J	mg/kg	1.1	0.19	1	06/08/18 09:48	06/11/18 17:07	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**1.8**	mg/kg	0.12	0.0058	1	06/08/18 09:06	06/08/18 17:49	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	421	15.4	1	06/07/18 22:43	06/09/18 23:58	83-32-9	
Acenaphthylene	ND	ug/kg	421	13.7	1	06/07/18 22:43	06/09/18 23:58	208-96-8	
Anthracene	ND	ug/kg	421	13.2	1	06/07/18 22:43	06/09/18 23:58	120-12-7	

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46B **Lab ID: 30255203008** Collected: 06/06/18 10:33 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	421	14.7	1	06/07/18 22:43	06/09/18 23:58	103-33-3	N2
Benzo(a)anthracene	**436**	ug/kg	421	13.8	1	06/07/18 22:43	06/09/18 23:58	56-55-3	
Benzo(a)pyrene	ND	ug/kg	421	17.5	1	06/07/18 22:43	06/09/18 23:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	421	62.8	1	06/07/18 22:43	06/09/18 23:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	421	61.1	1	06/07/18 22:43	06/09/18 23:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	421	74.9	1	06/07/18 22:43	06/09/18 23:58	207-08-9	
Benzoic acid	ND	ug/kg	1050	580	1	06/07/18 22:43	06/09/18 23:58	65-85-0	
Benzyl alcohol	ND	ug/kg	421	99.0	1	06/07/18 22:43	06/09/18 23:58	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	421	43.0	1	06/07/18 22:43	06/09/18 23:58	101-55-3	
Butylbenzylphthalate	ND	ug/kg	421	44.0	1	06/07/18 22:43	06/09/18 23:58	85-68-7	
Carbazole	ND	ug/kg	421	43.4	1	06/07/18 22:43	06/09/18 23:58	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	421	35.1	1	06/07/18 22:43	06/09/18 23:58	59-50-7	
4-Chloroaniline	ND	ug/kg	421	66.6	1	06/07/18 22:43	06/09/18 23:58	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	421	19.4	1	06/07/18 22:43	06/09/18 23:58	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	421	42.9	1	06/07/18 22:43	06/09/18 23:58	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	421	13.2	1	06/07/18 22:43	06/09/18 23:58	108-60-1	
2-Chloronaphthalene	ND	ug/kg	421	15.4	1	06/07/18 22:43	06/09/18 23:58	91-58-7	
2-Chlorophenol	ND	ug/kg	421	14.9	1	06/07/18 22:43	06/09/18 23:58	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	421	62.0	1	06/07/18 22:43	06/09/18 23:58	7005-72-3	
Chrysene	**486**	ug/kg	421	114	1	06/07/18 22:43	06/09/18 23:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	421	62.0	1	06/07/18 22:43	06/09/18 23:58	53-70-3	
Dibenzofuran	ND	ug/kg	421	71.6	1	06/07/18 22:43	06/09/18 23:58	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	421	91.3	1	06/07/18 22:43	06/09/18 23:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	421	60.2	1	06/07/18 22:43	06/09/18 23:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	421	13.4	1	06/07/18 22:43	06/09/18 23:58	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	421	120	1	06/07/18 22:43	06/09/18 23:58	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	421	14.2	1	06/07/18 22:43	06/09/18 23:58	120-83-2	
Diethylphthalate	ND	ug/kg	421	15.9	1	06/07/18 22:43	06/09/18 23:58	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	421	42.5	1	06/07/18 22:43	06/09/18 23:58	105-67-9	
Dimethylphthalate	ND	ug/kg	421	17.7	1	06/07/18 22:43	06/09/18 23:58	131-11-3	
Di-n-butylphthalate	ND	ug/kg	421	15.4	1	06/07/18 22:43	06/09/18 23:58	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1050	82.1	1	06/07/18 22:43	06/09/18 23:58	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1050	402	1	06/07/18 22:43	06/09/18 23:58	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	421	20.4	1	06/07/18 22:43	06/09/18 23:58	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	421	51.5	1	06/07/18 22:43	06/09/18 23:58	606-20-2	
Di-n-octylphthalate	ND	ug/kg	421	50.5	1	06/07/18 22:43	06/09/18 23:58	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	421	81.9	1	06/07/18 22:43	06/09/18 23:58	117-81-7	
Fluoranthene	**856**	ug/kg	421	104	1	06/07/18 22:43	06/09/18 23:58	206-44-0	
Fluorene	ND	ug/kg	421	19.2	1	06/07/18 22:43	06/09/18 23:58	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	421	41.5	1	06/07/18 22:43	06/09/18 23:58	87-68-3	
Hexachlorobenzene	ND	ug/kg	421	46.8	1	06/07/18 22:43	06/09/18 23:58	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	421	208	1	06/07/18 22:43	06/09/18 23:58	77-47-4	
Hexachloroethane	ND	ug/kg	421	23.2	1	06/07/18 22:43	06/09/18 23:58	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	421	66.1	1	06/07/18 22:43	06/09/18 23:58	193-39-5	
Isophorone	ND	ug/kg	421	35.6	1	06/07/18 22:43	06/09/18 23:58	78-59-1	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46B **Lab ID: 30255203008** Collected: 06/06/18 10:33 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	421	22.5	1	06/07/18 22:43	06/09/18 23:58	90-12-0	
2-Methylnaphthalene	ND	ug/kg	421	17.3	1	06/07/18 22:43	06/09/18 23:58	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	421	47.8	1	06/07/18 22:43	06/09/18 23:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	843	13.9	1	06/07/18 22:43	06/09/18 23:58		
Naphthalene	ND	ug/kg	421	132	1	06/07/18 22:43	06/09/18 23:58	91-20-3	
2-Nitroaniline	ND	ug/kg	1050	16.8	1	06/07/18 22:43	06/09/18 23:58	88-74-4	
3-Nitroaniline	ND	ug/kg	1050	106	1	06/07/18 22:43	06/09/18 23:58	99-09-2	
4-Nitroaniline	ND	ug/kg	1050	107	1	06/07/18 22:43	06/09/18 23:58	100-01-6	
Nitrobenzene	ND	ug/kg	421	13.0	1	06/07/18 22:43	06/09/18 23:58	98-95-3	
2-Nitrophenol	ND	ug/kg	421	21.5	1	06/07/18 22:43	06/09/18 23:58	88-75-5	
4-Nitrophenol	ND	ug/kg	421	53.2	1	06/07/18 22:43	06/09/18 23:58	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	421	48.4	1	06/07/18 22:43	06/09/18 23:58	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	421	24.8	1	06/07/18 22:43	06/09/18 23:58	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	421	62.1	1	06/07/18 22:43	06/09/18 23:58	86-30-6	
Pentachlorophenol	ND	ug/kg	1050	132	1	06/07/18 22:43	06/09/18 23:58	87-86-5	
Phenanthrene	**718**	ug/kg	421	13.2	1	06/07/18 22:43	06/09/18 23:58	85-01-8	
Phenol	ND	ug/kg	421	53.7	1	06/07/18 22:43	06/09/18 23:58	108-95-2	
Pyrene	**803**	ug/kg	421	51.4	1	06/07/18 22:43	06/09/18 23:58	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	421	54.8	1	06/07/18 22:43	06/09/18 23:58	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1050	73.3	1	06/07/18 22:43	06/09/18 23:58	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	421	135	1	06/07/18 22:43	06/09/18 23:58	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	60	%	10-175		1	06/07/18 22:43	06/09/18 23:58	4165-60-0	
2-Fluorobiphenyl (S)	60	%	10-151		1	06/07/18 22:43	06/09/18 23:58	321-60-8	
Terphenyl-d14 (S)	52	%	10-172		1	06/07/18 22:43	06/09/18 23:58	1718-51-0	
Phenol-d6 (S)	59	%	10-142		1	06/07/18 22:43	06/09/18 23:58	13127-88-3	
2-Fluorophenol (S)	59	%	10-138		1	06/07/18 22:43	06/09/18 23:58	367-12-4	
2,4,6-Tribromophenol (S)	50	%	10-144		1	06/07/18 22:43	06/09/18 23:58	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		06/10/18 12:38		

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C **Lab ID: 30255203009** Collected: 06/06/18 10:44 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	2.4	0.42	1	06/07/18 19:10	06/09/18 00:01	309-00-2	
alpha-BHC	ND	ug/kg	2.4	0.47	1	06/07/18 19:10	06/09/18 00:01	319-84-6	
beta-BHC	ND	ug/kg	2.4	1.7	1	06/07/18 19:10	06/09/18 00:01	319-85-7	
delta-BHC	ND	ug/kg	2.4	2.3	1	06/07/18 19:10	06/09/18 00:01	319-86-8	~~CH~~
gamma-BHC (Lindane)	**14.2**	ug/kg	2.4	0.62	1	06/07/18 19:10	06/09/18 00:01	58-89-9	
alpha-Chlordane	ND	ug/kg	2.4	0.26	1	06/07/18 19:10	06/09/18 00:01	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.4	0.62	1	06/07/18 19:10	06/09/18 00:01	5103-74-2	
4,4'-DDD	ND	ug/kg	4.8	1.6	1	06/07/18 19:10	06/09/18 00:01	72-54-8	
4,4'-DDE	ND	ug/kg	4.8	0.85	1	06/07/18 19:10	06/09/18 00:01	72-55-9	
4,4'-DDT	ND	ug/kg	4.8	1.3	1	06/07/18 19:10	06/09/18 00:01	50-29-3	
Dieldrin	ND	ug/kg	4.8	0.49	1	06/07/18 19:10	06/09/18 00:01	60-57-1	
Endosulfan I	ND	ug/kg	2.4	0.29	1	06/07/18 19:10	06/09/18 00:01	959-98-8	
Endosulfan II	ND	ug/kg	4.8	0.68	1	06/07/18 19:10	06/09/18 00:01	33213-65-9	
Endosulfan sulfate	ND	ug/kg	4.8	0.43	1	06/07/18 19:10	06/09/18 00:01	1031-07-8	
Endrin	ND	ug/kg	4.8	0.75	1	06/07/18 19:10	06/09/18 00:01	72-20-8	
Endrin aldehyde	ND	ug/kg	4.8	1.1	1	06/07/18 19:10	06/09/18 00:01	7421-93-4	~~CH~~
Endrin ketone	**15.0** J	ug/kg	4.8	0.44	1	06/07/18 19:10	06/09/18 00:01	53494-70-5	~~CJ~~
Heptachlor	ND	ug/kg	2.4	0.29	1	06/07/18 19:10	06/09/18 00:01	76-44-8	
Heptachlor epoxide	ND	ug/kg	2.4	0.67	1	06/07/18 19:10	06/09/18 00:01	1024-57-3	
Methoxychlor	ND	ug/kg	23.8	2.3	1	06/07/18 19:10	06/09/18 00:01	72-43-5	~~CH~~
Toxaphene	ND	ug/kg	23.8	7.8	1	06/07/18 19:10	06/09/18 00:01	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	37-113		1	06/07/18 19:10	06/09/18 00:01	877-09-8	
Decachlorobiphenyl (S)	67	%	39-122		1	06/07/18 19:10	06/09/18 00:01	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	23.8	2.2	1	06/07/18 19:10	06/11/18 21:07	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	23.8	7.7	1	06/07/18 19:10	06/11/18 21:07	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	23.8	3.2	1	06/07/18 19:10	06/11/18 21:07	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	23.8	2.8	1	06/07/18 19:10	06/11/18 21:07	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	23.8	2.3	1	06/07/18 19:10	06/11/18 21:07	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	23.8	2.6	1	06/07/18 19:10	06/11/18 21:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	23.8	2.3	1	06/07/18 19:10	06/11/18 21:07	11096-82-5	
PCB, Total	ND	ug/kg	214	28.8	1	06/07/18 19:10	06/11/18 21:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	41-99		1	06/07/18 19:10	06/11/18 21:07	877-09-8	
Decachlorobiphenyl (S)	97	%	55-110		1	06/07/18 19:10	06/11/18 21:07	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**12100**	mg/kg	13.2	3.3	1	06/08/18 09:48	06/11/18 19:50	7429-90-5	
Antimony	~~ND~~ UJ	mg/kg	0.79	0.64	1	06/08/18 09:48	06/11/18 17:09	7440-36-0	
Arsenic	**7.8** J	mg/kg	0.66	0.64	1	06/08/18 09:48	06/11/18 17:09	7440-38-2	
Barium	**91.4** J	mg/kg	2.6	0.12	1	06/08/18 09:48	06/11/18 17:09	7440-39-3	
Beryllium	**0.64**	mg/kg	0.26	0.040	1	06/08/18 09:48	06/11/18 17:09	7440-41-7	
Boron	**6.8**	mg/kg	6.6	0.23	1	06/08/18 09:48	06/11/18 17:09	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C **Lab ID: 30255203009** Collected: 06/06/18 10:44 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	**0.58**	mg/kg	0.40	0.080	1	06/08/18 09:48	06/11/18 17:09	7440-43-9	
Calcium	**9670**	mg/kg	264	6.4	1	06/08/18 09:48	06/11/18 17:09	7440-70-2	
Chromium	**27.9**	mg/kg	0.66	0.12	1	06/08/18 09:48	06/11/18 17:09	7440-47-3	
Cobalt	**11.2**	mg/kg	1.3	0.14	1	06/08/18 09:48	06/11/18 17:09	7440-48-4	
Copper	**54.0** J	mg/kg	1.3	0.77	1	06/08/18 09:48	06/11/18 17:09	7440-50-8	
Iron	**21800**	mg/kg	13.2	1.5	1	06/08/18 09:48	06/11/18 17:09	7439-89-6	
Lead	**69.7** J	mg/kg	0.66	0.65	1	06/08/18 09:48	06/11/18 17:09	7439-92-1	
Magnesium	**5770**	mg/kg	66.1	7.7	1	06/08/18 09:48	06/11/18 17:09	7439-95-4	
Manganese	**352**	mg/kg	1.3	0.13	1	06/08/18 09:48	06/11/18 17:09	7439-96-5	
Molybdenum	ND	mg/kg	2.6	0.19	1	06/08/18 09:48	06/11/18 17:09	7439-98-7	
Nickel	**22.2**	mg/kg	2.6	0.33	1	06/08/18 09:48	06/11/18 17:09	7440-02-0	
Potassium	**1760** J	mg/kg	66.1	60.9	1	06/08/18 09:48	06/11/18 17:09	7440-09-7	
Selenium	ND	mg/kg	1.1	0.77	1	06/08/18 09:48	06/11/18 17:09	7782-49-2	
Silver	**2.1**	mg/kg	0.79	0.13	1	06/08/18 09:48	06/11/18 17:09	7440-22-4	
Sodium	ND	mg/kg	661	48.1	1	06/08/18 09:48	06/11/18 17:09	7440-23-5	
Thallium	ND	mg/kg	2.6	0.81	1	06/08/18 09:48	06/11/18 17:09	7440-28-0	
Vanadium	**23.7**	mg/kg	1.3	0.11	1	06/08/18 09:48	06/11/18 17:09	7440-62-2	
Zinc	**117** J	mg/kg	1.3	0.22	1	06/08/18 09:48	06/11/18 17:09	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.64**	mg/kg	0.15	0.0071	1	06/08/18 09:06	06/08/18 17:52	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	475	17.4	1	06/07/18 22:43	06/10/18 00:20	83-32-9	
Acenaphthylene	ND	ug/kg	475	15.4	1	06/07/18 22:43	06/10/18 00:20	208-96-8	
Anthracene	**1420** J	ug/kg	475	14.8	1	06/07/18 22:43	06/10/18 00:20	120-12-7	
Azobenzene	ND	ug/kg	475	16.5	1	06/07/18 22:43	06/10/18 00:20	103-33-3	M2
Benzo(a)anthracene	**3530** J	ug/kg	475	15.5	1	06/07/18 22:43	06/10/18 00:20	56-55-3	
Benzo(a)pyrene	**2770** J	ug/kg	475	19.7	1	06/07/18 22:43	06/10/18 00:20	50-32-8	
Benzo(b)fluoranthene	**2000** J	ug/kg	475	70.7	1	06/07/18 22:43	06/10/18 00:20	205-99-2	
Benzo(g,h,i)perylene	**722**	ug/kg	475	68.9	1	06/07/18 22:43	06/10/18 00:20	191-24-2	
Benzo(k)fluoranthene	**2470** J	ug/kg	475	84.4	1	06/07/18 22:43	06/10/18 00:20	207-08-9	
Benzoic acid	ND	ug/kg	1190	653	1	06/07/18 22:43	06/10/18 00:20	65-85-0	
Benzyl alcohol	ND	ug/kg	475	112	1	06/07/18 22:43	06/10/18 00:20	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	475	48.5	1	06/07/18 22:43	06/10/18 00:20	101-55-3	
Butylbenzylphthalate	ND	ug/kg	475	49.6	1	06/07/18 22:43	06/10/18 00:20	85-68-7	
Carbazole	ND	ug/kg	475	48.9	1	06/07/18 22:43	06/10/18 00:20	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	475	39.5	1	06/07/18 22:43	06/10/18 00:20	59-50-7	
4-Chloroaniline	ND	ug/kg	475	75.0	1	06/07/18 22:43	06/10/18 00:20	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	475	21.8	1	06/07/18 22:43	06/10/18 00:20	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	475	48.3	1	06/07/18 22:43	06/10/18 00:20	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	475	14.8	1	06/07/18 22:43	06/10/18 00:20	108-60-1	
2-Chloronaphthalene	ND	ug/kg	475	17.4	1	06/07/18 22:43	06/10/18 00:20	91-58-7	
2-Chlorophenol	ND	ug/kg	475	16.8	1	06/07/18 22:43	06/10/18 00:20	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	475	69.9	1	06/07/18 22:43	06/10/18 00:20	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C **Lab ID: 30255203009** Collected: 06/06/18 10:44 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Chrysene	**3140** J	ug/kg	475	128	1	06/07/18 22:43	06/10/18 00:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	475	69.9	1	06/07/18 22:43	06/10/18 00:20	53-70-3	
Dibenzofuran	ND	ug/kg	475	80.7	1	06/07/18 22:43	06/10/18 00:20	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	475	103	1	06/07/18 22:43	06/10/18 00:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	475	67.9	1	06/07/18 22:43	06/10/18 00:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	475	15.1	1	06/07/18 22:43	06/10/18 00:20	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	475	135	1	06/07/18 22:43	06/10/18 00:20	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	475	16.0	1	06/07/18 22:43	06/10/18 00:20	120-83-2	
Diethylphthalate	ND	ug/kg	475	18.0	1	06/07/18 22:43	06/10/18 00:20	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	475	47.9	1	06/07/18 22:43	06/10/18 00:20	105-67-9	
Dimethylphthalate	ND	ug/kg	475	20.0	1	06/07/18 22:43	06/10/18 00:20	131-11-3	
Di-n-butylphthalate	ND	ug/kg	475	17.4	1	06/07/18 22:43	06/10/18 00:20	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1190	92.6	1	06/07/18 22:43	06/10/18 00:20	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1190	453	1	06/07/18 22:43	06/10/18 00:20	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	475	23.0	1	06/07/18 22:43	06/10/18 00:20	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	475	58.0	1	06/07/18 22:43	06/10/18 00:20	606-20-2	
Di-n-octylphthalate	ND	ug/kg	475	56.9	1	06/07/18 22:43	06/10/18 00:20	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	475	92.3	1	06/07/18 22:43	06/10/18 00:20	117-81-7	
Fluoranthene	**7260** J	ug/kg	475	117	1	06/07/18 22:43	06/10/18 00:20	206-44-0	
Fluorene	ND	ug/kg	475	21.7	1	06/07/18 22:43	06/10/18 00:20	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	475	46.8	1	06/07/18 22:43	06/10/18 00:20	87-68-3	
Hexachlorobenzene	ND	ug/kg	475	52.8	1	06/07/18 22:43	06/10/18 00:20	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	475	234	1	06/07/18 22:43	06/10/18 00:20	77-47-4	
Hexachloroethane	ND	ug/kg	475	26.1	1	06/07/18 22:43	06/10/18 00:20	67-72-1	
Indeno(1,2,3-cd)pyrene	**916**	ug/kg	475	74.4	1	06/07/18 22:43	06/10/18 00:20	193-39-5	
Isophorone	ND	ug/kg	475	40.1	1	06/07/18 22:43	06/10/18 00:20	78-59-1	
1-Methylnaphthalene	ND	ug/kg	475	25.4	1	06/07/18 22:43	06/10/18 00:20	90-12-0	
2-Methylnaphthalene	ND	ug/kg	475	19.5	1	06/07/18 22:43	06/10/18 00:20	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	475	53.9	1	06/07/18 22:43	06/10/18 00:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	950	15.7	1	06/07/18 22:43	06/10/18 00:20		
Naphthalene	ND	ug/kg	475	148	1	06/07/18 22:43	06/10/18 00:20	91-20-3	
2-Nitroaniline	ND	ug/kg	1190	19.0	1	06/07/18 22:43	06/10/18 00:20	88-74-4	
3-Nitroaniline	ND	ug/kg	1190	119	1	06/07/18 22:43	06/10/18 00:20	99-09-2	
4-Nitroaniline	ND	ug/kg	1190	121	1	06/07/18 22:43	06/10/18 00:20	100-01-6	
Nitrobenzene	ND	ug/kg	475	14.7	1	06/07/18 22:43	06/10/18 00:20	98-95-3	
2-Nitrophenol	ND	ug/kg	475	24.2	1	06/07/18 22:43	06/10/18 00:20	88-75-5	
4-Nitrophenol	ND	ug/kg	475	59.9	1	06/07/18 22:43	06/10/18 00:20	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	475	54.5	1	06/07/18 22:43	06/10/18 00:20	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	475	28.0	1	06/07/18 22:43	06/10/18 00:20	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	475	70.0	1	06/07/18 22:43	06/10/18 00:20	86-30-6	
Pentachlorophenol	ND	ug/kg	1190	148	1	06/07/18 22:43	06/10/18 00:20	87-86-5	
Phenanthrene	**6180** J	ug/kg	475	14.8	1	06/07/18 22:43	06/10/18 00:20	85-01-8	
Phenol	ND	ug/kg	475	60.5	1	06/07/18 22:43	06/10/18 00:20	108-95-2	
Pyrene	**7020** J	ug/kg	475	57.9	1	06/07/18 22:43	06/10/18 00:20	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	475	61.7	1	06/07/18 22:43	06/10/18 00:20	120-82-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C **Lab ID: 30255203009** Collected: 06/06/18 10:44 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2,4,5-Trichlorophenol	ND	ug/kg	1190	82.6	1	06/07/18 22:43	06/10/18 00:20	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	475	153	1	06/07/18 22:43	06/10/18 00:20	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	75	%	10-175		1	06/07/18 22:43	06/10/18 00:20	4165-60-0	
2-Fluorobiphenyl (S)	76	%	10-151		1	06/07/18 22:43	06/10/18 00:20	321-60-8	
Terphenyl-d14 (S)	81	%	10-172		1	06/07/18 22:43	06/10/18 00:20	1718-51-0	
Phenol-d6 (S)	81	%	10-142		1	06/07/18 22:43	06/10/18 00:20	13127-88-3	
2-Fluorophenol (S)	84	%	10-138		1	06/07/18 22:43	06/10/18 00:20	367-12-4	
2,4,6-Tribromophenol (S)	84	%	10-144		1	06/07/18 22:43	06/10/18 00:20	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**31.2**	%	0.10	0.10	1		06/10/18 12:38		

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C DUP **Lab ID: 30255203010** Collected: 06/06/18 10:50 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	2.3	0.41	1	06/07/18 19:10	06/09/18 00:19	309-00-2	
alpha-BHC	ND	ug/kg	2.3	0.45	1	06/07/18 19:10	06/09/18 00:19	319-84-6	
beta-BHC	ND	ug/kg	2.3	1.7	1	06/07/18 19:10	06/09/18 00:19	319-85-7	
delta-BHC	ND	ug/kg	2.3	2.2	1	06/07/18 19:10	06/09/18 00:19	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	2.3	0.60	1	06/07/18 19:10	06/09/18 00:19	58-89-9	
alpha-Chlordane	ND	ug/kg	2.3	0.25	1	06/07/18 19:10	06/09/18 00:19	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.3	0.60	1	06/07/18 19:10	06/09/18 00:19	5103-74-2	
4,4'-DDD	ND	ug/kg	4.6	1.5	1	06/07/18 19:10	06/09/18 00:19	72-54-8	
4,4'-DDE	ND	ug/kg	4.6	0.82	1	06/07/18 19:10	06/09/18 00:19	72-55-9	
4,4'-DDT	ND	ug/kg	4.6	1.2	1	06/07/18 19:10	06/09/18 00:19	50-29-3	~~CH~~
Dieldrin	ND	ug/kg	4.6	0.48	1	06/07/18 19:10	06/09/18 00:19	60-57-1	
Endosulfan I	ND	ug/kg	2.3	0.28	1	06/07/18 19:10	06/09/18 00:19	959-98-8	
Endosulfan II	ND	ug/kg	4.6	0.66	1	06/07/18 19:10	06/09/18 00:19	33213-65-9	
Endosulfan sulfate	ND	ug/kg	4.6	0.42	1	06/07/18 19:10	06/09/18 00:19	1031-07-8	
Endrin	ND	ug/kg	4.6	0.73	1	06/07/18 19:10	06/09/18 00:19	72-20-8	
Endrin aldehyde	ND	ug/kg	4.6	1.1	1	06/07/18 19:10	06/09/18 00:19	7421-93-4	~~CH~~
Endrin ketone	ND	ug/kg	4.6	0.42	1	06/07/18 19:10	06/09/18 00:19	53494-70-5	
Heptachlor	ND	ug/kg	2.3	0.28	1	06/07/18 19:10	06/09/18 00:19	76-44-8	
Heptachlor epoxide	ND	ug/kg	2.3	0.65	1	06/07/18 19:10	06/09/18 00:19	1024-57-3	
Methoxychlor	ND	ug/kg	23.1	2.2	1	06/07/18 19:10	06/09/18 00:19	72-43-5	
Toxaphene	ND	ug/kg	23.1	7.6	1	06/07/18 19:10	06/09/18 00:19	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	60	%	37-113		1	06/07/18 19:10	06/09/18 00:19	877-09-8	
Decachlorobiphenyl (S)	46	%	39-122		1	06/07/18 19:10	06/09/18 00:19	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	23.1	2.1	1	06/07/18 19:10	06/11/18 21:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	23.1	7.4	1	06/07/18 19:10	06/11/18 21:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	23.1	3.1	1	06/07/18 19:10	06/11/18 21:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	23.1	2.7	1	06/07/18 19:10	06/11/18 21:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	23.1	2.2	1	06/07/18 19:10	06/11/18 21:24	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	23.1	2.5	1	06/07/18 19:10	06/11/18 21:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	23.1	2.2	1	06/07/18 19:10	06/11/18 21:24	11096-82-5	
PCB, Total	ND	ug/kg	208	27.9	1	06/07/18 19:10	06/11/18 21:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	69	%	41-99		1	06/07/18 19:10	06/11/18 21:24	877-09-8	
Decachlorobiphenyl (S)	66	%	55-110		1	06/07/18 19:10	06/11/18 21:24	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8940**	mg/kg	13.1	3.3	1	06/08/18 09:48	06/11/18 19:52	7429-90-5	
Antimony	~~ND~~ UJ	mg/kg	0.79	0.63	1	06/08/18 09:48	06/11/18 17:11	7440-36-0	
Arsenic	**7.2** J	mg/kg	0.66	0.63	1	06/08/18 09:48	06/11/18 17:11	7440-38-2	
Barium	**69.1** J	mg/kg	2.6	0.12	1	06/08/18 09:48	06/11/18 17:11	7440-39-3	
Beryllium	**0.49**	mg/kg	0.26	0.040	1	06/08/18 09:48	06/11/18 17:11	7440-41-7	
Boron	ND	mg/kg	6.6	0.23	1	06/08/18 09:48	06/11/18 17:11	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C DUP **Lab ID: 30255203010** Collected: 06/06/18 10:50 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	**0.42**	mg/kg	0.39	0.080	1	06/08/18 09:48	06/11/18 17:11	7440-43-9	
Calcium	**9000**	mg/kg	262	6.4	1	06/08/18 09:48	06/11/18 17:11	7440-70-2	
Chromium	**19.2**	mg/kg	0.66	0.12	1	06/08/18 09:48	06/11/18 17:11	7440-47-3	
Cobalt	**9.6**	mg/kg	1.3	0.14	1	06/08/18 09:48	06/11/18 17:11	7440-48-4	
Copper	**29.1** J	mg/kg	1.3	0.77	1	06/08/18 09:48	06/11/18 17:11	7440-50-8	
Iron	**18600**	mg/kg	13.1	1.5	1	06/08/18 09:48	06/11/18 17:11	7439-89-6	
Lead	**42.0** J	mg/kg	0.66	0.64	1	06/08/18 09:48	06/11/18 17:11	7439-92-1	
Magnesium	**5430**	mg/kg	65.6	7.6	1	06/08/18 09:48	06/11/18 17:11	7439-95-4	
Manganese	**250**	mg/kg	1.3	0.13	1	06/08/18 09:48	06/11/18 17:11	7439-96-5	
Molybdenum	ND	mg/kg	2.6	0.19	1	06/08/18 09:48	06/11/18 17:11	7439-98-7	
Nickel	**18.4**	mg/kg	2.6	0.33	1	06/08/18 09:48	06/11/18 17:11	7440-02-0	
Potassium	**1290** J	mg/kg	65.6	60.4	1	06/08/18 09:48	06/11/18 17:11	7440-09-7	
Selenium	ND	mg/kg	1.0	0.77	1	06/08/18 09:48	06/11/18 17:11	7782-49-2	
Silver	**1.7**	mg/kg	0.79	0.13	1	06/08/18 09:48	06/11/18 17:11	7440-22-4	
Sodium	ND	mg/kg	656	47.8	1	06/08/18 09:48	06/11/18 17:11	7440-23-5	
Thallium	ND	mg/kg	2.6	0.80	1	06/08/18 09:48	06/11/18 17:11	7440-28-0	
Vanadium	**19.5**	mg/kg	1.3	0.11	1	06/08/18 09:48	06/11/18 17:11	7440-62-2	
Zinc	**80.9** J	mg/kg	1.3	0.22	1	06/08/18 09:48	06/11/18 17:11	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.24**	mg/kg	0.13	0.0064	1	06/08/18 09:06	06/08/18 17:54	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	468	17.2	1	06/07/18 22:43	06/09/18 19:54	83-32-9	
Acenaphthylene	ND	ug/kg	468	15.2	1	06/07/18 22:43	06/09/18 19:54	208-96-8	
Anthracene	~~ND~~ UJ	ug/kg	468	14.6	1	06/07/18 22:43	06/09/18 19:54	120-12-7	
Azobenzene	ND	ug/kg	468	16.3	1	06/07/18 22:43	06/09/18 19:54	103-33-3	~~N2~~
Benzo(a)anthracene	**1200** J	ug/kg	468	15.3	1	06/07/18 22:43	06/09/18 19:54	56-55-3	
Benzo(a)pyrene	**1110** J	ug/kg	468	19.4	1	06/07/18 22:43	06/09/18 19:54	50-32-8	
Benzo(b)fluoranthene	**831** J	ug/kg	468	69.7	1	06/07/18 22:43	06/09/18 19:54	205-99-2	
Benzo(g,h,i)perylene	**567**	ug/kg	468	67.9	1	06/07/18 22:43	06/09/18 19:54	191-24-2	
Benzo(k)fluoranthene	**849** J	ug/kg	468	83.2	1	06/07/18 22:43	06/09/18 19:54	207-08-9	
Benzoic acid	ND	ug/kg	1170	644	1	06/07/18 22:43	06/09/18 19:54	65-85-0	
Benzyl alcohol	ND	ug/kg	468	110	1	06/07/18 22:43	06/09/18 19:54	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	468	47.8	1	06/07/18 22:43	06/09/18 19:54	101-55-3	
Butylbenzylphthalate	ND	ug/kg	468	48.9	1	06/07/18 22:43	06/09/18 19:54	85-68-7	
Carbazole	ND	ug/kg	468	48.2	1	06/07/18 22:43	06/09/18 19:54	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	468	38.9	1	06/07/18 22:43	06/09/18 19:54	59-50-7	
4-Chloroaniline	ND	ug/kg	468	74.0	1	06/07/18 22:43	06/09/18 19:54	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	468	21.5	1	06/07/18 22:43	06/09/18 19:54	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	468	47.7	1	06/07/18 22:43	06/09/18 19:54	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	468	14.6	1	06/07/18 22:43	06/09/18 19:54	108-60-1	
2-Chloronaphthalene	ND	ug/kg	468	17.2	1	06/07/18 22:43	06/09/18 19:54	91-58-7	
2-Chlorophenol	ND	ug/kg	468	16.6	1	06/07/18 22:43	06/09/18 19:54	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	468	68.9	1	06/07/18 22:43	06/09/18 19:54	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C DUP **Lab ID: 30255203010** Collected: 06/06/18 10:50 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Chrysene	**1190** J	ug/kg	468	126	1	06/07/18 22:43	06/09/18 19:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	468	68.9	1	06/07/18 22:43	06/09/18 19:54	53-70-3	
Dibenzofuran	ND	ug/kg	468	79.6	1	06/07/18 22:43	06/09/18 19:54	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	468	101	1	06/07/18 22:43	06/09/18 19:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	468	66.9	1	06/07/18 22:43	06/09/18 19:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	468	14.9	1	06/07/18 22:43	06/09/18 19:54	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	468	133	1	06/07/18 22:43	06/09/18 19:54	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	468	15.7	1	06/07/18 22:43	06/09/18 19:54	120-83-2	
Diethylphthalate	ND	ug/kg	468	17.7	1	06/07/18 22:43	06/09/18 19:54	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	468	47.2	1	06/07/18 22:43	06/09/18 19:54	105-67-9	
Dimethylphthalate	ND	ug/kg	468	19.7	1	06/07/18 22:43	06/09/18 19:54	131-11-3	
Di-n-butylphthalate	ND	ug/kg	468	17.2	1	06/07/18 22:43	06/09/18 19:54	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1170	91.2	1	06/07/18 22:43	06/09/18 19:54	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1170	447	1	06/07/18 22:43	06/09/18 19:54	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	468	22.6	1	06/07/18 22:43	06/09/18 19:54	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	468	57.2	1	06/07/18 22:43	06/09/18 19:54	606-20-2	
Di-n-octylphthalate	ND	ug/kg	468	56.1	1	06/07/18 22:43	06/09/18 19:54	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	468	91.0	1	06/07/18 22:43	06/09/18 19:54	117-81-7	
Fluoranthene	**2370** J	ug/kg	468	116	1	06/07/18 22:43	06/09/18 19:54	206-44-0	
Fluorene	ND	ug/kg	468	21.4	1	06/07/18 22:43	06/09/18 19:54	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	468	46.1	1	06/07/18 22:43	06/09/18 19:54	87-68-3	
Hexachlorobenzene	ND	ug/kg	468	52.0	1	06/07/18 22:43	06/09/18 19:54	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	468	231	1	06/07/18 22:43	06/09/18 19:54	77-47-4	
Hexachloroethane	ND	ug/kg	468	25.7	1	06/07/18 22:43	06/09/18 19:54	67-72-1	
Indeno(1,2,3-cd)pyrene	**591**	ug/kg	468	73.4	1	06/07/18 22:43	06/09/18 19:54	193-39-5	
Isophorone	ND	ug/kg	468	39.5	1	06/07/18 22:43	06/09/18 19:54	78-59-1	
1-Methylnaphthalene	ND	ug/kg	468	25.0	1	06/07/18 22:43	06/09/18 19:54	90-12-0	
2-Methylnaphthalene	ND	ug/kg	468	19.3	1	06/07/18 22:43	06/09/18 19:54	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	468	53.1	1	06/07/18 22:43	06/09/18 19:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	936	15.5	1	06/07/18 22:43	06/09/18 19:54		
Naphthalene	ND	ug/kg	468	146	1	06/07/18 22:43	06/09/18 19:54	91-20-3	
2-Nitroaniline	ND	ug/kg	1170	18.7	1	06/07/18 22:43	06/09/18 19:54	88-74-4	
3-Nitroaniline	ND	ug/kg	1170	117	1	06/07/18 22:43	06/09/18 19:54	99-09-2	
4-Nitroaniline	ND	ug/kg	1170	119	1	06/07/18 22:43	06/09/18 19:54	100-01-6	
Nitrobenzene	ND	ug/kg	468	14.5	1	06/07/18 22:43	06/09/18 19:54	98-95-3	
2-Nitrophenol	ND	ug/kg	468	23.9	1	06/07/18 22:43	06/09/18 19:54	88-75-5	
4-Nitrophenol	ND	ug/kg	468	59.1	1	06/07/18 22:43	06/09/18 19:54	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	468	53.7	1	06/07/18 22:43	06/09/18 19:54	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	468	27.6	1	06/07/18 22:43	06/09/18 19:54	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	468	69.0	1	06/07/18 22:43	06/09/18 19:54	86-30-6	
Pentachlorophenol	ND	ug/kg	1170	146	1	06/07/18 22:43	06/09/18 19:54	87-86-5	
Phenanthrene	**2090** J	ug/kg	468	14.6	1	06/07/18 22:43	06/09/18 19:54	85-01-8	
Phenol	ND	ug/kg	468	59.6	1	06/07/18 22:43	06/09/18 19:54	108-95-2	
Pyrene	**2640** J	ug/kg	468	57.1	1	06/07/18 22:43	06/09/18 19:54	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	468	60.9	1	06/07/18 22:43	06/09/18 19:54	120-82-1	

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-46C DUP **Lab ID: 30255203010** Collected: 06/06/18 10:50 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2,4,5-Trichlorophenol	ND	ug/kg	1170	81.4	1	06/07/18 22:43	06/09/18 19:54	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	468	150	1	06/07/18 22:43	06/09/18 19:54	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%	10-175		1	06/07/18 22:43	06/09/18 19:54	4165-60-0	
2-Fluorobiphenyl (S)	78	%	10-151		1	06/07/18 22:43	06/09/18 19:54	321-60-8	
Terphenyl-d14 (S)	85	%	10-172		1	06/07/18 22:43	06/09/18 19:54	1718-51-0	
Phenol-d6 (S)	82	%	10-142		1	06/07/18 22:43	06/09/18 19:54	13127-88-3	
2-Fluorophenol (S)	88	%	10-138		1	06/07/18 22:43	06/09/18 19:54	367-12-4	
2,4,6-Tribromophenol (S)	88	%	10-144		1	06/07/18 22:43	06/09/18 19:54	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.4**	%	0.10	0.10	1		06/10/18 12:38		

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
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(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45B **Lab ID: 30255203011** Collected: 06/06/18 11:10 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	370	34.5	20	06/07/18 19:10	06/11/18 21:32	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	370	119	20	06/07/18 19:10	06/11/18 21:32	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	370	49.2	20	06/07/18 19:10	06/11/18 21:32	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	370	43.4	20	06/07/18 19:10	06/11/18 21:32	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	370	36.0	20	06/07/18 19:10	06/11/18 21:32	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	370	40.8	20	06/07/18 19:10	06/11/18 21:32	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	370	35.8	20	06/07/18 19:10	06/11/18 21:32	11096-82-5	ED
PCB, Total	ND	ug/kg	3330	448	20	06/07/18 19:10	06/11/18 21:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	41-99		20	06/07/18 19:10	06/11/18 21:32	877-09-8	
Decachlorobiphenyl (S)	91	%	55-110		20	06/07/18 19:10	06/11/18 21:32	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8430**	mg/kg	10.2	2.6	1	06/08/18 09:48	06/11/18 19:54	7429-90-5	
Antimony	~~ND~~ UJ	mg/kg	0.61	0.49	1	06/08/18 09:48	06/11/18 17:13	7440-36-0	
Arsenic	**5.2** J	mg/kg	0.51	0.49	1	06/08/18 09:48	06/11/18 17:13	7440-38-2	
Barium	**97.3** J	mg/kg	2.0	0.096	1	06/08/18 09:48	06/11/18 17:13	7440-39-3	
Beryllium	**0.39**	mg/kg	0.20	0.031	1	06/08/18 09:48	06/11/18 17:13	7440-41-7	
Boron	ND	mg/kg	5.1	0.18	1	06/08/18 09:48	06/11/18 17:13	7440-42-8	
Cadmium	**0.40**	mg/kg	0.31	0.062	1	06/08/18 09:48	06/11/18 17:13	7440-43-9	
Calcium	**20900**	mg/kg	204	4.9	1	06/08/18 09:48	06/11/18 17:13	7440-70-2	
Chromium	**18.4**	mg/kg	0.51	0.094	1	06/08/18 09:48	06/11/18 17:13	7440-47-3	
Cobalt	**6.7**	mg/kg	1.0	0.11	1	06/08/18 09:48	06/11/18 17:13	7440-48-4	
Copper	**41.8**	mg/kg	1.0	0.60	1	06/08/18 09:48	06/11/18 17:13	7440-50-8	
Iron	**16000**	mg/kg	10.2	1.2	1	06/08/18 09:48	06/11/18 17:13	7439-89-6	
Lead	**133** J	mg/kg	0.51	0.50	1	06/08/18 09:48	06/11/18 17:13	7439-92-1	
Magnesium	**4890**	mg/kg	51.0	6.0	1	06/08/18 09:48	06/11/18 17:13	7439-95-4	
Manganese	**277**	mg/kg	1.0	0.10	1	06/08/18 09:48	06/11/18 17:13	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.15	1	06/08/18 09:48	06/11/18 17:13	7439-98-7	
Nickel	**16.2**	mg/kg	2.0	0.25	1	06/08/18 09:48	06/11/18 17:13	7440-02-0	
Potassium	**1080** J	mg/kg	51.0	47.0	1	06/08/18 09:48	06/11/18 17:13	7440-09-7	
Selenium	ND	mg/kg	0.82	0.60	1	06/08/18 09:48	06/11/18 17:13	7782-49-2	
Silver	**3.6**	mg/kg	0.61	0.099	1	06/08/18 09:48	06/11/18 17:13	7440-22-4	
Sodium	ND	mg/kg	510	37.2	1	06/08/18 09:48	06/11/18 17:13	7440-23-5	
Thallium	ND	mg/kg	2.0	0.63	1	06/08/18 09:48	06/11/18 17:13	7440-28-0	
Vanadium	**26.8**	mg/kg	1.0	0.083	1	06/08/18 09:48	06/11/18 17:13	7440-62-2	
Zinc	**119** J	mg/kg	1.0	0.17	1	06/08/18 09:48	06/11/18 17:13	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.46**	mg/kg	0.10	0.0051	1	06/08/18 09:06	06/08/18 17:55	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3700	135	10	06/07/18 22:43	06/09/18 22:07	83-32-9	ED
Acenaphthylene	ND	ug/kg	3700	120	10	06/07/18 22:43	06/09/18 22:07	208-96-8	ED
Anthracene	ND	ug/kg	3700	115	10	06/07/18 22:43	06/09/18 22:07	120-12-7	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45B **Lab ID: 30255203011** Collected: 06/06/18 11:10 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	3700	129	10	06/07/18 22:43	06/09/18 22:07	103-33-3	ED,N2
Benzo(a)anthracene	ND	ug/kg	3700	121	10	06/07/18 22:43	06/09/18 22:07	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3700	153	10	06/07/18 22:43	06/09/18 22:07	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3700	551	10	06/07/18 22:43	06/09/18 22:07	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3700	536	10	06/07/18 22:43	06/09/18 22:07	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3700	657	10	06/07/18 22:43	06/09/18 22:07	207-08-9	ED
Benzoic acid	ND	ug/kg	9250	5090	10	06/07/18 22:43	06/09/18 22:07	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3700	868	10	06/07/18 22:43	06/09/18 22:07	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	3700	378	10	06/07/18 22:43	06/09/18 22:07	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3700	386	10	06/07/18 22:43	06/09/18 22:07	85-68-7	ED
Carbazole	ND	ug/kg	3700	381	10	06/07/18 22:43	06/09/18 22:07	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3700	308	10	06/07/18 22:43	06/09/18 22:07	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3700	584	10	06/07/18 22:43	06/09/18 22:07	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3700	170	10	06/07/18 22:43	06/09/18 22:07	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3700	376	10	06/07/18 22:43	06/09/18 22:07	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3700	115	10	06/07/18 22:43	06/09/18 22:07	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3700	135	10	06/07/18 22:43	06/09/18 22:07	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3700	131	10	06/07/18 22:43	06/09/18 22:07	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3700	544	10	06/07/18 22:43	06/09/18 22:07	7005-72-3	ED
Chrysene	ND	ug/kg	3700	998	10	06/07/18 22:43	06/09/18 22:07	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3700	544	10	06/07/18 22:43	06/09/18 22:07	53-70-3	ED
Dibenzofuran	ND	ug/kg	3700	628	10	06/07/18 22:43	06/09/18 22:07	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3700	801	10	06/07/18 22:43	06/09/18 22:07	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3700	529	10	06/07/18 22:43	06/09/18 22:07	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3700	118	10	06/07/18 22:43	06/09/18 22:07	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3700	1050	10	06/07/18 22:43	06/09/18 22:07	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3700	124	10	06/07/18 22:43	06/09/18 22:07	120-83-2	ED
Diethylphthalate	ND	ug/kg	3700	140	10	06/07/18 22:43	06/09/18 22:07	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3700	373	10	06/07/18 22:43	06/09/18 22:07	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3700	155	10	06/07/18 22:43	06/09/18 22:07	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3700	135	10	06/07/18 22:43	06/09/18 22:07	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9250	721	10	06/07/18 22:43	06/09/18 22:07	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9250	3530	10	06/07/18 22:43	06/09/18 22:07	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3700	179	10	06/07/18 22:43	06/09/18 22:07	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3700	452	10	06/07/18 22:43	06/09/18 22:07	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3700	443	10	06/07/18 22:43	06/09/18 22:07	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3700	718	10	06/07/18 22:43	06/09/18 22:07	117-81-7	ED
Fluoranthene	ND	ug/kg	3700	914	10	06/07/18 22:43	06/09/18 22:07	206-44-0	ED
Fluorene	ND	ug/kg	3700	169	10	06/07/18 22:43	06/09/18 22:07	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3700	364	10	06/07/18 22:43	06/09/18 22:07	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3700	411	10	06/07/18 22:43	06/09/18 22:07	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3700	1820	10	06/07/18 22:43	06/09/18 22:07	77-47-4	ED
Hexachloroethane	ND	ug/kg	3700	203	10	06/07/18 22:43	06/09/18 22:07	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3700	580	10	06/07/18 22:43	06/09/18 22:07	193-39-5	ED
Isophorone	ND	ug/kg	3700	312	10	06/07/18 22:43	06/09/18 22:07	78-59-1	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45B **Lab ID: 30255203011** Collected: 06/06/18 11:10 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	3700	198	10	06/07/18 22:43	06/09/18 22:07	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3700	152	10	06/07/18 22:43	06/09/18 22:07	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3700	420	10	06/07/18 22:43	06/09/18 22:07	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7400	122	10	06/07/18 22:43	06/09/18 22:07		ED
Naphthalene	ND	ug/kg	3700	1150	10	06/07/18 22:43	06/09/18 22:07	91-20-3	ED
2-Nitroaniline	ND	ug/kg	9250	148	10	06/07/18 22:43	06/09/18 22:07	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9250	926	10	06/07/18 22:43	06/09/18 22:07	99-09-2	ED
4-Nitroaniline	ND	ug/kg	9250	943	10	06/07/18 22:43	06/09/18 22:07	100-01-6	ED
Nitrobenzene	ND	ug/kg	3700	114	10	06/07/18 22:43	06/09/18 22:07	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3700	189	10	06/07/18 22:43	06/09/18 22:07	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3700	466	10	06/07/18 22:43	06/09/18 22:07	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3700	424	10	06/07/18 22:43	06/09/18 22:07	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3700	218	10	06/07/18 22:43	06/09/18 22:07	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3700	545	10	06/07/18 22:43	06/09/18 22:07	86-30-6	ED
Pentachlorophenol	ND	ug/kg	9250	1150	10	06/07/18 22:43	06/09/18 22:07	87-86-5	ED
Phenanthrene	ND	ug/kg	3700	115	10	06/07/18 22:43	06/09/18 22:07	85-01-8	ED
Phenol	ND	ug/kg	3700	471	10	06/07/18 22:43	06/09/18 22:07	108-95-2	ED
Pyrene	ND	ug/kg	3700	451	10	06/07/18 22:43	06/09/18 22:07	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3700	481	10	06/07/18 22:43	06/09/18 22:07	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9250	643	10	06/07/18 22:43	06/09/18 22:07	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3700	1190	10	06/07/18 22:43	06/09/18 22:07	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	76	%	10-175		10	06/07/18 22:43	06/09/18 22:07	4165-60-0	
2-Fluorobiphenyl (S)	84	%	10-151		10	06/07/18 22:43	06/09/18 22:07	321-60-8	
Terphenyl-d14 (S)	93	%	10-172		10	06/07/18 22:43	06/09/18 22:07	1718-51-0	
Phenol-d6 (S)	83	%	10-142		10	06/07/18 22:43	06/09/18 22:07	13127-88-3	
2-Fluorophenol (S)	89	%	10-138		10	06/07/18 22:43	06/09/18 22:07	367-12-4	
2,4,6-Tribromophenol (S)	70	%	10-144		10	06/07/18 22:43	06/09/18 22:07	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**64.2**	ug/kg	13.6	6.4	1	06/11/18 11:29	06/11/18 14:47	67-64-1	1c
Benzene	ND	ug/kg	6.8	2.0	1	06/11/18 11:29	06/11/18 14:47	71-43-2	1c
Bromochloromethane	ND	ug/kg	6.8	1.8	1	06/11/18 11:29	06/11/18 14:47	74-97-5	1c
Bromodichloromethane	ND	ug/kg	6.8	1.1	1	06/11/18 11:29	06/11/18 14:47	75-27-4	1c
Bromoform	ND	ug/kg	6.8	1.1	1	06/11/18 11:29	06/11/18 14:47	75-25-2	1c
Bromomethane	ND	ug/kg	6.8	4.3	1	06/11/18 11:29	06/11/18 14:47	74-83-9	1c
TOTAL BTEX	ND	ug/kg	40.7	12.0	1	06/11/18 11:29	06/11/18 14:47		
2-Butanone (MEK)	ND	ug/kg	13.6	3.8	1	06/11/18 11:29	06/11/18 14:47	78-93-3	1c
Carbon disulfide	ND	ug/kg	6.8	2.8	1	06/11/18 11:29	06/11/18 14:47	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.8	2.8	1	06/11/18 11:29	06/11/18 14:47	56-23-5	1c
Chlorobenzene	ND	ug/kg	6.8	2.1	1	06/11/18 11:29	06/11/18 14:47	108-90-7	1c
Chloroethane	ND	ug/kg	6.8	2.8	1	06/11/18 11:29	06/11/18 14:47	75-00-3	1c
Chloroform	ND	ug/kg	6.8	1.8	1	06/11/18 11:29	06/11/18 14:47	67-66-3	1c
Chloromethane	ND	ug/kg	6.8	2.7	1	06/11/18 11:29	06/11/18 14:47	74-87-3	1c
Dibromochloromethane	ND	ug/kg	6.8	0.98	1	06/11/18 11:29	06/11/18 14:47	124-48-1	1c

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45B **Lab ID: 30255203011** Collected: 06/06/18 11:10 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichlorobenzene	ND	ug/kg	6.8	1.7	1	06/11/18 11:29	06/11/18 14:47	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.8	1.8	1	06/11/18 11:29	06/11/18 14:47	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.8	1.7	1	06/11/18 11:29	06/11/18 14:47	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	6.8	2.5	1	06/11/18 11:29	06/11/18 14:47	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.8	1.1	1	06/11/18 11:29	06/11/18 14:47	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	13.6	5.4	1	06/11/18 11:29	06/11/18 14:47	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.8	4.6	1	06/11/18 11:29	06/11/18 14:47	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.8	2.4	1	06/11/18 11:29	06/11/18 14:47	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.8	3.1	1	06/11/18 11:29	06/11/18 14:47	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.8	1.3	1	06/11/18 11:29	06/11/18 14:47	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.8	0.98	1	06/11/18 11:29	06/11/18 14:47	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.8	1.2	1	06/11/18 11:29	06/11/18 14:47	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.8	2.1	1	06/11/18 11:29	06/11/18 14:47	100-41-4	1c
2-Hexanone	ND	ug/kg	13.6	1.1	1	06/11/18 11:29	06/11/18 14:47	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	6.8	2.0	1	06/11/18 11:29	06/11/18 14:47	98-82-8	1c
Methylene Chloride	ND	ug/kg	6.8	4.4	1	06/11/18 11:29	06/11/18 14:47	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.6	1.4	1	06/11/18 11:29	06/11/18 14:47	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.8	1.1	1	06/11/18 11:29	06/11/18 14:47	1634-04-4	1c
Naphthalene	ND	ug/kg	6.8	3.0	1	06/11/18 11:29	06/11/18 14:47	91-20-3	1c
Styrene	ND	ug/kg	6.8	1.6	1	06/11/18 11:29	06/11/18 14:47	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.8	1.7	1	06/11/18 11:29	06/11/18 14:47	79-34-5	1c
Tetrachloroethene	ND	ug/kg	6.8	2.5	1	06/11/18 11:29	06/11/18 14:47	127-18-4	1c
Toluene	ND	ug/kg	6.8	2.0	1	06/11/18 11:29	06/11/18 14:47	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.8	2.7	1	06/11/18 11:29	06/11/18 14:47	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	6.8	2.5	1	06/11/18 11:29	06/11/18 14:47	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	6.8	1.2	1	06/11/18 11:29	06/11/18 14:47	79-00-5	1c
Trichloroethene	ND	ug/kg	6.8	2.7	1	06/11/18 11:29	06/11/18 14:47	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.8	1.8	1	06/11/18 11:29	06/11/18 14:47	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.8	1.8	1	06/11/18 11:29	06/11/18 14:47	108-67-8	1c
Vinyl chloride	ND	ug/kg	6.8	3.5	1	06/11/18 11:29	06/11/18 14:47	75-01-4	1c
Xylene (Total)	ND	ug/kg	20.3	6.0	1	06/11/18 11:29	06/11/18 14:47	1330-20-7	
m&p-Xylene	ND	ug/kg	13.6	4.1	1	06/11/18 11:29	06/11/18 14:47	179601-23-1	1c
o-Xylene	ND	ug/kg	6.8	1.9	1	06/11/18 11:29	06/11/18 14:47	95-47-6	1c
Surrogates									
Toluene-d8 (S)	98	%	76-124		1	06/11/18 11:29	06/11/18 14:47	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-133		1	06/11/18 11:29	06/11/18 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	74-131		1	06/11/18 11:29	06/11/18 14:47	17060-07-0	
Dibromofluoromethane (S)	96	%	71-130		1	06/11/18 11:29	06/11/18 14:47	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.9**	%	0.10	0.10	1		06/10/18 12:38		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**3640**	mg/kg	112	16.7	1	06/11/18 08:50	06/11/18 14:28		

REPORT OF LABORATORY ANALYSIS

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www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45C **Lab ID: 30255203012** Collected: 06/06/18 11:28 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	23.7	2.2	1	06/07/18 19:10	06/11/18 21:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	23.7	7.6	1	06/07/18 19:10	06/11/18 21:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	23.7	3.1	1	06/07/18 19:10	06/11/18 21:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	23.7	2.8	1	06/07/18 19:10	06/11/18 21:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	23.7	2.3	1	06/07/18 19:10	06/11/18 21:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	23.7	2.6	1	06/07/18 19:10	06/11/18 21:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	23.7	2.3	1	06/07/18 19:10	06/11/18 21:49	11096-82-5	
PCB, Total	ND	ug/kg	213	28.7	1	06/07/18 19:10	06/11/18 21:49	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	41-99		1	06/07/18 19:10	06/11/18 21:49	877-09-8	
Decachlorobiphenyl (S)	85	%	55-110		1	06/07/18 19:10	06/11/18 21:49	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8400**	mg/kg	13.2	3.3	1	06/08/18 09:48	06/11/18 19:56	7429-90-5	
Antimony	~~ND~~ UJ	mg/kg	0.79	0.64	1	06/08/18 09:48	06/11/18 17:16	7440-36-0	
Arsenic	**5.9** J	mg/kg	0.66	0.63	1	06/08/18 09:48	06/11/18 17:16	7440-38-2	
Barium	**91.6** J	mg/kg	2.6	0.12	1	06/08/18 09:48	06/11/18 17:16	7440-39-3	
Beryllium	**0.46**	mg/kg	0.26	0.040	1	06/08/18 09:48	06/11/18 17:16	7440-41-7	
Boron	ND	mg/kg	6.6	0.23	1	06/08/18 09:48	06/11/18 17:16	7440-42-8	
Cadmium	**1.4**	mg/kg	0.39	0.080	1	06/08/18 09:48	06/11/18 17:16	7440-43-9	
Calcium	**14500**	mg/kg	263	6.4	1	06/08/18 09:48	06/11/18 17:16	7440-70-2	
Chromium	**24.3**	mg/kg	0.66	0.12	1	06/08/18 09:48	06/11/18 17:16	7440-47-3	
Cobalt	**8.4**	mg/kg	1.3	0.14	1	06/08/18 09:48	06/11/18 17:16	7440-48-4	
Copper	**41.6**	mg/kg	1.3	0.77	1	06/08/18 09:48	06/11/18 17:16	7440-50-8	
Iron	**18900**	mg/kg	13.2	1.5	1	06/08/18 09:48	06/11/18 17:16	7439-89-6	
Lead	**92.2** J	mg/kg	0.66	0.64	1	06/08/18 09:48	06/11/18 17:16	7439-92-1	
Magnesium	**5250**	mg/kg	65.8	7.7	1	06/08/18 09:48	06/11/18 17:16	7439-95-4	
Manganese	**366**	mg/kg	1.3	0.13	1	06/08/18 09:48	06/11/18 17:16	7439-96-5	
Molybdenum	ND	mg/kg	2.6	0.19	1	06/08/18 09:48	06/11/18 17:16	7439-98-7	
Nickel	**16.8**	mg/kg	2.6	0.33	1	06/08/18 09:48	06/11/18 17:16	7440-02-0	
Potassium	**1250** J	mg/kg	65.8	60.6	1	06/08/18 09:48	06/11/18 17:16	7440-09-7	
Selenium	ND	mg/kg	1.1	0.77	1	06/08/18 09:48	06/11/18 17:16	7782-49-2	
Silver	**1.7**	mg/kg	0.79	0.13	1	06/08/18 09:48	06/11/18 17:16	7440-22-4	
Sodium	ND	mg/kg	658	47.9	1	06/08/18 09:48	06/11/18 17:16	7440-23-5	
Thallium	ND	mg/kg	2.6	0.81	1	06/08/18 09:48	06/11/18 17:16	7440-28-0	
Vanadium	**18.4**	mg/kg	1.3	0.11	1	06/08/18 09:48	06/11/18 17:16	7440-62-2	
Zinc	**229** J	mg/kg	1.3	0.22	1	06/08/18 09:48	06/11/18 17:16	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.61**	mg/kg	0.14	0.0068	1	06/08/18 09:06	06/08/18 17:58	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	478	17.5	1	06/07/18 22:43	06/09/18 20:16	83-32-9	
Acenaphthylene	ND	ug/kg	478	15.5	1	06/07/18 22:43	06/09/18 20:16	208-96-8	
Anthracene	ND	ug/kg	478	14.9	1	06/07/18 22:43	06/09/18 20:16	120-12-7	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45C **Lab ID: 30255203012** Collected: 06/06/18 11:28 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	478	16.7	1	06/07/18 22:43	06/09/18 20:16	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	478	15.7	1	06/07/18 22:43	06/09/18 20:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	478	19.8	1	06/07/18 22:43	06/09/18 20:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	478	71.3	1	06/07/18 22:43	06/09/18 20:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	478	69.4	1	06/07/18 22:43	06/09/18 20:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	478	85.1	1	06/07/18 22:43	06/09/18 20:16	207-08-9	
Benzoic acid	ND	ug/kg	1200	658	1	06/07/18 22:43	06/09/18 20:16	65-85-0	
Benzyl alcohol	ND	ug/kg	478	112	1	06/07/18 22:43	06/09/18 20:16	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	478	48.9	1	06/07/18 22:43	06/09/18 20:16	101-55-3	
Butylbenzylphthalate	ND	ug/kg	478	50.0	1	06/07/18 22:43	06/09/18 20:16	85-68-7	
Carbazole	ND	ug/kg	478	49.3	1	06/07/18 22:43	06/09/18 20:16	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	478	39.8	1	06/07/18 22:43	06/09/18 20:16	59-50-7	
4-Chloroaniline	ND	ug/kg	478	75.6	1	06/07/18 22:43	06/09/18 20:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	478	22.0	1	06/07/18 22:43	06/09/18 20:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	478	48.7	1	06/07/18 22:43	06/09/18 20:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	478	14.9	1	06/07/18 22:43	06/09/18 20:16	108-60-1	
2-Chloronaphthalene	ND	ug/kg	478	17.5	1	06/07/18 22:43	06/09/18 20:16	91-58-7	
2-Chlorophenol	ND	ug/kg	478	17.0	1	06/07/18 22:43	06/09/18 20:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	478	70.4	1	06/07/18 22:43	06/09/18 20:16	7005-72-3	
Chrysene	ND	ug/kg	478	129	1	06/07/18 22:43	06/09/18 20:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	478	70.4	1	06/07/18 22:43	06/09/18 20:16	53-70-3	
Dibenzofuran	ND	ug/kg	478	81.3	1	06/07/18 22:43	06/09/18 20:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	478	104	1	06/07/18 22:43	06/09/18 20:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	478	68.4	1	06/07/18 22:43	06/09/18 20:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	478	15.2	1	06/07/18 22:43	06/09/18 20:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	478	136	1	06/07/18 22:43	06/09/18 20:16	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	478	16.1	1	06/07/18 22:43	06/09/18 20:16	120-83-2	
Diethylphthalate	ND	ug/kg	478	18.1	1	06/07/18 22:43	06/09/18 20:16	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	478	48.3	1	06/07/18 22:43	06/09/18 20:16	105-67-9	
Dimethylphthalate	ND	ug/kg	478	20.1	1	06/07/18 22:43	06/09/18 20:16	131-11-3	
Di-n-butylphthalate	ND	ug/kg	478	17.5	1	06/07/18 22:43	06/09/18 20:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1200	93.3	1	06/07/18 22:43	06/09/18 20:16	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1200	457	1	06/07/18 22:43	06/09/18 20:16	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	478	23.1	1	06/07/18 22:43	06/09/18 20:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	478	58.5	1	06/07/18 22:43	06/09/18 20:16	606-20-2	
Di-n-octylphthalate	ND	ug/kg	478	57.3	1	06/07/18 22:43	06/09/18 20:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	478	93.0	1	06/07/18 22:43	06/09/18 20:16	117-81-7	
Fluoranthene	**585**	ug/kg	478	118	1	06/07/18 22:43	06/09/18 20:16	206-44-0	
Fluorene	ND	ug/kg	478	21.8	1	06/07/18 22:43	06/09/18 20:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	478	47.1	1	06/07/18 22:43	06/09/18 20:16	87-68-3	
Hexachlorobenzene	ND	ug/kg	478	53.2	1	06/07/18 22:43	06/09/18 20:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	478	236	1	06/07/18 22:43	06/09/18 20:16	77-47-4	
Hexachloroethane	ND	ug/kg	478	26.3	1	06/07/18 22:43	06/09/18 20:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	478	75.0	1	06/07/18 22:43	06/09/18 20:16	193-39-5	
Isophorone	ND	ug/kg	478	40.4	1	06/07/18 22:43	06/09/18 20:16	78-59-1	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45C **Lab ID: 30255203012** Collected: 06/06/18 11:28 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	478	25.6	1	06/07/18 22:43	06/09/18 20:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	478	19.7	1	06/07/18 22:43	06/09/18 20:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	478	54.3	1	06/07/18 22:43	06/09/18 20:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	957	15.8	1	06/07/18 22:43	06/09/18 20:16		
Naphthalene	ND	ug/kg	478	149	1	06/07/18 22:43	06/09/18 20:16	91-20-3	
2-Nitroaniline	ND	ug/kg	1200	19.1	1	06/07/18 22:43	06/09/18 20:16	88-74-4	
3-Nitroaniline	ND	ug/kg	1200	120	1	06/07/18 22:43	06/09/18 20:16	99-09-2	
4-Nitroaniline	ND	ug/kg	1200	122	1	06/07/18 22:43	06/09/18 20:16	100-01-6	
Nitrobenzene	ND	ug/kg	478	14.8	1	06/07/18 22:43	06/09/18 20:16	98-95-3	
2-Nitrophenol	ND	ug/kg	478	24.4	1	06/07/18 22:43	06/09/18 20:16	88-75-5	
4-Nitrophenol	ND	ug/kg	478	60.4	1	06/07/18 22:43	06/09/18 20:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	478	54.9	1	06/07/18 22:43	06/09/18 20:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	478	28.2	1	06/07/18 22:43	06/09/18 20:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	478	70.6	1	06/07/18 22:43	06/09/18 20:16	86-30-6	
Pentachlorophenol	ND	ug/kg	1200	149	1	06/07/18 22:43	06/09/18 20:16	87-86-5	
Phenanthrene	ND	ug/kg	478	14.9	1	06/07/18 22:43	06/09/18 20:16	85-01-8	
Phenol	ND	ug/kg	478	60.9	1	06/07/18 22:43	06/09/18 20:16	108-95-2	
Pyrene	**554**	ug/kg	478	58.3	1	06/07/18 22:43	06/09/18 20:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	478	62.2	1	06/07/18 22:43	06/09/18 20:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1200	83.2	1	06/07/18 22:43	06/09/18 20:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	478	154	1	06/07/18 22:43	06/09/18 20:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	67	%	10-175		1	06/07/18 22:43	06/09/18 20:16	4165-60-0	
2-Fluorobiphenyl (S)	73	%	10-151		1	06/07/18 22:43	06/09/18 20:16	321-60-8	
Terphenyl-d14 (S)	82	%	10-172		1	06/07/18 22:43	06/09/18 20:16	1718-51-0	
Phenol-d6 (S)	81	%	10-142		1	06/07/18 22:43	06/09/18 20:16	13127-88-3	
2-Fluorophenol (S)	83	%	10-138		1	06/07/18 22:43	06/09/18 20:16	367-12-4	
2,4,6-Tribromophenol (S)	84	%	10-144		1	06/07/18 22:43	06/09/18 20:16	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**50.9**	ug/kg	17.4	8.2	1	06/11/18 11:29	06/11/18 15:14	67-64-1	1c
Benzene	ND	ug/kg	8.7	2.5	1	06/11/18 11:29	06/11/18 15:14	71-43-2	1c
Bromochloromethane	ND	ug/kg	8.7	2.3	1	06/11/18 11:29	06/11/18 15:14	74-97-5	1c
Bromodichloromethane	ND	ug/kg	8.7	1.4	1	06/11/18 11:29	06/11/18 15:14	75-27-4	1c
Bromoform	ND	ug/kg	8.7	1.4	1	06/11/18 11:29	06/11/18 15:14	75-25-2	1c
Bromomethane	ND	ug/kg	8.7	5.4	1	06/11/18 11:29	06/11/18 15:14	74-83-9	1c
TOTAL BTEX	ND	ug/kg	52.1	15.3	1	06/11/18 11:29	06/11/18 15:14		
2-Butanone (MEK)	ND	ug/kg	17.4	4.9	1	06/11/18 11:29	06/11/18 15:14	78-93-3	1c
Carbon disulfide	ND	ug/kg	8.7	3.6	1	06/11/18 11:29	06/11/18 15:14	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	8.7	3.5	1	06/11/18 11:29	06/11/18 15:14	56-23-5	1c
Chlorobenzene	ND	ug/kg	8.7	2.7	1	06/11/18 11:29	06/11/18 15:14	108-90-7	1c
Chloroethane	ND	ug/kg	8.7	3.5	1	06/11/18 11:29	06/11/18 15:14	75-00-3	1c
Chloroform	ND	ug/kg	8.7	2.3	1	06/11/18 11:29	06/11/18 15:14	67-66-3	1c
Chloromethane	ND	ug/kg	8.7	3.5	1	06/11/18 11:29	06/11/18 15:14	74-87-3	1c
Dibromochloromethane	ND	ug/kg	8.7	1.2	1	06/11/18 11:29	06/11/18 15:14	124-48-1	1c

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www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-45C **Lab ID: 30255203012** Collected: 06/06/18 11:28 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichlorobenzene	ND	ug/kg	8.7	2.2	1	06/11/18 11:29	06/11/18 15:14	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	8.7	2.3	1	06/11/18 11:29	06/11/18 15:14	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	8.7	2.1	1	06/11/18 11:29	06/11/18 15:14	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	8.7	3.2	1	06/11/18 11:29	06/11/18 15:14	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	8.7	1.4	1	06/11/18 11:29	06/11/18 15:14	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	17.4	7.0	1	06/11/18 11:29	06/11/18 15:14	540-59-0	
1,1-Dichloroethene	ND	ug/kg	8.7	5.8	1	06/11/18 11:29	06/11/18 15:14	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	8.7	3.0	1	06/11/18 11:29	06/11/18 15:14	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	8.7	3.9	1	06/11/18 11:29	06/11/18 15:14	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	8.7	1.7	1	06/11/18 11:29	06/11/18 15:14	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	8.7	1.2	1	06/11/18 11:29	06/11/18 15:14	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	8.7	1.6	1	06/11/18 11:29	06/11/18 15:14	10061-02-6	1c
Ethylbenzene	ND	ug/kg	8.7	2.7	1	06/11/18 11:29	06/11/18 15:14	100-41-4	1c
2-Hexanone	ND	ug/kg	17.4	1.4	1	06/11/18 11:29	06/11/18 15:14	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	8.7	2.5	1	06/11/18 11:29	06/11/18 15:14	98-82-8	1c
Methylene Chloride	ND	ug/kg	8.7	5.6	1	06/11/18 11:29	06/11/18 15:14	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.4	1.8	1	06/11/18 11:29	06/11/18 15:14	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	8.7	1.4	1	06/11/18 11:29	06/11/18 15:14	1634-04-4	1c
Naphthalene	ND	ug/kg	8.7	3.9	1	06/11/18 11:29	06/11/18 15:14	91-20-3	1c
Styrene	ND	ug/kg	8.7	2.0	1	06/11/18 11:29	06/11/18 15:14	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.7	2.2	1	06/11/18 11:29	06/11/18 15:14	79-34-5	1c
Tetrachloroethene	ND	ug/kg	8.7	3.2	1	06/11/18 11:29	06/11/18 15:14	127-18-4	1c
Toluene	ND	ug/kg	8.7	2.5	1	06/11/18 11:29	06/11/18 15:14	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	8.7	3.4	1	06/11/18 11:29	06/11/18 15:14	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	8.7	3.2	1	06/11/18 11:29	06/11/18 15:14	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	8.7	1.5	1	06/11/18 11:29	06/11/18 15:14	79-00-5	1c
Trichloroethene	ND	ug/kg	8.7	3.5	1	06/11/18 11:29	06/11/18 15:14	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	8.7	2.3	1	06/11/18 11:29	06/11/18 15:14	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	8.7	2.3	1	06/11/18 11:29	06/11/18 15:14	108-67-8	1c
Vinyl chloride	ND	ug/kg	8.7	4.5	1	06/11/18 11:29	06/11/18 15:14	75-01-4	1c
Xylene (Total)	ND	ug/kg	26.0	7.6	1	06/11/18 11:29	06/11/18 15:14	1330-20-7	
m&p-Xylene	ND	ug/kg	17.4	5.2	1	06/11/18 11:29	06/11/18 15:14	179601-23-1	1c
o-Xylene	ND	ug/kg	8.7	2.4	1	06/11/18 11:29	06/11/18 15:14	95-47-6	1c
Surrogates									
Toluene-d8 (S)	97	%	76-124		1	06/11/18 11:29	06/11/18 15:14	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-133		1	06/11/18 11:29	06/11/18 15:14	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	74-131		1	06/11/18 11:29	06/11/18 15:14	17060-07-0	
Dibromofluoromethane (S)	99	%	71-130		1	06/11/18 11:29	06/11/18 15:14	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**30.9**	%	0.10	0.10	1		06/10/18 12:39		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**851**	mg/kg	289	43.1	1	06/11/18 08:50	06/11/18 14:28		6c

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44B **Lab ID: 30255203013** Collected: 06/06/18 13:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	18.1	3.2	10	06/07/18 19:10	06/09/18 00:27	309-00-2	M6
alpha-BHC	ND	ug/kg	18.1	3.5	10	06/07/18 19:10	06/09/18 00:27	319-84-6	M6
beta-BHC	ND	ug/kg	18.1	13.2	10	06/07/18 19:10	06/09/18 00:27	319-85-7	M6
delta-BHC	ND	ug/kg	18.1	17.5	10	06/07/18 19:10	06/09/18 00:27	319-86-8	CH,M6
gamma-BHC (Lindane)	ND	ug/kg	18.1	4.7	10	06/07/18 19:10	06/09/18 00:27	58-89-9	M6
alpha-Chlordane	**20.2**	ug/kg	18.1	2.0	10	06/07/18 19:10	06/09/18 00:27	5103-71-9	M6
gamma-Chlordane	**23.3**	ug/kg	18.1	4.7	10	06/07/18 19:10	06/09/18 00:27	5103-74-2	M6
4,4'-DDD	ND	ug/kg	36.2	11.9	10	06/07/18 19:10	06/09/18 00:27	72-54-8	M6
4,4'-DDE	ND	ug/kg	36.2	6.4	10	06/07/18 19:10	06/09/18 00:27	72-55-9	M6
4,4'-DDT	ND	ug/kg	36.2	9.5	10	06/07/18 19:10	06/09/18 00:27	50-29-3	M6
Dieldrin	ND	ug/kg	36.2	3.8	10	06/07/18 19:10	06/09/18 00:27	60-57-1	M6
Endosulfan I	ND	ug/kg	18.1	2.2	10	06/07/18 19:10	06/09/18 00:27	959-98-8	M6
Endosulfan II	ND	ug/kg	36.2	5.2	10	06/07/18 19:10	06/09/18 00:27	33213-65-9	M6
Endosulfan sulfate	ND	ug/kg	36.2	3.3	10	06/07/18 19:10	06/09/18 00:27	1031-07-8	M6
Endrin	ND	ug/kg	36.2	5.7	10	06/07/18 19:10	06/09/18 00:27	72-20-8	M6
Endrin aldehyde	ND	ug/kg	36.2	8.6	10	06/07/18 19:10	06/09/18 00:27	7421-93-4	CH
Endrin ketone	ND	ug/kg	36.2	3.3	10	06/07/18 19:10	06/09/18 00:27	53494-70-5	5c,M6
Heptachlor	ND	ug/kg	18.1	2.2	10	06/07/18 19:10	06/09/18 00:27	76-44-8	M6
Heptachlor epoxide	ND	ug/kg	18.1	5.1	10	06/07/18 19:10	06/09/18 00:27	1024-57-3	M6
Methoxychlor	ND	ug/kg	181	17.5	10	06/07/18 19:10	06/09/18 00:27	72-43-5	CH,M6
Toxaphene	ND	ug/kg	181	59.5	10	06/07/18 19:10	06/09/18 00:27	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	37-113		10	06/07/18 19:10	06/09/18 00:27	877-09-8	
Decachlorobiphenyl (S)	80	%	39-122		10	06/07/18 19:10	06/09/18 00:27	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	90.5	8.4	5	06/07/18 19:10	06/11/18 21:58	12674-11-2	ED,MH
PCB-1221 (Aroclor 1221)	ND	ug/kg	90.5	29.0	5	06/07/18 19:10	06/11/18 21:58	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	90.5	12.0	5	06/07/18 19:10	06/11/18 21:58	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	90.5	10.6	5	06/07/18 19:10	06/11/18 21:58	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	90.5	8.8	5	06/07/18 19:10	06/11/18 21:58	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	90.5	10	5	06/07/18 19:10	06/11/18 21:58	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	90.5	8.8	5	06/07/18 19:10	06/11/18 21:58	11096-82-5	ED,MH
PCB, Total	ND	ug/kg	814	110	5	06/07/18 19:10	06/11/18 21:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	41-99		5	06/07/18 19:10	06/11/18 21:58	877-09-8	
Decachlorobiphenyl (S)	93	%	55-110		5	06/07/18 19:10	06/11/18 21:58	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**7250**	mg/kg	9.7	2.4	1	06/08/18 09:48	06/11/18 19:58	7429-90-5	D6,MH
Antimony	ND UJ	mg/kg	0.58	0.47	1	06/08/18 09:48	06/11/18 17:18	7440-36-0	ML
Arsenic	**3.8** J	mg/kg	0.48	0.47	1	06/08/18 09:48	06/11/18 17:18	7440-38-2	
Barium	**73.7** J	mg/kg	1.9	0.091	1	06/08/18 09:48	06/11/18 17:18	7440-39-3	MH
Beryllium	**0.34**	mg/kg	0.19	0.029	1	06/08/18 09:48	06/11/18 17:18	7440-41-7	
Boron	ND	mg/kg	4.8	0.17	1	06/08/18 09:48	06/11/18 17:18	7440-42-8	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44B **Lab ID: 30255203013** Collected: 06/06/18 13:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	**0.30**	mg/kg	0.29	0.059	1	06/08/18 09:48	06/11/18 17:18	7440-43-9	~~D6~~
Calcium	**27500**	mg/kg	194	4.7	1	06/08/18 09:48	06/11/18 17:18	7440-70-2	~~MH,ML~~
Chromium	**16.3**	mg/kg	0.48	0.089	1	06/08/18 09:48	06/11/18 17:18	7440-47-3	
Cobalt	**5.9**	mg/kg	0.97	0.10	1	06/08/18 09:48	06/11/18 17:18	7440-48-4	D6
Copper	**21.3**	mg/kg	0.97	0.56	1	06/08/18 09:48	06/11/18 17:18	7440-50-8	D6
Iron	**11900**	mg/kg	9.7	1.1	1	06/08/18 09:48	06/11/18 17:18	7439-89-6	~~D6,MH,ML,R1~~
Lead	**69.5** J	mg/kg	0.48	0.47	1	06/08/18 09:48	06/11/18 17:18	7439-92-1	~~MH,ML,R1~~
Magnesium	**5480**	mg/kg	48.4	5.6	1	06/08/18 09:48	06/11/18 17:18	7439-95-4	~~ML,R1~~
Manganese	**245**	mg/kg	0.97	0.097	1	06/08/18 09:48	06/11/18 17:18	7439-96-5	~~D6,MH~~
Molybdenum	ND	mg/kg	1.9	0.14	1	06/08/18 09:48	06/11/18 17:18	7439-98-7	
Nickel	**15.0**	mg/kg	1.9	0.24	1	06/08/18 09:48	06/11/18 17:18	7440-02-0	
Potassium	**1180** J	mg/kg	48.4	44.6	1	06/08/18 09:48	06/11/18 17:18	7440-09-7	~~MH~~
Selenium	ND	mg/kg	0.77	0.57	1	06/08/18 09:48	06/11/18 17:18	7782-49-2	
Silver	**3.5**	mg/kg	0.58	0.094	1	06/08/18 09:48	06/11/18 17:18	7440-22-4	~~D6~~
Sodium	ND	mg/kg	484	35.3	1	06/08/18 09:48	06/11/18 17:18	7440-23-5	
Thallium	ND	mg/kg	1.9	0.59	1	06/08/18 09:48	06/11/18 17:18	7440-28-0	
Vanadium	**20.3**	mg/kg	0.97	0.079	1	06/08/18 09:48	06/11/18 17:18	7440-62-2	
Zinc	**76.7** J	mg/kg	0.97	0.16	1	06/08/18 09:48	06/11/18 17:18	7440-66-6	~~MH,ML,R1~~
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	ND	mg/kg	0.10	0.0051	1	06/08/18 09:06	06/08/18 18:00	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3590	132	10	06/07/18 22:43	06/09/18 22:29	83-32-9	~~ED~~
Acenaphthylene	ND	ug/kg	3590	117	10	06/07/18 22:43	06/09/18 22:29	208-96-8	~~ED~~
Anthracene	ND	ug/kg	3590	112	10	06/07/18 22:43	06/09/18 22:29	120-12-7	~~ED~~
Azobenzene	ND	ug/kg	3590	125	10	06/07/18 22:43	06/09/18 22:29	103-33-3	~~ED,N2~~
Benzo(a)anthracene	ND	ug/kg	3590	118	10	06/07/18 22:43	06/09/18 22:29	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3590	149	10	06/07/18 22:43	06/09/18 22:29	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3590	535	10	06/07/18 22:43	06/09/18 22:29	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3590	521	10	06/07/18 22:43	06/09/18 22:29	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3590	639	10	06/07/18 22:43	06/09/18 22:29	207-08-9	ED
Benzoic acid	ND	ug/kg	8990	4940	10	06/07/18 22:43	06/09/18 22:29	65-85-0	ED
Benzyl alcohol	~~ND~~ R	ug/kg	3590	844	10	06/07/18 22:43	06/09/18 22:29	100-51-6	~~ED,M6~~
4-Bromophenylphenyl ether	ND	ug/kg	3590	367	10	06/07/18 22:43	06/09/18 22:29	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3590	376	10	06/07/18 22:43	06/09/18 22:29	85-68-7	ED
Carbazole	ND	ug/kg	3590	370	10	06/07/18 22:43	06/09/18 22:29	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3590	299	10	06/07/18 22:43	06/09/18 22:29	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3590	568	10	06/07/18 22:43	06/09/18 22:29	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3590	165	10	06/07/18 22:43	06/09/18 22:29	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3590	366	10	06/07/18 22:43	06/09/18 22:29	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3590	112	10	06/07/18 22:43	06/09/18 22:29	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3590	132	10	06/07/18 22:43	06/09/18 22:29	91-58-7	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44B **Lab ID: 30255203013** Collected: 06/06/18 13:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2-Chlorophenol	ND	ug/kg	3590	127	10	06/07/18 22:43	06/09/18 22:29	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3590	529	10	06/07/18 22:43	06/09/18 22:29	7005-72-3	ED
Chrysene	ND	ug/kg	3590	970	10	06/07/18 22:43	06/09/18 22:29	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3590	529	10	06/07/18 22:43	06/09/18 22:29	53-70-3	ED
Dibenzofuran	ND	ug/kg	3590	611	10	06/07/18 22:43	06/09/18 22:29	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3590	778	10	06/07/18 22:43	06/09/18 22:29	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3590	514	10	06/07/18 22:43	06/09/18 22:29	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3590	114	10	06/07/18 22:43	06/09/18 22:29	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3590	1020	10	06/07/18 22:43	06/09/18 22:29	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3590	121	10	06/07/18 22:43	06/09/18 22:29	120-83-2	ED
Diethylphthalate	ND	ug/kg	3590	136	10	06/07/18 22:43	06/09/18 22:29	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3590	363	10	06/07/18 22:43	06/09/18 22:29	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3590	151	10	06/07/18 22:43	06/09/18 22:29	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3590	132	10	06/07/18 22:43	06/09/18 22:29	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	8990	700	10	06/07/18 22:43	06/09/18 22:29	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	8990	3430	10	06/07/18 22:43	06/09/18 22:29	51-28-5	ED,M6
2,4-Dinitrotoluene	ND	ug/kg	3590	174	10	06/07/18 22:43	06/09/18 22:29	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3590	439	10	06/07/18 22:43	06/09/18 22:29	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3590	431	10	06/07/18 22:43	06/09/18 22:29	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3590	698	10	06/07/18 22:43	06/09/18 22:29	117-81-7	ED
Fluoranthene	ND	ug/kg	3590	888	10	06/07/18 22:43	06/09/18 22:29	206-44-0	ED
Fluorene	ND	ug/kg	3590	164	10	06/07/18 22:43	06/09/18 22:29	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3590	354	10	06/07/18 22:43	06/09/18 22:29	87-68-3	ED,M6
Hexachlorobenzene	ND	ug/kg	3590	399	10	06/07/18 22:43	06/09/18 22:29	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3590	1770	10	06/07/18 22:43	06/09/18 22:29	77-47-4	ED
Hexachloroethane	ND	ug/kg	3590	197	10	06/07/18 22:43	06/09/18 22:29	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3590	563	10	06/07/18 22:43	06/09/18 22:29	193-39-5	ED
Isophorone	ND	ug/kg	3590	303	10	06/07/18 22:43	06/09/18 22:29	78-59-1	ED
1-Methylnaphthalene	ND	ug/kg	3590	192	10	06/07/18 22:43	06/09/18 22:29	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3590	148	10	06/07/18 22:43	06/09/18 22:29	91-57-6	ED,M6
2-Methylphenol(o-Cresol)	ND	ug/kg	3590	408	10	06/07/18 22:43	06/09/18 22:29	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7190	119	10	06/07/18 22:43	06/09/18 22:29		ED
Naphthalene	ND	ug/kg	3590	1120	10	06/07/18 22:43	06/09/18 22:29	91-20-3	ED,M6
2-Nitroaniline	ND	ug/kg	8990	144	10	06/07/18 22:43	06/09/18 22:29	88-74-4	ED
3-Nitroaniline	ND	ug/kg	8990	900	10	06/07/18 22:43	06/09/18 22:29	99-09-2	ED
4-Nitroaniline	ND	ug/kg	8990	916	10	06/07/18 22:43	06/09/18 22:29	100-01-6	ED
Nitrobenzene	ND	ug/kg	3590	111	10	06/07/18 22:43	06/09/18 22:29	98-95-3	ED,M6
2-Nitrophenol	ND	ug/kg	3590	183	10	06/07/18 22:43	06/09/18 22:29	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3590	453	10	06/07/18 22:43	06/09/18 22:29	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3590	412	10	06/07/18 22:43	06/09/18 22:29	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3590	212	10	06/07/18 22:43	06/09/18 22:29	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3590	530	10	06/07/18 22:43	06/09/18 22:29	86-30-6	ED
Pentachlorophenol	ND	ug/kg	8990	1120	10	06/07/18 22:43	06/09/18 22:29	87-86-5	ED
Phenanthrene	ND	ug/kg	3590	112	10	06/07/18 22:43	06/09/18 22:29	85-01-8	ED
Phenol	ND	ug/kg	3590	458	10	06/07/18 22:43	06/09/18 22:29	108-95-2	ED

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44B **Lab ID: 30255203013** Collected: 06/06/18 13:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Pyrene	ND	ug/kg	3590	438	10	06/07/18 22:43	06/09/18 22:29	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3590	467	10	06/07/18 22:43	06/09/18 22:29	120-82-1	ED, M6
2,4,5-Trichlorophenol	ND	ug/kg	8990	625	10	06/07/18 22:43	06/09/18 22:29	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3590	1150	10	06/07/18 22:43	06/09/18 22:29	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	76	%	10-175		10	06/07/18 22:43	06/09/18 22:29	4165-60-0	
2-Fluorobiphenyl (S)	82	%	10-151		10	06/07/18 22:43	06/09/18 22:29	321-60-8	
Terphenyl-d14 (S)	91	%	10-172		10	06/07/18 22:43	06/09/18 22:29	1718-51-0	
Phenol-d6 (S)	84	%	10-142		10	06/07/18 22:43	06/09/18 22:29	13127-88-3	
2-Fluorophenol (S)	89	%	10-138		10	06/07/18 22:43	06/09/18 22:29	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-144		10	06/07/18 22:43	06/09/18 22:29	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.8**	%	0.10	0.10	1		06/10/18 12:39		

NW 8/7/18

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44C **Lab ID: 30255203016** Collected: 06/06/18 13:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	2.0	0.35	1	06/07/18 19:10	06/09/18 01:11	309-00-2	
alpha-BHC	ND	ug/kg	2.0	0.39	1	06/07/18 19:10	06/09/18 01:11	319-84-6	
beta-BHC	ND	ug/kg	2.0	1.4	1	06/07/18 19:10	06/09/18 01:11	319-85-7	
delta-BHC	ND	ug/kg	2.0	1.9	1	06/07/18 19:10	06/09/18 01:11	319-86-8	~~CH~~
gamma-BHC (Lindane)	ND	ug/kg	2.0	0.52	1	06/07/18 19:10	06/09/18 01:11	58-89-9	
alpha-Chlordane	ND	ug/kg	2.0	0.21	1	06/07/18 19:10	06/09/18 01:11	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.0	0.52	1	06/07/18 19:10	06/09/18 01:11	5103-74-2	
4,4'-DDD	ND	ug/kg	4.0	1.3	1	06/07/18 19:10	06/09/18 01:11	72-54-8	
4,4'-DDE	ND	ug/kg	4.0	0.70	1	06/07/18 19:10	06/09/18 01:11	72-55-9	
4,4'-DDT	ND	ug/kg	4.0	1.0	1	06/07/18 19:10	06/09/18 01:11	50-29-3	~~CH~~
Dieldrin	ND	ug/kg	4.0	0.41	1	06/07/18 19:10	06/09/18 01:11	60-57-1	
Endosulfan I	ND	ug/kg	2.0	0.24	1	06/07/18 19:10	06/09/18 01:11	959-98-8	
Endosulfan II	ND	ug/kg	4.0	0.57	1	06/07/18 19:10	06/09/18 01:11	33213-65-9	
Endosulfan sulfate	ND	ug/kg	4.0	0.36	1	06/07/18 19:10	06/09/18 01:11	1031-07-8	
Endrin	ND	ug/kg	4.0	0.63	1	06/07/18 19:10	06/09/18 01:11	72-20-8	
Endrin aldehyde	ND	ug/kg	4.0	0.94	1	06/07/18 19:10	06/09/18 01:11	7421-93-4	~~5c,CH~~
Endrin ketone	ND	ug/kg	4.0	0.36	1	06/07/18 19:10	06/09/18 01:11	53494-70-5	
Heptachlor	ND	ug/kg	2.0	0.24	1	06/07/18 19:10	06/09/18 01:11	76-44-8	~~CH~~
Heptachlor epoxide	ND	ug/kg	2.0	0.56	1	06/07/18 19:10	06/09/18 01:11	1024-57-3	
Methoxychlor	ND	ug/kg	19.8	1.9	1	06/07/18 19:10	06/09/18 01:11	72-43-5	
Toxaphene	ND	ug/kg	19.8	6.5	1	06/07/18 19:10	06/09/18 01:11	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	37-113		1	06/07/18 19:10	06/09/18 01:11	877-09-8	
Decachlorobiphenyl (S)	66	%	39-122		1	06/07/18 19:10	06/09/18 01:11	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	19.8	1.8	1	06/07/18 19:10	06/11/18 22:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	19.8	6.4	1	06/07/18 19:10	06/11/18 22:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	19.8	2.6	1	06/07/18 19:10	06/11/18 22:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	19.8	2.3	1	06/07/18 19:10	06/11/18 22:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	19.8	1.9	1	06/07/18 19:10	06/11/18 22:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	19.8	2.2	1	06/07/18 19:10	06/11/18 22:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	19.8	1.9	1	06/07/18 19:10	06/11/18 22:40	11096-82-5	
PCB, Total	ND	ug/kg	178	24.0	1	06/07/18 19:10	06/11/18 22:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	41-99		1	06/07/18 19:10	06/11/18 22:40	877-09-8	
Decachlorobiphenyl (S)	83	%	55-110		1	06/07/18 19:10	06/11/18 22:40	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**4310**	mg/kg	11.3	2.8	1	06/08/18 09:48	06/11/18 18:48	7429-90-5	
Antimony	~~ND~~ UJ	mg/kg	0.68	0.54	1	06/08/18 09:48	06/11/18 18:48	7440-36-0	
Arsenic	**2.0** J	mg/kg	0.56	0.54	1	06/08/18 09:48	06/11/18 18:48	7440-38-2	
Barium	**18.5** J	mg/kg	2.3	0.11	1	06/08/18 09:48	06/11/18 18:48	7440-39-3	
Beryllium	**0.26**	mg/kg	0.23	0.034	1	06/08/18 09:48	06/11/18 18:48	7440-41-7	
Boron	ND	mg/kg	5.6	0.20	1	06/08/18 09:48	06/11/18 18:48	7440-42-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44C **Lab ID: 30255203016** Collected: 06/06/18 13:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	ND	mg/kg	0.34	0.068	1	06/08/18 09:48	06/11/18 18:48	7440-43-9	
Calcium	**1350**	mg/kg	225	5.5	1	06/08/18 09:48	06/11/18 18:48	7440-70-2	
Chromium	**6.4**	mg/kg	0.56	0.10	1	06/08/18 09:48	06/11/18 18:48	7440-47-3	
Cobalt	**4.2**	mg/kg	1.1	0.12	1	06/08/18 09:48	06/11/18 18:48	7440-48-4	
Copper	**7.0**	mg/kg	1.1	0.66	1	06/08/18 09:48	06/11/18 18:48	7440-50-8	
Iron	**9540**	mg/kg	11.3	1.3	1	06/08/18 09:48	06/11/18 18:48	7439-89-6	
Lead	**11.2** J	mg/kg	0.56	0.55	1	06/08/18 09:48	06/11/18 18:48	7439-92-1	
Magnesium	**1800**	mg/kg	56.3	6.6	1	06/08/18 09:48	06/11/18 18:48	7439-95-4	
Manganese	**146**	mg/kg	1.1	0.11	1	06/08/18 09:48	06/11/18 18:48	7439-96-5	
Molybdenum	ND	mg/kg	2.3	0.16	1	06/08/18 09:48	06/11/18 18:48	7439-98-7	
Nickel	**8.8**	mg/kg	2.3	0.28	1	06/08/18 09:48	06/11/18 18:48	7440-02-0	
Potassium	**726** J	mg/kg	56.3	51.9	1	06/08/18 09:48	06/11/18 18:48	7440-09-7	
Selenium	ND	mg/kg	0.90	0.66	1	06/08/18 09:48	06/11/18 18:48	7782-49-2	
Silver	**0.84**	mg/kg	0.68	0.11	1	06/08/18 09:48	06/11/18 18:48	7440-22-4	
Sodium	ND	mg/kg	563	41.0	1	06/08/18 09:48	06/11/18 18:48	7440-23-5	
Thallium	ND	mg/kg	2.3	0.69	1	06/08/18 09:48	06/11/18 18:48	7440-28-0	
Vanadium	**8.3**	mg/kg	1.1	0.092	1	06/08/18 09:48	06/11/18 18:48	7440-62-2	
Zinc	**35.2** J	mg/kg	1.1	0.19	1	06/08/18 09:48	06/11/18 18:48	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	ND	mg/kg	0.11	0.0055	1	06/08/18 09:06	06/08/18 18:11	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	396	14.5	1	06/07/18 22:43	06/09/18 20:38	83-32-9	
Acenaphthylene	ND	ug/kg	396	12.8	1	06/07/18 22:43	06/09/18 20:38	208-96-8	
Anthracene	ND	ug/kg	396	12.4	1	06/07/18 22:43	06/09/18 20:38	120-12-7	
Azobenzene	ND	ug/kg	396	13.8	1	06/07/18 22:43	06/09/18 20:38	103-33-3	~~N2~~
Benzo(a)anthracene	**506**	ug/kg	396	13.0	1	06/07/18 22:43	06/09/18 20:38	56-55-3	
Benzo(a)pyrene	**455**	ug/kg	396	16.4	1	06/07/18 22:43	06/09/18 20:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	396	58.9	1	06/07/18 22:43	06/09/18 20:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	396	57.4	1	06/07/18 22:43	06/09/18 20:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	396	70.3	1	06/07/18 22:43	06/09/18 20:38	207-08-9	
Benzoic acid	ND	ug/kg	990	544	1	06/07/18 22:43	06/09/18 20:38	65-85-0	
Benzyl alcohol	ND	ug/kg	396	92.9	1	06/07/18 22:43	06/09/18 20:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	396	40.4	1	06/07/18 22:43	06/09/18 20:38	101-55-3	
Butylbenzylphthalate	ND	ug/kg	396	41.3	1	06/07/18 22:43	06/09/18 20:38	85-68-7	
Carbazole	ND	ug/kg	396	40.8	1	06/07/18 22:43	06/09/18 20:38	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	396	32.9	1	06/07/18 22:43	06/09/18 20:38	59-50-7	
4-Chloroaniline	ND	ug/kg	396	62.5	1	06/07/18 22:43	06/09/18 20:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	396	18.2	1	06/07/18 22:43	06/09/18 20:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	396	40.3	1	06/07/18 22:43	06/09/18 20:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	396	12.4	1	06/07/18 22:43	06/09/18 20:38	108-60-1	
2-Chloronaphthalene	ND	ug/kg	396	14.5	1	06/07/18 22:43	06/09/18 20:38	91-58-7	
2-Chlorophenol	ND	ug/kg	396	14.0	1	06/07/18 22:43	06/09/18 20:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	396	58.2	1	06/07/18 22:43	06/09/18 20:38	7005-72-3	

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(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44C **Lab ID: 30255203016** Collected: 06/06/18 13:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Chrysene	**467**	ug/kg	396	107	1	06/07/18 22:43	06/09/18 20:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	396	58.2	1	06/07/18 22:43	06/09/18 20:38	53-70-3	
Dibenzofuran	ND	ug/kg	396	67.2	1	06/07/18 22:43	06/09/18 20:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	396	85.7	1	06/07/18 22:43	06/09/18 20:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	396	56.6	1	06/07/18 22:43	06/09/18 20:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	396	12.6	1	06/07/18 22:43	06/09/18 20:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	396	113	1	06/07/18 22:43	06/09/18 20:38	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	396	13.3	1	06/07/18 22:43	06/09/18 20:38	120-83-2	
Diethylphthalate	ND	ug/kg	396	15.0	1	06/07/18 22:43	06/09/18 20:38	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	396	39.9	1	06/07/18 22:43	06/09/18 20:38	105-67-9	
Dimethylphthalate	ND	ug/kg	396	16.6	1	06/07/18 22:43	06/09/18 20:38	131-11-3	
Di-n-butylphthalate	ND	ug/kg	396	14.5	1	06/07/18 22:43	06/09/18 20:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	990	77.1	1	06/07/18 22:43	06/09/18 20:38	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	990	378	1	06/07/18 22:43	06/09/18 20:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	396	19.1	1	06/07/18 22:43	06/09/18 20:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	396	48.4	1	06/07/18 22:43	06/09/18 20:38	606-20-2	
Di-n-octylphthalate	ND	ug/kg	396	47.4	1	06/07/18 22:43	06/09/18 20:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	396	76.9	1	06/07/18 22:43	06/09/18 20:38	117-81-7	
Fluoranthene	**1090**	ug/kg	396	97.8	1	06/07/18 22:43	06/09/18 20:38	206-44-0	
Fluorene	ND	ug/kg	396	18.1	1	06/07/18 22:43	06/09/18 20:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	396	39.0	1	06/07/18 22:43	06/09/18 20:38	87-68-3	
Hexachlorobenzene	ND	ug/kg	396	44.0	1	06/07/18 22:43	06/09/18 20:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	396	195	1	06/07/18 22:43	06/09/18 20:38	77-47-4	
Hexachloroethane	ND	ug/kg	396	21.7	1	06/07/18 22:43	06/09/18 20:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	396	62.0	1	06/07/18 22:43	06/09/18 20:38	193-39-5	
Isophorone	ND	ug/kg	396	33.4	1	06/07/18 22:43	06/09/18 20:38	78-59-1	
1-Methylnaphthalene	ND	ug/kg	396	21.1	1	06/07/18 22:43	06/09/18 20:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	396	16.3	1	06/07/18 22:43	06/09/18 20:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	396	44.9	1	06/07/18 22:43	06/09/18 20:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	791	13.1	1	06/07/18 22:43	06/09/18 20:38		
Naphthalene	ND	ug/kg	396	124	1	06/07/18 22:43	06/09/18 20:38	91-20-3	
2-Nitroaniline	ND	ug/kg	990	15.8	1	06/07/18 22:43	06/09/18 20:38	88-74-4	
3-Nitroaniline	ND	ug/kg	990	99.1	1	06/07/18 22:43	06/09/18 20:38	99-09-2	
4-Nitroaniline	ND	ug/kg	990	101	1	06/07/18 22:43	06/09/18 20:38	100-01-6	
Nitrobenzene	ND	ug/kg	396	12.2	1	06/07/18 22:43	06/09/18 20:38	98-95-3	
2-Nitrophenol	ND	ug/kg	396	20.2	1	06/07/18 22:43	06/09/18 20:38	88-75-5	
4-Nitrophenol	ND	ug/kg	396	49.9	1	06/07/18 22:43	06/09/18 20:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	396	45.4	1	06/07/18 22:43	06/09/18 20:38	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	396	23.3	1	06/07/18 22:43	06/09/18 20:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	396	58.3	1	06/07/18 22:43	06/09/18 20:38	86-30-6	
Pentachlorophenol	ND	ug/kg	990	124	1	06/07/18 22:43	06/09/18 20:38	87-86-5	
Phenanthrene	**833**	ug/kg	396	12.4	1	06/07/18 22:43	06/09/18 20:38	85-01-8	
Phenol	ND	ug/kg	396	50.4	1	06/07/18 22:43	06/09/18 20:38	108-95-2	
Pyrene	**915**	ug/kg	396	48.2	1	06/07/18 22:43	06/09/18 20:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	396	51.4	1	06/07/18 22:43	06/09/18 20:38	120-82-1	

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(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-44C **Lab ID: 30255203016** Collected: 06/06/18 13:30 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2,4,5-Trichlorophenol	ND	ug/kg	990	68.8	1	06/07/18 22:43	06/09/18 20:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	396	127	1	06/07/18 22:43	06/09/18 20:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	72	%	10-175		1	06/07/18 22:43	06/09/18 20:38	4165-60-0	
2-Fluorobiphenyl (S)	71	%	10-151		1	06/07/18 22:43	06/09/18 20:38	321-60-8	
Terphenyl-d14 (S)	77	%	10-172		1	06/07/18 22:43	06/09/18 20:38	1718-51-0	
Phenol-d6 (S)	77	%	10-142		1	06/07/18 22:43	06/09/18 20:38	13127-88-3	
2-Fluorophenol (S)	78	%	10-138		1	06/07/18 22:43	06/09/18 20:38	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-144		1	06/07/18 22:43	06/09/18 20:38	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.8**	%	0.10	0.10	1		06/10/18 12:39		

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41B **Lab ID: 30255203017** Collected: 06/06/18 13:45 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	17.8	3.2	10	06/07/18 19:10	06/09/18 01:20	309-00-2	ED
alpha-BHC	ND	ug/kg	17.8	3.5	10	06/07/18 19:10	06/09/18 01:20	319-84-6	ED
beta-BHC	ND	ug/kg	17.8	13.0	10	06/07/18 19:10	06/09/18 01:20	319-85-7	ED
delta-BHC	ND	ug/kg	17.8	17.2	10	06/07/18 19:10	06/09/18 01:20	319-86-8	ED
gamma-BHC (Lindane)	ND	ug/kg	17.8	4.7	10	06/07/18 19:10	06/09/18 01:20	58-89-9	ED
alpha-Chlordane	ND	ug/kg	17.8	1.9	10	06/07/18 19:10	06/09/18 01:20	5103-71-9	ED
gamma-Chlordane	ND	ug/kg	17.8	4.6	10	06/07/18 19:10	06/09/18 01:20	5103-74-2	ED
4,4'-DDD	ND	ug/kg	35.6	11.7	10	06/07/18 19:10	06/09/18 01:20	72-54-8	ED
4,4'-DDE	ND	ug/kg	35.6	6.3	10	06/07/18 19:10	06/09/18 01:20	72-55-9	ED
4,4'-DDT	ND	ug/kg	35.6	9.4	10	06/07/18 19:10	06/09/18 01:20	50-29-3	ED
Dieldrin	ND	ug/kg	35.6	3.7	10	06/07/18 19:10	06/09/18 01:20	60-57-1	ED
Endosulfan I	ND	ug/kg	17.8	2.2	10	06/07/18 19:10	06/09/18 01:20	959-98-8	ED
Endosulfan II	ND	ug/kg	35.6	5.1	10	06/07/18 19:10	06/09/18 01:20	33213-65-9	ED
Endosulfan sulfate	ND	ug/kg	35.6	3.2	10	06/07/18 19:10	06/09/18 01:20	1031-07-8	ED
Endrin	ND	ug/kg	35.6	5.6	10	06/07/18 19:10	06/09/18 01:20	72-20-8	ED
Endrin aldehyde	ND	ug/kg	35.6	8.5	10	06/07/18 19:10	06/09/18 01:20	7421-93-4	CH,ED
Endrin ketone	ND	ug/kg	35.6	3.3	10	06/07/18 19:10	06/09/18 01:20	53494-70-5	ED
Heptachlor	ND	ug/kg	17.8	2.1	10	06/07/18 19:10	06/09/18 01:20	76-44-8	ED
Heptachlor epoxide	ND	ug/kg	17.8	5.0	10	06/07/18 19:10	06/09/18 01:20	1024-57-3	ED
Methoxychlor	ND	ug/kg	178	17.2	10	06/07/18 19:10	06/09/18 01:20	72-43-5	ED
Toxaphene	ND	ug/kg	178	58.5	10	06/07/18 19:10	06/09/18 01:20	8001-35-2	ED
Surrogates									
Tetrachloro-m-xylene (S)	97	%	37-113		10	06/07/18 19:10	06/09/18 01:20	877-09-8	
Decachlorobiphenyl (S)	115	%	39-122		10	06/07/18 19:10	06/09/18 01:20	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	178	16.6	10	06/07/18 19:10	06/11/18 22:48	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	178	57.2	10	06/07/18 19:10	06/11/18 22:48	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	178	23.7	10	06/07/18 19:10	06/11/18 22:48	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	178	20.9	10	06/07/18 19:10	06/11/18 22:48	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	178	17.3	10	06/07/18 19:10	06/11/18 22:48	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	178	19.6	10	06/07/18 19:10	06/11/18 22:48	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	178	17.2	10	06/07/18 19:10	06/11/18 22:48	11096-82-5	ED
PCB, Total	ND	ug/kg	1600	216	10	06/07/18 19:10	06/11/18 22:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	41-99		10	06/07/18 19:10	06/11/18 22:48	877-09-8	
Decachlorobiphenyl (S)	90	%	55-110		10	06/07/18 19:10	06/11/18 22:48	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**11100**	mg/kg	9.7	2.4	1	06/08/18 09:48	06/11/18 18:50	7429-90-5	
Antimony	ND UJ	mg/kg	0.58	0.47	1	06/08/18 09:48	06/11/18 18:50	7440-36-0	
Arsenic	**6.8** J	mg/kg	0.49	0.47	1	06/08/18 09:48	06/11/18 18:50	7440-38-2	
Barium	**101** J	mg/kg	1.9	0.091	1	06/08/18 09:48	06/11/18 18:50	7440-39-3	
Beryllium	**0.50**	mg/kg	0.19	0.030	1	06/08/18 09:48	06/11/18 18:50	7440-41-7	
Boron	ND	mg/kg	4.9	0.17	1	06/08/18 09:48	06/11/18 18:50	7440-42-8	

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41B **Lab ID: 30255203017** Collected: 06/06/18 13:45 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Cadmium	**0.38**	mg/kg	0.29	0.059	1	06/08/18 09:48	06/11/18 18:50	7440-43-9	
Calcium	**13100**	mg/kg	194	4.7	1	06/08/18 09:48	06/11/18 18:50	7440-70-2	
Chromium	**16.6**	mg/kg	0.49	0.089	1	06/08/18 09:48	06/11/18 18:50	7440-47-3	
Cobalt	**9.7**	mg/kg	0.97	0.10	1	06/08/18 09:48	06/11/18 18:50	7440-48-4	
Copper	**30.6**	mg/kg	0.97	0.57	1	06/08/18 09:48	06/11/18 18:50	7440-50-8	
Iron	**20500**	mg/kg	9.7	1.1	1	06/08/18 09:48	06/11/18 18:50	7439-89-6	
Lead	**134** J	mg/kg	0.49	0.48	1	06/08/18 09:48	06/11/18 18:50	7439-92-1	
Magnesium	**5170**	mg/kg	48.6	5.7	1	06/08/18 09:48	06/11/18 18:50	7439-95-4	
Manganese	**511**	mg/kg	0.97	0.097	1	06/08/18 09:48	06/11/18 18:50	7439-96-5	
Molybdenum	ND	mg/kg	1.9	0.14	1	06/08/18 09:48	06/11/18 18:50	7439-98-7	
Nickel	**18.0**	mg/kg	1.9	0.24	1	06/08/18 09:48	06/11/18 18:50	7440-02-0	
Potassium	**1340** J	mg/kg	48.6	44.8	1	06/08/18 09:48	06/11/18 18:50	7440-09-7	
Selenium	ND	mg/kg	0.78	0.57	1	06/08/18 09:48	06/11/18 18:50	7782-49-2	
Silver	**3.6**	mg/kg	0.58	0.094	1	06/08/18 09:48	06/11/18 18:50	7440-22-4	
Sodium	ND	mg/kg	486	35.4	1	06/08/18 09:48	06/11/18 18:50	7440-23-5	
Thallium	ND	mg/kg	1.9	0.60	1	06/08/18 09:48	06/11/18 18:50	7440-28-0	
Vanadium	**21.5**	mg/kg	0.97	0.079	1	06/08/18 09:48	06/11/18 18:50	7440-62-2	
Zinc	**107** J	mg/kg	0.97	0.16	1	06/08/18 09:48	06/11/18 18:50	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.16**	mg/kg	0.11	0.0052	1	06/08/18 09:06	06/08/18 18:12	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3490	128	10	06/07/18 22:43	06/09/18 23:36	83-32-9	ED
Acenaphthylene	ND	ug/kg	3490	113	10	06/07/18 22:43	06/09/18 23:36	208-96-8	ED
Anthracene	ND	ug/kg	3490	109	10	06/07/18 22:43	06/09/18 23:36	120-12-7	ED
Azobenzene	ND	ug/kg	3490	121	10	06/07/18 22:43	06/09/18 23:36	103-33-3	ED,N2
Benzo(a)anthracene	ND	ug/kg	3490	114	10	06/07/18 22:43	06/09/18 23:36	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3490	145	10	06/07/18 22:43	06/09/18 23:36	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3490	519	10	06/07/18 22:43	06/09/18 23:36	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3490	506	10	06/07/18 22:43	06/09/18 23:36	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3490	620	10	06/07/18 22:43	06/09/18 23:36	207-08-9	ED
Benzoic acid	ND	ug/kg	8720	4800	10	06/07/18 22:43	06/09/18 23:36	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3490	819	10	06/07/18 22:43	06/09/18 23:36	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	3490	356	10	06/07/18 22:43	06/09/18 23:36	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3490	364	10	06/07/18 22:43	06/09/18 23:36	85-68-7	ED
Carbazole	ND	ug/kg	3490	359	10	06/07/18 22:43	06/09/18 23:36	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3490	290	10	06/07/18 22:43	06/09/18 23:36	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3490	551	10	06/07/18 22:43	06/09/18 23:36	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3490	160	10	06/07/18 22:43	06/09/18 23:36	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3490	355	10	06/07/18 22:43	06/09/18 23:36	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3490	109	10	06/07/18 22:43	06/09/18 23:36	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3490	128	10	06/07/18 22:43	06/09/18 23:36	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3490	124	10	06/07/18 22:43	06/09/18 23:36	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3490	513	10	06/07/18 22:43	06/09/18 23:36	7005-72-3	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41B **Lab ID: 30255203017** Collected: 06/06/18 13:45 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Chrysene	ND	ug/kg	3490	941	10	06/07/18 22:43	06/09/18 23:36	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3490	513	10	06/07/18 22:43	06/09/18 23:36	53-70-3	ED
Dibenzofuran	ND	ug/kg	3490	593	10	06/07/18 22:43	06/09/18 23:36	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3490	755	10	06/07/18 22:43	06/09/18 23:36	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3490	498	10	06/07/18 22:43	06/09/18 23:36	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3490	111	10	06/07/18 22:43	06/09/18 23:36	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3490	994	10	06/07/18 22:43	06/09/18 23:36	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3490	117	10	06/07/18 22:43	06/09/18 23:36	120-83-2	ED
Diethylphthalate	ND	ug/kg	3490	132	10	06/07/18 22:43	06/09/18 23:36	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3490	352	10	06/07/18 22:43	06/09/18 23:36	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3490	147	10	06/07/18 22:43	06/09/18 23:36	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3490	128	10	06/07/18 22:43	06/09/18 23:36	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	8720	680	10	06/07/18 22:43	06/09/18 23:36	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	8720	3330	10	06/07/18 22:43	06/09/18 23:36	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3490	169	10	06/07/18 22:43	06/09/18 23:36	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3490	426	10	06/07/18 22:43	06/09/18 23:36	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3490	418	10	06/07/18 22:43	06/09/18 23:36	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3490	678	10	06/07/18 22:43	06/09/18 23:36	117-81-7	ED
Fluoranthene	ND	ug/kg	3490	862	10	06/07/18 22:43	06/09/18 23:36	206-44-0	ED
Fluorene	ND	ug/kg	3490	159	10	06/07/18 22:43	06/09/18 23:36	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3490	344	10	06/07/18 22:43	06/09/18 23:36	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3490	387	10	06/07/18 22:43	06/09/18 23:36	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3490	1720	10	06/07/18 22:43	06/09/18 23:36	77-47-4	ED
Hexachloroethane	ND	ug/kg	3490	192	10	06/07/18 22:43	06/09/18 23:36	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3490	547	10	06/07/18 22:43	06/09/18 23:36	193-39-5	ED
Isophorone	ND	ug/kg	3490	294	10	06/07/18 22:43	06/09/18 23:36	78-59-1	ED
1-Methylnaphthalene	ND	ug/kg	3490	186	10	06/07/18 22:43	06/09/18 23:36	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3490	143	10	06/07/18 22:43	06/09/18 23:36	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3490	396	10	06/07/18 22:43	06/09/18 23:36	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	6970	115	10	06/07/18 22:43	06/09/18 23:36		ED
Naphthalene	ND	ug/kg	3490	1090	10	06/07/18 22:43	06/09/18 23:36	91-20-3	ED
2-Nitroaniline	ND	ug/kg	8720	139	10	06/07/18 22:43	06/09/18 23:36	88-74-4	ED
3-Nitroaniline	ND	ug/kg	8720	873	10	06/07/18 22:43	06/09/18 23:36	99-09-2	ED
4-Nitroaniline	ND	ug/kg	8720	889	10	06/07/18 22:43	06/09/18 23:36	100-01-6	ED
Nitrobenzene	ND	ug/kg	3490	108	10	06/07/18 22:43	06/09/18 23:36	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3490	178	10	06/07/18 22:43	06/09/18 23:36	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3490	440	10	06/07/18 22:43	06/09/18 23:36	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3490	400	10	06/07/18 22:43	06/09/18 23:36	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3490	205	10	06/07/18 22:43	06/09/18 23:36	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3490	514	10	06/07/18 22:43	06/09/18 23:36	86-30-6	ED
Pentachlorophenol	ND	ug/kg	8720	1090	10	06/07/18 22:43	06/09/18 23:36	87-86-5	ED
Phenanthrene	ND	ug/kg	3490	109	10	06/07/18 22:43	06/09/18 23:36	85-01-8	ED
Phenol	ND	ug/kg	3490	444	10	06/07/18 22:43	06/09/18 23:36	108-95-2	ED
Pyrene	ND	ug/kg	3490	425	10	06/07/18 22:43	06/09/18 23:36	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3490	453	10	06/07/18 22:43	06/09/18 23:36	120-82-1	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41B **Lab ID: 30255203017** Collected: 06/06/18 13:45 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2,4,5-Trichlorophenol	ND	ug/kg	8720	606	10	06/07/18 22:43	06/09/18 23:36	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3490	1120	10	06/07/18 22:43	06/09/18 23:36	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	82	%	10-175		10	06/07/18 22:43	06/09/18 23:36	4165-60-0	
2-Fluorobiphenyl (S)	89	%	10-151		10	06/07/18 22:43	06/09/18 23:36	321-60-8	
Terphenyl-d14 (S)	92	%	10-172		10	06/07/18 22:43	06/09/18 23:36	1718-51-0	
Phenol-d6 (S)	85	%	10-142		10	06/07/18 22:43	06/09/18 23:36	13127-88-3	
2-Fluorophenol (S)	91	%	10-138		10	06/07/18 22:43	06/09/18 23:36	367-12-4	
2,4,6-Tribromophenol (S)	77	%	10-144		10	06/07/18 22:43	06/09/18 23:36	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**52.8**	ug/kg	15.5	7.3	1	06/11/18 11:29	06/11/18 15:40	67-64-1	1c
Benzene	ND	ug/kg	7.7	2.2	1	06/11/18 11:29	06/11/18 15:40	71-43-2	1c
Bromochloromethane	ND	ug/kg	7.7	2.1	1	06/11/18 11:29	06/11/18 15:40	74-97-5	1c
Bromodichloromethane	ND	ug/kg	7.7	1.3	1	06/11/18 11:29	06/11/18 15:40	75-27-4	1c
Bromoform	ND	ug/kg	7.7	1.2	1	06/11/18 11:29	06/11/18 15:40	75-25-2	1c
Bromomethane	ND	ug/kg	7.7	4.9	1	06/11/18 11:29	06/11/18 15:40	74-83-9	1c
TOTAL BTEX	ND	ug/kg	46.4	13.6	1	06/11/18 11:29	06/11/18 15:40		
2-Butanone (MEK)	ND	ug/kg	15.5	4.4	1	06/11/18 11:29	06/11/18 15:40	78-93-3	1c
Carbon disulfide	ND	ug/kg	7.7	3.2	1	06/11/18 11:29	06/11/18 15:40	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	7.7	3.1	1	06/11/18 11:29	06/11/18 15:40	56-23-5	1c
Chlorobenzene	ND	ug/kg	7.7	2.4	1	06/11/18 11:29	06/11/18 15:40	108-90-7	1c
Chloroethane	ND	ug/kg	7.7	3.2	1	06/11/18 11:29	06/11/18 15:40	75-00-3	1c
Chloroform	ND	ug/kg	7.7	2.1	1	06/11/18 11:29	06/11/18 15:40	67-66-3	1c
Chloromethane	ND	ug/kg	7.7	3.1	1	06/11/18 11:29	06/11/18 15:40	74-87-3	1c
Dibromochloromethane	ND	ug/kg	7.7	1.1	1	06/11/18 11:29	06/11/18 15:40	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	7.7	2.0	1	06/11/18 11:29	06/11/18 15:40	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	7.7	2.0	1	06/11/18 11:29	06/11/18 15:40	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	7.7	1.9	1	06/11/18 11:29	06/11/18 15:40	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	7.7	2.9	1	06/11/18 11:29	06/11/18 15:40	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	7.7	1.3	1	06/11/18 11:29	06/11/18 15:40	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	15.5	6.2	1	06/11/18 11:29	06/11/18 15:40	540-59-0	
1,1-Dichloroethene	ND	ug/kg	7.7	5.2	1	06/11/18 11:29	06/11/18 15:40	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	7.7	2.7	1	06/11/18 11:29	06/11/18 15:40	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	7.7	3.5	1	06/11/18 11:29	06/11/18 15:40	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	7.7	1.5	1	06/11/18 11:29	06/11/18 15:40	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	7.7	1.1	1	06/11/18 11:29	06/11/18 15:40	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	7.7	1.4	1	06/11/18 11:29	06/11/18 15:40	10061-02-6	1c
Ethylbenzene	ND	ug/kg	7.7	2.4	1	06/11/18 11:29	06/11/18 15:40	100-41-4	1c
2-Hexanone	ND	ug/kg	15.5	1.2	1	06/11/18 11:29	06/11/18 15:40	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	7.7	2.2	1	06/11/18 11:29	06/11/18 15:40	98-82-8	1c
Methylene Chloride	ND	ug/kg	7.7	5.0	1	06/11/18 11:29	06/11/18 15:40	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	15.5	1.6	1	06/11/18 11:29	06/11/18 15:40	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	7.7	1.2	1	06/11/18 11:29	06/11/18 15:40	1634-04-4	1c
Naphthalene	ND	ug/kg	7.7	3.4	1	06/11/18 11:29	06/11/18 15:40	91-20-3	1c

REPORT OF LABORATORY ANALYSIS

NW 6/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41B **Lab ID: 30255203017** Collected: 06/06/18 13:45 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Styrene	ND	ug/kg	7.7	1.8	1	06/11/18 11:29	06/11/18 15:40	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.7	1.9	1	06/11/18 11:29	06/11/18 15:40	79-34-5	1c
Tetrachloroethene	ND	ug/kg	7.7	2.9	1	06/11/18 11:29	06/11/18 15:40	127-18-4	1c
Toluene	ND	ug/kg	7.7	2.2	1	06/11/18 11:29	06/11/18 15:40	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	7.7	3.1	1	06/11/18 11:29	06/11/18 15:40	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	7.7	2.8	1	06/11/18 11:29	06/11/18 15:40	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	7.7	1.3	1	06/11/18 11:29	06/11/18 15:40	79-00-5	1c
Trichloroethene	ND	ug/kg	7.7	3.1	1	06/11/18 11:29	06/11/18 15:40	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	7.7	2.0	1	06/11/18 11:29	06/11/18 15:40	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	7.7	2.1	1	06/11/18 11:29	06/11/18 15:40	108-67-8	1c
Vinyl chloride	ND	ug/kg	7.7	4.0	1	06/11/18 11:29	06/11/18 15:40	75-01-4	1c
Xylene (Total)	ND	ug/kg	23.2	6.8	1	06/11/18 11:29	06/11/18 15:40	1330-20-7	
m&p-Xylene	ND	ug/kg	15.5	4.6	1	06/11/18 11:29	06/11/18 15:40	179601-23-1	1c
o-Xylene	ND	ug/kg	7.7	2.2	1	06/11/18 11:29	06/11/18 15:40	95-47-6	1c
Surrogates									
Toluene-d8 (S)	93	%	76-124		1	06/11/18 11:29	06/11/18 15:40	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-133		1	06/11/18 11:29	06/11/18 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	74-131		1	06/11/18 11:29	06/11/18 15:40	17060-07-0	
Dibromofluoromethane (S)	97	%	71-130		1	06/11/18 11:29	06/11/18 15:40	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.5**	%	0.10	0.10	1		06/10/18 12:40		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**454**	mg/kg	107	16.0	1	06/11/18 08:50	06/11/18 14:28		

REPORT OF LABORATORY ANALYSIS

MW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41C **Lab ID: 30255203018** Collected: 06/06/18 14:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	21.1	2.0	1	06/07/18 19:10	06/11/18 23:05	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	21.1	6.8	1	06/07/18 19:10	06/11/18 23:05	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	21.1	2.8	1	06/07/18 19:10	06/11/18 23:05	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	21.1	2.5	1	06/07/18 19:10	06/11/18 23:05	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	21.1	2.1	1	06/07/18 19:10	06/11/18 23:05	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	21.1	2.3	1	06/07/18 19:10	06/11/18 23:05	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	21.1	2.0	1	06/07/18 19:10	06/11/18 23:05	11096-82-5	
PCB, Total	ND	ug/kg	190	25.6	1	06/07/18 19:10	06/11/18 23:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	41-99		1	06/07/18 19:10	06/11/18 23:05	877-09-8	
Decachlorobiphenyl (S)	77	%	55-110		1	06/07/18 19:10	06/11/18 23:05	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8390**	mg/kg	11.7	2.9	1	06/08/18 09:48	06/11/18 18:52	7429-90-5	
Antimony	ND UJ	mg/kg	0.70	0.57	1	06/08/18 09:48	06/11/18 18:52	7440-36-0	
Arsenic	**5.1** J	mg/kg	0.59	0.56	1	06/08/18 09:48	06/11/18 18:52	7440-38-2	
Barium	**64.5** J	mg/kg	2.3	0.11	1	06/08/18 09:48	06/11/18 18:52	7440-39-3	
Beryllium	**0.45**	mg/kg	0.23	0.036	1	06/08/18 09:48	06/11/18 18:52	7440-41-7	
Boron	ND	mg/kg	5.9	0.21	1	06/08/18 09:48	06/11/18 18:52	7440-42-8	
Cadmium	**0.41**	mg/kg	0.35	0.071	1	06/08/18 09:48	06/11/18 18:52	7440-43-9	
Calcium	**6260**	mg/kg	235	5.7	1	06/08/18 09:48	06/11/18 18:52	7440-70-2	
Chromium	**20.4**	mg/kg	0.59	0.11	1	06/08/18 09:48	06/11/18 18:52	7440-47-3	
Cobalt	**8.6**	mg/kg	1.2	0.12	1	06/08/18 09:48	06/11/18 18:52	7440-48-4	
Copper	**31.0**	mg/kg	1.2	0.69	1	06/08/18 09:48	06/11/18 18:52	7440-50-8	
Iron	**15200**	mg/kg	11.7	1.4	1	06/08/18 09:48	06/11/18 18:52	7439-89-6	
Lead	**93.8** J	mg/kg	0.59	0.57	1	06/08/18 09:48	06/11/18 18:52	7439-92-1	
Magnesium	**4010**	mg/kg	58.7	6.8	1	06/08/18 09:48	06/11/18 18:52	7439-95-4	
Manganese	**223**	mg/kg	1.2	0.12	1	06/08/18 09:48	06/11/18 18:52	7439-96-5	
Molybdenum	**3.2**	mg/kg	2.3	0.17	1	06/08/18 09:48	06/11/18 18:52	7439-98-7	
Nickel	**17.7**	mg/kg	2.3	0.29	1	06/08/18 09:48	06/11/18 18:52	7440-02-0	
Potassium	**1210** J	mg/kg	58.7	54.1	1	06/08/18 09:48	06/11/18 18:52	7440-09-7	
Selenium	**1.9**	mg/kg	0.94	0.69	1	06/08/18 09:48	06/11/18 18:52	7782-49-2	
Silver	**1.4**	mg/kg	0.70	0.11	1	06/08/18 09:48	06/11/18 18:52	7440-22-4	
Sodium	ND	mg/kg	587	42.8	1	06/08/18 09:48	06/11/18 18:52	7440-23-5	
Thallium	ND	mg/kg	2.3	0.72	1	06/08/18 09:48	06/11/18 18:52	7440-28-0	
Vanadium	**17.3**	mg/kg	1.2	0.095	1	06/08/18 09:48	06/11/18 18:52	7440-62-2	
Zinc	**84.2** J	mg/kg	1.2	0.20	1	06/08/18 09:48	06/11/18 18:52	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.80**	mg/kg	0.12	0.0060	1	06/08/18 09:06	06/08/18 18:14	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	**1420**	ug/kg	422	15.5	1	06/07/18 22:43	06/09/18 21:00	83-32-9	
Acenaphthylene	ND	ug/kg	422	13.7	1	06/07/18 22:43	06/09/18 21:00	208-96-8	
Anthracene	ND	ug/kg	422	13.2	1	06/07/18 22:43	06/09/18 21:00	120-12-7	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41C **Lab ID: 30255203018** Collected: 06/06/18 14:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	422	14.7	1	06/07/18 22:43	06/09/18 21:00	103-33-3	~~N2~~
Benzo(a)anthracene	ND	ug/kg	422	13.8	1	06/07/18 22:43	06/09/18 21:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	422	17.5	1	06/07/18 22:43	06/09/18 21:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	422	62.9	1	06/07/18 22:43	06/09/18 21:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	422	61.3	1	06/07/18 22:43	06/09/18 21:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	422	75.1	1	06/07/18 22:43	06/09/18 21:00	207-08-9	
Benzoic acid	ND	ug/kg	1060	581	1	06/07/18 22:43	06/09/18 21:00	65-85-0	
Benzyl alcohol	ND	ug/kg	422	99.2	1	06/07/18 22:43	06/09/18 21:00	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	422	43.1	1	06/07/18 22:43	06/09/18 21:00	101-55-3	
Butylbenzylphthalate	ND	ug/kg	422	44.1	1	06/07/18 22:43	06/09/18 21:00	85-68-7	
Carbazole	ND	ug/kg	422	43.5	1	06/07/18 22:43	06/09/18 21:00	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	422	35.1	1	06/07/18 22:43	06/09/18 21:00	59-50-7	
4-Chloroaniline	ND	ug/kg	422	66.7	1	06/07/18 22:43	06/09/18 21:00	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	422	19.4	1	06/07/18 22:43	06/09/18 21:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	422	43.0	1	06/07/18 22:43	06/09/18 21:00	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	422	13.2	1	06/07/18 22:43	06/09/18 21:00	108-60-1	
2-Chloronaphthalene	ND	ug/kg	422	15.5	1	06/07/18 22:43	06/09/18 21:00	91-58-7	
2-Chlorophenol	ND	ug/kg	422	15.0	1	06/07/18 22:43	06/09/18 21:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	422	62.1	1	06/07/18 22:43	06/09/18 21:00	7005-72-3	
Chrysene	ND	ug/kg	422	114	1	06/07/18 22:43	06/09/18 21:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	422	62.1	1	06/07/18 22:43	06/09/18 21:00	53-70-3	
Dibenzofuran	ND	ug/kg	422	71.8	1	06/07/18 22:43	06/09/18 21:00	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	422	91.4	1	06/07/18 22:43	06/09/18 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	422	60.4	1	06/07/18 22:43	06/09/18 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	422	13.4	1	06/07/18 22:43	06/09/18 21:00	106-46-7	
3,3'-Dichlorobenzidine	~~ND~~	~~ug/kg~~	~~422~~	~~120~~	1	~~06/07/18 22:43~~	~~06/09/18 21:00~~	~~91-94-1~~	
2,4-Dichlorophenol	ND	ug/kg	422	14.2	1	06/07/18 22:43	06/09/18 21:00	120-83-2	
Diethylphthalate	ND	ug/kg	422	16.0	1	06/07/18 22:43	06/09/18 21:00	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	422	42.6	1	06/07/18 22:43	06/09/18 21:00	105-67-9	
Dimethylphthalate	ND	ug/kg	422	17.8	1	06/07/18 22:43	06/09/18 21:00	131-11-3	
Di-n-butylphthalate	ND	ug/kg	422	15.5	1	06/07/18 22:43	06/09/18 21:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1060	82.3	1	06/07/18 22:43	06/09/18 21:00	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1060	403	1	06/07/18 22:43	06/09/18 21:00	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	422	20.4	1	06/07/18 22:43	06/09/18 21:00	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	422	51.6	1	06/07/18 22:43	06/09/18 21:00	606-20-2	
Di-n-octylphthalate	ND	ug/kg	422	50.6	1	06/07/18 22:43	06/09/18 21:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	422	82.1	1	06/07/18 22:43	06/09/18 21:00	117-81-7	
Fluoranthene	ND	ug/kg	422	104	1	06/07/18 22:43	06/09/18 21:00	206-44-0	
Fluorene	**1520**	ug/kg	422	19.3	1	06/07/18 22:43	06/09/18 21:00	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	422	41.6	1	06/07/18 22:43	06/09/18 21:00	87-68-3	
Hexachlorobenzene	ND	ug/kg	422	46.9	1	06/07/18 22:43	06/09/18 21:00	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	422	208	1	06/07/18 22:43	06/09/18 21:00	77-47-4	
Hexachloroethane	ND	ug/kg	422	23.2	1	06/07/18 22:43	06/09/18 21:00	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	422	66.2	1	06/07/18 22:43	06/09/18 21:00	193-39-5	
Isophorone	ND	ug/kg	422	35.6	1	06/07/18 22:43	06/09/18 21:00	78-59-1	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41C **Lab ID: 30255203018** Collected: 06/06/18 14:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	422	22.6	1	06/07/18 22:43	06/09/18 21:00	90-12-0	
2-Methylnaphthalene	**618**	ug/kg	422	17.4	1	06/07/18 22:43	06/09/18 21:00	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	422	47.9	1	06/07/18 22:43	06/09/18 21:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	845	14.0	1	06/07/18 22:43	06/09/18 21:00		
Naphthalene	ND	ug/kg	422	132	1	06/07/18 22:43	06/09/18 21:00	91-20-3	
2-Nitroaniline	ND	ug/kg	1060	16.9	1	06/07/18 22:43	06/09/18 21:00	88-74-4	
3-Nitroaniline	ND	ug/kg	1060	106	1	06/07/18 22:43	06/09/18 21:00	99-09-2	
4-Nitroaniline	ND	ug/kg	1060	108	1	06/07/18 22:43	06/09/18 21:00	100-01-6	
Nitrobenzene	ND	ug/kg	422	13.1	1	06/07/18 22:43	06/09/18 21:00	98-95-3	
2-Nitrophenol	ND	ug/kg	422	21.6	1	06/07/18 22:43	06/09/18 21:00	88-75-5	
4-Nitrophenol	ND	ug/kg	422	53.3	1	06/07/18 22:43	06/09/18 21:00	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	422	48.4	1	06/07/18 22:43	06/09/18 21:00	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	422	24.9	1	06/07/18 22:43	06/09/18 21:00	621-64-7	
N-Nitrosodiphenylamine	**1040**	ug/kg	422	62.3	1	06/07/18 22:43	06/09/18 21:00	86-30-6	
Pentachlorophenol	ND	ug/kg	1060	132	1	06/07/18 22:43	06/09/18 21:00	87-86-5	
Phenanthrene	**2810**	ug/kg	422	13.2	1	06/07/18 22:43	06/09/18 21:00	85-01-8	
Phenol	ND	ug/kg	422	53.8	1	06/07/18 22:43	06/09/18 21:00	108-95-2	
Pyrene	ND	ug/kg	422	51.5	1	06/07/18 22:43	06/09/18 21:00	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	422	54.9	1	06/07/18 22:43	06/09/18 21:00	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1060	73.4	1	06/07/18 22:43	06/09/18 21:00	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	422	136	1	06/07/18 22:43	06/09/18 21:00	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%	10-175		1	06/07/18 22:43	06/09/18 21:00	4165-60-0	
2-Fluorobiphenyl (S)	71	%	10-151		1	06/07/18 22:43	06/09/18 21:00	321-60-8	
Terphenyl-d14 (S)	76	%	10-172		1	06/07/18 22:43	06/09/18 21:00	1718-51-0	
Phenol-d6 (S)	79	%	10-142		1	06/07/18 22:43	06/09/18 21:00	13127-88-3	
2-Fluorophenol (S)	89	%	10-138		1	06/07/18 22:43	06/09/18 21:00	367-12-4	
2,4,6-Tribromophenol (S)	74	%	10-144		1	06/07/18 22:43	06/09/18 21:00	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**38.7**	ug/kg	13.0	6.1	1	06/11/18 11:29	06/11/18 16:07	67-64-1	1c
Benzene	ND	ug/kg	6.5	1.9	1	06/11/18 11:29	06/11/18 16:07	71-43-2	1c
Bromochloromethane	ND	ug/kg	6.5	1.7	1	06/11/18 11:29	06/11/18 16:07	74-97-5	1c
Bromodichloromethane	ND	ug/kg	6.5	1.1	1	06/11/18 11:29	06/11/18 16:07	75-27-4	1c
Bromoform	ND	ug/kg	6.5	1.0	1	06/11/18 11:29	06/11/18 16:07	75-25-2	1c
Bromomethane	ND	ug/kg	6.5	4.1	1	06/11/18 11:29	06/11/18 16:07	74-83-9	1c
TOTAL BTEX	ND	ug/kg	38.9	11.4	1	06/11/18 11:29	06/11/18 16:07		
2-Butanone (MEK)	ND	ug/kg	13.0	3.7	1	06/11/18 11:29	06/11/18 16:07	78-93-3	1c
Carbon disulfide	ND	ug/kg	6.5	2.7	1	06/11/18 11:29	06/11/18 16:07	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.5	2.6	1	06/11/18 11:29	06/11/18 16:07	56-23-5	1c
Chlorobenzene	ND	ug/kg	6.5	2.0	1	06/11/18 11:29	06/11/18 16:07	108-90-7	1c
Chloroethane	ND	ug/kg	6.5	2.6	1	06/11/18 11:29	06/11/18 16:07	75-00-3	1c
Chloroform	ND	ug/kg	6.5	1.7	1	06/11/18 11:29	06/11/18 16:07	67-66-3	1c
Chloromethane	ND	ug/kg	6.5	2.6	1	06/11/18 11:29	06/11/18 16:07	74-87-3	1c
Dibromochloromethane	ND	ug/kg	6.5	0.93	1	06/11/18 11:29	06/11/18 16:07	124-48-1	1c

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255203

Sample: SB-41C **Lab ID: 30255203018** Collected: 06/06/18 14:05 Received: 06/07/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
1,2-Dichlorobenzene	ND	ug/kg	6.5	1.6	1	06/11/18 11:29	06/11/18 16:07	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.5	1.7	1	06/11/18 11:29	06/11/18 16:07	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.5	1.6	1	06/11/18 11:29	06/11/18 16:07	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	6.5	2.4	1	06/11/18 11:29	06/11/18 16:07	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.5	1.1	1	06/11/18 11:29	06/11/18 16:07	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	13.0	5.2	1	06/11/18 11:29	06/11/18 16:07	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.5	4.4	1	06/11/18 11:29	06/11/18 16:07	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.5	2.3	1	06/11/18 11:29	06/11/18 16:07	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.5	2.9	1	06/11/18 11:29	06/11/18 16:07	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.5	1.3	1	06/11/18 11:29	06/11/18 16:07	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.5	0.93	1	06/11/18 11:29	06/11/18 16:07	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.5	1.2	1	06/11/18 11:29	06/11/18 16:07	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.5	2.0	1	06/11/18 11:29	06/11/18 16:07	100-41-4	1c
2-Hexanone	ND	ug/kg	13.0	1.0	1	06/11/18 11:29	06/11/18 16:07	591-78-6	1c
Isopropylbenzene (Cumene)	**7.4**	ug/kg	6.5	1.9	1	06/11/18 11:29	06/11/18 16:07	98-82-8	1c
Methylene Chloride	ND	ug/kg	6.5	4.2	1	06/11/18 11:29	06/11/18 16:07	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.0	1.3	1	06/11/18 11:29	06/11/18 16:07	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.5	1.0	1	06/11/18 11:29	06/11/18 16:07	1634-04-4	1c
Naphthalene	ND	ug/kg	6.5	2.9	1	06/11/18 11:29	06/11/18 16:07	91-20-3	1c
Styrene	ND	ug/kg	6.5	1.5	1	06/11/18 11:29	06/11/18 16:07	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.5	1.6	1	06/11/18 11:29	06/11/18 16:07	79-34-5	1c
Tetrachloroethene	ND	ug/kg	6.5	2.4	1	06/11/18 11:29	06/11/18 16:07	127-18-4	1c
Toluene	ND	ug/kg	6.5	1.9	1	06/11/18 11:29	06/11/18 16:07	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.5	2.6	1	06/11/18 11:29	06/11/18 16:07	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	6.5	2.4	1	06/11/18 11:29	06/11/18 16:07	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	6.5	1.1	1	06/11/18 11:29	06/11/18 16:07	79-00-5	1c
Trichloroethene	ND	ug/kg	6.5	2.6	1	06/11/18 11:29	06/11/18 16:07	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.5	1.7	1	06/11/18 11:29	06/11/18 16:07	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.5	1.7	1	06/11/18 11:29	06/11/18 16:07	108-67-8	1c
Vinyl chloride	ND	ug/kg	6.5	3.3	1	06/11/18 11:29	06/11/18 16:07	75-01-4	1c
Xylene (Total)	ND	ug/kg	19.5	5.7	1	06/11/18 11:29	06/11/18 16:07	1330-20-7	
m&p-Xylene	ND	ug/kg	13.0	3.9	1	06/11/18 11:29	06/11/18 16:07	179601-23-1	1c
o-Xylene	ND	ug/kg	6.5	1.8	1	06/11/18 11:29	06/11/18 16:07	95-47-6	1c
Surrogates									
Toluene-d8 (S)	104	%	76-124		1	06/11/18 11:29	06/11/18 16:07	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-133		1	06/11/18 11:29	06/11/18 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	74-131		1	06/11/18 11:29	06/11/18 16:07	17060-07-0	
Dibromofluoromethane (S)	99	%	71-130		1	06/11/18 11:29	06/11/18 16:07	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.1**	%	0.10	0.10	1		06/10/18 12:40		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**6550**	mg/kg	253	37.8	1	06/11/18 08:50	06/11/18 14:28		6c

REPORT OF LABORATORY ANALYSIS

NW 8/1/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: 30255422
Laboratory: Pace Analytical Services, LLC, Greensburg, Pennsylvania
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

VOC & TPH			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	SB-37B	3025542201	Soil
2	SB-37C	3025542202	Soil
3	SB-37C DUP	3025542203	Soil
6†	SB-40BO	3025542206	Soil
7†	SB-40C	3025542207	Soil
8*	SB-38B	3025542208	Soil
9*	SB-38C	3025542209	Soil
11†	SB-39C	30255422011	Soil
12MS†	SB-39CMS	30255422012MS	Soil
13MSD†	SB-39CMSD	30255422013MSD	Soil
15	SB-46A	30255422015	Soil
16	SB-42A	30255422016	Soil
18*	SB-38BMS	3025542218MS	Soil
19*	SB-38BMSD	3025542219MSD	Soil

* - VOC only † - TPH only

SVOC, PCB, & Metals			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	SB-37B	3025542201	Soil
2	SB-37C	3025542202	Soil
4MS	SB-37CMS	3025542204MS	Soil
5MSD	SB-37CMSD	3025542205MSD	Soil
6	SB-40BO	3025542206	Soil
7	SB-40C	3025542207	Soil
8	SB-38B	3025542208	Soil
9	SB-38C	3025542209	Soil
10	SB-39B	30255422010	Soil
11	SB-39C	30255422011	Soil
12MS*	SB-39CMS	30255422012MS	Soil
13MSD*	SB-39CMSD	30255422013MSD	Soil
14	SB-44A-O	30255422014	Soil
16	SB-42A	30255422016	Soil
17	SB-43A	30255422017	Soil

* - Metals and PCBs only

Pesticides			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
15	SB-46A	30255422015	Soil
15MS	SB-46AMS	30255422015MS	Soil
15MSD	SB-46AMSD	30255422015MSD	Soil

A Data Usability Summary Review was performed on the analytical data for fifteen soil samples collected on June 6-7, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".*

Specific method references are as follows:

Analysis	*Method References*
VOCs	USEPA SW-846 Method 8260C
SVOCs	USEPA SW-846 Method 8270D
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
TPH	USEPA SW-846 Method 9071B
Metals/Hg	USEPA SW-846 Methods 6010C/7471B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 0, July 2015: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;
- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries

- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for soil samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibration exhibited acceptable %RSD values and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent difference (%D) and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
8	1,2,4-Trichlorobenzene	OK/9%/NC	UJ
	Acetone	224%/-39%/94	J
	Bromodichloromethane	OK/41%/77	UJ
	cis-1,3-Dichloropropene	OK/25%/OK	UJ
	Dibromochloromethane	OK/27%/101	UJ
	Several Compounds	OK/OK/High	None for RPD alone

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	SB-37C ug/kg	SB-37C DUP ug/kg	RPD	Qualifier
Acetone	57.5	68.0	17%	None

Semivolatile Organics Compounds (SVOCs)

Holding Times

- The sample was extracted within 14 days for soil samples and analyzed within 40 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent difference (%D) and RRF values.

Method Blank

- The method blank was free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
2	Several Compounds	OK/OK/High	None for RPD Alone
11	1,3-Dichlorobenzene	96%/OK/OK	None - Sample ND
	2-Chloronaphthalene	47%/OK/66	UJ
	Phenanthrene	123%/OK/OK	None - Sample ND

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- EDS Sample IDs 6, 8, 10, and 17 were analyzed at various dilutions due to matrix interference. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not analyzed for SVOC.

Pesticides

Holding Times

- The sample was extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
15	Endosulfan Sulfate	OK/51%/OK	UJ
	Heptachlor	26%/23%/OK	UJ

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- Several samples were analyzed at various dilutions due to matrix interference. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Polychlorinated Biphenyls (PCBs)

Holding Times

- The sample was extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- The following table presents surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). For a severely low %R (<10%), positive results are considered estimated and qualified (J) while non-detect results are rejected (R) and are unusable for project objectives

EDS Sample ID	Surrogate	%R	Qualifier
10	DCB/TCMX	111%/OK	None - Sample ND

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- Several samples were analyzed at various dilutions due to matrix interference. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Total Petroleum Hydrocarbons (TPH)

Holding Times

- The sample was extracted within 7 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/DUP percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R or RPD, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
11	TPH	34%/61%/57	J

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	SB-37C mg/kg	SB-37C DUP mg/kg	RPD	Qualifier
TPH	378	404	7%	None

GC Column Difference Results

- All criteria were met.

Metals & Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

ICP Interference Check Samples

- The ICP interference check samples exhibited acceptable recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
2	Antimony	48%/46%/OK	UJ	All Samples
	Barium	OK/140%/OK	J	
	Manganese	38%/177%/129	J/UJ	
	Potassium	195%/208%/OK	J	

EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
11	Barium	253%/OK/81	None	See EDS #2
	Copper	166%/OK/52	J	All Samples
	Manganese	1460%/9%/200	None	See EDS #2
	Potassium	74%/126%/OK	None	
	Zinc	268%/OK/99	J	All Samples

Laboratory Control Samples

- The LCS sample exhibited acceptable recoveries.

ICP Serial Dilution

- ICP serial dilution percent differences (%D) were within acceptance limits except the following. For a high %D, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

EDS Sample ID	Compound	%D	Qualifier	Affected Samples
2	Lead	22.1%	J	All Samples

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/8/18

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37B **Lab ID: 30255422001** Collected: 06/06/18 14:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	98.0	9.1	5	06/11/18 09:44	06/12/18 20:24	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	98.0	31.5	5	06/11/18 09:44	06/12/18 20:24	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	98.0	13.0	5	06/11/18 09:44	06/12/18 20:24	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	98.0	11.5	5	06/11/18 09:44	06/12/18 20:24	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	98.0	9.5	5	06/11/18 09:44	06/12/18 20:24	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	98.0	10.8	5	06/11/18 09:44	06/12/18 20:24	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	98.0	9.5	5	06/11/18 09:44	06/12/18 20:24	11096-82-5	ED
PCB, Total	ND	ug/kg	882	119	5	06/11/18 09:44	06/12/18 20:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	41-99		5	06/11/18 09:44	06/12/18 20:24	877-09-8	
Decachlorobiphenyl (S)	100	%	55-110		5	06/11/18 09:44	06/12/18 20:24	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8040**	mg/kg	10.8	2.7	1	06/09/18 07:06	06/12/18 13:52	7429-90-5	
Antimony	**1.5** J	mg/kg	0.65	0.52	1	06/09/18 07:06	06/12/18 13:52	7440-36-0	
Arsenic	**8.7**	mg/kg	0.54	0.52	1	06/09/18 07:06	06/12/18 13:52	7440-38-2	
Barium	**217** J	mg/kg	2.2	0.10	1	06/09/18 07:06	06/12/18 13:52	7440-39-3	
Beryllium	**0.52**	mg/kg	0.22	0.033	1	06/09/18 07:06	06/12/18 13:52	7440-41-7	
Boron	**7.6**	mg/kg	5.4	0.19	1	06/09/18 07:06	06/12/18 13:52	7440-42-8	
Cadmium	**0.44**	mg/kg	0.33	0.066	1	06/09/18 07:06	06/12/18 13:52	7440-43-9	
Calcium	**8890**	mg/kg	217	5.3	1	06/09/18 07:06	06/12/18 13:52	7440-70-2	
Chromium	**14.6**	mg/kg	0.54	0.10	1	06/09/18 07:06	06/12/18 13:52	7440-47-3	
Cobalt	**7.0**	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 13:52	7440-48-4	
Copper	**76.5** J	mg/kg	1.1	0.63	1	06/09/18 07:06	06/12/18 13:52	7440-50-8	
Iron	**19500**	mg/kg	10.8	1.3	1	06/09/18 07:06	06/12/18 13:52	7439-89-6	
Lead	**452** J	mg/kg	0.54	0.53	1	06/09/18 07:06	06/12/18 13:52	7439-92-1	
Magnesium	**1690**	mg/kg	54.2	6.3	1	06/09/18 07:06	06/12/18 13:52	7439-95-4	
Manganese	**357** J	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 13:52	7439-96-5	
Molybdenum	ND	mg/kg	2.2	0.16	1	06/09/18 07:06	06/12/18 13:52	7439-98-7	
Nickel	**14.5**	mg/kg	2.2	0.27	1	06/09/18 07:06	06/12/18 13:52	7440-02-0	
Potassium	**1020** J	mg/kg	54.2	49.9	1	06/09/18 07:06	06/12/18 13:52	7440-09-7	
Selenium	**2.3**	mg/kg	0.87	0.63	1	06/09/18 07:06	06/13/18 07:28	7782-49-2	
Silver	**3.4**	mg/kg	0.65	0.10	1	06/09/18 07:06	06/12/18 13:52	7440-22-4	
Sodium	ND	mg/kg	542	39.5	1	06/09/18 07:06	06/12/18 13:52	7440-23-5	
Thallium	ND	mg/kg	2.2	0.67	1	06/09/18 07:06	06/12/18 13:52	7440-28-0	
Vanadium	**20.6**	mg/kg	1.1	0.088	1	06/09/18 07:06	06/12/18 13:52	7440-62-2	
Zinc	**264** J	mg/kg	1.1	0.18	1	06/09/18 07:06	06/12/18 13:52	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**2.0**	mg/kg	0.12	0.0058	1	06/09/18 06:04	06/11/18 10:48	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	**3340**	ug/kg	393	14.4	1	06/11/18 19:21	06/12/18 21:23	83-32-9	
Acenaphthylene	ND	ug/kg	393	12.7	1	06/11/18 19:21	06/12/18 21:23	208-96-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37B **Lab ID: 30255422001** Collected: 06/06/18 14:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Anthracene	**6450**	ug/kg	393	12.3	1	06/11/18 19:21	06/12/18 21:23	120-12-7	
Azobenzene	ND	ug/kg	393	13.7	1	06/11/18 19:21	06/12/18 21:23	103-33-3	M2
Benzo(a)anthracene	**13200**	ug/kg	3930	129	10	06/11/18 19:21	06/13/18 12:41	56-55-3	
Benzo(a)pyrene	**11100**	ug/kg	3930	163	10	06/11/18 19:21	06/13/18 12:41	50-32-8	
Benzo(b)fluoranthene	**10800**	ug/kg	3930	585	10	06/11/18 19:21	06/13/18 12:41	205-99-2	
Benzo(g,h,i)perylene	**3050**	ug/kg	393	57.0	1	06/11/18 19:21	06/12/18 21:23	191-24-2	
Benzo(k)fluoranthene	**8460**	ug/kg	3930	698	10	06/11/18 19:21	06/13/18 12:41	207-08-9	
Benzoic acid	ND	ug/kg	982	540	1	06/11/18 19:21	06/12/18 21:23	65-85-0	
Benzyl alcohol	ND	ug/kg	393	92.2	1	06/11/18 19:21	06/12/18 21:23	100-51-6	5e
4-Bromophenylphenyl ether	ND	ug/kg	393	40.1	1	06/11/18 19:21	06/12/18 21:23	101-55-3	
Butylbenzylphthalate	ND	ug/kg	393	41.0	1	06/11/18 19:21	06/12/18 21:23	85-68-7	
Carbazole	**2600**	ug/kg	393	40.4	1	06/11/18 19:21	06/12/18 21:23	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	393	32.7	1	06/11/18 19:21	06/12/18 21:23	59-50-7	
4-Chloroaniline	ND	ug/kg	393	62.0	1	06/11/18 19:21	06/12/18 21:23	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	393	18.0	1	06/11/18 19:21	06/12/18 21:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	393	40.0	1	06/11/18 19:21	06/12/18 21:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	393	12.3	1	06/11/18 19:21	06/12/18 21:23	108-60-1	
2-Chloronaphthalene	ND	ug/kg	393	14.4	1	06/11/18 19:21	06/12/18 21:23	91-58-7	
2-Chlorophenol	ND	ug/kg	393	13.9	1	06/11/18 19:21	06/12/18 21:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	393	57.8	1	06/11/18 19:21	06/12/18 21:23	7005-72-3	
Chrysene	**13300**	ug/kg	3930	1060	10	06/11/18 19:21	06/13/18 12:41	218-01-9	
Dibenz(a,h)anthracene	**1730**	ug/kg	393	57.8	1	06/11/18 19:21	06/12/18 21:23	53-70-3	
Dibenzofuran	**2250**	ug/kg	393	66.7	1	06/11/18 19:21	06/12/18 21:23	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	393	85.0	1	06/11/18 19:21	06/12/18 21:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	393	56.1	1	06/11/18 19:21	06/12/18 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	393	12.5	1	06/11/18 19:21	06/12/18 21:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	393	112	1	06/11/18 19:21	06/12/18 21:23	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	393	13.2	1	06/11/18 19:21	06/12/18 21:23	120-83-2	
Diethylphthalate	ND	ug/kg	393	14.9	1	06/11/18 19:21	06/12/18 21:23	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	393	39.6	1	06/11/18 19:21	06/12/18 21:23	105-67-9	
Dimethylphthalate	ND	ug/kg	393	16.5	1	06/11/18 19:21	06/12/18 21:23	131-11-3	
Di-n-butylphthalate	ND	ug/kg	393	14.4	1	06/11/18 19:21	06/12/18 21:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	982	76.5	1	06/11/18 19:21	06/12/18 21:23	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	982	375	1	06/11/18 19:21	06/12/18 21:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	393	19.0	1	06/11/18 19:21	06/12/18 21:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	393	48.0	1	06/11/18 19:21	06/12/18 21:23	606-20-2	
Di-n-octylphthalate	ND	ug/kg	393	47.1	1	06/11/18 19:21	06/12/18 21:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	393	76.3	1	06/11/18 19:21	06/12/18 21:23	117-81-7	
Fluoranthene	**32700**	ug/kg	3930	971	10	06/11/18 19:21	06/13/18 12:41	206-44-0	
Fluorene	**4190**	ug/kg	393	17.9	1	06/11/18 19:21	06/12/18 21:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	393	38.7	1	06/11/18 19:21	06/12/18 21:23	87-68-3	
Hexachlorobenzene	ND	ug/kg	393	43.6	1	06/11/18 19:21	06/12/18 21:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	393	193	1	06/11/18 19:21	06/12/18 21:23	77-47-4	
Hexachloroethane	ND	ug/kg	393	21.6	1	06/11/18 19:21	06/12/18 21:23	67-72-1	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37B **Lab ID: 30255422001** Collected: 06/06/18 14:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Indeno(1,2,3-cd)pyrene	**3320**	ug/kg	393	61.6	1	06/11/18 19:21	06/12/18 21:23	193-39-5	
Isophorone	ND	ug/kg	393	33.1	1	06/11/18 19:21	06/12/18 21:23	78-59-1	
1-Methylnaphthalene	**1590**	ug/kg	393	21.0	1	06/11/18 19:21	06/12/18 21:23	90-12-0	
2-Methylnaphthalene	**1870**	ug/kg	393	16.2	1	06/11/18 19:21	06/12/18 21:23	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	393	44.6	1	06/11/18 19:21	06/12/18 21:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	785	13.0	1	06/11/18 19:21	06/12/18 21:23		
Naphthalene	**2250**	ug/kg	393	123	1	06/11/18 19:21	06/12/18 21:23	91-20-3	
2-Nitroaniline	ND	ug/kg	982	15.7	1	06/11/18 19:21	06/12/18 21:23	88-74-4	
3-Nitroaniline	ND	ug/kg	982	98.4	1	06/11/18 19:21	06/12/18 21:23	99-09-2	
4-Nitroaniline	ND	ug/kg	982	100	1	06/11/18 19:21	06/12/18 21:23	100-01-6	
Nitrobenzene	ND	ug/kg	393	12.1	1	06/11/18 19:21	06/12/18 21:23	98-95-3	
2-Nitrophenol	ND	ug/kg	393	20.0	1	06/11/18 19:21	06/12/18 21:23	88-75-5	
4-Nitrophenol	ND	ug/kg	393	49.5	1	06/11/18 19:21	06/12/18 21:23	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	393	45.0	1	06/11/18 19:21	06/12/18 21:23	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	393	23.1	1	06/11/18 19:21	06/12/18 21:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	393	57.9	1	06/11/18 19:21	06/12/18 21:23	86-30-6	
Pentachlorophenol	ND	ug/kg	982	123	1	06/11/18 19:21	06/12/18 21:23	87-86-5	
Phenanthrene	**35200**	ug/kg	3930	123	10	06/11/18 19:21	06/13/18 12:41	85-01-8	
Phenol	ND	ug/kg	393	50.0	1	06/11/18 19:21	06/12/18 21:23	108-95-2	
Pyrene	**30300**	ug/kg	3930	479	10	06/11/18 19:21	06/13/18 12:41	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	393	51.1	1	06/11/18 19:21	06/12/18 21:23	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	982	68.3	1	06/11/18 19:21	06/12/18 21:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	393	126	1	06/11/18 19:21	06/12/18 21:23	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%	10-175		1	06/11/18 19:21	06/12/18 21:23	4165-60-0	
2-Fluorobiphenyl (S)	73	%	10-151		1	06/11/18 19:21	06/12/18 21:23	321-60-8	
Terphenyl-d14 (S)	72	%	10-172		1	06/11/18 19:21	06/12/18 21:23	1718-51-0	
Phenol-d6 (S)	75	%	10-142		1	06/11/18 19:21	06/12/18 21:23	13127-88-3	
2-Fluorophenol (S)	93	%	10-138		1	06/11/18 19:21	06/12/18 21:23	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-144		1	06/11/18 19:21	06/12/18 21:23	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**27.4**	ug/kg	14.2	6.7	1	06/12/18 14:39	06/12/18 20:30	67-64-1	~~26~~
Benzene	ND	ug/kg	7.1	2.1	1	06/12/18 14:39	06/12/18 20:30	71-43-2	
Bromochloromethane	ND	ug/kg	7.1	1.9	1	06/12/18 14:39	06/12/18 20:30	74-97-5	
Bromodichloromethane	ND	ug/kg	7.1	1.2	1	06/12/18 14:39	06/12/18 20:30	75-27-4	
Bromoform	ND	ug/kg	7.1	1.1	1	06/12/18 14:39	06/12/18 20:30	75-25-2	
Bromomethane	ND	ug/kg	7.1	4.5	1	06/12/18 14:39	06/12/18 20:30	74-83-9	
TOTAL BTEX	ND	ug/kg	42.6	12.5	1	06/12/18 14:39	06/12/18 20:30		
2-Butanone (MEK)	ND	ug/kg	14.2	4.0	1	06/12/18 14:39	06/12/18 20:30	78-93-3	
Carbon disulfide	ND	ug/kg	7.1	2.9	1	06/12/18 14:39	06/12/18 20:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	7.1	2.9	1	06/12/18 14:39	06/12/18 20:30	56-23-5	
Chlorobenzene	ND	ug/kg	7.1	2.2	1	06/12/18 14:39	06/12/18 20:30	108-90-7	
Chloroethane	ND	ug/kg	7.1	2.9	1	06/12/18 14:39	06/12/18 20:30	75-00-3	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37B **Lab ID: 30255422001** Collected: 06/06/18 14:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Chloroform	ND	ug/kg	7.1	1.9	1	06/12/18 14:39	06/12/18 20:30	67-66-3	
Chloromethane	ND	ug/kg	7.1	2.8	1	06/12/18 14:39	06/12/18 20:30	74-87-3	
Dibromochloromethane	ND	ug/kg	7.1	1.0	1	06/12/18 14:39	06/12/18 20:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	7.1	1.8	1	06/12/18 14:39	06/12/18 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.1	1.8	1	06/12/18 14:39	06/12/18 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.1	1.7	1	06/12/18 14:39	06/12/18 20:30	106-46-7	
1,1-Dichloroethane	ND	ug/kg	7.1	2.6	1	06/12/18 14:39	06/12/18 20:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.1	1.2	1	06/12/18 14:39	06/12/18 20:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	14.2	5.7	1	06/12/18 14:39	06/12/18 20:30	540-59-0	
1,1-Dichloroethene	ND	ug/kg	7.1	4.8	1	06/12/18 14:39	06/12/18 20:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.1	2.5	1	06/12/18 14:39	06/12/18 20:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.1	3.2	1	06/12/18 14:39	06/12/18 20:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.1	1.4	1	06/12/18 14:39	06/12/18 20:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	7.1	1.0	1	06/12/18 14:39	06/12/18 20:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.1	1.3	1	06/12/18 14:39	06/12/18 20:30	10061-02-6	
Ethylbenzene	ND	ug/kg	7.1	2.2	1	06/12/18 14:39	06/12/18 20:30	100-41-4	
2-Hexanone	ND	ug/kg	14.2	1.1	1	06/12/18 14:39	06/12/18 20:30	591-78-6	~~QL~~
Isopropylbenzene (Cumene)	ND	ug/kg	7.1	2.1	1	06/12/18 14:39	06/12/18 20:30	98-82-8	
Methylene Chloride	ND	ug/kg	7.1	4.6	1	06/12/18 14:39	06/12/18 20:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	14.2	1.5	1	06/12/18 14:39	06/12/18 20:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.1	1.1	1	06/12/18 14:39	06/12/18 20:30	1634-04-4	
Naphthalene	ND	ug/kg	7.1	3.2	1	06/12/18 14:39	06/12/18 20:30	91-20-3	
Styrene	ND	ug/kg	7.1	1.6	1	06/12/18 14:39	06/12/18 20:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.1	1.8	1	06/12/18 14:39	06/12/18 20:30	79-34-5	
Tetrachloroethene	ND	ug/kg	7.1	2.6	1	06/12/18 14:39	06/12/18 20:30	127-18-4	
Toluene	ND	ug/kg	7.1	2.1	1	06/12/18 14:39	06/12/18 20:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	7.1	2.8	1	06/12/18 14:39	06/12/18 20:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.1	2.6	1	06/12/18 14:39	06/12/18 20:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.1	1.2	1	06/12/18 14:39	06/12/18 20:30	79-00-5	
Trichloroethene	ND	ug/kg	7.1	2.8	1	06/12/18 14:39	06/12/18 20:30	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	7.1	1.9	1	06/12/18 14:39	06/12/18 20:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.1	1.9	1	06/12/18 14:39	06/12/18 20:30	108-67-8	
Vinyl chloride	ND	ug/kg	7.1	3.6	1	06/12/18 14:39	06/12/18 20:30	75-01-4	
Xylene (Total)	ND	ug/kg	21.3	6.2	1	06/12/18 14:39	06/12/18 20:30	1330-20-7	
m&p-Xylene	ND	ug/kg	14.2	4.2	1	06/12/18 14:39	06/12/18 20:30	179601-23-1	
o-Xylene	ND	ug/kg	7.1	2.0	1	06/12/18 14:39	06/12/18 20:30	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	76-124		1	06/12/18 14:39	06/12/18 20:30	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-133		1	06/12/18 14:39	06/12/18 20:30	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	74-131		1	06/12/18 14:39	06/12/18 20:30	17060-07-0	
Dibromofluoromethane (S)	94	%	71-130		1	06/12/18 14:39	06/12/18 20:30	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.2**	%	0.10	0.10	1		06/14/18 15:42		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37B **Lab ID: 30255422001** Collected: 06/06/18 14:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**1790**	mg/kg	120	17.8	1	06/12/18 09:01	06/12/18 13:39		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37C **Lab ID: 30255422002** Collected: 06/06/18 14:50 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	21.0	2.0	1	06/11/18 09:44	06/12/18 20:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	21.0	6.8	1	06/11/18 09:44	06/12/18 20:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	21.0	2.8	1	06/11/18 09:44	06/12/18 20:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	21.0	2.5	1	06/11/18 09:44	06/12/18 20:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	21.0	2.0	1	06/11/18 09:44	06/12/18 20:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	21.0	2.3	1	06/11/18 09:44	06/12/18 20:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	21.0	2.0	1	06/11/18 09:44	06/12/18 20:40	11096-82-5	
PCB, Total	ND	ug/kg	189	25.5	1	06/11/18 09:44	06/12/18 20:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	41-99		1	06/11/18 09:44	06/12/18 20:40	877-09-8	
Decachlorobiphenyl (S)	82	%	55-110		1	06/11/18 09:44	06/12/18 20:40	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**6860**	mg/kg	11.5	2.9	1	06/09/18 07:06	06/12/18 13:39	7429-90-5	~~3c,MH~~
Antimony	~~ND~~ UJ	mg/kg	0.69	0.56	1	06/09/18 07:06	06/12/18 13:39	7440-36-0	~~ML~~
Arsenic	**2.1**	mg/kg	0.58	0.55	1	06/09/18 07:06	06/12/18 13:39	7440-38-2	
Barium	**35.8** J	mg/kg	2.3	0.11	1	06/09/18 07:06	06/12/18 13:39	7440-39-3	~~MH~~
Beryllium	**0.38**	mg/kg	0.23	0.035	1	06/09/18 07:06	06/12/18 13:39	7440-41-7	
Boron	ND	mg/kg	5.8	0.20	1	06/09/18 07:06	06/12/18 13:39	7440-42-8	
Cadmium	ND	mg/kg	0.35	0.070	1	06/09/18 07:06	06/12/18 13:39	7440-43-9	
Calcium	**2490**	mg/kg	230	5.6	1	06/09/18 07:06	06/12/18 13:39	7440-70-2	~~MH~~
Chromium	**9.5**	mg/kg	0.58	0.11	1	06/09/18 07:06	06/12/18 13:39	7440-47-3	
Cobalt	**5.8**	mg/kg	1.2	0.12	1	06/09/18 07:06	06/12/18 13:39	7440-48-4	
Copper	**10.1** J	mg/kg	1.2	0.67	1	06/09/18 07:06	06/12/18 13:39	7440-50-8	
Iron	**14000**	mg/kg	11.5	1.3	1	06/09/18 07:06	06/12/18 13:39	7439-89-6	~~MH~~
Lead	**5.2** J	mg/kg	0.58	0.56	1	06/09/18 07:06	06/12/18 13:39	7439-92-1	~~4c~~
Magnesium	**2770**	mg/kg	57.5	6.7	1	06/09/18 07:06	06/12/18 13:39	7439-95-4	~~MH~~
Manganese	**174** J	mg/kg	1.2	0.12	1	06/09/18 07:06	06/12/18 13:39	7439-96-5	~~MH,ML,R1~~
Molybdenum	ND	mg/kg	2.3	0.16	1	06/09/18 07:06	06/12/18 13:39	7439-98-7	
Nickel	**12.6**	mg/kg	2.3	0.29	1	06/09/18 07:06	06/12/18 13:39	7440-02-0	
Potassium	**966** J	mg/kg	57.5	53.0	1	06/09/18 07:06	06/12/18 13:39	7440-09-7	~~MH~~
Selenium	ND	mg/kg	0.92	0.67	1	06/09/18 07:06	06/13/18 07:15	7782-49-2	
Silver	**1.8**	mg/kg	0.69	0.11	1	06/09/18 07:06	06/12/18 13:39	7440-22-4	
Sodium	ND	mg/kg	575	41.9	1	06/09/18 07:06	06/12/18 13:39	7440-23-5	
Thallium	ND	mg/kg	2.3	0.71	1	06/09/18 07:06	06/12/18 13:39	7440-28-0	
Vanadium	**13.4**	mg/kg	1.2	0.094	1	06/09/18 07:06	06/12/18 13:39	7440-62-2	
Zinc	**41.7** J	mg/kg	1.2	0.19	1	06/09/18 07:06	06/12/18 13:39	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	ND	mg/kg	0.13	0.0062	1	06/09/18 06:04	06/11/18 10:35	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	418	15.3	1	06/11/18 19:21	06/12/18 16:08	83-32-9	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37C **Lab ID: 30255422002** Collected: 06/06/18 14:50 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthylene	ND	ug/kg	418	13.6	1	06/11/18 19:21	06/12/18 16:08	208-96-8	
Anthracene	ND	ug/kg	418	13.1	1	06/11/18 19:21	06/12/18 16:08	120-12-7	
Azobenzene	ND	ug/kg	418	14.6	1	06/11/18 19:21	06/12/18 16:08	103-33-3	~~N2~~
Benzo(a)anthracene	ND	ug/kg	418	13.7	1	06/11/18 19:21	06/12/18 16:08	56-55-3	
Benzo(a)pyrene	ND	ug/kg	418	17.3	1	06/11/18 19:21	06/12/18 16:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	418	62.3	1	06/11/18 19:21	06/12/18 16:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	418	60.7	1	06/11/18 19:21	06/12/18 16:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	418	74.4	1	06/11/18 19:21	06/12/18 16:08	207-08-9	
Benzoic acid	ND	ug/kg	1050	575	1	06/11/18 19:21	06/12/18 16:08	65-85-0	~~R1~~
Benzyl alcohol	ND	ug/kg	418	98.2	1	06/11/18 19:21	06/12/18 16:08	100-51-6	~~5c~~
4-Bromophenylphenyl ether	ND	ug/kg	418	42.7	1	06/11/18 19:21	06/12/18 16:08	101-55-3	
Butylbenzylphthalate	ND	ug/kg	418	43.7	1	06/11/18 19:21	06/12/18 16:08	85-68-7	
Carbazole	ND	ug/kg	418	43.1	1	06/11/18 19:21	06/12/18 16:08	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	418	34.8	1	06/11/18 19:21	06/12/18 16:08	59-50-7	
4-Chloroaniline	ND	ug/kg	418	66.1	1	06/11/18 19:21	06/12/18 16:08	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	418	19.2	1	06/11/18 19:21	06/12/18 16:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	418	42.6	1	06/11/18 19:21	06/12/18 16:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	418	13.1	1	06/11/18 19:21	06/12/18 16:08	108-60-1	
2-Chloronaphthalene	ND	ug/kg	418	15.3	1	06/11/18 19:21	06/12/18 16:08	91-58-7	
2-Chlorophenol	ND	ug/kg	418	14.8	1	06/11/18 19:21	06/12/18 16:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	418	61.6	1	06/11/18 19:21	06/12/18 16:08	7005-72-3	
Chrysene	ND	ug/kg	418	113	1	06/11/18 19:21	06/12/18 16:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	418	61.6	1	06/11/18 19:21	06/12/18 16:08	53-70-3	
Dibenzofuran	ND	ug/kg	418	71.1	1	06/11/18 19:21	06/12/18 16:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	418	90.6	1	06/11/18 19:21	06/12/18 16:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	418	59.8	1	06/11/18 19:21	06/12/18 16:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	418	13.3	1	06/11/18 19:21	06/12/18 16:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	418	119	1	06/11/18 19:21	06/12/18 16:08	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	418	14.1	1	06/11/18 19:21	06/12/18 16:08	120-83-2	
Diethylphthalate	ND	ug/kg	418	15.8	1	06/11/18 19:21	06/12/18 16:08	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	418	42.2	1	06/11/18 19:21	06/12/18 16:08	105-67-9	
Dimethylphthalate	ND	ug/kg	418	17.6	1	06/11/18 19:21	06/12/18 16:08	131-11-3	
Di-n-butylphthalate	ND	ug/kg	418	15.3	1	06/11/18 19:21	06/12/18 16:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1050	81.5	1	06/11/18 19:21	06/12/18 16:08	534-52-1	~~RT~~
2,4-Dinitrophenol	ND	ug/kg	1050	399	1	06/11/18 19:21	06/12/18 16:08	51-28-5	~~R1~~
2,4-Dinitrotoluene	ND	ug/kg	418	20.2	1	06/11/18 19:21	06/12/18 16:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	418	51.1	1	06/11/18 19:21	06/12/18 16:08	606-20-2	
Di-n-octylphthalate	ND	ug/kg	418	50.1	1	06/11/18 19:21	06/12/18 16:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	418	81.3	1	06/11/18 19:21	06/12/18 16:08	117-81-7	
Fluoranthene	ND	ug/kg	418	103	1	06/11/18 19:21	06/12/18 16:08	206-44-0	
Fluorene	ND	ug/kg	418	19.1	1	06/11/18 19:21	06/12/18 16:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	418	41.2	1	06/11/18 19:21	06/12/18 16:08	87-68-3	
Hexachlorobenzene	ND	ug/kg	418	46.5	1	06/11/18 19:21	06/12/18 16:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	418	206	1	06/11/18 19:21	06/12/18 16:08	77-47-4	~~R1~~

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37C **Lab ID: 30255422002** Collected: 06/06/18 14:50 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Hexachloroethane	ND	ug/kg	418	23.0	1	06/11/18 19:21	06/12/18 16:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	418	65.6	1	06/11/18 19:21	06/12/18 16:08	193-39-5	
Isophorone	ND	ug/kg	418	35.3	1	06/11/18 19:21	06/12/18 16:08	78-59-1	
1-Methylnaphthalene	ND	ug/kg	418	22.4	1	06/11/18 19:21	06/12/18 16:08	90-12-0	
2-Methylnaphthalene	ND	ug/kg	418	17.2	1	06/11/18 19:21	06/12/18 16:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	418	47.5	1	06/11/18 19:21	06/12/18 16:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	837	13.8	1	06/11/18 19:21	06/12/18 16:08		
Naphthalene	ND	ug/kg	418	131	1	06/11/18 19:21	06/12/18 16:08	91-20-3	
2-Nitroaniline	ND	ug/kg	1050	16.7	1	06/11/18 19:21	06/12/18 16:08	88-74-4	
3-Nitroaniline	ND	ug/kg	1050	105	1	06/11/18 19:21	06/12/18 16:08	99-09-2	
4-Nitroaniline	ND	ug/kg	1050	107	1	06/11/18 19:21	06/12/18 16:08	100-01-6	
Nitrobenzene	ND	ug/kg	418	12.9	1	06/11/18 19:21	06/12/18 16:08	98-95-3	
2-Nitrophenol	ND	ug/kg	418	21.4	1	06/11/18 19:21	06/12/18 16:08	88-75-5	
4-Nitrophenol	ND	ug/kg	418	52.8	1	06/11/18 19:21	06/12/18 16:08	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	418	48.0	1	06/11/18 19:21	06/12/18 16:08	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	418	24.6	1	06/11/18 19:21	06/12/18 16:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	418	61.7	1	06/11/18 19:21	06/12/18 16:08	86-30-6	
Pentachlorophenol	ND	ug/kg	1050	131	1	06/11/18 19:21	06/12/18 16:08	87-86-5	
Phenanthrene	ND	ug/kg	418	13.1	1	06/11/18 19:21	06/12/18 16:08	85-01-8	
Phenol	ND	ug/kg	418	53.3	1	06/11/18 19:21	06/12/18 16:08	108-95-2	
Pyrene	ND	ug/kg	418	51.0	1	06/11/18 19:21	06/12/18 16:08	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	418	54.4	1	06/11/18 19:21	06/12/18 16:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1050	72.7	1	06/11/18 19:21	06/12/18 16:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	418	134	1	06/11/18 19:21	06/12/18 16:08	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	80	%	10-175		1	06/11/18 19:21	06/12/18 16:08	4165-60-0	
2-Fluorobiphenyl (S)	81	%	10-151		1	06/11/18 19:21	06/12/18 16:08	321-60-8	
Terphenyl-d14 (S)	80	%	10-172		1	06/11/18 19:21	06/12/18 16:08	1718-51-0	
Phenol-d6 (S)	83	%	10-142		1	06/11/18 19:21	06/12/18 16:08	13127-88-3	
2-Fluorophenol (S)	101	%	10-138		1	06/11/18 19:21	06/12/18 16:08	367-12-4	
2,4,6-Tribromophenol (S)	79	%	10-144		1	06/11/18 19:21	06/12/18 16:08	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**57.5**	ug/kg	11.7	5.6	1	06/12/18 14:39	06/12/18 20:56	67-64-1	2c
Benzene	ND	ug/kg	5.9	1.7	1	06/12/18 14:39	06/12/18 20:56	71-43-2	
Bromochloromethane	ND	ug/kg	5.9	1.6	1	06/12/18 14:39	06/12/18 20:56	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	0.95	1	06/12/18 14:39	06/12/18 20:56	75-27-4	
Bromoform	ND	ug/kg	5.9	0.93	1	06/12/18 14:39	06/12/18 20:56	75-25-2	
Bromomethane	ND	ug/kg	5.9	3.7	1	06/12/18 14:39	06/12/18 20:56	74-83-9	
TOTAL BTEX	ND	ug/kg	35.2	10.4	1	06/12/18 14:39	06/12/18 20:56		
2-Butanone (MEK)	ND	ug/kg	11.7	3.3	1	06/12/18 14:39	06/12/18 20:56	78-93-3	
Carbon disulfide	ND	ug/kg	5.9	2.4	1	06/12/18 14:39	06/12/18 20:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	2.4	1	06/12/18 14:39	06/12/18 20:56	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1.8	1	06/12/18 14:39	06/12/18 20:56	108-90-7	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37C **Lab ID: 30255422002** Collected: 06/06/18 14:50 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Chloroethane	ND	ug/kg	5.9	2.4	1	06/12/18 14:39	06/12/18 20:56	75-00-3	
Chloroform	ND	ug/kg	5.9	1.6	1	06/12/18 14:39	06/12/18 20:56	67-66-3	
Chloromethane	ND	ug/kg	5.9	2.3	1	06/12/18 14:39	06/12/18 20:56	74-87-3	
Dibromochloromethane	ND	ug/kg	5.9	0.85	1	06/12/18 14:39	06/12/18 20:56	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1.5	1	06/12/18 14:39	06/12/18 20:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1.5	1	06/12/18 14:39	06/12/18 20:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1.4	1	06/12/18 14:39	06/12/18 20:56	106-46-7	
1,1-Dichloroethane	ND	ug/kg	5.9	2.2	1	06/12/18 14:39	06/12/18 20:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	0.96	1	06/12/18 14:39	06/12/18 20:56	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.7	4.7	1	06/12/18 14:39	06/12/18 20:56	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.9	4.0	1	06/12/18 14:39	06/12/18 20:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	2.1	1	06/12/18 14:39	06/12/18 20:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	2.7	1	06/12/18 14:39	06/12/18 20:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	1.2	1	06/12/18 14:39	06/12/18 20:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	0.85	1	06/12/18 14:39	06/12/18 20:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1.1	1	06/12/18 14:39	06/12/18 20:56	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1.8	1	06/12/18 14:39	06/12/18 20:56	100-41-4	
2-Hexanone	ND	ug/kg	11.7	0.94	1	06/12/18 14:39	06/12/18 20:56	591-78-6	~~cr~~
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1.7	1	06/12/18 14:39	06/12/18 20:56	98-82-8	
Methylene Chloride	ND	ug/kg	5.9	3.8	1	06/12/18 14:39	06/12/18 20:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.7	1.2	1	06/12/18 14:39	06/12/18 20:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	0.93	1	06/12/18 14:39	06/12/18 20:56	1634-04-4	
Naphthalene	ND	ug/kg	5.9	2.6	1	06/12/18 14:39	06/12/18 20:56	91-20-3	
Styrene	ND	ug/kg	5.9	1.4	1	06/12/18 14:39	06/12/18 20:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1.5	1	06/12/18 14:39	06/12/18 20:56	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	2.2	1	06/12/18 14:39	06/12/18 20:56	127-18-4	
Toluene	ND	ug/kg	5.9	1.7	1	06/12/18 14:39	06/12/18 20:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	2.3	1	06/12/18 14:39	06/12/18 20:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	2.1	1	06/12/18 14:39	06/12/18 20:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1.0	1	06/12/18 14:39	06/12/18 20:56	79-00-5	
Trichloroethene	ND	ug/kg	5.9	2.3	1	06/12/18 14:39	06/12/18 20:56	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1.5	1	06/12/18 14:39	06/12/18 20:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1.6	1	06/12/18 14:39	06/12/18 20:56	108-67-8	
Vinyl chloride	ND	ug/kg	5.9	3.0	1	06/12/18 14:39	06/12/18 20:56	75-01-4	
Xylene (Total)	ND	ug/kg	17.6	5.2	1	06/12/18 14:39	06/12/18 20:56	1330-20-7	
m&p-Xylene	ND	ug/kg	11.7	3.5	1	06/12/18 14:39	06/12/18 20:56	179601-23-1	
o-Xylene	ND	ug/kg	5.9	1.7	1	06/12/18 14:39	06/12/18 20:56	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	76-124		1	06/12/18 14:39	06/12/18 20:56	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-133		1	06/12/18 14:39	06/12/18 20:56	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	74-131		1	06/12/18 14:39	06/12/18 20:56	17060-07-0	
Dibromofluoromethane (S)	95	%	71-130		1	06/12/18 14:39	06/12/18 20:56	1868-53-7	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

2

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37C **Lab ID: 30255422002** Collected: 06/06/18 14:50 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.0**	%	0.10	0.10	1		06/14/18 15:42		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**378**	mg/kg	252	37.6	1	06/12/18 09:01	06/12/18 13:39		~~8c~~

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

3

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37C DUP **Lab ID: 30255422003** Collected: 06/06/18 14:51 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**68.0**	ug/kg	13.9	6.6	1	06/12/18 14:39	06/12/18 21:23	67-64-1	2c
Benzene	ND	ug/kg	6.9	2.0	1	06/12/18 14:39	06/12/18 21:23	71-43-2	
Bromochloromethane	ND	ug/kg	6.9	1.9	1	06/12/18 14:39	06/12/18 21:23	74-97-5	
Bromodichloromethane	ND	ug/kg	6.9	1.1	1	06/12/18 14:39	06/12/18 21:23	75-27-4	
Bromoform	ND	ug/kg	6.9	1.1	1	06/12/18 14:39	06/12/18 21:23	75-25-2	
Bromomethane	ND	ug/kg	6.9	4.4	1	06/12/18 14:39	06/12/18 21:23	74-83-9	
TOTAL BTEX	ND	ug/kg	41.6	12.2	1	06/12/18 14:39	06/12/18 21:23		
2-Butanone (MEK)	ND	ug/kg	13.9	3.9	1	06/12/18 14:39	06/12/18 21:23	78-93-3	
Carbon disulfide	ND	ug/kg	6.9	2.9	1	06/12/18 14:39	06/12/18 21:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.9	2.8	1	06/12/18 14:39	06/12/18 21:23	56-23-5	
Chlorobenzene	ND	ug/kg	6.9	2.1	1	06/12/18 14:39	06/12/18 21:23	108-90-7	
Chloroethane	ND	ug/kg	6.9	2.8	1	06/12/18 14:39	06/12/18 21:23	75-00-3	
Chloroform	ND	ug/kg	6.9	1.9	1	06/12/18 14:39	06/12/18 21:23	67-66-3	
Chloromethane	ND	ug/kg	6.9	2.8	1	06/12/18 14:39	06/12/18 21:23	74-87-3	
Dibromochloromethane	ND	ug/kg	6.9	1.0	1	06/12/18 14:39	06/12/18 21:23	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	6.9	1.8	1	06/12/18 14:39	06/12/18 21:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.9	1.8	1	06/12/18 14:39	06/12/18 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.9	1.7	1	06/12/18 14:39	06/12/18 21:23	106-46-7	
1,1-Dichloroethane	ND	ug/kg	6.9	2.6	1	06/12/18 14:39	06/12/18 21:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.9	1.1	1	06/12/18 14:39	06/12/18 21:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	13.9	5.6	1	06/12/18 14:39	06/12/18 21:23	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.9	4.7	1	06/12/18 14:39	06/12/18 21:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.9	2.4	1	06/12/18 14:39	06/12/18 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.9	3.1	1	06/12/18 14:39	06/12/18 21:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.9	1.4	1	06/12/18 14:39	06/12/18 21:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.9	1.0	1	06/12/18 14:39	06/12/18 21:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.9	1.3	1	06/12/18 14:39	06/12/18 21:23	10061-02-6	
Ethylbenzene	ND	ug/kg	6.9	2.1	1	06/12/18 14:39	06/12/18 21:23	100-41-4	
2-Hexanone	ND	ug/kg	13.9	1.1	1	06/12/18 14:39	06/12/18 21:23	591-78-6	CL
Isopropylbenzene (Cumene)	ND	ug/kg	6.9	2.0	1	06/12/18 14:39	06/12/18 21:23	98-82-8	
Methylene Chloride	ND	ug/kg	6.9	4.5	1	06/12/18 14:39	06/12/18 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.9	1.4	1	06/12/18 14:39	06/12/18 21:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.9	1.1	1	06/12/18 14:39	06/12/18 21:23	1634-04-4	
Naphthalene	ND	ug/kg	6.9	3.1	1	06/12/18 14:39	06/12/18 21:23	91-20-3	
Styrene	ND	ug/kg	6.9	1.6	1	06/12/18 14:39	06/12/18 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.9	1.7	1	06/12/18 14:39	06/12/18 21:23	79-34-5	
Tetrachloroethene	ND	ug/kg	6.9	2.6	1	06/12/18 14:39	06/12/18 21:23	127-18-4	
Toluene	ND	ug/kg	6.9	2.0	1	06/12/18 14:39	06/12/18 21:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	6.9	2.7	1	06/12/18 14:39	06/12/18 21:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.9	2.5	1	06/12/18 14:39	06/12/18 21:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.9	1.2	1	06/12/18 14:39	06/12/18 21:23	79-00-5	
Trichloroethene	ND	ug/kg	6.9	2.8	1	06/12/18 14:39	06/12/18 21:23	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	6.9	1.8	1	06/12/18 14:39	06/12/18 21:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.9	1.9	1	06/12/18 14:39	06/12/18 21:23	108-67-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-37C DUP **Lab ID: 30255422003** Collected: 06/06/18 14:51 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Vinyl chloride	ND	ug/kg	6.9	3.6	1	06/12/18 14:39	06/12/18 21:23	75-01-4	
Xylene (Total)	ND	ug/kg	20.8	6.1	1	06/12/18 14:39	06/12/18 21:23	1330-20-7	
m&p-Xylene	ND	ug/kg	13.9	4.1	1	06/12/18 14:39	06/12/18 21:23	179601-23-1	
o-Xylene	ND	ug/kg	6.9	2.0	1	06/12/18 14:39	06/12/18 21:23	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%	76-124		1	06/12/18 14:39	06/12/18 21:23	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-133		1	06/12/18 14:39	06/12/18 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	74-131		1	06/12/18 14:39	06/12/18 21:23	17060-07-0	
Dibromofluoromethane (S)	96	%	71-130		1	06/12/18 14:39	06/12/18 21:23	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.7**	%	0.10	0.10	1		06/14/18 15:42		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**404**	mg/kg	261	38.9	1	06/12/18 09:01	06/12/18 13:39		8e

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-40BO **Lab ID: 30255422006** Collected: 06/07/18 08:08 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	190	17.7	10	06/11/18 09:44	06/12/18 21:14	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	190	60.9	10	06/11/18 09:44	06/12/18 21:14	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	190	25.2	10	06/11/18 09:44	06/12/18 21:14	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	190	22.2	10	06/11/18 09:44	06/12/18 21:14	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	190	18.4	10	06/11/18 09:44	06/12/18 21:14	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	190	20.9	10	06/11/18 09:44	06/12/18 21:14	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	190	18.4	10	06/11/18 09:44	06/12/18 21:14	11096-82-5	ED
PCB, Total	ND	ug/kg	1710	230	10	06/11/18 09:44	06/12/18 21:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	41-99		10	06/11/18 09:44	06/12/18 21:14	877-09-8	
Decachlorobiphenyl (S)	94	%	55-110		10	06/11/18 09:44	06/12/18 21:14	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**10000**	mg/kg	10.8	2.7	1	06/09/18 07:06	06/12/18 13:54	7429-90-5	
Antimony	~~ND~~ UJ	mg/kg	0.65	0.52	1	06/09/18 07:06	06/12/18 13:54	7440-36-0	
Arsenic	**7.4**	mg/kg	0.54	0.52	1	06/09/18 07:06	06/12/18 13:54	7440-38-2	
Barium	**114** J	mg/kg	2.2	0.10	1	06/09/18 07:06	06/12/18 13:54	7440-39-3	
Beryllium	**0.56**	mg/kg	0.22	0.033	1	06/09/18 07:06	06/12/18 13:54	7440-41-7	
Boron	ND	mg/kg	5.4	0.19	1	06/09/18 07:06	06/12/18 13:54	7440-42-8	
Cadmium	**0.41**	mg/kg	0.32	0.066	1	06/09/18 07:06	06/12/18 13:54	7440-43-9	
Calcium	**19500**	mg/kg	216	5.2	1	06/09/18 07:06	06/12/18 13:54	7440-70-2	
Chromium	**14.7**	mg/kg	0.54	0.099	1	06/09/18 07:06	06/12/18 13:54	7440-47-3	
Cobalt	**8.1**	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 13:54	7440-48-4	
Copper	**70.0** J	mg/kg	1.1	0.63	1	06/09/18 07:06	06/12/18 13:54	7440-50-8	
Iron	**18300**	mg/kg	10.8	1.3	1	06/09/18 07:06	06/12/18 13:54	7439-89-6	
Lead	**261** J	mg/kg	0.54	0.53	1	06/09/18 07:06	06/12/18 13:54	7439-92-1	
Magnesium	**6330**	mg/kg	54.1	6.3	1	06/09/18 07:06	06/12/18 13:54	7439-95-4	
Manganese	**391** J	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 13:54	7439-96-5	
Molybdenum	ND	mg/kg	2.2	0.15	1	06/09/18 07:06	06/12/18 13:54	7439-98-7	
Nickel	**15.9**	mg/kg	2.2	0.27	1	06/09/18 07:06	06/12/18 13:54	7440-02-0	
Potassium	**1560** J	mg/kg	54.1	49.8	1	06/09/18 07:06	06/12/18 13:54	7440-09-7	
Selenium	**1.6**	mg/kg	0.87	0.63	1	06/09/18 07:06	06/13/18 07:30	7782-49-2	
Silver	**3.1**	mg/kg	0.65	0.10	1	06/09/18 07:06	06/12/18 13:54	7440-22-4	
Sodium	ND	mg/kg	541	39.4	1	06/09/18 07:06	06/12/18 13:54	7440-23-5	
Thallium	ND	mg/kg	2.2	0.66	1	06/09/18 07:06	06/12/18 13:54	7440-28-0	
Vanadium	**22.4**	mg/kg	1.1	0.088	1	06/09/18 07:06	06/12/18 13:54	7440-62-2	
Zinc	**173** J	mg/kg	1.1	0.18	1	06/09/18 07:06	06/12/18 13:54	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**1.3**	mg/kg	0.11	0.0055	1	06/09/18 06:04	06/11/18 10:50	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3880	142	10	06/11/18 19:21	06/12/18 20:15	83-32-9	ED
Acenaphthylene	ND	ug/kg	3880	126	10	06/11/18 19:21	06/12/18 20:15	208-96-8	ED
Anthracene	ND	ug/kg	3880	121	10	06/11/18 19:21	06/12/18 20:15	120-12-7	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-40BO **Lab ID: 30255422006** Collected: 06/07/18 08:08 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	3880	135	10	06/11/18 19:21	06/12/18 20:15	103-33-3	ED,N2
Benzo(a)anthracene	ND	ug/kg	3880	127	10	06/11/18 19:21	06/12/18 20:15	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3880	161	10	06/11/18 19:21	06/12/18 20:15	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3880	578	10	06/11/18 19:21	06/12/18 20:15	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3880	563	10	06/11/18 19:21	06/12/18 20:15	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3880	690	10	06/11/18 19:21	06/12/18 20:15	207-08-9	ED
Benzoic acid	ND	ug/kg	9700	5340	10	06/11/18 19:21	06/12/18 20:15	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3880	911	10	06/11/18 19:21	06/12/18 20:15	100-51-6	5c,ED
4-Bromophenylphenyl ether	ND	ug/kg	3880	396	10	06/11/18 19:21	06/12/18 20:15	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3880	405	10	06/11/18 19:21	06/12/18 20:15	85-68-7	ED
Carbazole	ND	ug/kg	3880	400	10	06/11/18 19:21	06/12/18 20:15	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3880	323	10	06/11/18 19:21	06/12/18 20:15	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3880	613	10	06/11/18 19:21	06/12/18 20:15	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3880	178	10	06/11/18 19:21	06/12/18 20:15	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3880	395	10	06/11/18 19:21	06/12/18 20:15	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3880	121	10	06/11/18 19:21	06/12/18 20:15	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3880	142	10	06/11/18 19:21	06/12/18 20:15	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3880	137	10	06/11/18 19:21	06/12/18 20:15	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3880	571	10	06/11/18 19:21	06/12/18 20:15	7005-72-3	ED
Chrysene	ND	ug/kg	3880	1050	10	06/11/18 19:21	06/12/18 20:15	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3880	571	10	06/11/18 19:21	06/12/18 20:15	53-70-3	ED
Dibenzofuran	ND	ug/kg	3880	659	10	06/11/18 19:21	06/12/18 20:15	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3880	840	10	06/11/18 19:21	06/12/18 20:15	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3880	555	10	06/11/18 19:21	06/12/18 20:15	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3880	123	10	06/11/18 19:21	06/12/18 20:15	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3880	1110	10	06/11/18 19:21	06/12/18 20:15	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3880	130	10	06/11/18 19:21	06/12/18 20:15	120-83-2	ED
Diethylphthalate	ND	ug/kg	3880	147	10	06/11/18 19:21	06/12/18 20:15	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3880	391	10	06/11/18 19:21	06/12/18 20:15	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3880	163	10	06/11/18 19:21	06/12/18 20:15	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3880	142	10	06/11/18 19:21	06/12/18 20:15	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9700	756	10	06/11/18 19:21	06/12/18 20:15	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9700	3700	10	06/11/18 19:21	06/12/18 20:15	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3880	188	10	06/11/18 19:21	06/12/18 20:15	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3880	474	10	06/11/18 19:21	06/12/18 20:15	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3880	465	10	06/11/18 19:21	06/12/18 20:15	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3880	754	10	06/11/18 19:21	06/12/18 20:15	117-81-7	ED
Fluoranthene	ND	ug/kg	3880	959	10	06/11/18 19:21	06/12/18 20:15	206-44-0	ED
Fluorene	ND	ug/kg	3880	177	10	06/11/18 19:21	06/12/18 20:15	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3880	382	10	06/11/18 19:21	06/12/18 20:15	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3880	431	10	06/11/18 19:21	06/12/18 20:15	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3880	1910	10	06/11/18 19:21	06/12/18 20:15	77-47-4	ED
Hexachloroethane	ND	ug/kg	3880	213	10	06/11/18 19:21	06/12/18 20:15	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3880	608	10	06/11/18 19:21	06/12/18 20:15	193-39-5	ED
Isophorone	ND	ug/kg	3880	327	10	06/11/18 19:21	06/12/18 20:15	78-59-1	ED

REPORT OF LABORATORY ANALYSIS

MW 8/7/18

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Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-40BO **Lab ID: 30255422006** Collected: 06/07/18 08:08 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	3880	207	10	06/11/18 19:21	06/12/18 20:15	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3880	160	10	06/11/18 19:21	06/12/18 20:15	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3880	440	10	06/11/18 19:21	06/12/18 20:15	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7760	128	10	06/11/18 19:21	06/12/18 20:15		ED
Naphthalene	ND	ug/kg	3880	1210	10	06/11/18 19:21	06/12/18 20:15	91-20-3	ED
2-Nitroaniline	ND	ug/kg	9700	155	10	06/11/18 19:21	06/12/18 20:15	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9700	972	10	06/11/18 19:21	06/12/18 20:15	99-09-2	ED
4-Nitroaniline	ND	ug/kg	9700	989	10	06/11/18 19:21	06/12/18 20:15	100-01-6	ED
Nitrobenzene	ND	ug/kg	3880	120	10	06/11/18 19:21	06/12/18 20:15	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3880	198	10	06/11/18 19:21	06/12/18 20:15	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3880	489	10	06/11/18 19:21	06/12/18 20:15	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3880	445	10	06/11/18 19:21	06/12/18 20:15	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3880	228	10	06/11/18 19:21	06/12/18 20:15	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3880	572	10	06/11/18 19:21	06/12/18 20:15	86-30-6	ED
Pentachlorophenol	ND	ug/kg	9700	1210	10	06/11/18 19:21	06/12/18 20:15	87-86-5	ED
Phenanthrene	ND	ug/kg	3880	121	10	06/11/18 19:21	06/12/18 20:15	85-01-8	ED
Phenol	ND	ug/kg	3880	494	10	06/11/18 19:21	06/12/18 20:15	108-95-2	ED
Pyrene	ND	ug/kg	3880	473	10	06/11/18 19:21	06/12/18 20:15	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3880	504	10	06/11/18 19:21	06/12/18 20:15	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9700	675	10	06/11/18 19:21	06/12/18 20:15	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3880	1250	10	06/11/18 19:21	06/12/18 20:15	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	74	%	10-175		10	06/11/18 19:21	06/12/18 20:15	4165-60-0	
2-Fluorobiphenyl (S)	80	%	10-151		10	06/11/18 19:21	06/12/18 20:15	321-60-8	
Terphenyl-d14 (S)	83	%	10-172		10	06/11/18 19:21	06/12/18 20:15	1718-51-0	
Phenol-d6 (S)	80	%	10-142		10	06/11/18 19:21	06/12/18 20:15	13127-88-3	
2-Fluorophenol (S)	92	%	10-138		10	06/11/18 19:21	06/12/18 20:15	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-144		10	06/11/18 19:21	06/12/18 20:15	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		06/14/18 15:43		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**493**	mg/kg	235	35.0	1	06/12/18 09:01	06/12/18 13:39		7c

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-40C **Lab ID: 30255422007** Collected: 06/07/18 08:00 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	18.3	1.7	1	06/11/18 09:44	06/12/18 21:22	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	18.3	5.9	1	06/11/18 09:44	06/12/18 21:22	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	18.3	2.4	1	06/11/18 09:44	06/12/18 21:22	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	18.3	2.1	1	06/11/18 09:44	06/12/18 21:22	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	18.3	1.8	1	06/11/18 09:44	06/12/18 21:22	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	18.3	2.0	1	06/11/18 09:44	06/12/18 21:22	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	18.3	1.8	1	06/11/18 09:44	06/12/18 21:22	11096-82-5	
PCB, Total	ND	ug/kg	165	22.2	1	06/11/18 09:44	06/12/18 21:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	41-99		1	06/11/18 09:44	06/12/18 21:22	877-09-8	
Decachlorobiphenyl (S)	87	%	55-110		1	06/11/18 09:44	06/12/18 21:22	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**9310**	mg/kg	10.2	2.6	1	06/09/18 07:06	06/12/18 14:40	7429-90-5	
Antimony	**1.9** J	mg/kg	0.61	0.49	1	06/09/18 07:06	06/12/18 14:40	7440-36-0	
Arsenic	**9.8**	mg/kg	0.51	0.49	1	06/09/18 07:06	06/12/18 14:40	7440-38-2	
Barium	**137** J	mg/kg	2.0	0.096	1	06/09/18 07:06	06/12/18 14:40	7440-39-3	
Beryllium	**1.1**	mg/kg	0.20	0.031	1	06/09/18 07:06	06/12/18 14:40	7440-41-7	
Boron	**7.7**	mg/kg	5.1	0.18	1	06/09/18 07:06	06/12/18 14:40	7440-42-8	
Cadmium	**0.31**	mg/kg	0.31	0.062	1	06/09/18 07:06	06/12/18 14:40	7440-43-9	
Calcium	**10700**	mg/kg	205	5.0	1	06/09/18 07:06	06/12/18 14:40	7440-70-2	
Chromium	**113**	mg/kg	0.51	0.094	1	06/09/18 07:06	06/12/18 14:40	7440-47-3	
Cobalt	**10.6**	mg/kg	1.0	0.11	1	06/09/18 07:06	06/12/18 14:40	7440-48-4	
Copper	**177** J	mg/kg	1.0	0.60	1	06/09/18 07:06	06/12/18 14:40	7440-50-8	
Iron	**39500**	mg/kg	10.2	1.2	1	06/09/18 07:06	06/12/18 14:40	7439-89-6	
Lead	**349** J	mg/kg	0.51	0.50	1	06/09/18 07:06	06/12/18 14:40	7439-92-1	
Magnesium	**3180**	mg/kg	51.2	6.0	1	06/09/18 07:06	06/12/18 14:40	7439-95-4	
Manganese	**514** J	mg/kg	1.0	0.10	1	06/09/18 07:06	06/12/18 14:40	7439-96-5	
Molybdenum	**37.4**	mg/kg	2.0	0.15	1	06/09/18 07:06	06/12/18 14:40	7439-98-7	
Nickel	**79.4**	mg/kg	2.0	0.25	1	06/09/18 07:06	06/12/18 14:40	7440-02-0	
Potassium	**1500** J	mg/kg	51.2	47.2	1	06/09/18 07:06	06/12/18 14:40	7440-09-7	
Selenium	**1.0**	mg/kg	0.82	0.60	1	06/09/18 07:06	06/13/18 07:39	7782-49-2	
Silver	**2.3**	mg/kg	0.61	0.099	1	06/09/18 07:06	06/12/18 14:40	7440-22-4	
Sodium	ND	mg/kg	512	37.3	1	06/09/18 07:06	06/12/18 14:40	7440-23-5	
Thallium	ND	mg/kg	2.0	0.63	1	06/09/18 07:06	06/12/18 14:40	7440-28-0	
Vanadium	**20.8**	mg/kg	1.0	0.083	1	06/09/18 07:06	06/12/18 14:40	7440-62-2	
Zinc	**283** J	mg/kg	1.0	0.17	1	06/09/18 07:06	06/12/18 14:40	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**1.2**	mg/kg	0.10	0.0050	1	06/09/18 06:04	06/11/18 10:52	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	365	13.4	1	06/11/18 19:21	06/12/18 17:16	83-32-9	
Acenaphthylene	ND	ug/kg	365	11.8	1	06/11/18 19:21	06/12/18 17:16	208-96-8	
Anthracene	ND	ug/kg	365	11.4	1	06/11/18 19:21	06/12/18 17:16	120-12-7	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-40C **Lab ID: 30255422007** Collected: 06/07/18 08:00 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	365	12.7	1	06/11/18 19:21	06/12/18 17:16	103-33-3	~~N2~~
Benzo(a)anthracene	ND	ug/kg	365	12.0	1	06/11/18 19:21	06/12/18 17:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	365	15.1	1	06/11/18 19:21	06/12/18 17:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	365	54.4	1	06/11/18 19:21	06/12/18 17:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	365	53.0	1	06/11/18 19:21	06/12/18 17:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	365	64.9	1	06/11/18 19:21	06/12/18 17:16	207-08-9	
Benzoic acid	ND	ug/kg	914	502	1	06/11/18 19:21	06/12/18 17:16	65-85-0	
Benzyl alcohol	ND	ug/kg	365	85.8	1	06/11/18 19:21	06/12/18 17:16	100-51-6	~~5C~~
4-Bromophenylphenyl ether	ND	ug/kg	365	37.3	1	06/11/18 19:21	06/12/18 17:16	101-55-3	
Butylbenzylphthalate	ND	ug/kg	365	38.2	1	06/11/18 19:21	06/12/18 17:16	85-68-7	
Carbazole	ND	ug/kg	365	37.6	1	06/11/18 19:21	06/12/18 17:16	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	365	30.4	1	06/11/18 19:21	06/12/18 17:16	59-50-7	
4-Chloroaniline	ND	ug/kg	365	57.7	1	06/11/18 19:21	06/12/18 17:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	365	16.8	1	06/11/18 19:21	06/12/18 17:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	365	37.2	1	06/11/18 19:21	06/12/18 17:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	365	11.4	1	06/11/18 19:21	06/12/18 17:16	108-60-1	
2-Chloronaphthalene	ND	ug/kg	365	13.4	1	06/11/18 19:21	06/12/18 17:16	91-58-7	
2-Chlorophenol	ND	ug/kg	365	12.9	1	06/11/18 19:21	06/12/18 17:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	365	53.7	1	06/11/18 19:21	06/12/18 17:16	7005-72-3	
Chrysene	ND	ug/kg	365	98.6	1	06/11/18 19:21	06/12/18 17:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	365	53.7	1	06/11/18 19:21	06/12/18 17:16	53-70-3	
Dibenzofuran	ND	ug/kg	365	62.1	1	06/11/18 19:21	06/12/18 17:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	365	79.1	1	06/11/18 19:21	06/12/18 17:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	365	52.2	1	06/11/18 19:21	06/12/18 17:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	365	11.6	1	06/11/18 19:21	06/12/18 17:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	365	104	1	06/11/18 19:21	06/12/18 17:16	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	365	12.3	1	06/11/18 19:21	06/12/18 17:16	120-83-2	
Diethylphthalate	ND	ug/kg	365	13.8	1	06/11/18 19:21	06/12/18 17:16	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	365	36.9	1	06/11/18 19:21	06/12/18 17:16	105-67-9	
Dimethylphthalate	ND	ug/kg	365	15.4	1	06/11/18 19:21	06/12/18 17:16	131-11-3	
Di-n-butylphthalate	ND	ug/kg	365	13.4	1	06/11/18 19:21	06/12/18 17:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	914	71.2	1	06/11/18 19:21	06/12/18 17:16	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	914	349	1	06/11/18 19:21	06/12/18 17:16	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	365	17.7	1	06/11/18 19:21	06/12/18 17:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	365	44.6	1	06/11/18 19:21	06/12/18 17:16	606-20-2	
Di-n-octylphthalate	ND	ug/kg	365	43.8	1	06/11/18 19:21	06/12/18 17:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	365	71.0	1	06/11/18 19:21	06/12/18 17:16	117-81-7	
Fluoranthene	ND	ug/kg	365	90.3	1	06/11/18 19:21	06/12/18 17:16	206-44-0	
Fluorene	ND	ug/kg	365	16.7	1	06/11/18 19:21	06/12/18 17:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	365	36.0	1	06/11/18 19:21	06/12/18 17:16	87-68-3	
Hexachlorobenzene	ND	ug/kg	365	40.6	1	06/11/18 19:21	06/12/18 17:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	365	180	1	06/11/18 19:21	06/12/18 17:16	77-47-4	
Hexachloroethane	ND	ug/kg	365	20.1	1	06/11/18 19:21	06/12/18 17:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	365	57.3	1	06/11/18 19:21	06/12/18 17:16	193-39-5	
Isophorone	ND	ug/kg	365	30.8	1	06/11/18 19:21	06/12/18 17:16	78-59-1	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-40C **Lab ID: 30255422007** Collected: 06/07/18 08:00 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	365	19.5	1	06/11/18 19:21	06/12/18 17:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	365	15.0	1	06/11/18 19:21	06/12/18 17:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	365	41.5	1	06/11/18 19:21	06/12/18 17:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	731	12.1	1	06/11/18 19:21	06/12/18 17:16		
Naphthalene	ND	ug/kg	365	114	1	06/11/18 19:21	06/12/18 17:16	91-20-3	
2-Nitroaniline	ND	ug/kg	914	14.6	1	06/11/18 19:21	06/12/18 17:16	88-74-4	
3-Nitroaniline	ND	ug/kg	914	91.5	1	06/11/18 19:21	06/12/18 17:16	99-09-2	
4-Nitroaniline	ND	ug/kg	914	93.1	1	06/11/18 19:21	06/12/18 17:16	100-01-6	
Nitrobenzene	ND	ug/kg	365	11.3	1	06/11/18 19:21	06/12/18 17:16	98-95-3	
2-Nitrophenol	ND	ug/kg	365	18.6	1	06/11/18 19:21	06/12/18 17:16	88-75-5	
4-Nitrophenol	ND	ug/kg	365	46.1	1	06/11/18 19:21	06/12/18 17:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	365	41.9	1	06/11/18 19:21	06/12/18 17:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	365	21.5	1	06/11/18 19:21	06/12/18 17:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	365	53.9	1	06/11/18 19:21	06/12/18 17:16	86-30-6	
Pentachlorophenol	ND	ug/kg	914	114	1	06/11/18 19:21	06/12/18 17:16	87-86-5	
Phenanthrene	ND	ug/kg	365	11.4	1	06/11/18 19:21	06/12/18 17:16	85-01-8	
Phenol	ND	ug/kg	365	46.5	1	06/11/18 19:21	06/12/18 17:16	108-95-2	
Pyrene	ND	ug/kg	365	44.5	1	06/11/18 19:21	06/12/18 17:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	365	47.5	1	06/11/18 19:21	06/12/18 17:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	914	63.5	1	06/11/18 19:21	06/12/18 17:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	365	117	1	06/11/18 19:21	06/12/18 17:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%	10-175		1	06/11/18 19:21	06/12/18 17:16	4165-60-0	
2-Fluorobiphenyl (S)	80	%	10-151		1	06/11/18 19:21	06/12/18 17:16	321-60-8	
Terphenyl-d14 (S)	84	%	10-172		1	06/11/18 19:21	06/12/18 17:16	1718-51-0	
Phenol-d6 (S)	86	%	10-142		1	06/11/18 19:21	06/12/18 17:16	13127-88-3	
2-Fluorophenol (S)	105	%	10-138		1	06/11/18 19:21	06/12/18 17:16	367-12-4	
2,4,6-Tribromophenol (S)	80	%	10-144		1	06/11/18 19:21	06/12/18 17:16	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.6**	%	0.10	0.10	1		06/14/18 15:43		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**475**	mg/kg	221	33.0	1	06/12/18 09:01	06/12/18 13:39		~~7e~~

REPORT OF LABORATORY ANALYSIS

NJ 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38B **Lab ID: 30255422008** Collected: 06/07/18 08:33 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	187	17.4	10	06/11/18 09:44	06/12/18 21:39	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	187	60.1	10	06/11/18 09:44	06/12/18 21:39	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	187	24.9	10	06/11/18 09:44	06/12/18 21:39	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	187	21.9	10	06/11/18 09:44	06/12/18 21:39	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	187	18.2	10	06/11/18 09:44	06/12/18 21:39	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	187	20.6	10	06/11/18 09:44	06/12/18 21:39	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	187	18.1	10	06/11/18 09:44	06/12/18 21:39	11096-82-5	ED
PCB, Total	ND	ug/kg	1680	227	10	06/11/18 09:44	06/12/18 21:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	41-99		10	06/11/18 09:44	06/12/18 21:39	877-09-8	
Decachlorobiphenyl (S)	103	%	55-110		10	06/11/18 09:44	06/12/18 21:39	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**10900**	mg/kg	10.1	2.5	1	06/09/18 07:06	06/12/18 14:04	7429-90-5	
Antimony	**0.98** J	mg/kg	0.61	0.49	1	06/09/18 07:06	06/12/18 14:04	7440-36-0	
Arsenic	**10.5**	mg/kg	0.51	0.49	1	06/09/18 07:06	06/12/18 14:04	7440-38-2	
Barium	**150** J	mg/kg	2.0	0.095	1	06/09/18 07:06	06/12/18 14:04	7440-39-3	
Beryllium	**0.95**	mg/kg	0.20	0.031	1	06/09/18 07:06	06/12/18 14:04	7440-41-7	
Boron	**7.0**	mg/kg	5.1	0.18	1	06/09/18 07:06	06/12/18 14:04	7440-42-8	
Cadmium	**0.66**	mg/kg	0.30	0.061	1	06/09/18 07:06	06/12/18 14:04	7440-43-9	
Calcium	**18700**	mg/kg	202	4.9	1	06/09/18 07:06	06/12/18 14:04	7440-70-2	
Chromium	**31.8**	mg/kg	0.51	0.093	1	06/09/18 07:06	06/12/18 14:04	7440-47-3	
Cobalt	**13.5**	mg/kg	1.0	0.11	1	06/09/18 07:06	06/12/18 14:04	7440-48-4	
Copper	**158** J	mg/kg	1.0	0.59	1	06/09/18 07:06	06/12/18 14:04	7440-50-8	
Iron	**37400**	mg/kg	10.1	1.2	1	06/09/18 07:06	06/12/18 14:04	7439-89-6	
Lead	**344** J	mg/kg	0.51	0.50	1	06/09/18 07:06	06/12/18 14:04	7439-92-1	
Magnesium	**4880**	mg/kg	50.6	5.9	1	06/09/18 07:06	06/12/18 14:04	7439-95-4	
Manganese	**566** J	mg/kg	1.0	0.10	1	06/09/18 07:06	06/12/18 14:04	7439-96-5	
Molybdenum	**3.4**	mg/kg	2.0	0.14	1	06/09/18 07:06	06/12/18 14:04	7439-98-7	
Nickel	**158**	mg/kg	2.0	0.25	1	06/09/18 07:06	06/12/18 14:04	7440-02-0	
Potassium	**1570** J	mg/kg	50.6	46.6	1	06/09/18 07:06	06/12/18 14:04	7440-09-7	
Selenium	**2.0**	mg/kg	0.81	0.59	1	06/09/18 07:06	06/13/18 07:42	7782-49-2	
Silver	**1.4**	mg/kg	0.61	0.098	1	06/09/18 07:06	06/12/18 14:04	7440-22-4	
Sodium	ND	mg/kg	506	36.9	1	06/09/18 07:06	06/12/18 14:04	7440-23-5	
Thallium	ND	mg/kg	2.0	0.62	1	06/09/18 07:06	06/12/18 14:04	7440-28-0	
Vanadium	**928**	mg/kg	1.0	0.082	1	06/09/18 07:06	06/12/18 14:04	7440-62-2	
Zinc	**414** J	mg/kg	1.0	0.17	1	06/09/18 07:06	06/12/18 14:04	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.77**	mg/kg	0.11	0.0054	1	06/09/18 06:04	06/11/18 10:54	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3750	137	10	06/11/18 19:21	06/12/18 17:38	83-32-9	ED
Acenaphthylene	ND	ug/kg	3750	122	10	06/11/18 19:21	06/12/18 17:38	208-96-8	ED

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38B **Lab ID: 30255422008** Collected: 06/07/18 08:33 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Anthracene	ND	ug/kg	3750	117	10	06/11/18 19:21	06/12/18 17:38	120-12-7	ED
Azobenzene	ND	ug/kg	3750	131	10	06/11/18 19:21	06/12/18 17:38	103-33-3	ED, N2
Benzo(a)anthracene	ND	ug/kg	3750	123	10	06/11/18 19:21	06/12/18 17:38	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3750	155	10	06/11/18 19:21	06/12/18 17:38	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3750	558	10	06/11/18 19:21	06/12/18 17:38	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3750	544	10	06/11/18 19:21	06/12/18 17:38	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3750	666	10	06/11/18 19:21	06/12/18 17:38	207-08-9	ED
Benzoic acid	ND	ug/kg	9380	5150	10	06/11/18 19:21	06/12/18 17:38	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3750	880	10	06/11/18 19:21	06/12/18 17:38	100-51-6	56, ED
4-Bromophenylphenyl ether	ND	ug/kg	3750	383	10	06/11/18 19:21	06/12/18 17:38	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3750	392	10	06/11/18 19:21	06/12/18 17:38	85-68-7	ED
Carbazole	ND	ug/kg	3750	386	10	06/11/18 19:21	06/12/18 17:38	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3750	312	10	06/11/18 19:21	06/12/18 17:38	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3750	592	10	06/11/18 19:21	06/12/18 17:38	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3750	172	10	06/11/18 19:21	06/12/18 17:38	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3750	382	10	06/11/18 19:21	06/12/18 17:38	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3750	117	10	06/11/18 19:21	06/12/18 17:38	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3750	137	10	06/11/18 19:21	06/12/18 17:38	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3750	133	10	06/11/18 19:21	06/12/18 17:38	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3750	551	10	06/11/18 19:21	06/12/18 17:38	7005-72-3	ED
Chrysene	ND	ug/kg	3750	1010	10	06/11/18 19:21	06/12/18 17:38	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3750	551	10	06/11/18 19:21	06/12/18 17:38	53-70-3	ED
Dibenzofuran	ND	ug/kg	3750	637	10	06/11/18 19:21	06/12/18 17:38	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3750	811	10	06/11/18 19:21	06/12/18 17:38	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3750	536	10	06/11/18 19:21	06/12/18 17:38	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3750	119	10	06/11/18 19:21	06/12/18 17:38	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3750	1070	10	06/11/18 19:21	06/12/18 17:38	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3750	126	10	06/11/18 19:21	06/12/18 17:38	120-83-2	ED
Diethylphthalate	ND	ug/kg	3750	142	10	06/11/18 19:21	06/12/18 17:38	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3750	378	10	06/11/18 19:21	06/12/18 17:38	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3750	158	10	06/11/18 19:21	06/12/18 17:38	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3750	137	10	06/11/18 19:21	06/12/18 17:38	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9380	730	10	06/11/18 19:21	06/12/18 17:38	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9380	3580	10	06/11/18 19:21	06/12/18 17:38	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3750	181	10	06/11/18 19:21	06/12/18 17:38	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3750	458	10	06/11/18 19:21	06/12/18 17:38	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3750	449	10	06/11/18 19:21	06/12/18 17:38	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3750	728	10	06/11/18 19:21	06/12/18 17:38	117-81-7	ED
Fluoranthene	ND	ug/kg	3750	926	10	06/11/18 19:21	06/12/18 17:38	206-44-0	ED
Fluorene	ND	ug/kg	3750	171	10	06/11/18 19:21	06/12/18 17:38	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3750	369	10	06/11/18 19:21	06/12/18 17:38	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3750	416	10	06/11/18 19:21	06/12/18 17:38	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3750	1850	10	06/11/18 19:21	06/12/18 17:38	77-47-4	ED
Hexachloroethane	ND	ug/kg	3750	206	10	06/11/18 19:21	06/12/18 17:38	67-72-1	ED

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38B **Lab ID: 30255422008** Collected: 06/07/18 08:33 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3750	587	10	06/11/18 19:21	06/12/18 17:38	193-39-5	ED
Isophorone	ND	ug/kg	3750	316	10	06/11/18 19:21	06/12/18 17:38	78-59-1	ED
1-Methylnaphthalene	ND	ug/kg	3750	200	10	06/11/18 19:21	06/12/18 17:38	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3750	154	10	06/11/18 19:21	06/12/18 17:38	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3750	425	10	06/11/18 19:21	06/12/18 17:38	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7500	124	10	06/11/18 19:21	06/12/18 17:38		ED
Naphthalene	ND	ug/kg	3750	1170	10	06/11/18 19:21	06/12/18 17:38	91-20-3	ED
2-Nitroaniline	ND	ug/kg	9380	150	10	06/11/18 19:21	06/12/18 17:38	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9380	939	10	06/11/18 19:21	06/12/18 17:38	99-09-2	ED
4-Nitroaniline	ND	ug/kg	9380	956	10	06/11/18 19:21	06/12/18 17:38	100-01-6	ED
Nitrobenzene	ND	ug/kg	3750	116	10	06/11/18 19:21	06/12/18 17:38	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3750	191	10	06/11/18 19:21	06/12/18 17:38	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3750	473	10	06/11/18 19:21	06/12/18 17:38	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3750	430	10	06/11/18 19:21	06/12/18 17:38	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3750	221	10	06/11/18 19:21	06/12/18 17:38	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3750	553	10	06/11/18 19:21	06/12/18 17:38	86-30-6	ED
Pentachlorophenol	ND	ug/kg	9380	1170	10	06/11/18 19:21	06/12/18 17:38	87-86-5	ED
Phenanthrene	ND	ug/kg	3750	117	10	06/11/18 19:21	06/12/18 17:38	85-01-8	ED
Phenol	ND	ug/kg	3750	477	10	06/11/18 19:21	06/12/18 17:38	108-95-2	ED
Pyrene	ND	ug/kg	3750	457	10	06/11/18 19:21	06/12/18 17:38	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3750	487	10	06/11/18 19:21	06/12/18 17:38	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9380	652	10	06/11/18 19:21	06/12/18 17:38	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3750	1200	10	06/11/18 19:21	06/12/18 17:38	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	71	%	10-175		10	06/11/18 19:21	06/12/18 17:38	4165-60-0	
2-Fluorobiphenyl (S)	81	%	10-151		10	06/11/18 19:21	06/12/18 17:38	321-60-8	
Terphenyl-d14 (S)	78	%	10-172		10	06/11/18 19:21	06/12/18 17:38	1718-51-0	
Phenol-d6 (S)	78	%	10-142		10	06/11/18 19:21	06/12/18 17:38	13127-88-3	
2-Fluorophenol (S)	94	%	10-138		10	06/11/18 19:21	06/12/18 17:38	367-12-4	
2,4,6-Tribromophenol (S)	59	%	10-144		10	06/11/18 19:21	06/12/18 17:38	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**60.6** J	ug/kg	11.3	5.4	1	06/12/18 14:39	06/12/18 21:49	67-64-1	~~2c,MH, ML,R1~~
Benzene	ND	ug/kg	5.7	1.6	1	06/12/18 14:39	06/12/18 21:49	71-43-2	R1
Bromochloromethane	ND	ug/kg	5.7	1.5	1	06/12/18 14:39	06/12/18 21:49	74-97-5	R1
Bromodichloromethane	~~ND~~ UJ	ug/kg	5.7	0.92	1	06/12/18 14:39	06/12/18 21:49	75-27-4	~~ML,R1~~
Bromoform	ND	ug/kg	5.7	0.89	1	06/12/18 14:39	06/12/18 21:49	75-25-2	
Bromomethane	ND	ug/kg	5.7	3.6	1	06/12/18 14:39	06/12/18 21:49	74-83-9	R1
TOTAL BTEX	ND	ug/kg	33.9	10	1	06/12/18 14:39	06/12/18 21:49		RS
2-Butanone (MEK)	**11.4**	ug/kg	11.3	3.2	1	06/12/18 14:39	06/12/18 21:49	78-93-3	R1
Carbon disulfide	ND	ug/kg	5.7	2.3	1	06/12/18 14:39	06/12/18 21:49	75-15-0	R1
Carbon tetrachloride	ND	ug/kg	5.7	2.3	1	06/12/18 14:39	06/12/18 21:49	56-23-5	R1
Chlorobenzene	ND	ug/kg	5.7	1.7	1	06/12/18 14:39	06/12/18 21:49	108-90-7	R1
Chloroethane	ND	ug/kg	5.7	2.3	1	06/12/18 14:39	06/12/18 21:49	75-00-3	R1

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38B **Lab ID: 30255422008** Collected: 06/07/18 08:33 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Chloroform	ND	ug/kg	5.7	1.5	1	06/12/18 14:39	06/12/18 21:49	67-66-3	R1
Chloromethane	ND	ug/kg	5.7	2.3	1	06/12/18 14:39	06/12/18 21:49	74-87-3	R1
Dibromochloromethane	ND UJ	ug/kg	5.7	0.81	1	06/12/18 14:39	06/12/18 21:49	124-48-1	ML,R1
1,2-Dichlorobenzene	ND	ug/kg	5.7	1.4	1	06/12/18 14:39	06/12/18 21:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1.5	1	06/12/18 14:39	06/12/18 21:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1.4	1	06/12/18 14:39	06/12/18 21:49	106-46-7	
1,1-Dichloroethane	ND	ug/kg	5.7	2.1	1	06/12/18 14:39	06/12/18 21:49	75-34-3	R1
1,2-Dichloroethane	ND	ug/kg	5.7	0.93	1	06/12/18 14:39	06/12/18 21:49	107-06-2	R1
1,2-Dichloroethene (Total)	ND	ug/kg	11.3	4.5	1	06/12/18 14:39	06/12/18 21:49	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.7	3.8	1	06/12/18 14:39	06/12/18 21:49	75-35-4	R1
cis-1,2-Dichloroethene	ND	ug/kg	5.7	2.0	1	06/12/18 14:39	06/12/18 21:49	156-59-2	R1
trans-1,2-Dichloroethene	ND	ug/kg	5.7	2.6	1	06/12/18 14:39	06/12/18 21:49	156-60-5	R1
1,2-Dichloropropane	ND	ug/kg	5.7	1.1	1	06/12/18 14:39	06/12/18 21:49	78-87-5	R1
cis-1,3-Dichloropropene	ND UJ	ug/kg	5.7	0.81	1	06/12/18 14:39	06/12/18 21:49	10061-01-5	ML
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1.0	1	06/12/18 14:39	06/12/18 21:49	10061-02-6	
Ethylbenzene	ND	ug/kg	5.7	1.7	1	06/12/18 14:39	06/12/18 21:49	100-41-4	R1
2-Hexanone	ND	ug/kg	11.3	0.91	1	06/12/18 14:39	06/12/18 21:49	591-78-6	CL
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1.6	1	06/12/18 14:39	06/12/18 21:49	98-82-8	R1
Methylene Chloride	ND	ug/kg	5.7	3.7	1	06/12/18 14:39	06/12/18 21:49	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.3	1.2	1	06/12/18 14:39	06/12/18 21:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	0.89	1	06/12/18 14:39	06/12/18 21:49	1634-04-4	R1
Naphthalene	ND	ug/kg	5.7	2.5	1	06/12/18 14:39	06/12/18 21:49	91-20-3	
Styrene	ND	ug/kg	5.7	1.3	1	06/12/18 14:39	06/12/18 21:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.4	1	06/12/18 14:39	06/12/18 21:49	79-34-5	R1
Tetrachloroethene	ND	ug/kg	5.7	2.1	1	06/12/18 14:39	06/12/18 21:49	127-18-4	R1
Toluene	ND	ug/kg	5.7	1.6	1	06/12/18 14:39	06/12/18 21:49	108-88-3	R1
1,2,4-Trichlorobenzene	ND UJ	ug/kg	5.7	2.2	1	06/12/18 14:39	06/12/18 21:49	120-82-1	ML
1,1,1-Trichloroethane	ND	ug/kg	5.7	2.1	1	06/12/18 14:39	06/12/18 21:49	71-55-6	R1
1,1,2-Trichloroethane	ND	ug/kg	5.7	0.98	1	06/12/18 14:39	06/12/18 21:49	79-00-5	R1
Trichloroethene	ND	ug/kg	5.7	2.3	1	06/12/18 14:39	06/12/18 21:49	79-01-6	R1
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1.5	1	06/12/18 14:39	06/12/18 21:49	95-63-6	R1
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1.5	1	06/12/18 14:39	06/12/18 21:49	108-67-8	R1
Vinyl chloride	ND	ug/kg	5.7	2.9	1	06/12/18 14:39	06/12/18 21:49	75-01-4	R1
Xylene (Total)	ND	ug/kg	17.0	5.0	1	06/12/18 14:39	06/12/18 21:49	1330-20-7	RS
m&p-Xylene	ND	ug/kg	11.3	3.4	1	06/12/18 14:39	06/12/18 21:49	179601-23-1	R1
o-Xylene	ND	ug/kg	5.7	1.6	1	06/12/18 14:39	06/12/18 21:49	95-47-6	R1
Surrogates									
Toluene-d8 (S)	98	%	76-124		1	06/12/18 14:39	06/12/18 21:49	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-133		1	06/12/18 14:39	06/12/18 21:49	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	74-131		1	06/12/18 14:39	06/12/18 21:49	17060-07-0	
Dibromofluoromethane (S)	95	%	71-130		1	06/12/18 14:39	06/12/18 21:49	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.3**	%	0.10	0.10	1		06/14/18 15:43		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38C **Lab ID: 30255422009** Collected: 06/07/18 08:55 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	20.1	1.9	1	06/11/18 09:44	06/12/18 21:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	20.1	6.4	1	06/11/18 09:44	06/12/18 21:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	20.1	2.7	1	06/11/18 09:44	06/12/18 21:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	20.1	2.4	1	06/11/18 09:44	06/12/18 21:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	20.1	2.0	1	06/11/18 09:44	06/12/18 21:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	20.1	2.2	1	06/11/18 09:44	06/12/18 21:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	20.1	1.9	1	06/11/18 09:44	06/12/18 21:48	11096-82-5	
PCB, Total	ND	ug/kg	181	24.3	1	06/11/18 09:44	06/12/18 21:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	41-99		1	06/11/18 09:44	06/12/18 21:48	877-09-8	
Decachlorobiphenyl (S)	97	%	55-110		1	06/11/18 09:44	06/12/18 21:48	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**7960**	mg/kg	11.2	2.8	1	06/09/18 07:06	06/12/18 14:06	7429-90-5	
Antimony	ND U J	mg/kg	0.67	0.54	1	06/09/18 07:06	06/12/18 14:06	7440-36-0	
Arsenic	**2.3**	mg/kg	0.56	0.54	1	06/09/18 07:06	06/12/18 14:06	7440-38-2	
Barium	**49.7** J	mg/kg	2.2	0.11	1	06/09/18 07:06	06/12/18 14:06	7440-39-3	
Beryllium	**0.41**	mg/kg	0.22	0.034	1	06/09/18 07:06	06/12/18 14:06	7440-41-7	
Boron	ND	mg/kg	5.6	0.20	1	06/09/18 07:06	06/12/18 14:06	7440-42-8	
Cadmium	ND	mg/kg	0.34	0.068	1	06/09/18 07:06	06/12/18 14:06	7440-43-9	
Calcium	**4640**	mg/kg	224	5.4	1	06/09/18 07:06	06/12/18 14:06	7440-70-2	
Chromium	**16.6**	mg/kg	0.56	0.10	1	06/09/18 07:06	06/12/18 14:06	7440-47-3	
Cobalt	**7.8**	mg/kg	1.1	0.12	1	06/09/18 07:06	06/12/18 14:06	7440-48-4	
Copper	**14.8** J	mg/kg	1.1	0.65	1	06/09/18 07:06	06/12/18 14:06	7440-50-8	
Iron	**14800**	mg/kg	11.2	1.3	1	06/09/18 07:06	06/12/18 14:06	7439-89-6	
Lead	**8.3** J	mg/kg	0.56	0.55	1	06/09/18 07:06	06/12/18 14:06	7439-92-1	
Magnesium	**4140**	mg/kg	56.0	6.5	1	06/09/18 07:06	06/12/18 14:06	7439-95-4	
Manganese	**147** J	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 14:06	7439-96-5	
Molybdenum	**2.3**	mg/kg	2.2	0.16	1	06/09/18 07:06	06/12/18 14:06	7439-98-7	
Nickel	**16.1**	mg/kg	2.2	0.28	1	06/09/18 07:06	06/12/18 14:06	7440-02-0	
Potassium	**1040** J	mg/kg	56.0	51.6	1	06/09/18 07:06	06/12/18 14:06	7440-09-7	
Selenium	**1.6**	mg/kg	0.90	0.65	1	06/09/18 07:06	06/13/18 07:44	7782-49-2	
Silver	**1.6**	mg/kg	0.67	0.11	1	06/09/18 07:06	06/12/18 14:06	7440-22-4	
Sodium	ND	mg/kg	560	40.8	1	06/09/18 07:06	06/12/18 14:06	7440-23-5	
Thallium	ND	mg/kg	2.2	0.69	1	06/09/18 07:06	06/12/18 14:06	7440-28-0	
Vanadium	**16.9**	mg/kg	1.1	0.091	1	06/09/18 07:06	06/12/18 14:06	7440-62-2	
Zinc	**47.1** J	mg/kg	1.1	0.19	1	06/09/18 07:06	06/12/18 14:06	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.33**	mg/kg	0.12	0.0058	1	06/09/18 06:04	06/11/18 10:55	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	406	14.9	1	06/11/18 19:21	06/12/18 18:01	83-32-9	
Acenaphthylene	ND	ug/kg	406	13.2	1	06/11/18 19:21	06/12/18 18:01	208-96-8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38C **Lab ID: 30255422009** Collected: 06/07/18 08:55 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Anthracene	ND	ug/kg	406	12.7	1	06/11/18 19:21	06/12/18 18:01	120-12-7	
Azobenzene	ND	ug/kg	406	14.2	1	06/11/18 19:21	06/12/18 18:01	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	406	13.3	1	06/11/18 19:21	06/12/18 18:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	406	16.8	1	06/11/18 19:21	06/12/18 18:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	406	60.5	1	06/11/18 19:21	06/12/18 18:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	406	58.9	1	06/11/18 19:21	06/12/18 18:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	406	72.2	1	06/11/18 19:21	06/12/18 18:01	207-08-9	
Benzoic acid	ND	ug/kg	1020	559	1	06/11/18 19:21	06/12/18 18:01	65-85-0	
Benzyl alcohol	ND	ug/kg	406	95.4	1	06/11/18 19:21	06/12/18 18:01	100-51-6	5c
4-Bromophenylphenyl ether	ND	ug/kg	406	41.5	1	06/11/18 19:21	06/12/18 18:01	101-55-3	
Butylbenzylphthalate	ND	ug/kg	406	42.5	1	06/11/18 19:21	06/12/18 18:01	85-68-7	
Carbazole	ND	ug/kg	406	41.9	1	06/11/18 19:21	06/12/18 18:01	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	406	33.8	1	06/11/18 19:21	06/12/18 18:01	59-50-7	
4-Chloroaniline	ND	ug/kg	406	64.2	1	06/11/18 19:21	06/12/18 18:01	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	406	18.7	1	06/11/18 19:21	06/12/18 18:01	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	406	41.4	1	06/11/18 19:21	06/12/18 18:01	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	406	12.7	1	06/11/18 19:21	06/12/18 18:01	108-60-1	
2-Chloronaphthalene	ND	ug/kg	406	14.9	1	06/11/18 19:21	06/12/18 18:01	91-58-7	
2-Chlorophenol	ND	ug/kg	406	14.4	1	06/11/18 19:21	06/12/18 18:01	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	406	59.8	1	06/11/18 19:21	06/12/18 18:01	7005-72-3	
Chrysene	ND	ug/kg	406	110	1	06/11/18 19:21	06/12/18 18:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	406	59.8	1	06/11/18 19:21	06/12/18 18:01	53-70-3	
Dibenzofuran	ND	ug/kg	406	69.1	1	06/11/18 19:21	06/12/18 18:01	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	406	88.0	1	06/11/18 19:21	06/12/18 18:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	406	58.1	1	06/11/18 19:21	06/12/18 18:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	406	12.9	1	06/11/18 19:21	06/12/18 18:01	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	406	116	1	06/11/18 19:21	06/12/18 18:01	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	406	13.7	1	06/11/18 19:21	06/12/18 18:01	120-83-2	
Diethylphthalate	ND	ug/kg	406	15.4	1	06/11/18 19:21	06/12/18 18:01	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	406	41.0	1	06/11/18 19:21	06/12/18 18:01	105-67-9	
Dimethylphthalate	ND	ug/kg	406	17.1	1	06/11/18 19:21	06/12/18 18:01	131-11-3	
Di-n-butylphthalate	ND	ug/kg	406	14.9	1	06/11/18 19:21	06/12/18 18:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1020	79.2	1	06/11/18 19:21	06/12/18 18:01	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1020	388	1	06/11/18 19:21	06/12/18 18:01	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	406	19.6	1	06/11/18 19:21	06/12/18 18:01	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	406	49.7	1	06/11/18 19:21	06/12/18 18:01	606-20-2	
Di-n-octylphthalate	ND	ug/kg	406	48.7	1	06/11/18 19:21	06/12/18 18:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	406	79.0	1	06/11/18 19:21	06/12/18 18:01	117-81-7	
Fluoranthene	**446**	ug/kg	406	100	1	06/11/18 19:21	06/12/18 18:01	206-44-0	
Fluorene	ND	ug/kg	406	18.5	1	06/11/18 19:21	06/12/18 18:01	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	406	40.0	1	06/11/18 19:21	06/12/18 18:01	87-68-3	
Hexachlorobenzene	ND	ug/kg	406	45.2	1	06/11/18 19:21	06/12/18 18:01	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	406	200	1	06/11/18 19:21	06/12/18 18:01	77-47-4	
Hexachloroethane	ND	ug/kg	406	22.3	1	06/11/18 19:21	06/12/18 18:01	67-72-1	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38C **Lab ID: 30255422009** Collected: 06/07/18 08:55 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Indeno(1,2,3-cd)pyrene	ND	ug/kg	406	63.7	1	06/11/18 19:21	06/12/18 18:01	193-39-5	
Isophorone	ND	ug/kg	406	34.3	1	06/11/18 19:21	06/12/18 18:01	78-59-1	
1-Methylnaphthalene	ND	ug/kg	406	21.7	1	06/11/18 19:21	06/12/18 18:01	90-12-0	
2-Methylnaphthalene	ND	ug/kg	406	16.7	1	06/11/18 19:21	06/12/18 18:01	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	406	46.1	1	06/11/18 19:21	06/12/18 18:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	813	13.4	1	06/11/18 19:21	06/12/18 18:01		
Naphthalene	ND	ug/kg	406	127	1	06/11/18 19:21	06/12/18 18:01	91-20-3	
2-Nitroaniline	ND	ug/kg	1020	16.2	1	06/11/18 19:21	06/12/18 18:01	88-74-4	
3-Nitroaniline	ND	ug/kg	1020	102	1	06/11/18 19:21	06/12/18 18:01	99-09-2	
4-Nitroaniline	ND	ug/kg	1020	104	1	06/11/18 19:21	06/12/18 18:01	100-01-6	
Nitrobenzene	ND	ug/kg	406	12.6	1	06/11/18 19:21	06/12/18 18:01	98-95-3	
2-Nitrophenol	ND	ug/kg	406	20.7	1	06/11/18 19:21	06/12/18 18:01	88-75-5	
4-Nitrophenol	ND	ug/kg	406	51.3	1	06/11/18 19:21	06/12/18 18:01	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	406	46.6	1	06/11/18 19:21	06/12/18 18:01	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	406	23.9	1	06/11/18 19:21	06/12/18 18:01	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	406	59.9	1	06/11/18 19:21	06/12/18 18:01	86-30-6	
Pentachlorophenol	ND	ug/kg	1020	127	1	06/11/18 19:21	06/12/18 18:01	87-86-5	
Phenanthrene	**407**	ug/kg	406	12.7	1	06/11/18 19:21	06/12/18 18:01	85-01-8	
Phenol	ND	ug/kg	406	51.7	1	06/11/18 19:21	06/12/18 18:01	108-95-2	
Pyrene	**421**	ug/kg	406	49.5	1	06/11/18 19:21	06/12/18 18:01	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	406	52.8	1	06/11/18 19:21	06/12/18 18:01	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1020	70.7	1	06/11/18 19:21	06/12/18 18:01	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	406	131	1	06/11/18 19:21	06/12/18 18:01	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%	10-175		1	06/11/18 19:21	06/12/18 18:01	4165-60-0	
2-Fluorobiphenyl (S)	78	%	10-151		1	06/11/18 19:21	06/12/18 18:01	321-60-8	
Terphenyl-d14 (S)	80	%	10-172		1	06/11/18 19:21	06/12/18 18:01	1718-51-0	
Phenol-d6 (S)	82	%	10-142		1	06/11/18 19:21	06/12/18 18:01	13127-88-3	
2-Fluorophenol (S)	98	%	10-138		1	06/11/18 19:21	06/12/18 18:01	367-12-4	
2,4,6-Tribromophenol (S)	79	%	10-144		1	06/11/18 19:21	06/12/18 18:01	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**28.2**	ug/kg	12.4	5.9	1	06/13/18 14:41	06/13/18 16:02	67-64-1	~~1c,2c~~
Benzene	ND	ug/kg	6.2	1.8	1	06/13/18 14:41	06/13/18 16:02	71-43-2	1c
Bromochloromethane	ND	ug/kg	6.2	1.7	1	06/13/18 14:41	06/13/18 16:02	74-97-5	1c
Bromodichloromethane	ND	ug/kg	6.2	1.0	1	06/13/18 14:41	06/13/18 16:02	75-27-4	1c
Bromoform	ND	ug/kg	6.2	0.98	1	06/13/18 14:41	06/13/18 16:02	75-25-2	~~1c,L2~~
Bromomethane	ND	ug/kg	6.2	3.9	1	06/13/18 14:41	06/13/18 16:02	74-83-9	1c
TOTAL BTEX	ND	ug/kg	37.1	10.9	1	06/13/18 14:41	06/13/18 16:02		
2-Butanone (MEK)	ND	ug/kg	12.4	3.5	1	06/13/18 14:41	06/13/18 16:02	78-93-3	~~1c,CV~~
Carbon disulfide	**6.3**	ug/kg	6.2	2.6	1	06/13/18 14:41	06/13/18 16:02	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.2	2.5	1	06/13/18 14:41	06/13/18 16:02	56-23-5	1c
Chlorobenzene	ND	ug/kg	6.2	1.9	1	06/13/18 14:41	06/13/18 16:02	108-90-7	1c
Chloroethane	ND	ug/kg	6.2	2.5	1	06/13/18 14:41	06/13/18 16:02	75-00-3	1c

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-38C **Lab ID: 30255422009** Collected: 06/07/18 08:55 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Chloroform	ND	ug/kg	6.2	1.7	1	06/13/18 14:41	06/13/18 16:02	67-66-3	1c
Chloromethane	ND	ug/kg	6.2	2.5	1	06/13/18 14:41	06/13/18 16:02	74-87-3	1c
Dibromochloromethane	ND	ug/kg	6.2	0.89	1	06/13/18 14:41	06/13/18 16:02	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	6.2	1.6	1	06/13/18 14:41	06/13/18 16:02	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.2	1.6	1	06/13/18 14:41	06/13/18 16:02	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.2	1.5	1	06/13/18 14:41	06/13/18 16:02	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	6.2	2.3	1	06/13/18 14:41	06/13/18 16:02	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.2	1.0	1	06/13/18 14:41	06/13/18 16:02	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	12.4	5.0	1	06/13/18 14:41	06/13/18 16:02	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.2	4.2	1	06/13/18 14:41	06/13/18 16:02	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.2	2.2	1	06/13/18 14:41	06/13/18 16:02	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.2	2.8	1	06/13/18 14:41	06/13/18 16:02	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.2	1.2	1	06/13/18 14:41	06/13/18 16:02	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.2	0.89	1	06/13/18 14:41	06/13/18 16:02	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1.1	1	06/13/18 14:41	06/13/18 16:02	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.2	1.9	1	06/13/18 14:41	06/13/18 16:02	100-41-4	1c
2-Hexanone	ND	ug/kg	12.4	0.99	1	06/13/18 14:41	06/13/18 16:02	591-78-6	1c,CV
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1.8	1	06/13/18 14:41	06/13/18 16:02	98-82-8	1c
Methylene Chloride	ND	ug/kg	6.2	4.0	1	06/13/18 14:41	06/13/18 16:02	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.4	1.3	1	06/13/18 14:41	06/13/18 16:02	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.2	0.98	1	06/13/18 14:41	06/13/18 16:02	1634-04-4	1c
Naphthalene	ND	ug/kg	6.2	2.7	1	06/13/18 14:41	06/13/18 16:02	91-20-3	1c
Styrene	ND	ug/kg	6.2	1.4	1	06/13/18 14:41	06/13/18 16:02	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.5	1	06/13/18 14:41	06/13/18 16:02	79-34-5	1c
Tetrachloroethene	ND	ug/kg	6.2	2.3	1	06/13/18 14:41	06/13/18 16:02	127-18-4	1c
Toluene	ND	ug/kg	6.2	1.8	1	06/13/18 14:41	06/13/18 16:02	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	2.4	1	06/13/18 14:41	06/13/18 16:02	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	6.2	2.3	1	06/13/18 14:41	06/13/18 16:02	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	6.2	1.1	1	06/13/18 14:41	06/13/18 16:02	79-00-5	1c
Trichloroethene	ND	ug/kg	6.2	2.5	1	06/13/18 14:41	06/13/18 16:02	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1.6	1	06/13/18 14:41	06/13/18 16:02	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1.7	1	06/13/18 14:41	06/13/18 16:02	108-67-8	1c
Vinyl chloride	ND	ug/kg	6.2	3.2	1	06/13/18 14:41	06/13/18 16:02	75-01-4	1c
Xylene (Total)	ND	ug/kg	18.6	5.4	1	06/13/18 14:41	06/13/18 16:02	1330-20-7	
m&p-Xylene	ND	ug/kg	12.4	3.7	1	06/13/18 14:41	06/13/18 16:02	179601-23-1	1c
o-Xylene	ND	ug/kg	6.2	1.7	1	06/13/18 14:41	06/13/18 16:02	95-47-6	1c
Surrogates									
Toluene-d8 (S)	98	%	76-124		1	06/13/18 14:41	06/13/18 16:02	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-133		1	06/13/18 14:41	06/13/18 16:02	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	74-131		1	06/13/18 14:41	06/13/18 16:02	17060-07-0	
Dibromofluoromethane (S)	95	%	71-130		1	06/13/18 14:41	06/13/18 16:02	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		06/14/18 15:43		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-39B **Lab ID: 30255422010** Collected: 06/07/18 09:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	355	33.1	20	06/11/18 09:44	06/12/18 22:04	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	355	114	20	06/11/18 09:44	06/12/18 22:04	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	355	47.3	20	06/11/18 09:44	06/12/18 22:04	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	355	41.7	20	06/11/18 09:44	06/12/18 22:04	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	355	34.5	20	06/11/18 09:44	06/12/18 22:04	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	355	39.1	20	06/11/18 09:44	06/12/18 22:04	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	355	34.4	20	06/11/18 09:44	06/12/18 22:04	11096-82-5	ED
PCB, Total	ND	ug/kg	3200	430	20	06/11/18 09:44	06/12/18 22:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	41-99		20	06/11/18 09:44	06/12/18 22:04	877-09-8	
Decachlorobiphenyl (S)	111	%	55-110		20	06/11/18 09:44	06/12/18 22:04	2051-24-3	S4
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**9380**	mg/kg	9.8	2.5	1	06/09/18 07:06	06/12/18 14:08	7429-90-5	
Antimony	ND UJ	mg/kg	0.59	0.47	1	06/09/18 07:06	06/12/18 14:08	7440-36-0	
Arsenic	**4.6**	mg/kg	0.49	0.47	1	06/09/18 07:06	06/12/18 14:08	7440-38-2	
Barium	**75.5** J	mg/kg	2.0	0.092	1	06/09/18 07:06	06/12/18 14:08	7440-39-3	
Beryllium	**0.48**	mg/kg	0.20	0.030	1	06/09/18 07:06	06/12/18 14:08	7440-41-7	
Boron	ND	mg/kg	4.9	0.17	1	06/09/18 07:06	06/12/18 14:08	7440-42-8	
Cadmium	ND	mg/kg	0.29	0.060	1	06/09/18 07:06	06/12/18 14:08	7440-43-9	
Calcium	**32900**	mg/kg	196	4.8	1	06/09/18 07:06	06/12/18 14:08	7440-70-2	
Chromium	**18.1**	mg/kg	0.49	0.090	1	06/09/18 07:06	06/12/18 14:08	7440-47-3	
Cobalt	**7.5**	mg/kg	0.98	0.10	1	06/09/18 07:06	06/12/18 14:08	7440-48-4	
Copper	**27.0** J	mg/kg	0.98	0.57	1	06/09/18 07:06	06/12/18 14:08	7440-50-8	
Iron	**15600**	mg/kg	9.8	1.1	1	06/09/18 07:06	06/12/18 14:08	7439-89-6	
Lead	**87.7** J	mg/kg	0.49	0.48	1	06/09/18 07:06	06/12/18 14:08	7439-92-1	
Magnesium	**10400**	mg/kg	49.1	5.7	1	06/09/18 07:06	06/12/18 14:08	7439-95-4	
Manganese	**413** J	mg/kg	0.98	0.098	1	06/09/18 07:06	06/12/18 14:08	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	06/09/18 07:06	06/12/18 14:08	7439-98-7	
Nickel	**15.5**	mg/kg	2.0	0.24	1	06/09/18 07:06	06/12/18 14:08	7440-02-0	
Potassium	**1440** J	mg/kg	49.1	45.2	1	06/09/18 07:06	06/12/18 14:08	7440-09-7	
Selenium	ND	mg/kg	0.79	0.57	1	06/09/18 07:06	06/13/18 07:46	7782-49-2	
Silver	**5.3**	mg/kg	0.59	0.095	1	06/09/18 07:06	06/12/18 14:08	7440-22-4	
Sodium	ND	mg/kg	491	35.7	1	06/09/18 07:06	06/12/18 14:08	7440-23-5	
Thallium	ND	mg/kg	2.0	0.60	1	06/09/18 07:06	06/12/18 14:08	7440-28-0	
Vanadium	**33.2**	mg/kg	0.98	0.080	1	06/09/18 07:06	06/12/18 14:08	7440-62-2	
Zinc	**78.4** J	mg/kg	0.98	0.16	1	06/09/18 07:06	06/12/18 14:08	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.26**	mg/kg	0.11	0.0053	1	06/09/18 06:04	06/11/18 10:57	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	7070	259	20	06/11/18 19:21	06/12/18 19:08	83-32-9	ED
Acenaphthylene	ND	ug/kg	7070	229	20	06/11/18 19:21	06/12/18 19:08	208-96-8	ED
Anthracene	ND	ug/kg	7070	221	20	06/11/18 19:21	06/12/18 19:08	120-12-7	ED

REPORT OF LABORATORY ANALYSIS

NW 9/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-39B **Lab ID: 30255422010** Collected: 06/07/18 09:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	7070	246	20	06/11/18 19:21	06/12/18 19:08	103-33-3	ED,N2
Benzo(a)anthracene	ND	ug/kg	7070	231	20	06/11/18 19:21	06/12/18 19:08	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	7070	293	20	06/11/18 19:21	06/12/18 19:08	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	7070	1050	20	06/11/18 19:21	06/12/18 19:08	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	7070	1030	20	06/11/18 19:21	06/12/18 19:08	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	7070	1260	20	06/11/18 19:21	06/12/18 19:08	207-08-9	ED
Benzoic acid	ND	ug/kg	17700	9720	20	06/11/18 19:21	06/12/18 19:08	65-85-0	ED
Benzyl alcohol	ND	ug/kg	7070	1660	20	06/11/18 19:21	06/12/18 19:08	100-51-6	5c,ED
4-Bromophenylphenyl ether	ND	ug/kg	7070	722	20	06/11/18 19:21	06/12/18 19:08	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	7070	739	20	06/11/18 19:21	06/12/18 19:08	85-68-7	ED
Carbazole	ND	ug/kg	7070	728	20	06/11/18 19:21	06/12/18 19:08	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	7070	588	20	06/11/18 19:21	06/12/18 19:08	59-50-7	ED
4-Chloroaniline	ND	ug/kg	7070	1120	20	06/11/18 19:21	06/12/18 19:08	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	7070	325	20	06/11/18 19:21	06/12/18 19:08	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	7070	720	20	06/11/18 19:21	06/12/18 19:08	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	7070	221	20	06/11/18 19:21	06/12/18 19:08	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	7070	259	20	06/11/18 19:21	06/12/18 19:08	91-58-7	ED
2-Chlorophenol	ND	ug/kg	7070	250	20	06/11/18 19:21	06/12/18 19:08	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	7070	1040	20	06/11/18 19:21	06/12/18 19:08	7005-72-3	ED
Chrysene	ND	ug/kg	7070	1910	20	06/11/18 19:21	06/12/18 19:08	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	7070	1040	20	06/11/18 19:21	06/12/18 19:08	53-70-3	ED
Dibenzofuran	ND	ug/kg	7070	1200	20	06/11/18 19:21	06/12/18 19:08	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	7070	1530	20	06/11/18 19:21	06/12/18 19:08	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	7070	1010	20	06/11/18 19:21	06/12/18 19:08	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	7070	225	20	06/11/18 19:21	06/12/18 19:08	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	7070	2010	20	06/11/18 19:21	06/12/18 19:08	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	7070	238	20	06/11/18 19:21	06/12/18 19:08	120-83-2	ED
Diethylphthalate	ND	ug/kg	7070	267	20	06/11/18 19:21	06/12/18 19:08	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	7070	713	20	06/11/18 19:21	06/12/18 19:08	105-67-9	ED
Dimethylphthalate	ND	ug/kg	7070	297	20	06/11/18 19:21	06/12/18 19:08	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	7070	259	20	06/11/18 19:21	06/12/18 19:08	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	17700	1380	20	06/11/18 19:21	06/12/18 19:08	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	17700	6750	20	06/11/18 19:21	06/12/18 19:08	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	7070	342	20	06/11/18 19:21	06/12/18 19:08	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	7070	864	20	06/11/18 19:21	06/12/18 19:08	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	7070	847	20	06/11/18 19:21	06/12/18 19:08	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	7070	1370	20	06/11/18 19:21	06/12/18 19:08	117-81-7	ED
Fluoranthene	ND	ug/kg	7070	1750	20	06/11/18 19:21	06/12/18 19:08	206-44-0	ED
Fluorene	ND	ug/kg	7070	323	20	06/11/18 19:21	06/12/18 19:08	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	7070	696	20	06/11/18 19:21	06/12/18 19:08	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	7070	785	20	06/11/18 19:21	06/12/18 19:08	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	7070	3480	20	06/11/18 19:21	06/12/18 19:08	77-47-4	ED
Hexachloroethane	ND	ug/kg	7070	388	20	06/11/18 19:21	06/12/18 19:08	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7070	1110	20	06/11/18 19:21	06/12/18 19:08	193-39-5	ED
Isophorone	ND	ug/kg	7070	596	20	06/11/18 19:21	06/12/18 19:08	78-59-1	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-39B **Lab ID: 30255422010** Collected: 06/07/18 09:30 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	7070	378	20	06/11/18 19:21	06/12/18 19:08	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	7070	291	20	06/11/18 19:21	06/12/18 19:08	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	7070	802	20	06/11/18 19:21	06/12/18 19:08	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	14100	233	20	06/11/18 19:21	06/12/18 19:08		ED
Naphthalene	ND	ug/kg	7070	2210	20	06/11/18 19:21	06/12/18 19:08	91-20-3	ED
2-Nitroaniline	ND	ug/kg	17700	282	20	06/11/18 19:21	06/12/18 19:08	88-74-4	ED
3-Nitroaniline	ND	ug/kg	17700	1770	20	06/11/18 19:21	06/12/18 19:08	99-09-2	ED
4-Nitroaniline	ND	ug/kg	17700	1800	20	06/11/18 19:21	06/12/18 19:08	100-01-6	ED
Nitrobenzene	ND	ug/kg	7070	219	20	06/11/18 19:21	06/12/18 19:08	98-95-3	ED
2-Nitrophenol	ND	ug/kg	7070	361	20	06/11/18 19:21	06/12/18 19:08	88-75-5	ED
4-Nitrophenol	ND	ug/kg	7070	891	20	06/11/18 19:21	06/12/18 19:08	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	7070	811	20	06/11/18 19:21	06/12/18 19:08	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	7070	416	20	06/11/18 19:21	06/12/18 19:08	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	7070	1040	20	06/11/18 19:21	06/12/18 19:08	86-30-6	ED
Pentachlorophenol	ND	ug/kg	17700	2210	20	06/11/18 19:21	06/12/18 19:08	87-86-5	ED
Phenanthrene	ND	ug/kg	7070	221	20	06/11/18 19:21	06/12/18 19:08	85-01-8	ED
Phenol	ND	ug/kg	7070	900	20	06/11/18 19:21	06/12/18 19:08	108-95-2	ED
Pyrene	ND	ug/kg	7070	862	20	06/11/18 19:21	06/12/18 19:08	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	7070	919	20	06/11/18 19:21	06/12/18 19:08	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	17700	1230	20	06/11/18 19:21	06/12/18 19:08	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	7070	2270	20	06/11/18 19:21	06/12/18 19:08	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	68	%	10-175		20	06/11/18 19:21	06/12/18 19:08	4165-60-0	
2-Fluorobiphenyl (S)	82	%	10-151		20	06/11/18 19:21	06/12/18 19:08	321-60-8	
Terphenyl-d14 (S)	86	%	10-172		20	06/11/18 19:21	06/12/18 19:08	1718-51-0	
Phenol-d6 (S)	79	%	10-142		20	06/11/18 19:21	06/12/18 19:08	13127-88-3	
2-Fluorophenol (S)	98	%	10-138		20	06/11/18 19:21	06/12/18 19:08	367-12-4	
2,4,6-Tribromophenol (S)	49	%	10-144		20	06/11/18 19:21	06/12/18 19:08	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.4**	%	0.10	0.10	1		06/14/18 15:43		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

11

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-39C **Lab ID: 30255422011** Collected: 06/07/18 09:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	19.5	1.8	1	06/11/18 09:44	06/12/18 22:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	19.5	6.3	1	06/11/18 09:44	06/12/18 22:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	19.5	2.6	1	06/11/18 09:44	06/12/18 22:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	19.5	2.3	1	06/11/18 09:44	06/12/18 22:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	19.5	1.9	1	06/11/18 09:44	06/12/18 22:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	19.5	2.2	1	06/11/18 09:44	06/12/18 22:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	19.5	1.9	1	06/11/18 09:44	06/12/18 22:13	11096-82-5	
PCB, Total	ND	ug/kg	176	23.6	1	06/11/18 09:44	06/12/18 22:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	41-99		1	06/11/18 09:44	06/12/18 22:13	877-09-8	
Decachlorobiphenyl (S)	89	%	55-110		1	06/11/18 09:44	06/12/18 22:13	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**5960**	mg/kg	10.7	2.7	1	06/09/18 07:06	06/12/18 14:11	7429-90-5	MH
Antimony	~~ND~~ U J	mg/kg	0.64	0.51	1	06/09/18 07:06	06/12/18 14:11	7440-36-0	ML
Arsenic	**3.5**	mg/kg	0.53	0.51	1	06/09/18 07:06	06/12/18 14:11	7440-38-2	D6
Barium	**25.3** J	mg/kg	2.1	0.10	1	06/09/18 07:06	06/12/18 14:11	7440-39-3	MH,R1
Beryllium	**0.32**	mg/kg	0.21	0.032	1	06/09/18 07:06	06/12/18 14:11	7440-41-7	
Boron	ND	mg/kg	5.3	0.19	1	06/09/18 07:06	06/12/18 14:11	7440-42-8	
Cadmium	ND	mg/kg	0.32	0.065	1	06/09/18 07:06	06/12/18 14:11	7440-43-9	
Calcium	**1210**	mg/kg	213	5.2	1	06/09/18 07:06	06/12/18 14:11	7440-70-2	MH
Chromium	**7.7**	mg/kg	0.53	0.098	1	06/09/18 07:06	06/12/18 14:11	7440-47-3	
Cobalt	**5.1**	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 14:11	7440-48-4	
Copper	**6.7** J	mg/kg	1.1	0.62	1	06/09/18 07:06	06/12/18 14:11	7440-50-8	MH,R1
Iron	**12300**	mg/kg	10.7	1.2	1	06/09/18 07:06	06/12/18 14:11	7439-89-6	MH,ML, R1
Lead	**3.9** J	mg/kg	0.53	0.52	1	06/09/18 07:06	06/12/18 14:11	7439-92-1	D6
Magnesium	**2590**	mg/kg	53.3	6.2	1	06/09/18 07:06	06/12/18 14:11	7439-95-4	MH,R1
Manganese	**142** J	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 14:11	7439-96-5	MH,ML, R1
Molybdenum	ND	mg/kg	2.1	0.15	1	06/09/18 07:06	06/12/18 14:11	7439-98-7	
Nickel	**9.6**	mg/kg	2.1	0.26	1	06/09/18 07:06	06/12/18 14:11	7440-02-0	
Potassium	**820** J	mg/kg	53.3	49.1	1	06/09/18 07:06	06/12/18 14:11	7440-09-7	MH,ML, R1
Selenium	ND	mg/kg	0.85	0.62	1	06/09/18 07:06	06/13/18 07:48	7782-49-2	
Silver	**1.2**	mg/kg	0.64	0.10	1	06/09/18 07:06	06/12/18 14:11	7440-22-4	D6
Sodium	ND	mg/kg	533	38.8	1	06/09/18 07:06	06/12/18 14:11	7440-23-5	
Thallium	ND	mg/kg	2.1	0.65	1	06/09/18 07:06	06/12/18 14:11	7440-28-0	
Vanadium	**10.7**	mg/kg	1.1	0.087	1	06/09/18 07:06	06/12/18 14:11	7440-62-2	
Zinc	**32.4** J	mg/kg	1.1	0.18	1	06/09/18 07:06	06/12/18 14:11	7440-66-6	MH,R1
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	ND	mg/kg	0.11	0.0054	1	06/09/18 06:04	06/11/18 11:02	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	388	14.2	1	06/11/18 19:21	06/12/18 15:00	83-32-9	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-39C **Lab ID: 30255422011** Collected: 06/07/18 09:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthylene	ND	ug/kg	388	12.6	1	06/11/18 19:21	06/12/18 15:00	208-96-8	
Anthracene	ND	ug/kg	388	12.1	1	06/11/18 19:21	06/12/18 15:00	120-12-7	~~R1~~
Azobenzene	ND	ug/kg	388	13.5	1	06/11/18 19:21	06/12/18 15:00	103-33-3	~~N2,R1~~
Benzo(a)anthracene	ND	ug/kg	388	12.7	1	06/11/18 19:21	06/12/18 15:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	388	16.1	1	06/11/18 19:21	06/12/18 15:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	388	57.8	1	06/11/18 19:21	06/12/18 15:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	388	56.3	1	06/11/18 19:21	06/12/18 15:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	388	69.0	1	06/11/18 19:21	06/12/18 15:00	207-08-9	
Benzoic acid	ND	ug/kg	972	534	1	06/11/18 19:21	06/12/18 15:00	65-85-0	
Benzyl alcohol	ND	ug/kg	388	91.2	1	06/11/18 19:21	06/12/18 15:00	100-51-6	~~5c~~
4-Bromophenylphenyl ether	ND	ug/kg	388	39.7	1	06/11/18 19:21	06/12/18 15:00	101-55-3	
Butylbenzylphthalate	ND	ug/kg	388	40.6	1	06/11/18 19:21	06/12/18 15:00	85-68-7	
Carbazole	ND	ug/kg	388	40.0	1	06/11/18 19:21	06/12/18 15:00	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	388	32.3	1	06/11/18 19:21	06/12/18 15:00	59-50-7	
4-Chloroaniline	ND	ug/kg	388	61.3	1	06/11/18 19:21	06/12/18 15:00	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	388	17.8	1	06/11/18 19:21	06/12/18 15:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	388	39.5	1	06/11/18 19:21	06/12/18 15:00	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	388	12.1	1	06/11/18 19:21	06/12/18 15:00	108-60-1	
2-Chloronaphthalene	~~ND~~ UJ	ug/kg	388	14.2	1	06/11/18 19:21	06/12/18 15:00	91-58-7	~~ML,R1~~
2-Chlorophenol	ND	ug/kg	388	13.8	1	06/11/18 19:21	06/12/18 15:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	388	57.1	1	06/11/18 19:21	06/12/18 15:00	7005-72-3	
Chrysene	ND	ug/kg	388	105	1	06/11/18 19:21	06/12/18 15:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	388	57.1	1	06/11/18 19:21	06/12/18 15:00	53-70-3	
Dibenzofuran	ND	ug/kg	388	66.0	1	06/11/18 19:21	06/12/18 15:00	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	388	84.1	1	06/11/18 19:21	06/12/18 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	388	55.5	1	06/11/18 19:21	06/12/18 15:00	541-73-1	~~MH~~
1,4-Dichlorobenzene	ND	ug/kg	388	12.4	1	06/11/18 19:21	06/12/18 15:00	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	388	111	1	06/11/18 19:21	06/12/18 15:00	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	388	13.1	1	06/11/18 19:21	06/12/18 15:00	120-83-2	
Diethylphthalate	ND	ug/kg	388	14.7	1	06/11/18 19:21	06/12/18 15:00	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	388	39.2	1	06/11/18 19:21	06/12/18 15:00	105-67-9	
Dimethylphthalate	ND	ug/kg	388	16.3	1	06/11/18 19:21	06/12/18 15:00	131-11-3	
Di-n-butylphthalate	ND	ug/kg	388	14.2	1	06/11/18 19:21	06/12/18 15:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	972	75.7	1	06/11/18 19:21	06/12/18 15:00	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	972	371	1	06/11/18 19:21	06/12/18 15:00	51-28-5	R1
2,4-Dinitrotoluene	ND	ug/kg	388	18.8	1	06/11/18 19:21	06/12/18 15:00	121-14-2	R1
2,6-Dinitrotoluene	ND	ug/kg	388	47.5	1	06/11/18 19:21	06/12/18 15:00	606-20-2	R1
Di-n-octylphthalate	ND	ug/kg	388	46.5	1	06/11/18 19:21	06/12/18 15:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	388	75.5	1	06/11/18 19:21	06/12/18 15:00	117-81-7	
Fluoranthene	ND	ug/kg	388	96.0	1	06/11/18 19:21	06/12/18 15:00	206-44-0	
Fluorene	ND	ug/kg	388	17.7	1	06/11/18 19:21	06/12/18 15:00	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	388	38.3	1	06/11/18 19:21	06/12/18 15:00	87-68-3	
Hexachlorobenzene	ND	ug/kg	388	43.2	1	06/11/18 19:21	06/12/18 15:00	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	388	191	1	06/11/18 19:21	06/12/18 15:00	77-47-4	
Hexachloroethane	ND	ug/kg	388	21.3	1	06/11/18 19:21	06/12/18 15:00	67-72-1	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-39C **Lab ID: 30255422011** Collected: 06/07/18 09:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Indeno(1,2,3-cd)pyrene	ND	ug/kg	388	60.9	1	06/11/18 19:21	06/12/18 15:00	193-39-5	
Isophorone	ND	ug/kg	388	32.8	1	06/11/18 19:21	06/12/18 15:00	78-59-1	
1-Methylnaphthalene	ND	ug/kg	388	20.8	1	06/11/18 19:21	06/12/18 15:00	90-12-0	
2-Methylnaphthalene	ND	ug/kg	388	16.0	1	06/11/18 19:21	06/12/18 15:00	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	388	44.1	1	06/11/18 19:21	06/12/18 15:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	777	12.8	1	06/11/18 19:21	06/12/18 15:00		
Naphthalene	ND	ug/kg	388	121	1	06/11/18 19:21	06/12/18 15:00	91-20-3	
2-Nitroaniline	ND	ug/kg	972	15.5	1	06/11/18 19:21	06/12/18 15:00	88-74-4	
3-Nitroaniline	ND	ug/kg	972	97.3	1	06/11/18 19:21	06/12/18 15:00	99-09-2	
4-Nitroaniline	ND	ug/kg	972	99.0	1	06/11/18 19:21	06/12/18 15:00	100-01-6	~~R1~~
Nitrobenzene	ND	ug/kg	388	12.0	1	06/11/18 19:21	06/12/18 15:00	98-95-3	
2-Nitrophenol	ND	ug/kg	388	19.8	1	06/11/18 19:21	06/12/18 15:00	88-75-5	
4-Nitrophenol	ND	ug/kg	388	49.0	1	06/11/18 19:21	06/12/18 15:00	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	388	44.6	1	06/11/18 19:21	06/12/18 15:00	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	388	22.9	1	06/11/18 19:21	06/12/18 15:00	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	388	57.3	1	06/11/18 19:21	06/12/18 15:00	86-30-6	~~R1~~
Pentachlorophenol	ND	ug/kg	972	121	1	06/11/18 19:21	06/12/18 15:00	87-86-5	~~R1~~
Phenanthrene	ND	ug/kg	388	12.1	1	06/11/18 19:21	06/12/18 15:00	85-01-8	~~MH~~
Phenol	ND	ug/kg	388	49.5	1	06/11/18 19:21	06/12/18 15:00	108-95-2	
Pyrene	ND	ug/kg	388	47.4	1	06/11/18 19:21	06/12/18 15:00	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	388	50.5	1	06/11/18 19:21	06/12/18 15:00	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	972	67.5	1	06/11/18 19:21	06/12/18 15:00	95-95-4	~~R1~~
2,4,6-Trichlorophenol	ND	ug/kg	388	125	1	06/11/18 19:21	06/12/18 15:00	88-06-2	~~R1~~
Surrogates									
Nitrobenzene-d5 (S)	85	%	10-175		1	06/11/18 19:21	06/12/18 15:00	4165-60-0	
2-Fluorobiphenyl (S)	84	%	10-151		1	06/11/18 19:21	06/12/18 15:00	321-60-8	
Terphenyl-d14 (S)	85	%	10-172		1	06/11/18 19:21	06/12/18 15:00	1718-51-0	
Phenol-d6 (S)	90	%	10-142		1	06/11/18 19:21	06/12/18 15:00	13127-88-3	
2-Fluorophenol (S)	110	%	10-138		1	06/11/18 19:21	06/12/18 15:00	367-12-4	
2,4,6-Tribromophenol (S)	79	%	10-144		1	06/11/18 19:21	06/12/18 15:00	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		06/14/18 15:43		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**353** J	mg/kg	120	17.8	1	06/12/18 09:01	06/12/18 13:40		~~ML,R1~~

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-44A-O **Lab ID: 30255422014** Collected: 06/07/18 13:34 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.3	1.6	1	06/11/18 09:44	06/12/18 22:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.3	5.6	1	06/11/18 09:44	06/12/18 22:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.3	2.3	1	06/11/18 09:44	06/12/18 22:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.3	2.0	1	06/11/18 09:44	06/12/18 22:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.3	1.7	1	06/11/18 09:44	06/12/18 22:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	17.3	1.9	1	06/11/18 09:44	06/12/18 22:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.3	1.7	1	06/11/18 09:44	06/12/18 22:55	11096-82-5	
PCB, Total	ND	ug/kg	156	21.0	1	06/11/18 09:44	06/12/18 22:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	41-99		1	06/11/18 09:44	06/12/18 22:55	877-09-8	
Decachlorobiphenyl (S)	90	%	55-110		1	06/11/18 09:44	06/12/18 22:55	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**12200**	mg/kg	9.8	2.4	1	06/09/18 07:06	06/12/18 14:42	7429-90-5	
Antimony	ND UJ	mg/kg	0.59	0.47	1	06/09/18 07:06	06/12/18 14:42	7440-36-0	
Arsenic	**6.2**	mg/kg	0.49	0.47	1	06/09/18 07:06	06/12/18 14:42	7440-38-2	
Barium	**57.7** J	mg/kg	2.0	0.092	1	06/09/18 07:06	06/12/18 14:42	7440-39-3	
Beryllium	**0.60**	mg/kg	0.20	0.030	1	06/09/18 07:06	06/12/18 14:42	7440-41-7	
Boron	ND	mg/kg	4.9	0.17	1	06/09/18 07:06	06/12/18 14:42	7440-42-8	
Cadmium	ND	mg/kg	0.29	0.059	1	06/09/18 07:06	06/12/18 14:42	7440-43-9	
Calcium	**17100**	mg/kg	196	4.7	1	06/09/18 07:06	06/12/18 14:42	7440-70-2	
Chromium	**15.7**	mg/kg	0.49	0.090	1	06/09/18 07:06	06/12/18 14:42	7440-47-3	
Cobalt	**11.5**	mg/kg	0.98	0.10	1	06/09/18 07:06	06/12/18 14:42	7440-48-4	
Copper	**29.8** J	mg/kg	0.98	0.57	1	06/09/18 07:06	06/12/18 14:42	7440-50-8	
Iron	**23700**	mg/kg	9.8	1.1	1	06/09/18 07:06	06/12/18 14:42	7439-89-6	
Lead	**13.2** J	mg/kg	0.49	0.48	1	06/09/18 07:06	06/12/18 14:42	7439-92-1	
Magnesium	**7880**	mg/kg	48.9	5.7	1	06/09/18 07:06	06/12/18 14:42	7439-95-4	
Manganese	**652** J	mg/kg	0.98	0.098	1	06/09/18 07:06	06/12/18 14:42	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	06/09/18 07:06	06/12/18 14:42	7439-98-7	
Nickel	**22.1**	mg/kg	2.0	0.24	1	06/09/18 07:06	06/12/18 14:42	7440-02-0	
Potassium	**1460** J	mg/kg	48.9	45.1	1	06/09/18 07:06	06/12/18 14:42	7440-09-7	
Selenium	ND	mg/kg	0.78	0.57	1	06/09/18 07:06	06/13/18 07:57	7782-49-2	
Silver	**0.73**	mg/kg	0.59	0.095	1	06/09/18 07:06	06/12/18 14:42	7440-22-4	
Sodium	ND	mg/kg	489	35.6	1	06/09/18 07:06	06/12/18 14:42	7440-23-5	
Thallium	ND	mg/kg	2.0	0.60	1	06/09/18 07:06	06/12/18 14:42	7440-28-0	
Vanadium	**18.2**	mg/kg	0.98	0.080	1	06/09/18 07:06	06/12/18 14:42	7440-62-2	
Zinc	**66.2** J	mg/kg	0.98	0.16	1	06/09/18 07:06	06/12/18 14:42	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	ND	mg/kg	0.11	0.0052	1	06/09/18 06:04	06/11/18 11:09	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	345	12.7	1	06/11/18 19:21	06/12/18 18:23	83-32-9	
Acenaphthylene	ND	ug/kg	345	11.2	1	06/11/18 19:21	06/12/18 18:23	208-96-8	
Anthracene	ND	ug/kg	345	10.8	1	06/11/18 19:21	06/12/18 18:23	120-12-7	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-44A-O **Lab ID: 30255422014** Collected: 06/07/18 13:34 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	345	12.0	1	06/11/18 19:21	06/12/18 18:23	103-33-3	~~NC~~
Benzo(a)anthracene	ND	ug/kg	345	11.3	1	06/11/18 19:21	06/12/18 18:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	345	14.3	1	06/11/18 19:21	06/12/18 18:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	345	51.5	1	06/11/18 19:21	06/12/18 18:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	345	50.1	1	06/11/18 19:21	06/12/18 18:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	345	61.4	1	06/11/18 19:21	06/12/18 18:23	207-08-9	
Benzoic acid	ND	ug/kg	864	475	1	06/11/18 19:21	06/12/18 18:23	65-85-0	
Benzyl alcohol	ND	ug/kg	345	81.1	1	06/11/18 19:21	06/12/18 18:23	100-51-6	~~5C~~
4-Bromophenylphenyl ether	ND	ug/kg	345	35.3	1	06/11/18 19:21	06/12/18 18:23	101-55-3	
Butylbenzylphthalate	ND	ug/kg	345	36.1	1	06/11/18 19:21	06/12/18 18:23	85-68-7	
Carbazole	ND	ug/kg	345	35.6	1	06/11/18 19:21	06/12/18 18:23	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	345	28.7	1	06/11/18 19:21	06/12/18 18:23	59-50-7	
4-Chloroaniline	ND	ug/kg	345	54.6	1	06/11/18 19:21	06/12/18 18:23	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	345	15.9	1	06/11/18 19:21	06/12/18 18:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	345	35.2	1	06/11/18 19:21	06/12/18 18:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	345	10.8	1	06/11/18 19:21	06/12/18 18:23	108-60-1	
2-Chloronaphthalene	ND	ug/kg	345	12.7	1	06/11/18 19:21	06/12/18 18:23	91-58-7	
2-Chlorophenol	ND	ug/kg	345	12.2	1	06/11/18 19:21	06/12/18 18:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	345	50.8	1	06/11/18 19:21	06/12/18 18:23	7005-72-3	
Chrysene	ND	ug/kg	345	93.3	1	06/11/18 19:21	06/12/18 18:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	345	50.8	1	06/11/18 19:21	06/12/18 18:23	53-70-3	
Dibenzofuran	ND	ug/kg	345	58.7	1	06/11/18 19:21	06/12/18 18:23	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	345	74.8	1	06/11/18 19:21	06/12/18 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	345	49.4	1	06/11/18 19:21	06/12/18 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	345	11.0	1	06/11/18 19:21	06/12/18 18:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	345	98.4	1	06/11/18 19:21	06/12/18 18:23	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	345	11.6	1	06/11/18 19:21	06/12/18 18:23	120-83-2	
Diethylphthalate	ND	ug/kg	345	13.1	1	06/11/18 19:21	06/12/18 18:23	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	345	34.9	1	06/11/18 19:21	06/12/18 18:23	105-67-9	
Dimethylphthalate	ND	ug/kg	345	14.5	1	06/11/18 19:21	06/12/18 18:23	131-11-3	
Di-n-butylphthalate	ND	ug/kg	345	12.7	1	06/11/18 19:21	06/12/18 18:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	864	67.3	1	06/11/18 19:21	06/12/18 18:23	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	864	330	1	06/11/18 19:21	06/12/18 18:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	345	16.7	1	06/11/18 19:21	06/12/18 18:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	345	42.2	1	06/11/18 19:21	06/12/18 18:23	606-20-2	
Di-n-octylphthalate	ND	ug/kg	345	41.4	1	06/11/18 19:21	06/12/18 18:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	345	67.1	1	06/11/18 19:21	06/12/18 18:23	117-81-7	
Fluoranthene	ND	ug/kg	345	85.4	1	06/11/18 19:21	06/12/18 18:23	206-44-0	
Fluorene	ND	ug/kg	345	15.8	1	06/11/18 19:21	06/12/18 18:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	345	34.0	1	06/11/18 19:21	06/12/18 18:23	87-68-3	
Hexachlorobenzene	ND	ug/kg	345	38.4	1	06/11/18 19:21	06/12/18 18:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	345	170	1	06/11/18 19:21	06/12/18 18:23	77-47-4	
Hexachloroethane	ND	ug/kg	345	19.0	1	06/11/18 19:21	06/12/18 18:23	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	345	54.2	1	06/11/18 19:21	06/12/18 18:23	193-39-5	
Isophorone	ND	ug/kg	345	29.2	1	06/11/18 19:21	06/12/18 18:23	78-59-1	

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-44A-O **Lab ID: 30255422014** Collected: 06/07/18 13:34 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	345	18.5	1	06/11/18 19:21	06/12/18 18:23	90-12-0	
2-Methylnaphthalene	ND	ug/kg	345	14.2	1	06/11/18 19:21	06/12/18 18:23	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	345	39.2	1	06/11/18 19:21	06/12/18 18:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	691	11.4	1	06/11/18 19:21	06/12/18 18:23		
Naphthalene	ND	ug/kg	345	108	1	06/11/18 19:21	06/12/18 18:23	91-20-3	
2-Nitroaniline	ND	ug/kg	864	13.8	1	06/11/18 19:21	06/12/18 18:23	88-74-4	
3-Nitroaniline	ND	ug/kg	864	86.5	1	06/11/18 19:21	06/12/18 18:23	99-09-2	
4-Nitroaniline	ND	ug/kg	864	88.1	1	06/11/18 19:21	06/12/18 18:23	100-01-6	
Nitrobenzene	ND	ug/kg	345	10.7	1	06/11/18 19:21	06/12/18 18:23	98-95-3	
2-Nitrophenol	ND	ug/kg	345	17.6	1	06/11/18 19:21	06/12/18 18:23	88-75-5	
4-Nitrophenol	ND	ug/kg	345	43.6	1	06/11/18 19:21	06/12/18 18:23	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	345	39.6	1	06/11/18 19:21	06/12/18 18:23	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	345	20.3	1	06/11/18 19:21	06/12/18 18:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	345	50.9	1	06/11/18 19:21	06/12/18 18:23	86-30-6	
Pentachlorophenol	ND	ug/kg	864	108	1	06/11/18 19:21	06/12/18 18:23	87-86-5	
Phenanthrene	ND	ug/kg	345	10.8	1	06/11/18 19:21	06/12/18 18:23	85-01-8	
Phenol	ND	ug/kg	345	44.0	1	06/11/18 19:21	06/12/18 18:23	108-95-2	
Pyrene	ND	ug/kg	345	42.1	1	06/11/18 19:21	06/12/18 18:23	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	345	44.9	1	06/11/18 19:21	06/12/18 18:23	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	864	60.1	1	06/11/18 19:21	06/12/18 18:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	345	111	1	06/11/18 19:21	06/12/18 18:23	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	77	%	10-175		1	06/11/18 19:21	06/12/18 18:23	4165-60-0	
2-Fluorobiphenyl (S)	79	%	10-151		1	06/11/18 19:21	06/12/18 18:23	321-60-8	
Terphenyl-d14 (S)	82	%	10-172		1	06/11/18 19:21	06/12/18 18:23	1718-51-0	
Phenol-d6 (S)	85	%	10-142		1	06/11/18 19:21	06/12/18 18:23	13127-88-3	
2-Fluorophenol (S)	101	%	10-138		1	06/11/18 19:21	06/12/18 18:23	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-144		1	06/11/18 19:21	06/12/18 18:23	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.4**	%	0.10	0.10	1		06/14/18 15:44		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-46A **Lab ID: 30255422015** Collected: 06/07/18 13:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	10.6	1.9	5	06/11/18 09:44	06/12/18 17:43	309-00-2	ED
alpha-BHC	ND	ug/kg	10.6	2.1	5	06/11/18 09:44	06/12/18 17:43	319-84-6	ED
beta-BHC	ND	ug/kg	10.6	7.7	5	06/11/18 09:44	06/12/18 17:43	319-85-7	ED
delta-BHC	ND	ug/kg	10.6	10.2	5	06/11/18 09:44	06/12/18 17:43	319-86-8	ED
gamma-BHC (Lindane)	ND	ug/kg	10.6	2.8	5	06/11/18 09:44	06/12/18 17:43	58-89-9	ED
alpha-Chlordane	ND	ug/kg	10.6	1.1	5	06/11/18 09:44	06/12/18 17:43	5103-71-9	ED
gamma-Chlordane	ND	ug/kg	10.6	2.7	5	06/11/18 09:44	06/12/18 17:43	5103-74-2	ED
4,4'-DDD	ND	ug/kg	21.1	6.9	5	06/11/18 09:44	06/12/18 17:43	72-54-8	ED
4,4'-DDE	ND	ug/kg	21.1	3.8	5	06/11/18 09:44	06/12/18 17:43	72-55-9	ED
4,4'-DDT	ND	ug/kg	21.1	5.6	5	06/11/18 09:44	06/12/18 17:43	50-29-3	ED
Dieldrin	ND	ug/kg	21.1	2.2	5	06/11/18 09:44	06/12/18 17:43	60-57-1	ED
Endosulfan I	ND	ug/kg	10.6	1.3	5	06/11/18 09:44	06/12/18 17:43	959-98-8	ED
Endosulfan II	ND	ug/kg	21.1	3.0	5	06/11/18 09:44	06/12/18 17:43	33213-65-9	ED
Endosulfan sulfate	~~ND~~ UJ	ug/kg	21.1	1.9	5	06/11/18 09:44	06/12/18 17:43	1031-07-8	~~ED~~,ML
Endrin	ND	ug/kg	21.1	3.3	5	06/11/18 09:44	06/12/18 17:43	72-20-8	ED
Endrin aldehyde	ND	ug/kg	21.1	5.0	5	06/11/18 09:44	06/12/18 17:43	7421-93-4	CH,~~ED~~
Endrin ketone	ND	ug/kg	21.1	1.9	5	06/11/18 09:44	06/12/18 17:43	53494-70-5	ED
Heptachlor	~~ND~~ UJ	ug/kg	10.6	1.3	5	06/11/18 09:44	06/12/18 17:43	76-44-8	~~ED~~,ML
Heptachlor epoxide	ND	ug/kg	10.6	3.0	5	06/11/18 09:44	06/12/18 17:43	1024-57-3	ED
Methoxychlor	ND	ug/kg	106	10.2	5	06/11/18 09:44	06/12/18 17:43	72-43-5	ED
Toxaphene	ND	ug/kg	106	34.7	5	06/11/18 09:44	06/12/18 17:43	8001-35-2	ED
Surrogates									
Tetrachloro-m-xylene (S)	76	%	37-113		5	06/11/18 09:44	06/12/18 17:43	877-09-8	
Decachlorobiphenyl (S)	77	%	39-122		5	06/11/18 09:44	06/12/18 17:43	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	106	9.8	5	06/11/18 09:44	06/12/18 20:15	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	106	33.9	5	06/11/18 09:44	06/12/18 20:15	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	106	14.0	5	06/11/18 09:44	06/12/18 20:15	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	106	12.4	5	06/11/18 09:44	06/12/18 20:15	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	106	10.3	5	06/11/18 09:44	06/12/18 20:15	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	106	11.6	5	06/11/18 09:44	06/12/18 20:15	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	106	10.2	5	06/11/18 09:44	06/12/18 20:15	11096-82-5	ED
PCB, Total	ND	ug/kg	950	128	5	06/11/18 09:44	06/12/18 20:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	70	%	41-99		5	06/11/18 09:44	06/12/18 20:15	877-09-8	
Decachlorobiphenyl (S)	96	%	55-110		5	06/11/18 09:44	06/12/18 20:15	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**8730**	mg/kg	11.5	2.9	1	06/09/18 07:06	06/12/18 14:21	7429-90-5	
Antimony	**0.70** J	mg/kg	0.69	0.56	1	06/09/18 07:06	06/12/18 14:21	7440-36-0	
Arsenic	**6.1**	mg/kg	0.58	0.55	1	06/09/18 07:06	06/12/18 14:21	7440-38-2	
Barium	**97.2** J	mg/kg	2.3	0.11	1	06/09/18 07:06	06/12/18 14:21	7440-39-3	
Beryllium	**0.48**	mg/kg	0.23	0.035	1	06/09/18 07:06	06/12/18 14:21	7440-41-7	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-46A **Lab ID: 30255422015** Collected: 06/07/18 13:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Boron	ND	mg/kg	5.8	0.20	1	06/09/18 07:06	06/12/18 14:21	7440-42-8	
Cadmium	**0.42**	mg/kg	0.35	0.070	1	06/09/18 07:06	06/12/18 14:21	7440-43-9	
Calcium	**8440**	mg/kg	231	5.6	1	06/09/18 07:06	06/12/18 14:21	7440-70-2	
Chromium	**16.6**	mg/kg	0.58	0.11	1	06/09/18 07:06	06/12/18 14:21	7440-47-3	
Cobalt	**7.1**	mg/kg	1.2	0.12	1	06/09/18 07:06	06/12/18 14:21	7440-48-4	
Copper	**56.5** J	mg/kg	1.2	0.67	1	06/09/18 07:06	06/12/18 14:21	7440-50-8	
Iron	**17000**	mg/kg	11.5	1.3	1	06/09/18 07:06	06/12/18 14:21	7439-89-6	
Lead	**207** J	mg/kg	0.58	0.56	1	06/09/18 07:06	06/12/18 14:21	7439-92-1	
Magnesium	**4060**	mg/kg	57.7	6.7	1	06/09/18 07:06	06/12/18 14:21	7439-95-4	
Manganese	**441** J	mg/kg	1.2	0.12	1	06/09/18 07:06	06/12/18 14:21	7439-96-5	
Molybdenum	ND	mg/kg	2.3	0.17	1	06/09/18 07:06	06/12/18 14:21	7439-98-7	
Nickel	**16.0**	mg/kg	2.3	0.29	1	06/09/18 07:06	06/12/18 14:21	7440-02-0	
Potassium	**1550** J	mg/kg	57.7	53.1	1	06/09/18 07:06	06/12/18 14:21	7440-09-7	
Selenium	**0.93**	mg/kg	0.92	0.67	1	06/09/18 07:06	06/13/18 07:59	7782-49-2	
Silver	**2.3**	mg/kg	0.69	0.11	1	06/09/18 07:06	06/12/18 14:21	7440-22-4	
Sodium	ND	mg/kg	577	42.0	1	06/09/18 07:06	06/12/18 14:21	7440-23-5	
Thallium	ND	mg/kg	2.3	0.71	1	06/09/18 07:06	06/12/18 14:21	7440-28-0	
Vanadium	**19.3**	mg/kg	1.2	0.094	1	06/09/18 07:06	06/12/18 14:21	7440-62-2	
Zinc	**190** J	mg/kg	1.2	0.19	1	06/09/18 07:06	06/12/18 14:21	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.84**	mg/kg	0.13	0.0063	1	06/09/18 06:04	06/11/18 11:10	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	419	15.3	1	06/11/18 19:21	06/12/18 20:38	83-32-9	
Acenaphthylene	ND	ug/kg	419	13.6	1	06/11/18 19:21	06/12/18 20:38	208-96-8	
Anthracene	ND	ug/kg	419	13.1	1	06/11/18 19:21	06/12/18 20:38	120-12-7	
Azobenzene	ND	ug/kg	419	14.6	1	06/11/18 19:21	06/12/18 20:38	103-33-3	N2
Benzo(a)anthracene	**570**	ug/kg	419	13.7	1	06/11/18 19:21	06/12/18 20:38	56-55-3	
Benzo(a)pyrene	**612**	ug/kg	419	17.4	1	06/11/18 19:21	06/12/18 20:38	50-32-8	
Benzo(b)fluoranthene	**582**	ug/kg	419	62.4	1	06/11/18 19:21	06/12/18 20:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	419	60.7	1	06/11/18 19:21	06/12/18 20:38	191-24-2	
Benzo(k)fluoranthene	**631**	ug/kg	419	74.4	1	06/11/18 19:21	06/12/18 20:38	207-08-9	
Benzoic acid	ND	ug/kg	1050	576	1	06/11/18 19:21	06/12/18 20:38	65-85-0	
Benzyl alcohol	ND	ug/kg	419	98.3	1	06/11/18 19:21	06/12/18 20:38	100-51-6	5c
4-Bromophenylphenyl ether	ND	ug/kg	419	42.8	1	06/11/18 19:21	06/12/18 20:38	101-55-3	
Butylbenzylphthalate	ND	ug/kg	419	43.8	1	06/11/18 19:21	06/12/18 20:38	85-68-7	
Carbazole	ND	ug/kg	419	43.1	1	06/11/18 19:21	06/12/18 20:38	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	419	34.8	1	06/11/18 19:21	06/12/18 20:38	59-50-7	
4-Chloroaniline	ND	ug/kg	419	66.1	1	06/11/18 19:21	06/12/18 20:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	419	19.2	1	06/11/18 19:21	06/12/18 20:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	419	42.6	1	06/11/18 19:21	06/12/18 20:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	419	13.1	1	06/11/18 19:21	06/12/18 20:38	108-60-1	
2-Chloronaphthalene	ND	ug/kg	419	15.3	1	06/11/18 19:21	06/12/18 20:38	91-58-7	

REPORT OF LABORATORY ANALYSIS

NW 6/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-46A **Lab ID: 30255422015** Collected: 06/07/18 13:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2-Chlorophenol	ND	ug/kg	419	14.8	1	06/11/18 19:21	06/12/18 20:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	419	61.6	1	06/11/18 19:21	06/12/18 20:38	7005-72-3	
Chrysene	**626**	ug/kg	419	113	1	06/11/18 19:21	06/12/18 20:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	419	61.6	1	06/11/18 19:21	06/12/18 20:38	53-70-3	
Dibenzofuran	ND	ug/kg	419	71.2	1	06/11/18 19:21	06/12/18 20:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	419	90.7	1	06/11/18 19:21	06/12/18 20:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	419	59.9	1	06/11/18 19:21	06/12/18 20:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	419	13.3	1	06/11/18 19:21	06/12/18 20:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	419	119	1	06/11/18 19:21	06/12/18 20:38	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	419	14.1	1	06/11/18 19:21	06/12/18 20:38	120-83-2	
Diethylphthalate	ND	ug/kg	419	15.8	1	06/11/18 19:21	06/12/18 20:38	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	419	42.3	1	06/11/18 19:21	06/12/18 20:38	105-67-9	
Dimethylphthalate	ND	ug/kg	419	17.6	1	06/11/18 19:21	06/12/18 20:38	131-11-3	
Di-n-butylphthalate	ND	ug/kg	419	15.3	1	06/11/18 19:21	06/12/18 20:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1050	81.6	1	06/11/18 19:21	06/12/18 20:38	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1050	400	1	06/11/18 19:21	06/12/18 20:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	419	20.2	1	06/11/18 19:21	06/12/18 20:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	419	51.2	1	06/11/18 19:21	06/12/18 20:38	606-20-2	
Di-n-octylphthalate	ND	ug/kg	419	50.2	1	06/11/18 19:21	06/12/18 20:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	419	81.4	1	06/11/18 19:21	06/12/18 20:38	117-81-7	
Fluoranthene	**1140**	ug/kg	419	103	1	06/11/18 19:21	06/12/18 20:38	206-44-0	
Fluorene	ND	ug/kg	419	19.1	1	06/11/18 19:21	06/12/18 20:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	419	41.2	1	06/11/18 19:21	06/12/18 20:38	87-68-3	
Hexachlorobenzene	ND	ug/kg	419	46.5	1	06/11/18 19:21	06/12/18 20:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	419	206	1	06/11/18 19:21	06/12/18 20:38	77-47-4	
Hexachloroethane	ND	ug/kg	419	23.0	1	06/11/18 19:21	06/12/18 20:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	419	65.6	1	06/11/18 19:21	06/12/18 20:38	193-39-5	
Isophorone	ND	ug/kg	419	35.3	1	06/11/18 19:21	06/12/18 20:38	78-59-1	
1-Methylnaphthalene	ND	ug/kg	419	22.4	1	06/11/18 19:21	06/12/18 20:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	419	17.2	1	06/11/18 19:21	06/12/18 20:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	419	47.5	1	06/11/18 19:21	06/12/18 20:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	838	13.8	1	06/11/18 19:21	06/12/18 20:38		
Naphthalene	ND	ug/kg	419	131	1	06/11/18 19:21	06/12/18 20:38	91-20-3	
2-Nitroaniline	ND	ug/kg	1050	16.7	1	06/11/18 19:21	06/12/18 20:38	88-74-4	
3-Nitroaniline	ND	ug/kg	1050	105	1	06/11/18 19:21	06/12/18 20:38	99-09-2	
4-Nitroaniline	ND	ug/kg	1050	107	1	06/11/18 19:21	06/12/18 20:38	100-01-6	
Nitrobenzene	ND	ug/kg	419	13.0	1	06/11/18 19:21	06/12/18 20:38	98-95-3	
2-Nitrophenol	ND	ug/kg	419	21.4	1	06/11/18 19:21	06/12/18 20:38	88-75-5	
4-Nitrophenol	ND	ug/kg	419	52.8	1	06/11/18 19:21	06/12/18 20:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	419	48.0	1	06/11/18 19:21	06/12/18 20:38	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	419	24.6	1	06/11/18 19:21	06/12/18 20:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	419	61.7	1	06/11/18 19:21	06/12/18 20:38	86-30-6	
Pentachlorophenol	ND	ug/kg	1050	131	1	06/11/18 19:21	06/12/18 20:38	87-86-5	
Phenanthrene	**557**	ug/kg	419	13.1	1	06/11/18 19:21	06/12/18 20:38	85-01-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-46A **Lab ID: 30255422015** Collected: 06/07/18 13:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Phenol	ND	ug/kg	419	53.3	1	06/11/18 19:21	06/12/18 20:38	108-95-2	
Pyrene	**1150**	ug/kg	419	51.1	1	06/11/18 19:21	06/12/18 20:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	419	54.5	1	06/11/18 19:21	06/12/18 20:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1050	72.8	1	06/11/18 19:21	06/12/18 20:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	419	135	1	06/11/18 19:21	06/12/18 20:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	74	%	10-175		1	06/11/18 19:21	06/12/18 20:38	4165-60-0	
2-Fluorobiphenyl (S)	74	%	10-151		1	06/11/18 19:21	06/12/18 20:38	321-60-8	
Terphenyl-d14 (S)	76	%	10-172		1	06/11/18 19:21	06/12/18 20:38	1718-51-0	
Phenol-d6 (S)	77	%	10-142		1	06/11/18 19:21	06/12/18 20:38	13127-88-3	
2-Fluorophenol (S)	92	%	10-138		1	06/11/18 19:21	06/12/18 20:38	367-12-4	
2,4,6-Tribromophenol (S)	77	%	10-144		1	06/11/18 19:21	06/12/18 20:38	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**285**	ug/kg	15.1	7.2	1	06/12/18 14:39	06/13/18 15:35	67-64-1	2c
Benzene	ND	ug/kg	7.5	2.2	1	06/12/18 14:39	06/13/18 15:35	71-43-2	
Bromochloromethane	ND	ug/kg	7.5	2.0	1	06/12/18 14:39	06/13/18 15:35	74-97-5	
Bromodichloromethane	ND	ug/kg	7.5	1.2	1	06/12/18 14:39	06/13/18 15:35	75-27-4	
Bromoform	ND	ug/kg	7.5	1.2	1	06/12/18 14:39	06/13/18 15:35	75-25-2	
Bromomethane	ND	ug/kg	7.5	4.7	1	06/12/18 14:39	06/13/18 15:35	74-83-9	
TOTAL BTEX	ND	ug/kg	45.3	13.3	1	06/12/18 14:39	06/13/18 15:35		
2-Butanone (MEK)	**21.4**	ug/kg	15.1	4.3	1	06/12/18 14:39	06/13/18 15:35	78-93-3	6c
Carbon disulfide	ND	ug/kg	7.5	3.1	1	06/12/18 14:39	06/13/18 15:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	7.5	3.1	1	06/12/18 14:39	06/13/18 15:35	56-23-5	
Chlorobenzene	ND	ug/kg	7.5	2.3	1	06/12/18 14:39	06/13/18 15:35	108-90-7	
Chloroethane	ND	ug/kg	7.5	3.1	1	06/12/18 14:39	06/13/18 15:35	75-00-3	
Chloroform	ND	ug/kg	7.5	2.0	1	06/12/18 14:39	06/13/18 15:35	67-66-3	
Chloromethane	ND	ug/kg	7.5	3.0	1	06/12/18 14:39	06/13/18 15:35	74-87-3	
Dibromochloromethane	ND	ug/kg	7.5	1.1	1	06/12/18 14:39	06/13/18 15:35	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	7.5	1.9	1	06/12/18 14:39	06/13/18 15:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.5	2.0	1	06/12/18 14:39	06/13/18 15:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.5	1.8	1	06/12/18 14:39	06/13/18 15:35	106-46-7	
1,1-Dichloroethane	ND	ug/kg	7.5	2.8	1	06/12/18 14:39	06/13/18 15:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.5	1.2	1	06/12/18 14:39	06/13/18 15:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	15.1	6.1	1	06/12/18 14:39	06/13/18 15:35	540-59-0	
1,1-Dichloroethene	ND	ug/kg	7.5	5.1	1	06/12/18 14:39	06/13/18 15:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.5	2.6	1	06/12/18 14:39	06/13/18 15:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.5	3.4	1	06/12/18 14:39	06/13/18 15:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.5	1.5	1	06/12/18 14:39	06/13/18 15:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	7.5	1.1	1	06/12/18 14:39	06/13/18 15:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.5	1.4	1	06/12/18 14:39	06/13/18 15:35	10061-02-6	
Ethylbenzene	ND	ug/kg	7.5	2.3	1	06/12/18 14:39	06/13/18 15:35	100-41-4	
2-Hexanone	ND	ug/kg	15.1	1.2	1	06/12/18 14:39	06/13/18 15:35	591-78-6	9L
Isopropylbenzene (Cumene)	ND	ug/kg	7.5	2.2	1	06/12/18 14:39	06/13/18 15:35	98-82-8	

REPORT OF LABORATORY ANALYSIS

MW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-46A **Lab ID: 30255422015** Collected: 06/07/18 13:49 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Methylene Chloride	ND	ug/kg	7.5	4.9	1	06/12/18 14:39	06/13/18 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	15.1	1.6	1	06/12/18 14:39	06/13/18 15:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.5	1.2	1	06/12/18 14:39	06/13/18 15:35	1634-04-4	
Naphthalene	ND	ug/kg	7.5	3.4	1	06/12/18 14:39	06/13/18 15:35	91-20-3	
Styrene	ND	ug/kg	7.5	1.8	1	06/12/18 14:39	06/13/18 15:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.5	1.9	1	06/12/18 14:39	06/13/18 15:35	79-34-5	
Tetrachloroethene	ND	ug/kg	7.5	2.8	1	06/12/18 14:39	06/13/18 15:35	127-18-4	
Toluene	ND	ug/kg	7.5	2.2	1	06/12/18 14:39	06/13/18 15:35	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	7.5	3.0	1	06/12/18 14:39	06/13/18 15:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.5	2.8	1	06/12/18 14:39	06/13/18 15:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.5	1.3	1	06/12/18 14:39	06/13/18 15:35	79-00-5	
Trichloroethene	ND	ug/kg	7.5	3.0	1	06/12/18 14:39	06/13/18 15:35	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	7.5	2.0	1	06/12/18 14:39	06/13/18 15:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.5	2.0	1	06/12/18 14:39	06/13/18 15:35	108-67-8	
Vinyl chloride	ND	ug/kg	7.5	3.9	1	06/12/18 14:39	06/13/18 15:35	75-01-4	
Xylene (Total)	ND	ug/kg	22.6	6.6	1	06/12/18 14:39	06/13/18 15:35	1330-20-7	
m&p-Xylene	ND	ug/kg	15.1	4.5	1	06/12/18 14:39	06/13/18 15:35	179601-23-1	
o-Xylene	ND	ug/kg	7.5	2.1	1	06/12/18 14:39	06/13/18 15:35	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%	76-124		1	06/12/18 14:39	06/13/18 15:35	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-133		1	06/12/18 14:39	06/13/18 15:35	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	74-131		1	06/12/18 14:39	06/13/18 15:35	17060-07-0	
Dibromofluoromethane (S)	95	%	71-130		1	06/12/18 14:39	06/13/18 15:35	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.6**	%	0.10	0.10	1		06/14/18 15:44		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**318**	mg/kg	130	19.4	1	06/12/18 09:01	06/12/18 13:40		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-42A **Lab ID: 30255422016** Collected: 06/07/18 14:03 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	105	9.8	5	06/11/18 09:44	06/12/18 23:03	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	105	33.8	5	06/11/18 09:44	06/12/18 23:03	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	105	14.0	5	06/11/18 09:44	06/12/18 23:03	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	105	12.4	5	06/11/18 09:44	06/12/18 23:03	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	105	10.3	5	06/11/18 09:44	06/12/18 23:03	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	105	11.6	5	06/11/18 09:44	06/12/18 23:03	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	105	10.2	5	06/11/18 09:44	06/12/18 23:03	11096-82-5	ED
PCB, Total	ND	ug/kg	949	128	5	06/11/18 09:44	06/12/18 23:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	41-99		5	06/11/18 09:44	06/12/18 23:03	877-09-8	
Decachlorobiphenyl (S)	89	%	55-110		5	06/11/18 09:44	06/12/18 23:03	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**10200**	mg/kg	11.4	2.8	1	06/09/18 07:06	06/12/18 14:35	7429-90-5	
Antimony	**1.1** J	mg/kg	0.68	0.55	1	06/09/18 07:06	06/12/18 14:35	7440-36-0	
Arsenic	**8.6**	mg/kg	0.57	0.55	1	06/09/18 07:06	06/12/18 14:35	7440-38-2	
Barium	**135** J	mg/kg	2.3	0.11	1	06/09/18 07:06	06/12/18 14:35	7440-39-3	
Beryllium	**0.57**	mg/kg	0.23	0.035	1	06/09/18 07:06	06/12/18 14:35	7440-41-7	
Boron	ND	mg/kg	5.7	0.20	1	06/09/18 07:06	06/12/18 14:35	7440-42-8	
Cadmium	**0.76**	mg/kg	0.34	0.069	1	06/09/18 07:06	06/12/18 14:35	7440-43-9	
Calcium	**11300**	mg/kg	227	5.5	1	06/09/18 07:06	06/12/18 14:35	7440-70-2	
Chromium	**20.5**	mg/kg	0.57	0.10	1	06/09/18 07:06	06/12/18 14:35	7440-47-3	
Cobalt	**7.7**	mg/kg	1.1	0.12	1	06/09/18 07:06	06/12/18 14:35	7440-48-4	
Copper	**117** J	mg/kg	1.1	0.66	1	06/09/18 07:06	06/12/18 14:35	7440-50-8	
Iron	**21800**	mg/kg	11.4	1.3	1	06/09/18 07:06	06/12/18 14:35	7439-89-6	
Lead	**355** J	mg/kg	0.57	0.56	1	06/09/18 07:06	06/12/18 14:35	7439-92-1	
Magnesium	**4210**	mg/kg	56.8	6.6	1	06/09/18 07:06	06/12/18 14:35	7439-95-4	
Manganese	**426** J	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 14:35	7439-96-5	
Molybdenum	ND	mg/kg	2.3	0.16	1	06/09/18 07:06	06/12/18 14:35	7439-98-7	
Nickel	**19.6**	mg/kg	2.3	0.28	1	06/09/18 07:06	06/12/18 14:35	7440-02-0	
Potassium	**1760** J	mg/kg	56.8	52.3	1	06/09/18 07:06	06/12/18 14:35	7440-09-7	
Selenium	**1.3**	mg/kg	0.91	0.66	1	06/09/18 07:06	06/13/18 08:09	7782-49-2	
Silver	**1.7**	mg/kg	0.68	0.11	1	06/09/18 07:06	06/12/18 14:35	7440-22-4	
Sodium	ND	mg/kg	568	41.3	1	06/09/18 07:06	06/12/18 14:35	7440-23-5	
Thallium	ND	mg/kg	2.3	0.70	1	06/09/18 07:06	06/12/18 14:35	7440-28-0	
Vanadium	**20.8**	mg/kg	1.1	0.092	1	06/09/18 07:06	06/12/18 14:35	7440-62-2	
Zinc	**289** J	mg/kg	1.1	0.19	1	06/09/18 07:06	06/12/18 14:35	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**1.7**	mg/kg	0.12	0.0061	1	06/09/18 06:04	06/11/18 11:12	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	427	15.7	1	06/11/18 19:21	06/12/18 21:00	83-32-9	
Acenaphthylene	ND	ug/kg	427	13.9	1	06/11/18 19:21	06/12/18 21:00	208-96-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-42A **Lab ID: 30255422016** Collected: 06/07/18 14:03 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Anthracene	**1100**	ug/kg	427	13.3	1	06/11/18 19:21	06/12/18 21:00	120-12-7	
Azobenzene	ND	ug/kg	427	14.9	1	06/11/18 19:21	06/12/18 21:00	103-33-3	N2
Benzo(a)anthracene	**3590**	ug/kg	427	14.0	1	06/11/18 19:21	06/12/18 21:00	56-55-3	
Benzo(a)pyrene	**3270**	ug/kg	427	17.7	1	06/11/18 19:21	06/12/18 21:00	50-32-8	
Benzo(b)fluoranthene	**3300**	ug/kg	427	63.7	1	06/11/18 19:21	06/12/18 21:00	205-99-2	
Benzo(g,h,i)perylene	**883**	ug/kg	427	62.0	1	06/11/18 19:21	06/12/18 21:00	191-24-2	
Benzo(k)fluoranthene	**3980**	ug/kg	427	76.0	1	06/11/18 19:21	06/12/18 21:00	207-08-9	
Benzoic acid	ND	ug/kg	1070	588	1	06/11/18 19:21	06/12/18 21:00	65-85-0	
Benzyl alcohol	ND	ug/kg	427	100	1	06/11/18 19:21	06/12/18 21:00	100-51-6	5c
4-Bromophenylphenyl ether	ND	ug/kg	427	43.6	1	06/11/18 19:21	06/12/18 21:00	101-55-3	
Butylbenzylphthalate	ND	ug/kg	427	44.7	1	06/11/18 19:21	06/12/18 21:00	85-68-7	
Carbazole	**817**	ug/kg	427	44.0	1	06/11/18 19:21	06/12/18 21:00	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	427	35.5	1	06/11/18 19:21	06/12/18 21:00	59-50-7	
4-Chloroaniline	ND	ug/kg	427	67.5	1	06/11/18 19:21	06/12/18 21:00	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	427	19.6	1	06/11/18 19:21	06/12/18 21:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	427	43.5	1	06/11/18 19:21	06/12/18 21:00	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	427	13.3	1	06/11/18 19:21	06/12/18 21:00	108-60-1	
2-Chloronaphthalene	ND	ug/kg	427	15.7	1	06/11/18 19:21	06/12/18 21:00	91-58-7	
2-Chlorophenol	ND	ug/kg	427	15.1	1	06/11/18 19:21	06/12/18 21:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	427	62.9	1	06/11/18 19:21	06/12/18 21:00	7005-72-3	
Chrysene	**3650**	ug/kg	427	115	1	06/11/18 19:21	06/12/18 21:00	218-01-9	
Dibenz(a,h)anthracene	**429**	ug/kg	427	62.9	1	06/11/18 19:21	06/12/18 21:00	53-70-3	
Dibenzofuran	ND	ug/kg	427	72.6	1	06/11/18 19:21	06/12/18 21:00	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	427	92.5	1	06/11/18 19:21	06/12/18 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	427	61.1	1	06/11/18 19:21	06/12/18 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	427	13.6	1	06/11/18 19:21	06/12/18 21:00	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	427	122	1	06/11/18 19:21	06/12/18 21:00	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	427	14.4	1	06/11/18 19:21	06/12/18 21:00	120-83-2	
Diethylphthalate	ND	ug/kg	427	16.2	1	06/11/18 19:21	06/12/18 21:00	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	427	43.1	1	06/11/18 19:21	06/12/18 21:00	105-67-9	
Dimethylphthalate	ND	ug/kg	427	18.0	1	06/11/18 19:21	06/12/18 21:00	131-11-3	
Di-n-butylphthalate	ND	ug/kg	427	15.7	1	06/11/18 19:21	06/12/18 21:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	83.3	1	06/11/18 19:21	06/12/18 21:00	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	408	1	06/11/18 19:21	06/12/18 21:00	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	427	20.7	1	06/11/18 19:21	06/12/18 21:00	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	427	52.2	1	06/11/18 19:21	06/12/18 21:00	606-20-2	
Di-n-octylphthalate	ND	ug/kg	427	51.2	1	06/11/18 19:21	06/12/18 21:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	427	83.0	1	06/11/18 19:21	06/12/18 21:00	117-81-7	
Fluoranthene	**9380**	ug/kg	2140	528	5	06/11/18 19:21	06/13/18 13:04	206-44-0	
Fluorene	**580**	ug/kg	427	19.5	1	06/11/18 19:21	06/12/18 21:00	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	427	42.1	1	06/11/18 19:21	06/12/18 21:00	87-68-3	
Hexachlorobenzene	ND	ug/kg	427	47.5	1	06/11/18 19:21	06/12/18 21:00	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	427	210	1	06/11/18 19:21	06/12/18 21:00	77-47-4	
Hexachloroethane	ND	ug/kg	427	23.5	1	06/11/18 19:21	06/12/18 21:00	67-72-1	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-42A **Lab ID: 30255422016** Collected: 06/07/18 14:03 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Indeno(1,2,3-cd)pyrene	**1040**	ug/kg	427	67.0	1	06/11/18 19:21	06/12/18 21:00	193-39-5	
Isophorone	ND	ug/kg	427	36.1	1	06/11/18 19:21	06/12/18 21:00	78-59-1	
1-Methylnaphthalene	ND	ug/kg	427	22.8	1	06/11/18 19:21	06/12/18 21:00	90-12-0	
2-Methylnaphthalene	ND	ug/kg	427	17.6	1	06/11/18 19:21	06/12/18 21:00	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	427	48.5	1	06/11/18 19:21	06/12/18 21:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	855	14.1	1	06/11/18 19:21	06/12/18 21:00		
Naphthalene	ND	ug/kg	427	133	1	06/11/18 19:21	06/12/18 21:00	91-20-3	
2-Nitroaniline	ND	ug/kg	1070	17.1	1	06/11/18 19:21	06/12/18 21:00	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	107	1	06/11/18 19:21	06/12/18 21:00	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	109	1	06/11/18 19:21	06/12/18 21:00	100-01-6	
Nitrobenzene	ND	ug/kg	427	13.2	1	06/11/18 19:21	06/12/18 21:00	98-95-3	
2-Nitrophenol	ND	ug/kg	427	21.8	1	06/11/18 19:21	06/12/18 21:00	88-75-5	
4-Nitrophenol	ND	ug/kg	427	53.9	1	06/11/18 19:21	06/12/18 21:00	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	427	49.0	1	06/11/18 19:21	06/12/18 21:00	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	427	25.2	1	06/11/18 19:21	06/12/18 21:00	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	427	63.0	1	06/11/18 19:21	06/12/18 21:00	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	133	1	06/11/18 19:21	06/12/18 21:00	87-86-5	
Phenanthrene	**6570**	ug/kg	427	13.3	1	06/11/18 19:21	06/12/18 21:00	85-01-8	
Phenol	ND	ug/kg	427	54.4	1	06/11/18 19:21	06/12/18 21:00	108-95-2	
Pyrene	**7170**	ug/kg	427	52.1	1	06/11/18 19:21	06/12/18 21:00	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	427	55.6	1	06/11/18 19:21	06/12/18 21:00	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	74.3	1	06/11/18 19:21	06/12/18 21:00	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	427	137	1	06/11/18 19:21	06/12/18 21:00	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	69	%	10-175		1	06/11/18 19:21	06/12/18 21:00	4165-60-0	
2-Fluorobiphenyl (S)	69	%	10-151		1	06/11/18 19:21	06/12/18 21:00	321-60-8	
Terphenyl-d14 (S)	72	%	10-172		1	06/11/18 19:21	06/12/18 21:00	1718-51-0	
Phenol-d6 (S)	73	%	10-142		1	06/11/18 19:21	06/12/18 21:00	13127-88-3	
2-Fluorophenol (S)	87	%	10-138		1	06/11/18 19:21	06/12/18 21:00	367-12-4	
2,4,6-Tribromophenol (S)	72	%	10-144		1	06/11/18 19:21	06/12/18 21:00	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**130**	ug/kg	13.4	6.3	1	06/12/18 14:39	06/12/18 19:10	67-64-1	2c
Benzene	**6.9**	ug/kg	6.7	1.9	1	06/12/18 14:39	06/12/18 19:10	71-43-2	
Bromochloromethane	ND	ug/kg	6.7	1.8	1	06/12/18 14:39	06/12/18 19:10	74-97-5	
Bromodichloromethane	ND	ug/kg	6.7	1.1	1	06/12/18 14:39	06/12/18 19:10	75-27-4	
Bromoform	ND	ug/kg	6.7	1.1	1	06/12/18 14:39	06/12/18 19:10	75-25-2	
Bromomethane	ND	ug/kg	6.7	4.2	1	06/12/18 14:39	06/12/18 19:10	74-83-9	
TOTAL BTEX	ND	ug/kg	40.1	11.8	1	06/12/18 14:39	06/12/18 19:10		
2-Butanone (MEK)	ND	ug/kg	13.4	3.8	1	06/12/18 14:39	06/12/18 19:10	78-93-3	
Carbon disulfide	ND	ug/kg	6.7	2.8	1	06/12/18 14:39	06/12/18 19:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.7	2.7	1	06/12/18 14:39	06/12/18 19:10	56-23-5	
Chlorobenzene	ND	ug/kg	6.7	2.1	1	06/12/18 14:39	06/12/18 19:10	108-90-7	
Chloroethane	ND	ug/kg	6.7	2.7	1	06/12/18 14:39	06/12/18 19:10	75-00-3	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-42A **Lab ID: 30255422016** Collected: 06/07/18 14:03 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Chloroform	ND	ug/kg	6.7	1.8	1	06/12/18 14:39	06/12/18 19:10	67-66-3	
Chloromethane	ND	ug/kg	6.7	2.7	1	06/12/18 14:39	06/12/18 19:10	74-87-3	
Dibromochloromethane	ND	ug/kg	6.7	0.96	1	06/12/18 14:39	06/12/18 19:10	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	6.7	1.7	1	06/12/18 14:39	06/12/18 19:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.7	1.7	1	06/12/18 14:39	06/12/18 19:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.7	1.6	1	06/12/18 14:39	06/12/18 19:10	106-46-7	
1,1-Dichloroethane	ND	ug/kg	6.7	2.5	1	06/12/18 14:39	06/12/18 19:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.7	1.1	1	06/12/18 14:39	06/12/18 19:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	13.4	5.4	1	06/12/18 14:39	06/12/18 19:10	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.7	4.5	1	06/12/18 14:39	06/12/18 19:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.7	2.3	1	06/12/18 14:39	06/12/18 19:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.7	3.0	1	06/12/18 14:39	06/12/18 19:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.7	1.3	1	06/12/18 14:39	06/12/18 19:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.7	0.96	1	06/12/18 14:39	06/12/18 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.7	1.2	1	06/12/18 14:39	06/12/18 19:10	10061-02-6	
Ethylbenzene	ND	ug/kg	6.7	2.0	1	06/12/18 14:39	06/12/18 19:10	100-41-4	
2-Hexanone	ND	ug/kg	13.4	1.1	1	06/12/18 14:39	06/12/18 19:10	591-78-6	CL
Isopropylbenzene (Cumene)	ND	ug/kg	6.7	1.9	1	06/12/18 14:39	06/12/18 19:10	98-82-8	
Methylene Chloride	ND	ug/kg	6.7	4.3	1	06/12/18 14:39	06/12/18 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.4	1.4	1	06/12/18 14:39	06/12/18 19:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.7	1.1	1	06/12/18 14:39	06/12/18 19:10	1634-04-4	
Naphthalene	ND	ug/kg	6.7	3.0	1	06/12/18 14:39	06/12/18 19:10	91-20-3	
Styrene	ND	ug/kg	6.7	1.6	1	06/12/18 14:39	06/12/18 19:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.7	1.7	1	06/12/18 14:39	06/12/18 19:10	79-34-5	
Tetrachloroethene	ND	ug/kg	6.7	2.5	1	06/12/18 14:39	06/12/18 19:10	127-18-4	
Toluene	ND	ug/kg	6.7	1.9	1	06/12/18 14:39	06/12/18 19:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	6.7	2.6	1	06/12/18 14:39	06/12/18 19:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.7	2.4	1	06/12/18 14:39	06/12/18 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.7	1.2	1	06/12/18 14:39	06/12/18 19:10	79-00-5	
Trichloroethene	ND	ug/kg	6.7	2.7	1	06/12/18 14:39	06/12/18 19:10	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	6.7	1.8	1	06/12/18 14:39	06/12/18 19:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.7	1.8	1	06/12/18 14:39	06/12/18 19:10	108-67-8	
Vinyl chloride	ND	ug/kg	6.7	3.4	1	06/12/18 14:39	06/12/18 19:10	75-01-4	
Xylene (Total)	ND	ug/kg	20.1	5.9	1	06/12/18 14:39	06/12/18 19:10	1330-20-7	
m&p-Xylene	ND	ug/kg	13.4	4.0	1	06/12/18 14:39	06/12/18 19:10	179601-23-1	
o-Xylene	ND	ug/kg	6.7	1.9	1	06/12/18 14:39	06/12/18 19:10	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%	76-124		1	06/12/18 14:39	06/12/18 19:10	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-133		1	06/12/18 14:39	06/12/18 19:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	74-131		1	06/12/18 14:39	06/12/18 19:10	17060-07-0	
Dibromofluoromethane (S)	95	%	71-130		1	06/12/18 14:39	06/12/18 19:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.7**	%	0.10	0.10	1		06/14/18 15:44		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-42A **Lab ID: 30255422016** Collected: 06/07/18 14:03 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank was not received with samples.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**389**	mg/kg	130	19.3	1	06/12/18 09:01	06/12/18 13:40		

NW 8/7/18

Pace Analytical
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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-43A **Lab ID: 30255422017** Collected: 06/07/18 14:07 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	98.8	9.2	5	06/11/18 09:44	06/12/18 23:20	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	98.8	31.7	5	06/11/18 09:44	06/12/18 23:20	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	98.8	13.1	5	06/11/18 09:44	06/12/18 23:20	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	98.8	11.6	5	06/11/18 09:44	06/12/18 23:20	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	98.8	9.6	5	06/11/18 09:44	06/12/18 23:20	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	98.8	10.9	5	06/11/18 09:44	06/12/18 23:20	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	98.8	9.6	5	06/11/18 09:44	06/12/18 23:20	11096-82-5	ED
PCB, Total	ND	ug/kg	889	120	5	06/11/18 09:44	06/12/18 23:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	41-99		5	06/11/18 09:44	06/12/18 23:20	877-09-8	
Decachlorobiphenyl (S)	95	%	55-110		5	06/11/18 09:44	06/12/18 23:20	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**11000**	mg/kg	11.1	2.8	1	06/09/18 07:06	06/12/18 14:38	7429-90-5	
Antimony	**1.8** J	mg/kg	0.66	0.53	1	06/09/18 07:06	06/12/18 14:38	7440-36-0	
Arsenic	**6.8**	mg/kg	0.55	0.53	1	06/09/18 07:06	06/12/18 14:38	7440-38-2	
Barium	**136** J	mg/kg	2.2	0.10	1	06/09/18 07:06	06/12/18 14:38	7440-39-3	
Beryllium	**0.65**	mg/kg	0.22	0.034	1	06/09/18 07:06	06/12/18 14:38	7440-41-7	
Boron	**9.5**	mg/kg	5.5	0.19	1	06/09/18 07:06	06/12/18 14:38	7440-42-8	
Cadmium	**0.72**	mg/kg	0.33	0.067	1	06/09/18 07:06	06/12/18 14:38	7440-43-9	
Calcium	**11100**	mg/kg	221	5.4	1	06/09/18 07:06	06/12/18 14:38	7440-70-2	
Chromium	**23.9**	mg/kg	0.55	0.10	1	06/09/18 07:06	06/12/18 14:38	7440-47-3	
Cobalt	**9.5**	mg/kg	1.1	0.12	1	06/09/18 07:06	06/12/18 14:38	7440-48-4	
Copper	**119** J	mg/kg	1.1	0.65	1	06/09/18 07:06	06/12/18 14:38	7440-50-8	
Iron	**22700**	mg/kg	11.1	1.3	1	06/09/18 07:06	06/12/18 14:38	7439-89-6	
Lead	**333** J	mg/kg	0.55	0.54	1	06/09/18 07:06	06/12/18 14:38	7439-92-1	
Magnesium	**5660**	mg/kg	55.3	6.4	1	06/09/18 07:06	06/12/18 14:38	7439-95-4	
Manganese	**546** J	mg/kg	1.1	0.11	1	06/09/18 07:06	06/12/18 14:38	7439-96-5	
Molybdenum	ND	mg/kg	2.2	0.16	1	06/09/18 07:06	06/12/18 14:38	7439-98-7	
Nickel	**22.4**	mg/kg	2.2	0.27	1	06/09/18 07:06	06/12/18 14:38	7440-02-0	
Potassium	**1410** J	mg/kg	55.3	50.9	1	06/09/18 07:06	06/12/18 14:38	7440-09-7	
Selenium	**1.7**	mg/kg	0.88	0.65	1	06/09/18 07:06	06/13/18 08:11	7782-49-2	
Silver	**2.0**	mg/kg	0.66	0.11	1	06/09/18 07:06	06/12/18 14:38	7440-22-4	
Sodium	ND	mg/kg	553	40.3	1	06/09/18 07:06	06/12/18 14:38	7440-23-5	
Thallium	ND	mg/kg	2.2	0.68	1	06/09/18 07:06	06/12/18 14:38	7440-28-0	
Vanadium	**21.0**	mg/kg	1.1	0.090	1	06/09/18 07:06	06/12/18 14:38	7440-62-2	
Zinc	**305** J	mg/kg	1.1	0.19	1	06/09/18 07:06	06/12/18 14:38	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**1.5**	mg/kg	0.11	0.0054	1	06/09/18 06:04	06/11/18 11:15	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	3910	143	10	06/11/18 19:21	06/12/18 18:46	83-32-9	ED
Acenaphthylene	ND	ug/kg	3910	127	10	06/11/18 19:21	06/12/18 18:46	208-96-8	ED
Anthracene	ND	ug/kg	3910	122	10	06/11/18 19:21	06/12/18 18:46	120-12-7	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-43A **Lab ID: 30255422017** Collected: 06/07/18 14:07 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Azobenzene	ND	ug/kg	3910	136	10	06/11/18 19:21	06/12/18 18:46	103-33-3	~~ED,N2~~
Benzo(a)anthracene	ND	ug/kg	3910	128	10	06/11/18 19:21	06/12/18 18:46	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3910	162	10	06/11/18 19:21	06/12/18 18:46	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3910	582	10	06/11/18 19:21	06/12/18 18:46	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3910	566	10	06/11/18 19:21	06/12/18 18:46	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	3910	694	10	06/11/18 19:21	06/12/18 18:46	207-08-9	ED
Benzoic acid	ND	ug/kg	9770	5370	10	06/11/18 19:21	06/12/18 18:46	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3910	917	10	06/11/18 19:21	06/12/18 18:46	100-51-6	~~5c,ED~~
4-Bromophenylphenyl ether	ND	ug/kg	3910	399	10	06/11/18 19:21	06/12/18 18:46	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3910	408	10	06/11/18 19:21	06/12/18 18:46	85-68-7	ED
Carbazole	ND	ug/kg	3910	402	10	06/11/18 19:21	06/12/18 18:46	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3910	325	10	06/11/18 19:21	06/12/18 18:46	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3910	617	10	06/11/18 19:21	06/12/18 18:46	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3910	179	10	06/11/18 19:21	06/12/18 18:46	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3910	398	10	06/11/18 19:21	06/12/18 18:46	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3910	122	10	06/11/18 19:21	06/12/18 18:46	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3910	143	10	06/11/18 19:21	06/12/18 18:46	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3910	138	10	06/11/18 19:21	06/12/18 18:46	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3910	575	10	06/11/18 19:21	06/12/18 18:46	7005-72-3	ED
Chrysene	ND	ug/kg	3910	1050	10	06/11/18 19:21	06/12/18 18:46	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3910	575	10	06/11/18 19:21	06/12/18 18:46	53-70-3	ED
Dibenzofuran	ND	ug/kg	3910	664	10	06/11/18 19:21	06/12/18 18:46	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3910	845	10	06/11/18 19:21	06/12/18 18:46	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3910	558	10	06/11/18 19:21	06/12/18 18:46	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3910	124	10	06/11/18 19:21	06/12/18 18:46	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3910	1110	10	06/11/18 19:21	06/12/18 18:46	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3910	131	10	06/11/18 19:21	06/12/18 18:46	120-83-2	ED
Diethylphthalate	ND	ug/kg	3910	148	10	06/11/18 19:21	06/12/18 18:46	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3910	394	10	06/11/18 19:21	06/12/18 18:46	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3910	164	10	06/11/18 19:21	06/12/18 18:46	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3910	143	10	06/11/18 19:21	06/12/18 18:46	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9770	761	10	06/11/18 19:21	06/12/18 18:46	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9770	3730	10	06/11/18 19:21	06/12/18 18:46	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3910	189	10	06/11/18 19:21	06/12/18 18:46	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3910	477	10	06/11/18 19:21	06/12/18 18:46	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3910	468	10	06/11/18 19:21	06/12/18 18:46	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3910	759	10	06/11/18 19:21	06/12/18 18:46	117-81-7	ED
Fluoranthene	ND	ug/kg	3910	965	10	06/11/18 19:21	06/12/18 18:46	206-44-0	ED
Fluorene	ND	ug/kg	3910	178	10	06/11/18 19:21	06/12/18 18:46	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3910	385	10	06/11/18 19:21	06/12/18 18:46	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3910	434	10	06/11/18 19:21	06/12/18 18:46	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3910	1920	10	06/11/18 19:21	06/12/18 18:46	77-47-4	ED
Hexachloroethane	ND	ug/kg	3910	215	10	06/11/18 19:21	06/12/18 18:46	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3910	612	10	06/11/18 19:21	06/12/18 18:46	193-39-5	ED
Isophorone	ND	ug/kg	3910	330	10	06/11/18 19:21	06/12/18 18:46	78-59-1	ED

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island Ri
Pace Project No.: 30255422

Sample: SB-43A **Lab ID: 30255422017** Collected: 06/07/18 14:07 Received: 06/08/18 10:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
1-Methylnaphthalene	ND	ug/kg	3910	209	10	06/11/18 19:21	06/12/18 18:46	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3910	161	10	06/11/18 19:21	06/12/18 18:46	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3910	443	10	06/11/18 19:21	06/12/18 18:46	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7810	129	10	06/11/18 19:21	06/12/18 18:46		ED
Naphthalene	ND	ug/kg	3910	1220	10	06/11/18 19:21	06/12/18 18:46	91-20-3	ED
2-Nitroaniline	ND	ug/kg	9770	156	10	06/11/18 19:21	06/12/18 18:46	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9770	978	10	06/11/18 19:21	06/12/18 18:46	99-09-2	ED
4-Nitroaniline	ND	ug/kg	9770	996	10	06/11/18 19:21	06/12/18 18:46	100-01-6	ED
Nitrobenzene	ND	ug/kg	3910	121	10	06/11/18 19:21	06/12/18 18:46	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3910	199	10	06/11/18 19:21	06/12/18 18:46	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3910	493	10	06/11/18 19:21	06/12/18 18:46	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3910	448	10	06/11/18 19:21	06/12/18 18:46	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3910	230	10	06/11/18 19:21	06/12/18 18:46	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3910	576	10	06/11/18 19:21	06/12/18 18:46	86-30-6	ED
Pentachlorophenol	ND	ug/kg	9770	1220	10	06/11/18 19:21	06/12/18 18:46	87-86-5	ED
Phenanthrene	ND	ug/kg	3910	122	10	06/11/18 19:21	06/12/18 18:46	85-01-8	ED
Phenol	ND	ug/kg	3910	497	10	06/11/18 19:21	06/12/18 18:46	108-95-2	ED
Pyrene	ND	ug/kg	3910	476	10	06/11/18 19:21	06/12/18 18:46	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3910	508	10	06/11/18 19:21	06/12/18 18:46	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9770	679	10	06/11/18 19:21	06/12/18 18:46	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3910	1250	10	06/11/18 19:21	06/12/18 18:46	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	64	%	10-175		10	06/11/18 19:21	06/12/18 18:46	4165-60-0	
2-Fluorobiphenyl (S)	73	%	10-151		10	06/11/18 19:21	06/12/18 18:46	321-60-8	
Terphenyl-d14 (S)	78	%	10-172		10	06/11/18 19:21	06/12/18 18:46	1718-51-0	
Phenol-d6 (S)	72	%	10-142		10	06/11/18 19:21	06/12/18 18:46	13127-88-3	
2-Fluorophenol (S)	83	%	10-138		10	06/11/18 19:21	06/12/18 18:46	367-12-4	
2,4,6-Tribromophenol (S)	65	%	10-144		10	06/11/18 19:21	06/12/18 18:46	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.2**	%	0.10	0.10	1		06/14/18 15:44		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: 30255528
Laboratory: Pace Analytical Services, LLC, Greensburg, Pennsylvania
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	BS-10A	30255528001	Soil
2	BS-10B	30255528002	Soil

A Data Usability Summary Review was performed on the analytical data for two soil samples collected on June 8, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions"*.

Specific method references are as follows:

Analysis	*Method References*
VOCs	USEPA SW-846 Method 8260C
SVOCs	USEPA SW-846 Method 8270D
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
TPH	USEPA SW-846 Method 9071B
Metals/Hg	USEPA SW-846 Methods 6010C/7471B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 0, July 2015: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;
- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for soil samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibration exhibited acceptable %RSD values and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent difference (%D) and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Semivolatile Organics Compounds (SVOCs)

Holding Times

- The samples were extracted within 14 days for soil samples and analyzed within 40 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent difference (%D) and RRF values.

Method Blank

- The method blank was free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Pesticides

Holding Times

- The sample was extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Polychlorinated Biphenyls (PCBs)

Holding Times

- The sample was extracted within 14 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Total Petroleum Hydrocarbons (TPH)

Holding Times

- The sample was extracted within 7 days for soil samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Metals & Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

ICP Interference Check Samples

- The ICP interference check samples exhibited acceptable recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples (REFERENCE) that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
REFERENCE	Mercury	OK/140%/OK	J	All Samples
	Aluminum	314%/22%/174	None	4X Rule Applies
	Antimony	49%/53%/OK	J/UJ	All Samples
	Calcium	70%/59%/OK		

EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
REFERENCE	Iron	-288%/26%/200	None	4X Rule Applies
	Magnesium	OK/42%/OK		
	Manganese	136%/-24%/200		
	Potassium	127%/50%/87	J	All Samples

Laboratory Control Samples

- The LCS sample exhibited acceptable recoveries.

ICP Serial Dilution

- ICP serial dilution percent differences (%D) were within acceptance limits except the following. For a high %D, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

EDS Sample ID	Compound	%D	Qualifier	Affected Samples
1	Aluminum	19.8%	J	All Samples
	Barium	19.8%		
	Calcium	21.0%	None	See MS/MSD
	Copper	20.0%	J	All Samples
	Iron	24.4%		
	Lead	15.2%		
	Magnesium	24.0%		
	Manganese	24.3%		
	Potassium	23.8%	None	See MS/MSD
	Zinc	23.6%	J	All Samples

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/8/18

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10A **Lab ID: 30255528001** Collected: 06/08/18 09:04 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	2.1	0.37	1	06/11/18 09:44	06/12/18 18:18	309-00-2	
alpha-BHC	ND	ug/kg	2.1	0.40	1	06/11/18 09:44	06/12/18 18:18	319-84-6	
beta-BHC	ND	ug/kg	2.1	1.5	1	06/11/18 09:44	06/12/18 18:18	319-85-7	
delta-BHC	ND	ug/kg	2.1	2.0	1	06/11/18 09:44	06/12/18 18:18	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	2.1	0.54	1	06/11/18 09:44	06/12/18 18:18	58-89-9	
alpha-Chlordane	ND	ug/kg	2.1	0.22	1	06/11/18 09:44	06/12/18 18:18	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.1	0.54	1	06/11/18 09:44	06/12/18 18:18	5103-74-2	
4,4'-DDD	ND	ug/kg	4.1	1.4	1	06/11/18 09:44	06/12/18 18:18	72-54-8	
4,4'-DDE	ND	ug/kg	4.1	0.73	1	06/11/18 09:44	06/12/18 18:18	72-55-9	
4,4'-DDT	ND	ug/kg	4.1	1.1	1	06/11/18 09:44	06/12/18 18:18	50-29-3	
Dieldrin	ND	ug/kg	4.1	0.43	1	06/11/18 09:44	06/12/18 18:18	60-57-1	
Endosulfan I	ND	ug/kg	2.1	0.25	1	06/11/18 09:44	06/12/18 18:18	959-98-8	
Endosulfan II	ND	ug/kg	4.1	0.59	1	06/11/18 09:44	06/12/18 18:18	33213-65-9	
Endosulfan sulfate	ND	ug/kg	4.1	0.37	1	06/11/18 09:44	06/12/18 18:18	1031-07-8	
Endrin	ND	ug/kg	4.1	0.65	1	06/11/18 09:44	06/12/18 18:18	72-20-8	
Endrin aldehyde	ND	ug/kg	4.1	0.98	1	06/11/18 09:44	06/12/18 18:18	7421-93-4	~~CH~~
Endrin ketone	ND	ug/kg	4.1	0.38	1	06/11/18 09:44	06/12/18 18:18	53494-70-5	
Heptachlor	ND	ug/kg	2.1	0.25	1	06/11/18 09:44	06/12/18 18:18	76-44-8	
Heptachlor epoxide	ND	ug/kg	2.1	0.58	1	06/11/18 09:44	06/12/18 18:18	1024-57-3	
Methoxychlor	ND	ug/kg	20.6	2.0	1	06/11/18 09:44	06/12/18 18:18	72-43-5	
Toxaphene	ND	ug/kg	20.6	6.8	1	06/11/18 09:44	06/12/18 18:18	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	71	%	37-113		1	06/11/18 09:44	06/12/18 18:18	877-09-8	
Decachlorobiphenyl (S)	55	%	39-122		1	06/11/18 09:44	06/12/18 18:18	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	20.6	1.9	1	06/11/18 09:44	06/13/18 00:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	20.6	6.6	1	06/11/18 09:44	06/13/18 00:44	11104-28-2	CH
PCB-1232 (Aroclor 1232)	ND	ug/kg	20.6	2.7	1	06/11/18 09:44	06/13/18 00:44	11141-16-5	CH
PCB-1242 (Aroclor 1242)	ND	ug/kg	20.6	2.4	1	06/11/18 09:44	06/13/18 00:44	53469-21-9	CH
PCB-1248 (Aroclor 1248)	ND	ug/kg	20.6	2.0	1	06/11/18 09:44	06/13/18 00:44	12672-29-6	CH
PCB-1254 (Aroclor 1254)	ND	ug/kg	20.6	2.3	1	06/11/18 09:44	06/13/18 00:44	11097-69-1	CH
PCB-1260 (Aroclor 1260)	ND	ug/kg	20.6	2.0	1	06/11/18 09:44	06/13/18 00:44	11096-82-5	CH
PCB, Total	ND	ug/kg	185	24.9	1	06/11/18 09:44	06/13/18 00:44	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	71	%	41-99		1	06/11/18 09:44	06/13/18 00:44	877-09-8	
Decachlorobiphenyl (S)	67	%	55-110		1	06/11/18 09:44	06/13/18 00:44	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**9270** J	mg/kg	11.4	2.8	1	06/12/18 09:47	06/13/18 09:58	7429-90-5	~~2c,4c~~
Antimony	~~ND~~ U J	mg/kg	0.68	0.55	1	06/12/18 09:47	06/13/18 08:39	7440-36-0	
Arsenic	**14.0**	mg/kg	0.57	0.55	1	06/12/18 09:47	06/13/18 08:39	7440-38-2	4c
Barium	**139** J	mg/kg	2.3	0.11	1	06/12/18 09:47	06/13/18 08:39	7440-39-3	4c
Beryllium	**0.65**	mg/kg	0.23	0.035	1	06/12/18 09:47	06/13/18 08:39	7440-41-7	4c

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10A **Lab ID: 30255528001** Collected: 06/08/18 09:04 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Boron	ND	mg/kg	5.7	0.20	1	06/12/18 09:47	06/13/18 08:39	7440-42-8	
Cadmium	**0.67**	mg/kg	0.34	0.069	1	06/12/18 09:47	06/13/18 08:39	7440-43-9	
Calcium	**8010** J	mg/kg	228	5.5	1	06/12/18 09:47	06/13/18 08:39	7440-70-2	3c,4c
Chromium	**16.6**	mg/kg	0.57	0.10	1	06/12/18 09:47	06/13/18 08:39	7440-47-3	
Cobalt	**10.1**	mg/kg	1.1	0.12	1	06/12/18 09:47	06/13/18 08:39	7440-48-4	
Copper	**69.4** J	mg/kg	1.1	0.66	1	06/12/18 09:47	06/13/18 09:58	7440-50-8	4c
Iron	**17300** J	mg/kg	11.4	1.3	1	06/12/18 09:47	06/13/18 08:39	7439-89-6	3c,4c
Lead	**315** J	mg/kg	0.57	0.56	1	06/12/18 09:47	06/13/18 08:39	7439-92-1	4c
Magnesium	**2870** J	mg/kg	56.9	6.6	1	06/12/18 09:47	06/13/18 08:39	7439-95-4	3c,4c
Manganese	**485** J	mg/kg	1.1	0.11	1	06/12/18 09:47	06/13/18 08:39	7439-96-5	3c,4c
Molybdenum	ND	mg/kg	2.3	0.16	1	06/12/18 09:47	06/13/18 08:39	7439-98-7	
Nickel	**22.1**	mg/kg	2.3	0.28	1	06/12/18 09:47	06/13/18 08:39	7440-02-0	4c
Potassium	**1370** J	mg/kg	56.9	52.4	1	06/12/18 09:47	06/13/18 09:58	7440-09-7	4c
Selenium	**1.7**	mg/kg	0.91	0.66	1	06/12/18 09:47	06/13/18 08:39	7782-49-2	
Silver	**1.8**	mg/kg	0.68	0.11	1	06/12/18 09:47	06/13/18 08:39	7440-22-4	
Sodium	ND	mg/kg	569	41.4	1	06/12/18 09:47	06/13/18 08:39	7440-23-5	
Thallium	ND	mg/kg	2.3	0.70	1	06/12/18 09:47	06/13/18 08:39	7440-28-0	
Vanadium	**26.7** J	mg/kg	1.1	0.093	1	06/12/18 09:47	06/13/18 08:39	7440-62-2	4c
Zinc	**221**	mg/kg	1.1	0.19	1	06/12/18 09:47	06/13/18 08:39	7440-66-6	3c,4c
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.38** J	mg/kg	0.12	0.0059	1	06/12/18 08:56	06/13/18 21:52	7439-97-6	MH
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	414	15.2	1	06/11/18 19:21	06/12/18 19:53	83-32-9	
Acenaphthylene	ND	ug/kg	414	13.4	1	06/11/18 19:21	06/12/18 19:53	208-96-8	
Anthracene	ND	ug/kg	414	12.9	1	06/11/18 19:21	06/12/18 19:53	120-12-7	
Azobenzene	ND	ug/kg	414	14.4	1	06/11/18 19:21	06/12/18 19:53	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	414	13.6	1	06/11/18 19:21	06/12/18 19:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	414	17.2	1	06/11/18 19:21	06/12/18 19:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	414	61.7	1	06/11/18 19:21	06/12/18 19:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	414	60.1	1	06/11/18 19:21	06/12/18 19:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	414	73.6	1	06/11/18 19:21	06/12/18 19:53	207-08-9	
Benzoic acid	ND	ug/kg	1040	570	1	06/11/18 19:21	06/12/18 19:53	65-85-0	
Benzyl alcohol	ND	ug/kg	414	97.3	1	06/11/18 19:21	06/12/18 19:53	100-51-6	6c
4-Bromophenylphenyl ether	ND	ug/kg	414	42.3	1	06/11/18 19:21	06/12/18 19:53	101-55-3	
Butylbenzylphthalate	ND	ug/kg	414	43.3	1	06/11/18 19:21	06/12/18 19:53	85-68-7	
Carbazole	ND	ug/kg	414	42.7	1	06/11/18 19:21	06/12/18 19:53	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	414	34.4	1	06/11/18 19:21	06/12/18 19:53	59-50-7	
4-Chloroaniline	ND	ug/kg	414	65.4	1	06/11/18 19:21	06/12/18 19:53	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	414	19.0	1	06/11/18 19:21	06/12/18 19:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	414	42.2	1	06/11/18 19:21	06/12/18 19:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	414	12.9	1	06/11/18 19:21	06/12/18 19:53	108-60-1	
2-Chloronaphthalene	ND	ug/kg	414	15.2	1	06/11/18 19:21	06/12/18 19:53	91-58-7	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10A **Lab ID: 30255528001** Collected: 06/08/18 09:04 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2-Chlorophenol	ND	ug/kg	414	14.7	1	06/11/18 19:21	06/12/18 19:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	414	60.9	1	06/11/18 19:21	06/12/18 19:53	7005-72-3	
Chrysene	ND	ug/kg	414	112	1	06/11/18 19:21	06/12/18 19:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	414	60.9	1	06/11/18 19:21	06/12/18 19:53	53-70-3	
Dibenzofuran	ND	ug/kg	414	70.4	1	06/11/18 19:21	06/12/18 19:53	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	414	89.7	1	06/11/18 19:21	06/12/18 19:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	414	59.2	1	06/11/18 19:21	06/12/18 19:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	414	13.2	1	06/11/18 19:21	06/12/18 19:53	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	414	118	1	06/11/18 19:21	06/12/18 19:53	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	414	13.9	1	06/11/18 19:21	06/12/18 19:53	120-83-2	
Diethylphthalate	ND	ug/kg	414	15.7	1	06/11/18 19:21	06/12/18 19:53	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	414	41.8	1	06/11/18 19:21	06/12/18 19:53	105-67-9	
Dimethylphthalate	ND	ug/kg	414	17.4	1	06/11/18 19:21	06/12/18 19:53	131-11-3	
Di-n-butylphthalate	ND	ug/kg	414	15.2	1	06/11/18 19:21	06/12/18 19:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1040	80.7	1	06/11/18 19:21	06/12/18 19:53	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1040	395	1	06/11/18 19:21	06/12/18 19:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	414	20.0	1	06/11/18 19:21	06/12/18 19:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	414	50.6	1	06/11/18 19:21	06/12/18 19:53	606-20-2	
Di-n-octylphthalate	ND	ug/kg	414	49.6	1	06/11/18 19:21	06/12/18 19:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	414	80.5	1	06/11/18 19:21	06/12/18 19:53	117-81-7	
Fluoranthene	ND	ug/kg	414	102	1	06/11/18 19:21	06/12/18 19:53	206-44-0	
Fluorene	ND	ug/kg	414	18.9	1	06/11/18 19:21	06/12/18 19:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	414	40.8	1	06/11/18 19:21	06/12/18 19:53	87-68-3	
Hexachlorobenzene	ND	ug/kg	414	46.0	1	06/11/18 19:21	06/12/18 19:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	414	204	1	06/11/18 19:21	06/12/18 19:53	77-47-4	
Hexachloroethane	ND	ug/kg	414	22.8	1	06/11/18 19:21	06/12/18 19:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	414	64.9	1	06/11/18 19:21	06/12/18 19:53	193-39-5	
Isophorone	ND	ug/kg	414	34.9	1	06/11/18 19:21	06/12/18 19:53	78-59-1	
1-Methylnaphthalene	ND	ug/kg	414	22.1	1	06/11/18 19:21	06/12/18 19:53	90-12-0	
2-Methylnaphthalene	ND	ug/kg	414	17.0	1	06/11/18 19:21	06/12/18 19:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	414	47.0	1	06/11/18 19:21	06/12/18 19:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	828	13.7	1	06/11/18 19:21	06/12/18 19:53		
Naphthalene	ND	ug/kg	414	129	1	06/11/18 19:21	06/12/18 19:53	91-20-3	
2-Nitroaniline	ND	ug/kg	1040	16.5	1	06/11/18 19:21	06/12/18 19:53	88-74-4	
3-Nitroaniline	ND	ug/kg	1040	104	1	06/11/18 19:21	06/12/18 19:53	99-09-2	
4-Nitroaniline	ND	ug/kg	1040	106	1	06/11/18 19:21	06/12/18 19:53	100-01-6	
Nitrobenzene	ND	ug/kg	414	12.8	1	06/11/18 19:21	06/12/18 19:53	98-95-3	
2-Nitrophenol	ND	ug/kg	414	21.1	1	06/11/18 19:21	06/12/18 19:53	88-75-5	
4-Nitrophenol	ND	ug/kg	414	52.2	1	06/11/18 19:21	06/12/18 19:53	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	414	47.5	1	06/11/18 19:21	06/12/18 19:53	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	414	24.4	1	06/11/18 19:21	06/12/18 19:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	414	61.1	1	06/11/18 19:21	06/12/18 19:53	86-30-6	
Pentachlorophenol	ND	ug/kg	1040	129	1	06/11/18 19:21	06/12/18 19:53	87-86-5	
Phenanthrene	ND	ug/kg	414	12.9	1	06/11/18 19:21	06/12/18 19:53	85-01-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

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1638 Roseytown Road - Suites 2,3,4
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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10A **Lab ID: 30255528001** Collected: 06/08/18 09:04 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Phenol	ND	ug/kg	414	52.7	1	06/11/18 19:21	06/12/18 19:53	108-95-2	
Pyrene	ND	ug/kg	414	50.5	1	06/11/18 19:21	06/12/18 19:53	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	414	53.9	1	06/11/18 19:21	06/12/18 19:53	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1040	72.0	1	06/11/18 19:21	06/12/18 19:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	414	133	1	06/11/18 19:21	06/12/18 19:53	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	73	%	10-175		1	06/11/18 19:21	06/12/18 19:53	4165-60-0	
2-Fluorobiphenyl (S)	70	%	10-151		1	06/11/18 19:21	06/12/18 19:53	321-60-8	
Terphenyl-d14 (S)	64	%	10-172		1	06/11/18 19:21	06/12/18 19:53	1718-51-0	
Phenol-d6 (S)	72	%	10-142		1	06/11/18 19:21	06/12/18 19:53	13127-88-3	
2-Fluorophenol (S)	86	%	10-138		1	06/11/18 19:21	06/12/18 19:53	367-12-4	
2,4,6-Tribromophenol (S)	67	%	10-144		1	06/11/18 19:21	06/12/18 19:53	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**213**	ug/kg	21.4	10.2	1	06/12/18 14:39	06/12/18 19:37	67-64-1	5c
Benzene	ND	ug/kg	10.7	3.1	1	06/12/18 14:39	06/12/18 19:37	71-43-2	
Bromochloromethane	ND	ug/kg	10.7	2.9	1	06/12/18 14:39	06/12/18 19:37	74-97-5	
Bromodichloromethane	ND	ug/kg	10.7	1.7	1	06/12/18 14:39	06/12/18 19:37	75-27-4	
Bromoform	ND	ug/kg	10.7	1.7	1	06/12/18 14:39	06/12/18 19:37	75-25-2	
Bromomethane	ND	ug/kg	10.7	6.7	1	06/12/18 14:39	06/12/18 19:37	74-83-9	
TOTAL BTEX	ND	ug/kg	64.3	18.9	1	06/12/18 14:39	06/12/18 19:37		
2-Butanone (MEK)	ND	ug/kg	21.4	6.1	1	06/12/18 14:39	06/12/18 19:37	78-93-3	
Carbon disulfide	ND	ug/kg	10.7	4.4	1	06/12/18 14:39	06/12/18 19:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	10.7	4.4	1	06/12/18 14:39	06/12/18 19:37	56-23-5	
Chlorobenzene	ND	ug/kg	10.7	3.3	1	06/12/18 14:39	06/12/18 19:37	108-90-7	
Chloroethane	ND	ug/kg	10.7	4.4	1	06/12/18 14:39	06/12/18 19:37	75-00-3	
Chloroform	ND	ug/kg	10.7	2.9	1	06/12/18 14:39	06/12/18 19:37	67-66-3	
Chloromethane	ND	ug/kg	10.7	4.3	1	06/12/18 14:39	06/12/18 19:37	74-87-3	
Dibromochloromethane	ND	ug/kg	10.7	1.5	1	06/12/18 14:39	06/12/18 19:37	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	10.7	2.7	1	06/12/18 14:39	06/12/18 19:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	10.7	2.8	1	06/12/18 14:39	06/12/18 19:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	10.7	2.6	1	06/12/18 14:39	06/12/18 19:37	106-46-7	
1,1-Dichloroethane	ND	ug/kg	10.7	4.0	1	06/12/18 14:39	06/12/18 19:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	10.7	1.8	1	06/12/18 14:39	06/12/18 19:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	21.4	8.6	1	06/12/18 14:39	06/12/18 19:37	540-59-0	
1,1-Dichloroethene	ND	ug/kg	10.7	7.2	1	06/12/18 14:39	06/12/18 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	10.7	3.8	1	06/12/18 14:39	06/12/18 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	10.7	4.8	1	06/12/18 14:39	06/12/18 19:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	10.7	2.1	1	06/12/18 14:39	06/12/18 19:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	10.7	1.5	1	06/12/18 14:39	06/12/18 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	10.7	2.0	1	06/12/18 14:39	06/12/18 19:37	10061-02-6	
Ethylbenzene	ND	ug/kg	10.7	3.3	1	06/12/18 14:39	06/12/18 19:37	100-41-4	
2-Hexanone	ND	ug/kg	21.4	1.7	1	06/12/18 14:39	06/12/18 19:37	591-78-6	CL
Isopropylbenzene (Cumene)	ND	ug/kg	10.7	3.1	1	06/12/18 14:39	06/12/18 19:37	98-82-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10A **Lab ID: 30255528001** Collected: 06/08/18 09:04 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Methylene Chloride	ND	ug/kg	10.7	7.0	1	06/12/18 14:39	06/12/18 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.4	2.2	1	06/12/18 14:39	06/12/18 19:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	10.7	1.7	1	06/12/18 14:39	06/12/18 19:37	1634-04-4	
Naphthalene	ND	ug/kg	10.7	4.8	1	06/12/18 14:39	06/12/18 19:37	91-20-3	
Styrene	ND	ug/kg	10.7	2.5	1	06/12/18 14:39	06/12/18 19:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.7	2.7	1	06/12/18 14:39	06/12/18 19:37	79-34-5	
Tetrachloroethene	**43.3**	ug/kg	10.7	4.0	1	06/12/18 14:39	06/12/18 19:37	127-18-4	
Toluene	ND	ug/kg	10.7	3.1	1	06/12/18 14:39	06/12/18 19:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	10.7	4.2	1	06/12/18 14:39	06/12/18 19:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	10.7	3.9	1	06/12/18 14:39	06/12/18 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	10.7	1.9	1	06/12/18 14:39	06/12/18 19:37	79-00-5	
Trichloroethene	ND	ug/kg	10.7	4.3	1	06/12/18 14:39	06/12/18 19:37	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	10.7	2.8	1	06/12/18 14:39	06/12/18 19:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	10.7	2.9	1	06/12/18 14:39	06/12/18 19:37	108-67-8	
Vinyl chloride	ND	ug/kg	10.7	5.5	1	06/12/18 14:39	06/12/18 19:37	75-01-4	
Xylene (Total)	ND	ug/kg	32.2	9.4	1	06/12/18 14:39	06/12/18 19:37	1330-20-7	
m&p-Xylene	ND	ug/kg	21.4	6.4	1	06/12/18 14:39	06/12/18 19:37	179601-23-1	
o-Xylene	ND	ug/kg	10.7	3.0	1	06/12/18 14:39	06/12/18 19:37	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	76-124		1	06/12/18 14:39	06/12/18 19:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-133		1	06/12/18 14:39	06/12/18 19:37	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	74-131		1	06/12/18 14:39	06/12/18 19:37	17060-07-0	
Dibromofluoromethane (S)	97	%	71-130		1	06/12/18 14:39	06/12/18 19:37	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.1**	%	0.10	0.10	1		06/12/18 15:15		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**150**	mg/kg	125	18.7	1	06/13/18 09:45	06/14/18 08:46		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10B **Lab ID: 30255528002** Collected: 06/08/18 09:05 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides	Analytical Method: EPA 8081B Preparation Method: EPA 3546								
Aldrin	ND	ug/kg	9.0	1.6	5	06/11/18 09:44	06/12/18 18:36	309-00-2	ED
alpha-BHC	ND	ug/kg	9.0	1.8	5	06/11/18 09:44	06/12/18 18:36	319-84-6	ED
beta-BHC	ND	ug/kg	9.0	6.6	5	06/11/18 09:44	06/12/18 18:36	319-85-7	ED
delta-BHC	ND	ug/kg	9.0	8.7	5	06/11/18 09:44	06/12/18 18:36	319-86-8	ED
gamma-BHC (Lindane)	ND	ug/kg	9.0	2.4	5	06/11/18 09:44	06/12/18 18:36	58-89-9	ED
alpha-Chlordane	ND	ug/kg	9.0	0.97	5	06/11/18 09:44	06/12/18 18:36	5103-71-9	ED
gamma-Chlordane	ND	ug/kg	9.0	2.3	5	06/11/18 09:44	06/12/18 18:36	5103-74-2	ED
4,4'-DDD	ND	ug/kg	17.9	5.9	5	06/11/18 09:44	06/12/18 18:36	72-54-8	ED
4,4'-DDE	ND	ug/kg	17.9	3.2	5	06/11/18 09:44	06/12/18 18:36	72-55-9	ED
4,4'-DDT	ND	ug/kg	17.9	4.7	5	06/11/18 09:44	06/12/18 18:36	50-29-3	ED
Dieldrin	ND	ug/kg	17.9	1.9	5	06/11/18 09:44	06/12/18 18:36	60-57-1	ED
Endosulfan I	ND	ug/kg	9.0	1.1	5	06/11/18 09:44	06/12/18 18:36	959-98-8	ED
Endosulfan II	ND	ug/kg	17.9	2.6	5	06/11/18 09:44	06/12/18 18:36	33213-65-9	ED
Endosulfan sulfate	ND	ug/kg	17.9	1.6	5	06/11/18 09:44	06/12/18 18:36	1031-07-8	ED
Endrin	ND	ug/kg	17.9	2.8	5	06/11/18 09:44	06/12/18 18:36	72-20-8	ED
Endrin aldehyde	ND	ug/kg	17.9	4.3	5	06/11/18 09:44	06/12/18 18:36	7421-93-4	CH,ED
Endrin ketone	ND	ug/kg	17.9	1.6	5	06/11/18 09:44	06/12/18 18:36	53494-70-5	ED
Heptachlor	ND	ug/kg	9.0	1.1	5	06/11/18 09:44	06/12/18 18:36	76-44-8	ED
Heptachlor epoxide	ND	ug/kg	9.0	2.5	5	06/11/18 09:44	06/12/18 18:36	1024-57-3	ED
Methoxychlor	ND	ug/kg	89.7	8.7	5	06/11/18 09:44	06/12/18 18:36	72-43-5	ED
Toxaphene	ND	ug/kg	89.7	29.5	5	06/11/18 09:44	06/12/18 18:36	8001-35-2	ED
Surrogates									
Tetrachloro-m-xylene (S)	95	%	37-113		5	06/11/18 09:44	06/12/18 18:36	877-09-8	
Decachlorobiphenyl (S)	92	%	39-122		5	06/11/18 09:44	06/12/18 18:36	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	89.7	8.4	5	06/11/18 09:44	06/13/18 00:53	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	89.7	28.8	5	06/11/18 09:44	06/13/18 00:53	11104-28-2	CH,ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	89.7	11.9	5	06/11/18 09:44	06/13/18 00:53	11141-16-5	CH,ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	89.7	10.5	5	06/11/18 09:44	06/13/18 00:53	53469-21-9	CH,ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	89.7	8.7	5	06/11/18 09:44	06/13/18 00:53	12672-29-6	CH,ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	89.7	9.9	5	06/11/18 09:44	06/13/18 00:53	11097-69-1	CH,ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	89.7	8.7	5	06/11/18 09:44	06/13/18 00:53	11096-82-5	CH,ED
PCB, Total	ND	ug/kg	807	109	5	06/11/18 09:44	06/13/18 00:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	41-99		5	06/11/18 09:44	06/13/18 00:53	877-09-8	
Decachlorobiphenyl (S)	89	%	55-110		5	06/11/18 09:44	06/13/18 00:53	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Aluminum	**11000** J	mg/kg	9.8	2.5	1	06/12/18 09:47	06/13/18 10:04	7429-90-5	
Antimony	ND UJ	mg/kg	0.59	0.47	1	06/12/18 09:47	06/13/18 08:54	7440-36-0	
Arsenic	**7.9**	mg/kg	0.49	0.47	1	06/12/18 09:47	06/13/18 08:54	7440-38-2	
Barium	**88.2** J	mg/kg	2.0	0.092	1	06/12/18 09:47	06/13/18 08:54	7440-39-3	
Beryllium	**0.53**	mg/kg	0.20	0.030	1	06/12/18 09:47	06/13/18 08:54	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10B **Lab ID: 30255528002** Collected: 06/08/18 09:05 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Boron	ND	mg/kg	4.9	0.17	1	06/12/18 09:47	06/13/18 08:54	7440-42-8	
Cadmium	**0.38**	mg/kg	0.29	0.060	1	06/12/18 09:47	06/13/18 08:54	7440-43-9	
Calcium	**18400** J	mg/kg	196	4.8	1	06/12/18 09:47	06/13/18 08:54	7440-70-2	
Chromium	**14.7**	mg/kg	0.49	0.090	1	06/12/18 09:47	06/13/18 08:54	7440-47-3	
Cobalt	**12.1**	mg/kg	0.98	0.10	1	06/12/18 09:47	06/13/18 08:54	7440-48-4	
Copper	**37.4** J	mg/kg	0.98	0.57	1	06/12/18 09:47	06/13/18 10:04	7440-50-8	
Iron	**20500** J	mg/kg	9.8	1.1	1	06/12/18 09:47	06/13/18 08:54	7439-89-6	
Lead	**114** J	mg/kg	0.49	0.48	1	06/12/18 09:47	06/13/18 08:54	7439-92-1	
Magnesium	**7550** J	mg/kg	49.1	5.7	1	06/12/18 09:47	06/13/18 08:54	7439-95-4	
Manganese	**442** J	mg/kg	0.98	0.098	1	06/12/18 09:47	06/13/18 08:54	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	06/12/18 09:47	06/13/18 08:54	7439-98-7	
Nickel	**23.7**	mg/kg	2.0	0.24	1	06/12/18 09:47	06/13/18 08:54	7440-02-0	
Potassium	**1310** J	mg/kg	49.1	45.2	1	06/12/18 09:47	06/13/18 10:04	7440-09-7	
Selenium	**1.5**	mg/kg	0.79	0.57	1	06/12/18 09:47	06/13/18 08:54	7782-49-2	
Silver	**0.75**	mg/kg	0.59	0.095	1	06/12/18 09:47	06/13/18 08:54	7440-22-4	
Sodium	ND	mg/kg	491	35.7	1	06/12/18 09:47	06/13/18 08:54	7440-23-5	
Thallium	ND	mg/kg	2.0	0.60	1	06/12/18 09:47	06/13/18 08:54	7440-28-0	
Vanadium	**19.6** J	mg/kg	0.98	0.080	1	06/12/18 09:47	06/13/18 08:54	7440-62-2	
Zinc	**125**	mg/kg	0.98	0.16	1	06/12/18 09:47	06/13/18 08:54	7440-66-6	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	**0.36** J	mg/kg	0.11	0.0052	1	06/12/18 08:56	06/13/18 22:04	7439-97-6	
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	361	13.2	1	06/11/18 19:21	06/12/18 21:45	83-32-9	
Acenaphthylene	ND	ug/kg	361	11.7	1	06/11/18 19:21	06/12/18 21:45	208-96-8	
Anthracene	ND	ug/kg	361	11.3	1	06/11/18 19:21	06/12/18 21:45	120-12-7	
Azobenzene	ND	ug/kg	361	12.6	1	06/11/18 19:21	06/12/18 21:45	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	361	11.8	1	06/11/18 19:21	06/12/18 21:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	361	14.9	1	06/11/18 19:21	06/12/18 21:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	361	53.7	1	06/11/18 19:21	06/12/18 21:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	361	52.3	1	06/11/18 19:21	06/12/18 21:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	361	64.1	1	06/11/18 19:21	06/12/18 21:45	207-08-9	
Benzoic acid	ND	ug/kg	902	496	1	06/11/18 19:21	06/12/18 21:45	65-85-0	
Benzyl alcohol	ND	ug/kg	361	84.7	1	06/11/18 19:21	06/12/18 21:45	100-51-6	6c
4-Bromophenylphenyl ether	ND	ug/kg	361	36.8	1	06/11/18 19:21	06/12/18 21:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	361	37.7	1	06/11/18 19:21	06/12/18 21:45	85-68-7	
Carbazole	ND	ug/kg	361	37.2	1	06/11/18 19:21	06/12/18 21:45	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	361	30.0	1	06/11/18 19:21	06/12/18 21:45	59-50-7	
4-Chloroaniline	ND	ug/kg	361	57.0	1	06/11/18 19:21	06/12/18 21:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	361	16.6	1	06/11/18 19:21	06/12/18 21:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	361	36.7	1	06/11/18 19:21	06/12/18 21:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	361	11.3	1	06/11/18 19:21	06/12/18 21:45	108-60-1	
2-Chloronaphthalene	ND	ug/kg	361	13.2	1	06/11/18 19:21	06/12/18 21:45	91-58-7	

NW 6/7/18

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10B **Lab ID: 30255528002** Collected: 06/08/18 09:05 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
2-Chlorophenol	ND	ug/kg	361	12.8	1	06/11/18 19:21	06/12/18 21:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	361	53.1	1	06/11/18 19:21	06/12/18 21:45	7005-72-3	
Chrysene	ND	ug/kg	361	97.4	1	06/11/18 19:21	06/12/18 21:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	361	53.1	1	06/11/18 19:21	06/12/18 21:45	53-70-3	
Dibenzofuran	ND	ug/kg	361	61.3	1	06/11/18 19:21	06/12/18 21:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	361	78.1	1	06/11/18 19:21	06/12/18 21:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	361	51.6	1	06/11/18 19:21	06/12/18 21:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	361	11.5	1	06/11/18 19:21	06/12/18 21:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	361	103	1	06/11/18 19:21	06/12/18 21:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	361	12.1	1	06/11/18 19:21	06/12/18 21:45	120-83-2	
Diethylphthalate	ND	ug/kg	361	13.6	1	06/11/18 19:21	06/12/18 21:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	361	36.4	1	06/11/18 19:21	06/12/18 21:45	105-67-9	
Dimethylphthalate	ND	ug/kg	361	15.2	1	06/11/18 19:21	06/12/18 21:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	361	13.2	1	06/11/18 19:21	06/12/18 21:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	902	70.3	1	06/11/18 19:21	06/12/18 21:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	902	344	1	06/11/18 19:21	06/12/18 21:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	361	17.4	1	06/11/18 19:21	06/12/18 21:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	361	44.1	1	06/11/18 19:21	06/12/18 21:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	361	43.2	1	06/11/18 19:21	06/12/18 21:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	361	70.1	1	06/11/18 19:21	06/12/18 21:45	117-81-7	
Fluoranthene	ND	ug/kg	361	89.1	1	06/11/18 19:21	06/12/18 21:45	206-44-0	
Fluorene	ND	ug/kg	361	16.5	1	06/11/18 19:21	06/12/18 21:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	361	35.5	1	06/11/18 19:21	06/12/18 21:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	361	40.1	1	06/11/18 19:21	06/12/18 21:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	361	178	1	06/11/18 19:21	06/12/18 21:45	77-47-4	
Hexachloroethane	ND	ug/kg	361	19.8	1	06/11/18 19:21	06/12/18 21:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	361	56.5	1	06/11/18 19:21	06/12/18 21:45	193-39-5	
Isophorone	ND	ug/kg	361	30.4	1	06/11/18 19:21	06/12/18 21:45	78-59-1	
1-Methylnaphthalene	ND	ug/kg	361	19.3	1	06/11/18 19:21	06/12/18 21:45	90-12-0	
2-Methylnaphthalene	ND	ug/kg	361	14.8	1	06/11/18 19:21	06/12/18 21:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	361	40.9	1	06/11/18 19:21	06/12/18 21:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	721	11.9	1	06/11/18 19:21	06/12/18 21:45		
Naphthalene	ND	ug/kg	361	113	1	06/11/18 19:21	06/12/18 21:45	91-20-3	
2-Nitroaniline	ND	ug/kg	902	14.4	1	06/11/18 19:21	06/12/18 21:45	88-74-4	
3-Nitroaniline	ND	ug/kg	902	90.3	1	06/11/18 19:21	06/12/18 21:45	99-09-2	
4-Nitroaniline	ND	ug/kg	902	92.0	1	06/11/18 19:21	06/12/18 21:45	100-01-6	
Nitrobenzene	ND	ug/kg	361	11.2	1	06/11/18 19:21	06/12/18 21:45	98-95-3	
2-Nitrophenol	ND	ug/kg	361	18.4	1	06/11/18 19:21	06/12/18 21:45	88-75-5	
4-Nitrophenol	ND	ug/kg	361	45.5	1	06/11/18 19:21	06/12/18 21:45	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	361	41.4	1	06/11/18 19:21	06/12/18 21:45	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	361	21.2	1	06/11/18 19:21	06/12/18 21:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	361	53.2	1	06/11/18 19:21	06/12/18 21:45	86-30-6	
Pentachlorophenol	ND	ug/kg	902	113	1	06/11/18 19:21	06/12/18 21:45	87-86-5	
Phenanthrene	ND	ug/kg	361	11.3	1	06/11/18 19:21	06/12/18 21:45	85-01-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10B **Lab ID: 30255528002** Collected: 06/08/18 09:05 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave	Analytical Method: EPA 8270D Preparation Method: EPA 3546								
Phenol	ND	ug/kg	361	45.9	1	06/11/18 19:21	06/12/18 21:45	108-95-2	
Pyrene	ND	ug/kg	361	44.0	1	06/11/18 19:21	06/12/18 21:45	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	361	46.9	1	06/11/18 19:21	06/12/18 21:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	902	62.7	1	06/11/18 19:21	06/12/18 21:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	361	116	1	06/11/18 19:21	06/12/18 21:45	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%	10-175		1	06/11/18 19:21	06/12/18 21:45	4165-60-0	
2-Fluorobiphenyl (S)	76	%	10-151		1	06/11/18 19:21	06/12/18 21:45	321-60-8	
Terphenyl-d14 (S)	81	%	10-172		1	06/11/18 19:21	06/12/18 21:45	1718-51-0	
Phenol-d6 (S)	78	%	10-142		1	06/11/18 19:21	06/12/18 21:45	13127-88-3	
2-Fluorophenol (S)	92	%	10-138		1	06/11/18 19:21	06/12/18 21:45	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-144		1	06/11/18 19:21	06/12/18 21:45	118-79-6	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Acetone	**213**	ug/kg	17.5	8.3	1	06/12/18 14:39	06/12/18 20:03	67-64-1	5c
Benzene	ND	ug/kg	8.8	2.5	1	06/12/18 14:39	06/12/18 20:03	71-43-2	
Bromochloromethane	ND	ug/kg	8.8	2.3	1	06/12/18 14:39	06/12/18 20:03	74-97-5	
Bromodichloromethane	ND	ug/kg	8.8	1.4	1	06/12/18 14:39	06/12/18 20:03	75-27-4	
Bromoform	ND	ug/kg	8.8	1.4	1	06/12/18 14:39	06/12/18 20:03	75-25-2	
Bromomethane	ND	ug/kg	8.8	5.5	1	06/12/18 14:39	06/12/18 20:03	74-83-9	
TOTAL BTEX	ND	ug/kg	52.5	15.4	1	06/12/18 14:39	06/12/18 20:03		
2-Butanone (MEK)	ND	ug/kg	17.5	5.0	1	06/12/18 14:39	06/12/18 20:03	78-93-3	
Carbon disulfide	ND	ug/kg	8.8	3.6	1	06/12/18 14:39	06/12/18 20:03	75-15-0	
Carbon tetrachloride	ND	ug/kg	8.8	3.6	1	06/12/18 14:39	06/12/18 20:03	56-23-5	
Chlorobenzene	ND	ug/kg	8.8	2.7	1	06/12/18 14:39	06/12/18 20:03	108-90-7	
Chloroethane	ND	ug/kg	8.8	3.6	1	06/12/18 14:39	06/12/18 20:03	75-00-3	
Chloroform	ND	ug/kg	8.8	2.3	1	06/12/18 14:39	06/12/18 20:03	67-66-3	
Chloromethane	ND	ug/kg	8.8	3.5	1	06/12/18 14:39	06/12/18 20:03	74-87-3	
Dibromochloromethane	ND	ug/kg	8.8	1.3	1	06/12/18 14:39	06/12/18 20:03	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	8.8	2.2	1	06/12/18 14:39	06/12/18 20:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.8	2.3	1	06/12/18 14:39	06/12/18 20:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.8	2.1	1	06/12/18 14:39	06/12/18 20:03	106-46-7	
1,1-Dichloroethane	ND	ug/kg	8.8	3.3	1	06/12/18 14:39	06/12/18 20:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.8	1.4	1	06/12/18 14:39	06/12/18 20:03	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	17.5	7.0	1	06/12/18 14:39	06/12/18 20:03	540-59-0	
1,1-Dichloroethene	ND	ug/kg	8.8	5.9	1	06/12/18 14:39	06/12/18 20:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.8	3.1	1	06/12/18 14:39	06/12/18 20:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.8	4.0	1	06/12/18 14:39	06/12/18 20:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.8	1.7	1	06/12/18 14:39	06/12/18 20:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	8.8	1.3	1	06/12/18 14:39	06/12/18 20:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.8	1.6	1	06/12/18 14:39	06/12/18 20:03	10061-02-6	
Ethylbenzene	ND	ug/kg	8.8	2.7	1	06/12/18 14:39	06/12/18 20:03	100-41-4	
2-Hexanone	ND	ug/kg	17.5	1.4	1	06/12/18 14:39	06/12/18 20:03	591-78-6	CL
Isopropylbenzene (Cumene)	ND	ug/kg	8.8	2.5	1	06/12/18 14:39	06/12/18 20:03	98-82-8	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30255528

Sample: BS-10B **Lab ID: 30255528002** Collected: 06/08/18 09:05 Received: 06/09/18 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Trip blank not received for VOC analysis.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
Methylene Chloride	ND	ug/kg	8.8	5.7	1	06/12/18 14:39	06/12/18 20:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.5	1.8	1	06/12/18 14:39	06/12/18 20:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	8.8	1.4	1	06/12/18 14:39	06/12/18 20:03	1634-04-4	
Naphthalene	ND	ug/kg	8.8	3.9	1	06/12/18 14:39	06/12/18 20:03	91-20-3	
Styrene	ND	ug/kg	8.8	2.0	1	06/12/18 14:39	06/12/18 20:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.8	2.2	1	06/12/18 14:39	06/12/18 20:03	79-34-5	
Tetrachloroethene	**14.3**	ug/kg	8.8	3.2	1	06/12/18 14:39	06/12/18 20:03	127-18-4	
Toluene	ND	ug/kg	8.8	2.5	1	06/12/18 14:39	06/12/18 20:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	8.8	3.5	1	06/12/18 14:39	06/12/18 20:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.8	3.2	1	06/12/18 14:39	06/12/18 20:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	8.8	1.5	1	06/12/18 14:39	06/12/18 20:03	79-00-5	
Trichloroethene	ND	ug/kg	8.8	3.5	1	06/12/18 14:39	06/12/18 20:03	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	8.8	2.3	1	06/12/18 14:39	06/12/18 20:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.8	2.3	1	06/12/18 14:39	06/12/18 20:03	108-67-8	
Vinyl chloride	ND	ug/kg	8.8	4.5	1	06/12/18 14:39	06/12/18 20:03	75-01-4	
Xylene (Total)	ND	ug/kg	26.3	7.7	1	06/12/18 14:39	06/12/18 20:03	1330-20-7	
m&p-Xylene	ND	ug/kg	17.5	5.2	1	06/12/18 14:39	06/12/18 20:03	179601-23-1	
o-Xylene	ND	ug/kg	8.8	2.5	1	06/12/18 14:39	06/12/18 20:03	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	76-124		1	06/12/18 14:39	06/12/18 20:03	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-133		1	06/12/18 14:39	06/12/18 20:03	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	74-131		1	06/12/18 14:39	06/12/18 20:03	17060-07-0	
Dibromofluoromethane (S)	95	%	71-130		1	06/12/18 14:39	06/12/18 20:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.0**	%	0.10	0.10	1		06/12/18 15:16		
9071 Oil and Grease/TPH	Analytical Method: EPA 9071B Preparation Method: EPA 9071B								
Total Petroleum Hydrocarbons	**445**	mg/kg	110	16.4	1	06/13/18 09:45	06/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: 30256504
Laboratory: Pace Analytical Services, LLC, Greensburg, Pennsylvania
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-29	30256504001	Water
2	DUP	30256504002	Water
3MS	MW-29 MS	30256504003MS	Water
4MSD	MW-29 MSD	30256504004MSD	Water
5*	Trip Blank	30256504005	Water

* - VOC only

A Data Usability Summary Review was performed on the analytical data for two water samples and one aqueous trip blank sample collected on June 18, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions"*.

Specific method references are as follows:

Analysis	*Method References*
VOCs	USEPA SW-846 Method 8260C
SVOCs	USEPA SW-846 Method 8270D
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
GRO	USEPA SW-846 Method 8015D
TPH	USEPA SW-846 Method 8015D
Metals/Hg (T/D)	USEPA SW-846 Methods 6010C/7470

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 0, July 2015: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;
- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;

- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibration exhibited acceptable %RSD values and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent differences (%D) and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
1	Bromomethane	OK/OK/32	None for RPD alone

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

VOC				
Compound	MW-29 ug/L	DUP ug/L	RPD	Qualifier
None	ND	ND	-	-

Semivolatile Organics Compounds (SVOCs)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration

- All continuing calibration percent difference (%D) criteria and/or RRF criteria were met.

Method Blank

- The method blank was free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are

estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
1	2,4-Dinitrophenol	127%/OK/OK	None - Sample ND
	3,3'-Dichlorobenzidine	OK/OK/38	None for RPD Alone
	Benzoic Acid	51%/OK/OK	None - See LCS
	Pentachlorophenol	152%/OK/OK	None - Sample ND

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

LCS ID	Compound	%R	Qualifier	Affected Samples
1482325LCS	Benzoic Acid	9%	UJ	1-2

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

SVOC				
Compound	MW-29 ug/L	DUP ug/L	RPD	Qualifier
None	ND	ND	-	-

Pesticides

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Pesticides				
Compound	MW-29 ug/L	DUP ug/L	RPD	Qualifier
None	ND	ND	-	-

GC Column Difference Results

- All criteria were met.

Polychlorinated Biphenyls (PCBs)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

PCBs				
Compound	MW-29 ug/L	DUP ug/L	RPD	Qualifier
None	ND	ND	-	-

GC Column Difference Results

- All criteria were met.

Gasoline Range Organics (GRO)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not evaluated.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Internal Standards

- All IS area and retention time (RT) criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

GRO				
Compound	MW-29 ug/L	DUP ug/L	RPD	Qualifier
None	ND	ND	-	-

GC Column Difference Results

- All criteria were met.

Total Petroleum Hydrocarbons (TPH)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Internal Standards

- All IS area and retention time (RT) criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

TPH				
Compound	MW-29 mg/L	DUP mg/L	RPD	Qualifier
TPH (C10-C28)	0.18	0.26	36%	None

GC Column Difference Results

- All criteria were met.

Metals & Mercury (Total & Dissolved)

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Total Metals				
Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	Aluminum	1880	None	All Associated ND or >10X
	Barium	16.7	None	All Associated >10X
	Chromium	10.1	U	2
	Iron	1700	U	1
	Magnesium	450	None	All Associated >10X
	Manganese	29.7	None	All Associated >10X
	Potassium	772	U	1
	Zinc	11.0	U	2

Dissolved Metals				
Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	Manganese	5.8	None	All Associated >10X

ICP Interference Check Samples

- The ICP interference check samples exhibited acceptable recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

Total Metals				
EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
1	Aluminum	OK/1230%/167	None	All ND
	Barium	OK/191%/60	J	All Samples
	Calcium	138%/296%/73	None	4X Rule Applies
	Iron	OK/2410%/200	None	4X Rule Applies
	Magnesium	OK/492%/130	J	All Samples
	Manganese	OK/438%/120	None	4X Rule Applies
	Potassium	OK/244%/80	J	All Samples
	Zinc	OK/146%/38	None	All ND

Dissolved Metals				
EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
1	Calcium	196%/166%/OK	None	4X Rule Applies
	Sodium	154%/149%/OK	None	4X Rule Applies

Laboratory Control Samples

- The LCS sample exhibited acceptable recoveries.

ICP Serial Dilution

- ICP serial dilution percent differences (%D) were within acceptance limits except the following. For a high %D, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

EDS Sample ID	Compound	%D	Qualifier	Affected Samples
2	Barium	28.1%	None	See MS/MSD
	Boron	12.4%	J	All Samples
	Iron	73.1%	J/UJ	All Samples
	Magnesium	31.1%	None	See MS/MSD
	Manganese	15.6%	J	All Samples

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable (RPD >50%) for total aluminum and magnesium in the field duplicate pair. However, magnesium was already qualified, so only aluminum was qualified estimated (J/UJ).

Total Metals				
Compound	MW-29 ug/L	DUP ug/L	RPD	Qualifier
Aluminum	ND	16600	200%	J/UJ
Arsenic	6.1	18.6	101%	None - <5X RL
Barium	355	498	34%	None
Boron	112	106	6%	
Calcium	105000	110000	5%	
Cobalt	ND	13.8	NC	
Copper	ND	32.6	NC	
Iron	14400U	55100	NC	None
Lead	ND	13.7	NC	
Magnesium	13000	19400	40%	None - See MS/MSD
Manganese	3040	3700	20%	None
Nickel	ND	29.2	NC	
Potassium	ND	9310	NC	
Sodium	55100	55100	0%	
Vanadium	ND	26.6	NC	

Dissolved Metals				
Compound	MW-29 ug/L	DUP ug/L	RPD	Qualifier
Barium	286	284	1%	None
Boron	113	112	1%	
Calcium	104000	105000	1%	
Iron	122	ND	NC	
Magnesium	12800	12900	1%	
Manganese	2900	2930	1%	
Potassium	7600	7630	0%	
Sodium	54600	55400	1%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/8/18

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: MW-29 **Lab ID: 30256504001** Collected: 06/18/18 10:00 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**0.18**	mg/L	0.098	0.012	1	06/21/18 14:02	06/21/18 21:46		
Surrogates									
o-Terphenyl (S)	52	%	17-107		1	06/21/18 14:02	06/21/18 21:46	84-15-1	
8081B Organochlorine Pesticide	Analytical Method: EPA 8081B Preparation Method: EPA 3510C								
Aldrin	ND	ug/L	0.025	0.0022	1	06/21/18 13:59	06/22/18 16:46	309-00-2	
alpha-BHC	ND	ug/L	0.025	0.0032	1	06/21/18 13:59	06/22/18 16:46	319-84-6	
beta-BHC	ND	ug/L	0.025	0.0081	1	06/21/18 13:59	06/22/18 16:46	319-85-7	
delta-BHC	ND	ug/L	0.025	0.0065	1	06/21/18 13:59	06/22/18 16:46	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.025	0.0024	1	06/21/18 13:59	06/22/18 16:46	58-89-9	
alpha-Chlordane	ND	ug/L	0.025	0.0017	1	06/21/18 13:59	06/22/18 16:46	5103-71-9	
gamma-Chlordane	ND	ug/L	0.025	0.0052	1	06/21/18 13:59	06/22/18 16:46	5103-74-2	
4,4'-DDD	ND	ug/L	0.049	0.0036	1	06/21/18 13:59	06/22/18 16:46	72-54-8	
4,4'-DDE	ND	ug/L	0.049	0.0032	1	06/21/18 13:59	06/22/18 16:46	72-55-9	
4,4'-DDT	ND	ug/L	0.049	0.0027	1	06/21/18 13:59	06/22/18 16:46	50-29-3	
Dieldrin	ND	ug/L	0.049	0.0018	1	06/21/18 13:59	06/22/18 16:46	60-57-1	
Endosulfan I	ND	ug/L	0.025	0.0015	1	06/21/18 13:59	06/22/18 16:46	959-98-8	
Endosulfan II	ND	ug/L	0.049	0.0021	1	06/21/18 13:59	06/22/18 16:46	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.049	0.0024	1	06/21/18 13:59	06/22/18 16:46	1031-07-8	
Endrin	ND	ug/L	0.049	0.0048	1	06/21/18 13:59	06/22/18 16:46	72-20-8	
Endrin aldehyde	ND	ug/L	0.049	0.0032	1	06/21/18 13:59	06/22/18 16:46	7421-93-4	
Endrin ketone	ND	ug/L	0.049	0.0019	1	06/21/18 13:59	06/22/18 16:46	53494-70-5	
Heptachlor	ND	ug/L	0.025	0.0021	1	06/21/18 13:59	06/22/18 16:46	76-44-8	
Heptachlor epoxide	ND	ug/L	0.025	0.0015	1	06/21/18 13:59	06/22/18 16:46	1024-57-3	
Methoxychlor	ND	ug/L	0.25	0.014	1	06/21/18 13:59	06/22/18 16:46	72-43-5	
Toxaphene	ND	ug/L	0.49	0.17	1	06/21/18 13:59	06/22/18 16:46	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	72	%	14-136		1	06/21/18 13:59	06/22/18 16:46	877-09-8	
Decachlorobiphenyl (S)	36	%	15-125		1	06/21/18 13:59	06/22/18 16:46	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.25	0.050	1	06/21/18 13:59	06/22/18 21:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.25	0.036	1	06/21/18 13:59	06/22/18 21:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.25	0.029	1	06/21/18 13:59	06/22/18 21:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.25	0.040	1	06/21/18 13:59	06/22/18 21:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.25	0.026	1	06/21/18 13:59	06/22/18 21:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.25	0.021	1	06/21/18 13:59	06/22/18 21:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.25	0.026	1	06/21/18 13:59	06/22/18 21:30	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	56	%	32-105		1	06/21/18 13:59	06/22/18 21:30	877-09-8	
Decachlorobiphenyl (S)	44	%	13-98		1	06/21/18 13:59	06/22/18 21:30	2051-24-3	
8015D GRO Water	Analytical Method: EPA 8015D								
TPH (C06-C10)	ND	ug/L	200		1		06/21/18 21:23		
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		06/21/18 21:23	460-00-4	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: MW-29 **Lab ID: 30256504001** Collected: 06/18/18 10:00 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum	ND U J	ug/L	50.0	14.1	1	06/20/18 15:01	06/21/18 08:44	7429-90-5	~~1c,MH,~~ R1
Antimony	ND	ug/L	6.0	3.4	1	06/20/18 15:01	06/21/18 08:44	7440-36-0	R1
Arsenic	**6.1**	ug/L	5.0	2.7	1	06/20/18 15:01	06/21/18 08:44	7440-38-2	D6
Barium	**355** J	ug/L	10.0	0.76	1	06/20/18 15:01	06/21/18 08:44	7440-39-3	1c,5c, D6,MH, R1
Beryllium	ND	ug/L	1.0	0.24	1	06/20/18 15:01	06/21/18 08:44	7440-41-7	
Boron	**112** J	ug/L	50.0	1.4	1	06/20/18 15:01	06/21/18 08:44	7440-42-8	
Cadmium	ND	ug/L	3.0	0.87	1	06/20/18 15:01	06/21/18 08:44	7440-43-9	
Calcium	**105000**	ug/L	1000	20.3	1	06/20/18 15:01	06/21/18 08:44	7440-70-2	~~1c,MH~~
Chromium	ND	ug/L	5.0	0.86	1	06/20/18 15:01	06/21/18 08:44	7440-47-3	
Cobalt	ND	ug/L	5.0	0.93	1	06/20/18 15:01	06/21/18 08:44	7440-48-4	
Copper	ND	ug/L	5.0	3.3	1	06/20/18 15:01	06/21/18 08:44	7440-50-8	
Iron	**14400** UJ	ug/L	70.0	7.1	1	06/20/18 15:01	06/21/18 08:44	7439-89-6	1c,5c, D6,MH, R1
Lead	ND	ug/L	5.0	1.8	1	06/20/18 15:01	06/21/18 08:44	7439-92-1	
Magnesium	**13000** J	ug/L	200	22.2	1	06/20/18 15:01	06/21/18 08:44	7439-95-4	1c,5c, D6,MH, R1
Manganese	**3040** J	ug/L	5.0	0.77	1	06/20/18 15:01	06/21/18 08:44	7439-96-5	1c,5c, MH,R1
Molybdenum	ND	ug/L	20.0	2.0	1	06/20/18 15:01	06/21/18 08:44	7439-98-7	
Nickel	ND	ug/L	10.0	1.0	1	06/20/18 15:01	06/21/18 08:44	7440-02-0	
Potassium	**7700** U	ug/L	500	36.0	1	06/20/18 15:01	06/21/18 08:44	7440-09-7	1c,5c, MH,R1
Selenium	ND	ug/L	8.0	4.8	1	06/20/18 15:01	06/21/18 08:44	7782-49-2	
Silver	ND	ug/L	6.0	0.99	1	06/20/18 15:01	06/21/18 08:44	7440-22-4	
Sodium	**55100**	ug/L	1000	434	1	06/20/18 15:01	06/21/18 08:44	7440-23-5	
Thallium	ND	ug/L	10.0	2.2	1	06/20/18 15:01	06/21/18 08:44	7440-28-0	
Vanadium	ND	ug/L	5.0	0.47	1	06/20/18 15:01	06/21/18 08:44	7440-62-2	
Zinc	ND	ug/L	10.0	1.0	1	06/20/18 15:01	06/21/18 08:44	7440-66-6	~~1c,MH,~~ R1
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum, Dissolved	ND	ug/L	50.0	14.1	1	06/21/18 16:33	06/22/18 07:08	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.4	1	06/21/18 16:33	06/22/18 07:08	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	06/21/18 16:33	06/22/18 07:08	7440-38-2	
Barium, Dissolved	**286**	ug/L	10.0	0.76	1	06/21/18 16:33	06/22/18 07:08	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.24	1	06/21/18 16:33	06/22/18 07:08	7440-41-7	
Boron, Dissolved	**113**	ug/L	50.0	1.4	1	06/21/18 16:33	06/22/18 07:08	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.87	1	06/21/18 16:33	06/22/18 07:08	7440-43-9	
Calcium, Dissolved	**104000**	ug/L	1000	20.3	1	06/21/18 16:33	06/22/18 07:08	7440-70-2	~~3c,M1~~
Chromium, Dissolved	ND	ug/L	5.0	0.86	1	06/21/18 16:33	06/22/18 07:08	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.93	1	06/21/18 16:33	06/22/18 07:08	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	3.3	1	06/21/18 16:33	06/22/18 07:08	7440-50-8	
Iron, Dissolved	**122**	ug/L	70.0	7.1	1	06/21/18 16:33	06/22/18 07:08	7439-89-6	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: MW-29 **Lab ID: 30256504001** Collected: 06/18/18 10:00 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Lead, Dissolved	ND	ug/L	5.0	1.8	1	06/21/18 16:33	06/22/18 07:08	7439-92-1	
Magnesium, Dissolved	**12800**	ug/L	200	22.2	1	06/21/18 16:33	06/22/18 07:08	7439-95-4	
Manganese, Dissolved	**2900**	ug/L	5.0	0.77	1	06/21/18 16:33	06/22/18 07:08	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	2.0	1	06/21/18 16:33	06/22/18 07:08	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:33	06/22/18 07:08	7440-02-0	
Potassium, Dissolved	**7600**	ug/L	500	36.0	1	06/21/18 16:33	06/22/18 07:08	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	4.8	1	06/21/18 16:33	06/22/18 07:08	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	0.99	1	06/21/18 16:33	06/22/18 07:08	7440-22-4	
Sodium, Dissolved	**54600**	ug/L	1000	434	1	06/21/18 16:33	06/22/18 07:08	7440-23-5	M1
Thallium, Dissolved	ND	ug/L	10.0	2.2	1	06/21/18 16:33	06/22/18 07:08	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.47	1	06/21/18 16:33	06/22/18 07:08	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:33	06/22/18 07:08	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	0.030	1	06/20/18 14:27	06/20/18 20:59	7439-97-6	4c
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	06/21/18 08:11	06/21/18 23:01	7439-97-6	4c
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
Phenol	ND	ug/L	0.99	0.055	1	06/21/18 08:11	06/21/18 13:36	108-95-2	
bis(2-Chloroethyl) ether	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:36	111-44-4	
2-Chlorophenol	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	95-57-8	
1,3-Dichlorobenzene	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:36	106-46-7	
Benzyl alcohol	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	100-51-6	
1,2-Dichlorobenzene	ND	ug/L	0.99	0.096	1	06/21/18 08:11	06/21/18 13:36	95-50-1	
2-Methylphenol(o-Cresol)	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	95-48-7	
bis(2-Chloroisopropyl) ether	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	108-60-1	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.16	1	06/21/18 08:11	06/21/18 13:36		
N-Nitroso-di-n-propylamine	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	621-64-7	
Hexachloroethane	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	67-72-1	
Nitrobenzene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	98-95-3	
Isophorone	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	78-59-1	
2-Nitrophenol	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:36	88-75-5	
2,4-Dimethylphenol	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	105-67-9	
Benzoic acid	ND	ug/L	24.6	0.26	1	06/21/18 08:11	06/21/18 13:36	65-85-0	L2,M1
bis(2-Chloroethoxy)methane	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:36	111-91-1	
2,4-Dichlorophenol	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	120-83-2	
1,2,4-Trichlorobenzene	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	120-82-1	
Naphthalene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	91-20-3	
4-Chloroaniline	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:36	106-47-8	
Hexachloro-1,3-butadiene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	87-68-3	
4-Chloro-3-methylphenol	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:36	59-50-7	
2-Methylnaphthalene	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:36	91-57-6	
Hexachlorocyclopentadiene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	77-47-4	

REPORT OF LABORATORY ANALYSIS

NW 6/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: MW-29 **Lab ID: 30256504001** Collected: 06/18/18 10:00 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
2,4,6-Trichlorophenol	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	88-06-2	
2,4,5-Trichlorophenol	ND	ug/L	2.5	0.81	1	06/21/18 08:11	06/21/18 13:36	95-95-4	
2-Chloronaphthalene	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:36	91-58-7	
2-Nitroaniline	ND	ug/L	2.5	0.80	1	06/21/18 08:11	06/21/18 13:36	88-74-4	
Dimethylphthalate	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:36	131-11-3	
Acenaphthylene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	208-96-8	
2,6-Dinitrotoluene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	606-20-2	
3-Nitroaniline	ND	ug/L	2.5	0.93	1	06/21/18 08:11	06/21/18 13:36	99-09-2	
Acenaphthene	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:36	83-32-9	
2,4-Dinitrophenol	ND	ug/L	2.5	0.72	1	06/21/18 08:11	06/21/18 13:36	51-28-5	~~MH~~
4-Nitrophenol	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	100-02-7	
Dibenzofuran	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	132-64-9	
2,4-Dinitrotoluene	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:36	121-14-2	
Diethylphthalate	ND	ug/L	0.99	0.18	1	06/21/18 08:11	06/21/18 13:36	84-66-2	
4-Chlorophenylphenyl ether	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	7005-72-3	
Fluorene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	86-73-7	
4-Nitroaniline	ND	ug/L	2.5	1.0	1	06/21/18 08:11	06/21/18 13:36	100-01-6	~~CH~~
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.80	1	06/21/18 08:11	06/21/18 13:36	534-52-1	
N-Nitrosodiphenylamine	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	86-30-6	
4-Bromophenylphenyl ether	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:36	101-55-3	
Hexachlorobenzene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	118-74-1	
Pentachlorophenol	ND	ug/L	2.5	0.83	1	06/21/18 08:11	06/21/18 13:36	87-86-5	~~MH~~
Phenanthrene	ND	ug/L	0.99	0.16	1	06/21/18 08:11	06/21/18 13:36	85-01-8	
Anthracene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	120-12-7	
Di-n-butylphthalate	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	84-74-2	
Fluoranthene	ND	ug/L	0.99	0.080	1	06/21/18 08:11	06/21/18 13:36	206-44-0	
Pyrene	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:36	129-00-0	
Butylbenzylphthalate	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:36	85-68-7	
3,3'-Dichlorobenzidine	ND	ug/L	0.99	0.17	1	06/21/18 08:11	06/21/18 13:36	91-94-1	~~R1~~
Benzo(a)anthracene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	56-55-3	
Chrysene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:36	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:36	117-81-7	
Di-n-octylphthalate	ND	ug/L	0.99	0.17	1	06/21/18 08:11	06/21/18 13:36	117-84-0	
Benzo(b)fluoranthene	ND	ug/L	0.99	0.23	1	06/21/18 08:11	06/21/18 13:36	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	0.99	0.091	1	06/21/18 08:11	06/21/18 13:36	207-08-9	
Benzo(a)pyrene	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:36	50-32-8	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.99	0.30	1	06/21/18 08:11	06/21/18 13:36	193-39-5	
Dibenz(a,h)anthracene	ND	ug/L	0.99	0.30	1	06/21/18 08:11	06/21/18 13:36	53-70-3	
Benzo(g,h,i)perylene	ND	ug/L	0.99	0.35	1	06/21/18 08:11	06/21/18 13:36	191-24-2	
N-Nitrosodimethylamine	ND	ug/L	0.99	0.065	1	06/21/18 08:11	06/21/18 13:36	62-75-9	
Azobenzene	ND	ug/L	0.99	0.16	1	06/21/18 08:11	06/21/18 13:36	103-33-3	~~N2~~
Carbazole	ND	ug/L	0.99	0.32	1	06/21/18 08:11	06/21/18 13:36	86-74-8	
1-Methylnaphthalene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:36	90-12-0	
Surrogates									
Nitrobenzene-d5 (S)	77	%	13-114		1	06/21/18 08:11	06/21/18 13:36	4165-60-0	
2-Fluorobiphenyl (S)	78	%	19-103		1	06/21/18 08:11	06/21/18 13:36	321-60-8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: MW-29 **Lab ID: 30256504001** Collected: 06/18/18 10:00 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
Surrogates									
Terphenyl-d14 (S)	88	%	14-124		1	06/21/18 08:11	06/21/18 13:36	1718-51-0	
Phenol-d6 (S)	29	%	10-113		1	06/21/18 08:11	06/21/18 13:36	13127-88-3	
2-Fluorophenol (S)	44	%	10-115		1	06/21/18 08:11	06/21/18 13:36	367-12-4	
2,4,6-Tribromophenol (S)	104	%	36-114		1	06/21/18 08:11	06/21/18 13:36	118-79-6	
8260C MSV	Analytical Method: EPA 8260C								
Acetone	ND	ug/L	10.0	2.8	1		06/26/18 15:37	67-64-1	6c
Benzene	ND	ug/L	1.0	0.24	1		06/26/18 15:37	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.34	1		06/26/18 15:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.29	1		06/26/18 15:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.32	1		06/26/18 15:37	75-25-2	
Bromomethane	ND	ug/L	1.0	0.49	1		06/26/18 15:37	74-83-9	R1
TOTAL BTEX	ND	ug/L	6.0	1.6	1		06/26/18 15:37		
2-Butanone (MEK)	ND	ug/L	10.0	2.1	1		06/26/18 15:37	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		06/26/18 15:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.34	1		06/26/18 15:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.15	1		06/26/18 15:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.55	1		06/26/18 15:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.30	1		06/26/18 15:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.68	1		06/26/18 15:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		06/26/18 15:37	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/26/18 15:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/26/18 15:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		06/26/18 15:37	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.19	1		06/26/18 15:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.25	1		06/26/18 15:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.41	1		06/26/18 15:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.31	1		06/26/18 15:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.18	1		06/26/18 15:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		06/26/18 15:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		06/26/18 15:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.25	1		06/26/18 15:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/26/18 15:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.31	1		06/26/18 15:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.66	1		06/26/18 15:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.24	1		06/26/18 15:37	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.77	1		06/26/18 15:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.37	1		06/26/18 15:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.23	1		06/26/18 15:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/18 15:37	91-20-3	
Styrene	ND	ug/L	1.0	0.17	1		06/26/18 15:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		06/26/18 15:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.32	1		06/26/18 15:37	127-18-4	
Toluene	ND	ug/L	1.0	0.30	1		06/26/18 15:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		06/26/18 15:37	120-82-1	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: MW-29 **Lab ID: 30256504001** Collected: 06/18/18 10:00 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.28	1		06/26/18 15:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		06/26/18 15:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.39	1		06/26/18 15:37	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.25	1		06/26/18 15:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.21	1		06/26/18 15:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.31	1		06/26/18 15:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.78	1		06/26/18 15:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.60	1		06/26/18 15:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.18	1		06/26/18 15:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		1		06/26/18 15:37	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		06/26/18 15:37	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/26/18 15:37	2037-26-5	
Dibromofluoromethane (S)	104	%	80-120		1		06/26/18 15:37	1868-53-7	

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: DUP **Lab ID: 30256504002** Collected: 06/18/18 10:40 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	**0.26**	mg/L	0.099	0.013	1	06/21/18 14:02	06/21/18 22:11		
Surrogates									
o-Terphenyl (S)	61	%	17-107		1	06/21/18 14:02	06/21/18 22:11	84-15-1	
8081B Organochlorine Pesticide	Analytical Method: EPA 8081B Preparation Method: EPA 3510C								
Aldrin	ND	ug/L	0.025	0.0022	1	06/21/18 13:59	06/22/18 16:55	309-00-2	
alpha-BHC	ND	ug/L	0.025	0.0033	1	06/21/18 13:59	06/22/18 16:55	319-84-6	
beta-BHC	ND	ug/L	0.025	0.0082	1	06/21/18 13:59	06/22/18 16:55	319-85-7	
delta-BHC	ND	ug/L	0.025	0.0065	1	06/21/18 13:59	06/22/18 16:55	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.025	0.0024	1	06/21/18 13:59	06/22/18 16:55	58-89-9	
alpha-Chlordane	ND	ug/L	0.025	0.0017	1	06/21/18 13:59	06/22/18 16:55	5103-71-9	
gamma-Chlordane	ND	ug/L	0.025	0.0052	1	06/21/18 13:59	06/22/18 16:55	5103-74-2	
4,4'-DDD	ND	ug/L	0.050	0.0037	1	06/21/18 13:59	06/22/18 16:55	72-54-8	
4,4'-DDE	ND	ug/L	0.050	0.0033	1	06/21/18 13:59	06/22/18 16:55	72-55-9	
4,4'-DDT	ND	ug/L	0.050	0.0028	1	06/21/18 13:59	06/22/18 16:55	50-29-3	L2
Dieldrin	ND	ug/L	0.050	0.0018	1	06/21/18 13:59	06/22/18 16:55	60-57-1	
Endosulfan I	ND	ug/L	0.025	0.0015	1	06/21/18 13:59	06/22/18 16:55	959-98-8	
Endosulfan II	ND	ug/L	0.050	0.0021	1	06/21/18 13:59	06/22/18 16:55	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	0.0024	1	06/21/18 13:59	06/22/18 16:55	1031-07-8	
Endrin	ND	ug/L	0.050	0.0049	1	06/21/18 13:59	06/22/18 16:55	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	0.0033	1	06/21/18 13:59	06/22/18 16:55	7421-93-4	
Endrin ketone	ND	ug/L	0.050	0.0019	1	06/21/18 13:59	06/22/18 16:55	53494-70-5	
Heptachlor	ND	ug/L	0.025	0.0021	1	06/21/18 13:59	06/22/18 16:55	76-44-8	
Heptachlor epoxide	ND	ug/L	0.025	0.0015	1	06/21/18 13:59	06/22/18 16:55	1024-57-3	
Methoxychlor	ND	ug/L	0.25	0.014	1	06/21/18 13:59	06/22/18 16:55	72-43-5	
Toxaphene	ND	ug/L	0.50	0.17	1	06/21/18 13:59	06/22/18 16:55	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	14-136		1	06/21/18 13:59	06/22/18 16:55	877-09-8	
Decachlorobiphenyl (S)	34	%	15-125		1	06/21/18 13:59	06/22/18 16:55	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.25	0.050	1	06/21/18 13:59	06/22/18 21:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.25	0.037	1	06/21/18 13:59	06/22/18 21:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.25	0.030	1	06/21/18 13:59	06/22/18 21:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.25	0.040	1	06/21/18 13:59	06/22/18 21:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.25	0.026	1	06/21/18 13:59	06/22/18 21:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.25	0.021	1	06/21/18 13:59	06/22/18 21:50	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.25	0.026	1	06/21/18 13:59	06/22/18 21:50	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	59	%	32-105		1	06/21/18 13:59	06/22/18 21:50	877-09-8	
Decachlorobiphenyl (S)	41	%	13-98		1	06/21/18 13:59	06/22/18 21:50	2051-24-3	
8015D GRO Water	Analytical Method: EPA 8015D								
TPH (C06-C10)	ND	ug/L	200		1		06/21/18 22:40		
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		06/21/18 22:40	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: DUP **Lab ID: 30256504002** Collected: 06/18/18 10:40 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum	**16600** J	ug/L	50.0	14.1	1	06/20/18 15:01	06/21/18 08:46	7429-90-5	
Antimony	ND	ug/L	6.0	3.4	1	06/20/18 15:01	06/21/18 08:46	7440-36-0	
Arsenic	**18.6**	ug/L	5.0	2.7	1	06/20/18 15:01	06/21/18 08:46	7440-38-2	
Barium	**498** J	ug/L	10.0	0.76	1	06/20/18 15:01	06/21/18 08:46	7440-39-3	
Beryllium	ND	ug/L	1.0	0.24	1	06/20/18 15:01	06/21/18 08:46	7440-41-7	
Boron	**106** J	ug/L	50.0	1.4	1	06/20/18 15:01	06/21/18 08:46	7440-42-8	
Cadmium	ND	ug/L	3.0	0.87	1	06/20/18 15:01	06/21/18 08:46	7440-43-9	
Calcium	**110000**	ug/L	1000	20.3	1	06/20/18 15:01	06/21/18 08:46	7440-70-2	
Chromium	**22.7** U	ug/L	5.0	0.86	1	06/20/18 15:01	06/21/18 08:46	7440-47-3	
Cobalt	**13.8**	ug/L	5.0	0.93	1	06/20/18 15:01	06/21/18 08:46	7440-48-4	
Copper	**32.6**	ug/L	5.0	3.3	1	06/20/18 15:01	06/21/18 08:46	7440-50-8	
Iron	**55100** J	ug/L	70.0	7.1	1	06/20/18 15:01	06/21/18 08:46	7439-89-6	
Lead	**13.7**	ug/L	5.0	1.8	1	06/20/18 15:01	06/21/18 08:46	7439-92-1	
Magnesium	**19400** J	ug/L	200	22.2	1	06/20/18 15:01	06/21/18 08:46	7439-95-4	
Manganese	**3700** J	ug/L	5.0	0.77	1	06/20/18 15:01	06/21/18 08:46	7439-96-5	
Molybdenum	ND	ug/L	20.0	2.0	1	06/20/18 15:01	06/21/18 08:46	7439-98-7	
Nickel	**29.2**	ug/L	10.0	1.0	1	06/20/18 15:01	06/21/18 08:46	7440-02-0	
Potassium	**9310**	ug/L	500	36.0	1	06/20/18 15:01	06/21/18 08:46	7440-09-7	
Selenium	ND	ug/L	8.0	4.8	1	06/20/18 15:01	06/21/18 08:46	7782-49-2	
Silver	ND	ug/L	6.0	0.99	1	06/20/18 15:01	06/21/18 08:46	7440-22-4	
Sodium	**55100**	ug/L	1000	434	1	06/20/18 15:01	06/21/18 08:46	7440-23-5	
Thallium	ND	ug/L	10.0	2.2	1	06/20/18 15:01	06/21/18 08:46	7440-28-0	
Vanadium	**26.6**	ug/L	5.0	0.47	1	06/20/18 15:01	06/21/18 08:46	7440-62-2	
Zinc	**97.1** U	ug/L	10.0	1.0	1	06/20/18 15:01	06/21/18 08:46	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum, Dissolved	ND	ug/L	50.0	14.1	1	06/21/18 16:33	06/22/18 07:11	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.4	1	06/21/18 16:33	06/22/18 07:11	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	06/21/18 16:33	06/22/18 07:11	7440-38-2	
Barium, Dissolved	**284**	ug/L	10.0	0.76	1	06/21/18 16:33	06/22/18 07:11	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.24	1	06/21/18 16:33	06/22/18 07:11	7440-41-7	
Boron, Dissolved	**112**	ug/L	50.0	1.4	1	06/21/18 16:33	06/22/18 07:11	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.87	1	06/21/18 16:33	06/22/18 07:11	7440-43-9	
Calcium, Dissolved	**105000**	ug/L	1000	20.3	1	06/21/18 16:33	06/22/18 07:11	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.86	1	06/21/18 16:33	06/22/18 07:11	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.93	1	06/21/18 16:33	06/22/18 07:11	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	3.3	1	06/21/18 16:33	06/22/18 07:11	7440-50-8	
Iron, Dissolved	ND	ug/L	70.0	7.1	1	06/21/18 16:33	06/22/18 07:11	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	1.8	1	06/21/18 16:33	06/22/18 07:11	7439-92-1	
Magnesium, Dissolved	**12900**	ug/L	200	22.2	1	06/21/18 16:33	06/22/18 07:11	7439-95-4	
Manganese, Dissolved	**2930**	ug/L	5.0	0.77	1	06/21/18 16:33	06/22/18 07:11	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	2.0	1	06/21/18 16:33	06/22/18 07:11	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:33	06/22/18 07:11	7440-02-0	
Potassium, Dissolved	**7630**	ug/L	500	36.0	1	06/21/18 16:33	06/22/18 07:11	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	4.8	1	06/21/18 16:33	06/22/18 07:11	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	0.99	1	06/21/18 16:33	06/22/18 07:11	7440-22-4	

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: DUP **Lab ID: 30256504002** Collected: 06/18/18 10:40 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Sodium, Dissolved	**55400**	ug/L	1000	434	1	06/21/18 16:33	06/22/18 07:11	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	2.2	1	06/21/18 16:33	06/22/18 07:11	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.47	1	06/21/18 16:33	06/22/18 07:11	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:33	06/22/18 07:11	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	0.030	1	06/20/18 14:27	06/20/18 21:01	7439-97-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	06/21/18 08:11	06/21/18 23:03	7439-97-6	
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:58	83-32-9	
Acenaphthylene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	208-96-8	
Anthracene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	120-12-7	
Azobenzene	ND	ug/L	0.99	0.16	1	06/21/18 08:11	06/21/18 13:58	103-33-3	~~N2~~
Benzo(a)anthracene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.99	0.23	1	06/21/18 08:11	06/21/18 13:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.99	0.35	1	06/21/18 08:11	06/21/18 13:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.99	0.091	1	06/21/18 08:11	06/21/18 13:58	207-08-9	
Benzoic acid	ND UJ	ug/L	24.6	0.26	1	06/21/18 08:11	06/21/18 13:58	65-85-0	~~L2~~
Benzyl alcohol	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:58	101-55-3	
Butylbenzylphthalate	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:58	85-68-7	
Carbazole	ND	ug/L	0.99	0.32	1	06/21/18 08:11	06/21/18 13:58	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:58	59-50-7	
4-Chloroaniline	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:58	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:58	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:58	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	108-60-1	
2-Chloronaphthalene	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:58	91-58-7	
2-Chlorophenol	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	7005-72-3	
Chrysene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.99	0.30	1	06/21/18 08:11	06/21/18 13:58	53-70-3	
Dibenzofuran	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	0.99	0.096	1	06/21/18 08:11	06/21/18 13:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:58	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	0.99	0.17	1	06/21/18 08:11	06/21/18 13:58	91-94-1	
2,4-Dichlorophenol	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	120-83-2	
Diethylphthalate	ND	ug/L	0.99	0.18	1	06/21/18 08:11	06/21/18 13:58	84-66-2	
2,4-Dimethylphenol	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	105-67-9	
Dimethylphthalate	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:58	131-11-3	
Di-n-butylphthalate	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	84-74-2	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: DUP **Lab ID: 30256504002** Collected: 06/18/18 10:40 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.80	1	06/21/18 08:11	06/21/18 13:58	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	0.72	1	06/21/18 08:11	06/21/18 13:58	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:58	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	606-20-2	
Di-n-octylphthalate	ND	ug/L	0.99	0.17	1	06/21/18 08:11	06/21/18 13:58	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:58	117-81-7	
Fluoranthene	ND	ug/L	0.99	0.080	1	06/21/18 08:11	06/21/18 13:58	206-44-0	
Fluorene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	87-68-3	
Hexachlorobenzene	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	77-47-4	
Hexachloroethane	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.99	0.30	1	06/21/18 08:11	06/21/18 13:58	193-39-5	
Isophorone	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	78-59-1	
1-Methylnaphthalene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.99	0.10	1	06/21/18 08:11	06/21/18 13:58	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.16	1	06/21/18 08:11	06/21/18 13:58		
Naphthalene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	0.80	1	06/21/18 08:11	06/21/18 13:58	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	0.93	1	06/21/18 08:11	06/21/18 13:58	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1.0	1	06/21/18 08:11	06/21/18 13:58	100-01-6	~~CH~~
Nitrobenzene	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	98-95-3	
2-Nitrophenol	ND	ug/L	0.99	0.13	1	06/21/18 08:11	06/21/18 13:58	88-75-5	
4-Nitrophenol	ND	ug/L	0.99	0.11	1	06/21/18 08:11	06/21/18 13:58	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	0.99	0.065	1	06/21/18 08:11	06/21/18 13:58	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	0.83	1	06/21/18 08:11	06/21/18 13:58	87-86-5	
Phenanthrene	ND	ug/L	0.99	0.16	1	06/21/18 08:11	06/21/18 13:58	85-01-8	
Phenol	ND	ug/L	0.99	0.055	1	06/21/18 08:11	06/21/18 13:58	108-95-2	
Pyrene	ND	ug/L	0.99	0.15	1	06/21/18 08:11	06/21/18 13:58	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	0.99	0.12	1	06/21/18 08:11	06/21/18 13:58	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	0.81	1	06/21/18 08:11	06/21/18 13:58	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	0.99	0.14	1	06/21/18 08:11	06/21/18 13:58	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	71	%	13-114		1	06/21/18 08:11	06/21/18 13:58	4165-60-0	
2-Fluorobiphenyl (S)	73	%	19-103		1	06/21/18 08:11	06/21/18 13:58	321-60-8	
Terphenyl-d14 (S)	89	%	14-124		1	06/21/18 08:11	06/21/18 13:58	1718-51-0	
Phenol-d6 (S)	28	%	10-113		1	06/21/18 08:11	06/21/18 13:58	13127-88-3	
2-Fluorophenol (S)	41	%	10-115		1	06/21/18 08:11	06/21/18 13:58	367-12-4	
2,4,6-Tribromophenol (S)	98	%	36-114		1	06/21/18 08:11	06/21/18 13:58	118-79-6	
8260C MSV	Analytical Method: EPA 8260C								
Acetone	ND	ug/L	10.0	2.8	1		06/26/18 16:02	67-64-1	~~6c~~
Benzene	ND	ug/L	1.0	0.24	1		06/26/18 16:02	71-43-2	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: DUP **Lab ID: 30256504002** Collected: 06/18/18 10:40 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Bromochloromethane	ND	ug/L	1.0	0.34	1		06/26/18 16:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.29	1		06/26/18 16:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.32	1		06/26/18 16:02	75-25-2	
Bromomethane	ND	ug/L	1.0	0.49	1		06/26/18 16:02	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	1.6	1		06/26/18 16:02		
2-Butanone (MEK)	ND	ug/L	10.0	2.1	1		06/26/18 16:02	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		06/26/18 16:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.34	1		06/26/18 16:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.15	1		06/26/18 16:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.55	1		06/26/18 16:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.30	1		06/26/18 16:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.68	1		06/26/18 16:02	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		06/26/18 16:02	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/26/18 16:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/26/18 16:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		06/26/18 16:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.19	1		06/26/18 16:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.25	1		06/26/18 16:02	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.41	1		06/26/18 16:02	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.31	1		06/26/18 16:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.18	1		06/26/18 16:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		06/26/18 16:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		06/26/18 16:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.25	1		06/26/18 16:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/26/18 16:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.31	1		06/26/18 16:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.66	1		06/26/18 16:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.24	1		06/26/18 16:02	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.77	1		06/26/18 16:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.37	1		06/26/18 16:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.23	1		06/26/18 16:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/18 16:02	91-20-3	
Styrene	ND	ug/L	1.0	0.17	1		06/26/18 16:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		06/26/18 16:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.32	1		06/26/18 16:02	127-18-4	
Toluene	ND	ug/L	1.0	0.30	1		06/26/18 16:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		06/26/18 16:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.28	1		06/26/18 16:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		06/26/18 16:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.39	1		06/26/18 16:02	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.25	1		06/26/18 16:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.21	1		06/26/18 16:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.31	1		06/26/18 16:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.78	1		06/26/18 16:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.60	1		06/26/18 16:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.18	1		06/26/18 16:02	95-47-6	

REPORT OF LABORATORY ANALYSIS

NJ 8/1/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: DUP **Lab ID: 30256504002** Collected: 06/18/18 10:40 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		06/26/18 16:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		06/26/18 16:02	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/26/18 16:02	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		06/26/18 16:02	1868-53-7	

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: Trip Blank **Lab ID: 30256504005** Collected: 06/18/18 00:01 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D GRO Water	Analytical Method: EPA 8015D								
TPH (C06-C10)	ND	ug/L	200		1		06/21/18 22:59		
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		06/21/18 22:59	460-00-4	
8260C MSV	Analytical Method: EPA 8260C								
Acetone	ND	ug/L	10.0	2.8	1		06/26/18 14:21	67-64-1	~~6e~~
Benzene	ND	ug/L	1.0	0.24	1		06/26/18 14:21	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.34	1		06/26/18 14:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.29	1		06/26/18 14:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.32	1		06/26/18 14:21	75-25-2	
Bromomethane	ND	ug/L	1.0	0.49	1		06/26/18 14:21	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	1.6	1		06/26/18 14:21		
2-Butanone (MEK)	ND	ug/L	10.0	2.1	1		06/26/18 14:21	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		06/26/18 14:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.34	1		06/26/18 14:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.15	1		06/26/18 14:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.55	1		06/26/18 14:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.30	1		06/26/18 14:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.68	1		06/26/18 14:21	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		06/26/18 14:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/26/18 14:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/26/18 14:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		06/26/18 14:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.19	1		06/26/18 14:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.25	1		06/26/18 14:21	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.41	1		06/26/18 14:21	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.31	1		06/26/18 14:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.18	1		06/26/18 14:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		06/26/18 14:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		06/26/18 14:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.25	1		06/26/18 14:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/26/18 14:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.31	1		06/26/18 14:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.66	1		06/26/18 14:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.24	1		06/26/18 14:21	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.77	1		06/26/18 14:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.37	1		06/26/18 14:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.23	1		06/26/18 14:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/18 14:21	91-20-3	
Styrene	ND	ug/L	1.0	0.17	1		06/26/18 14:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		06/26/18 14:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.32	1		06/26/18 14:21	127-18-4	
Toluene	ND	ug/L	1.0	0.30	1		06/26/18 14:21	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		06/26/18 14:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.28	1		06/26/18 14:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		06/26/18 14:21	79-00-5	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Green Island RI
Pace Project No.: 30256504

Sample: Trip Blank **Lab ID: 30256504005** Collected: 06/18/18 00:01 Received: 06/19/18 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Trichloroethene	ND	ug/L	1.0	0.39	1		06/26/18 14:21	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.25	1		06/26/18 14:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.21	1		06/26/18 14:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.31	1		06/26/18 14:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.78	1		06/26/18 14:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.60	1		06/26/18 14:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.18	1		06/26/18 14:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		1		06/26/18 14:21	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		06/26/18 14:21	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		06/26/18 14:21	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		1		06/26/18 14:21	1868-53-7	

NW 8/1/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: 30256740
Laboratory: Pace Analytical Services, LLC, Greensburg, Pennsylvania
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-30	30256740001	Water
1MS^	MW-30MS	30256740001MS	Water
1MSD^	MW-30MSD	30256740001MSD	Water
2	MW-31	30256740002	Water
2MSβ	MW-31MS	30256740002MS	Water
2MSDβ	MW-31MSD	30256740002MSD	Water
3†	MW-5-D-W	30256740003	Water
4*	Trip Blank	30256740004	Water

* - VOC only † - Not validated per client instructions ^ - Metals only β - GRO only

A Data Usability Summary Review was performed on the analytical data for two water samples and one aqueous trip blank sample collected on June 20, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions"*.

Specific method references are as follows:

Analysis	*Method References*
VOCs	USEPA SW-846 Method 8260C
SVOCs	USEPA SW-846 Method 8270D
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
GRO	USEPA SW-846 Method 8015D
TPH	USEPA SW-846 Method 8015D
Metals/Hg (T/D)	USEPA SW-846 Methods 6010C/7470

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 0, July 2015: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;

- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibration exhibited acceptable %RSD values and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable percent differences (%D) and RRF values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Semivolatile Organics Compounds (SVOCs)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 (<0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
06/25/18 (1525)	Benzoic Acid	28.3%	UJ	1-2
	3-Nitroaniline	40.2%		
	4-Nitroaniline	83.6%		

Method Blank

- The method blank was free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

LCS ID	Compound	%R	Qualifier	Affected Samples
1483236LCS	Benzo(a)pyrene	49%	UJ	1-2
	Benzo(b)fluoranthene	52%		
	Benzo(k)fluoranthene	53%		
	2-Chloronaphthalene	36%		
	Chrysene	57%		
	Pyrene	55%		
	2,4,5-Trichlorophenol	44%		
	2,4,6-Trichlorophenol	37%		
1483266LCS	4-Nitroaniline	191%	None	All Associated ND
	Nitrobenzene	137%		
	4-Nitrophenol	138%		

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Pesticides

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Polychlorinated Biphenyls (PCBs)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Gasoline Range Organics (GRO)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not analyzed for GRO.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Internal Standards

- All IS area and retention time (RT) criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Total Petroleum Hydrocarbons (TPH)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Internal Standards

- All IS area and retention time (RT) criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Metals & Mercury (Total & Dissolved)

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Total Metals				
Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	Aluminum	1880	U	1-2
	Barium	16.7	U	2
	Chromium	10.1	None	All Associated ND
	Iron	1700	U	1-2
	Magnesium	450	None	All Associated ND
	Manganese	29.7	None	All Associated ND
	Potassium	772	U	1
	Zinc	11.0	None	All Associated ND

Dissolved Metals				
Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	Manganese	5.8	None	All Associated >10X

ICP Interference Check Samples

- The ICP interference check samples exhibited acceptable recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

Total Metals				
EDS Sample ID	Compound	%R/%R/RPD	Qualifier	Affected Samples
1	Calcium	OK/127%/OK	None	4X Rule Applies

Laboratory Control Samples

- The LCS sample exhibited acceptable recoveries.

ICP Serial Dilution

- ICP serial dilution percent differences (%D) were within acceptance limits except the following. For a high %D, positive results are considered estimated and qualified (J) and non-detects (UJ). Results are valid and usable, however possibly biased.

Total Metals				
EDS Sample ID	Compound	%D	Qualifier	Affected Samples
1	Aluminum	13.5%	J/UJ	1-2

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/8/18

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-30 **Lab ID: 30256740001** Collected: 06/20/18 10:45 Received: 06/21/18 10:10 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	ND	mg/L	0.098	0.012	1	06/22/18 09:46	06/22/18 19:46		1c
Surrogates									
o-Terphenyl (S)	47	%	17-107		1	06/22/18 09:46	06/22/18 19:46	84-15-1	
8081B Organochlorine Pesticide	Analytical Method: EPA 8081B Preparation Method: EPA 3510C								
Aldrin	ND	ug/L	0.025	0.0022	1	06/22/18 08:58	06/22/18 18:58	309-00-2	1c
alpha-BHC	ND	ug/L	0.025	0.0032	1	06/22/18 08:58	06/22/18 18:58	319-84-6	1c
beta-BHC	ND	ug/L	0.025	0.0081	1	06/22/18 08:58	06/22/18 18:58	319-85-7	1c,CH
delta-BHC	ND	ug/L	0.025	0.0065	1	06/22/18 08:58	06/22/18 18:58	319-86-8	1c,CH
gamma-BHC (Lindane)	ND	ug/L	0.025	0.0024	1	06/22/18 08:58	06/22/18 18:58	58-89-9	1c
alpha-Chlordane	ND	ug/L	0.025	0.0017	1	06/22/18 08:58	06/22/18 18:58	5103-71-9	1c
gamma-Chlordane	ND	ug/L	0.025	0.0052	1	06/22/18 08:58	06/22/18 18:58	5103-74-2	1c
4,4'-DDD	ND	ug/L	0.049	0.0036	1	06/22/18 08:58	06/22/18 18:58	72-54-8	1c,CH
4,4'-DDE	ND	ug/L	0.049	0.0032	1	06/22/18 08:58	06/22/18 18:58	72-55-9	1c
4,4'-DDT	ND	ug/L	0.049	0.0027	1	06/22/18 08:58	06/22/18 18:58	50-29-3	1c
Dieldrin	ND	ug/L	0.049	0.0018	1	06/22/18 08:58	06/22/18 18:58	60-57-1	1c,CH
Endosulfan I	ND	ug/L	0.025	0.0015	1	06/22/18 08:58	06/22/18 18:58	959-98-8	1c
Endosulfan II	ND	ug/L	0.049	0.0021	1	06/22/18 08:58	06/22/18 18:58	33213-65-9	1c,CH
Endosulfan sulfate	ND	ug/L	0.049	0.0024	1	06/22/18 08:58	06/22/18 18:58	1031-07-8	1c
Endrin	ND	ug/L	0.049	0.0048	1	06/22/18 08:58	06/22/18 18:58	72-20-8	1c
Endrin aldehyde	ND	ug/L	0.049	0.0032	1	06/22/18 08:58	06/22/18 18:58	7421-93-4	1c
Endrin ketone	ND	ug/L	0.049	0.0019	1	06/22/18 08:58	06/22/18 18:58	53494-70-5	1c
Heptachlor	ND	ug/L	0.025	0.0021	1	06/22/18 08:58	06/22/18 18:58	76-44-8	1c
Heptachlor epoxide	ND	ug/L	0.025	0.0015	1	06/22/18 08:58	06/22/18 18:58	1024-57-3	1c
Methoxychlor	ND	ug/L	0.25	0.014	1	06/22/18 08:58	06/22/18 18:58	72-43-5	1c
Toxaphene	ND	ug/L	0.49	0.17	1	06/22/18 08:58	06/22/18 18:58	8001-35-2	1c
Surrogates									
Tetrachloro-m-xylene (S)	65	%	14-136		1	06/22/18 08:58	06/22/18 18:58	877-09-8	
Decachlorobiphenyl (S)	48	%	15-125		1	06/22/18 08:58	06/22/18 18:58	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.25	0.050	1	06/22/18 08:58	06/25/18 19:05	12674-11-2	1c
PCB-1221 (Aroclor 1221)	ND	ug/L	0.25	0.036	1	06/22/18 08:58	06/25/18 19:05	11104-28-2	1c
PCB-1232 (Aroclor 1232)	ND	ug/L	0.25	0.029	1	06/22/18 08:58	06/25/18 19:05	11141-16-5	1c
PCB-1242 (Aroclor 1242)	ND	ug/L	0.25	0.040	1	06/22/18 08:58	06/25/18 19:05	53469-21-9	1c
PCB-1248 (Aroclor 1248)	ND	ug/L	0.25	0.026	1	06/22/18 08:58	06/25/18 19:05	12672-29-6	1c
PCB-1254 (Aroclor 1254)	ND	ug/L	0.25	0.021	1	06/22/18 08:58	06/25/18 19:05	11097-69-1	1c
PCB-1260 (Aroclor 1260)	ND	ug/L	0.25	0.026	1	06/22/18 08:58	06/25/18 19:05	11096-82-5	1c
Surrogates									
Tetrachloro-m-xylene (S)	49	%	32-105		1	06/22/18 08:58	06/25/18 19:05	877-09-8	
Decachlorobiphenyl (S)	46	%	13-98		1	06/22/18 08:58	06/25/18 19:05	2051-24-3	
8015D GRO Water	Analytical Method: EPA 8015D								
TPH (C06-C10)	ND	ug/L	200		1		06/25/18 15:11		

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-30 **Lab ID: 30256740001** Collected: 06/20/18 10:45 Received: 06/21/18 10:10 Matrix: Water
Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D GRO Water	Analytical Method: EPA 8015D								
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		06/25/18 15:11	460-00-4	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum	**902**	ug/L	50.0	14.1	1	06/21/18 16:38	06/22/18 08:00	7429-90-5	
Antimony	ND	ug/L	6.0	3.4	1	06/21/18 16:38	06/22/18 08:00	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	06/21/18 16:38	06/22/18 08:00	7440-38-2	
Barium	**344**	ug/L	10.0	0.76	1	06/21/18 16:38	06/22/18 08:00	7440-39-3	
Beryllium	ND	ug/L	1.0	0.24	1	06/21/18 16:38	06/22/18 08:00	7440-41-7	
Boron	ND	ug/L	50.0	1.4	1	06/21/18 16:38	06/22/18 08:00	7440-42-8	
Cadmium	ND	ug/L	3.0	0.87	1	06/21/18 16:38	06/22/18 08:00	7440-43-9	
Calcium	**41400**	ug/L	1000	20.3	1	06/21/18 16:38	06/22/18 08:00	7440-70-2	
Chromium	ND	ug/L	5.0	0.86	1	06/21/18 16:38	06/22/18 08:00	7440-47-3	
Cobalt	ND	ug/L	5.0	0.93	1	06/21/18 16:38	06/22/18 08:00	7440-48-4	
Copper	ND	ug/L	5.0	3.3	1	06/21/18 16:38	06/22/18 08:00	7440-50-8	
Iron	**1350**	ug/L	70.0	7.1	1	06/21/18 16:38	06/22/18 08:00	7439-89-6	
Lead	ND	ug/L	5.0	1.8	1	06/21/18 16:38	06/22/18 08:00	7439-92-1	
Magnesium	**6500**	ug/L	200	22.2	1	06/21/18 16:38	06/22/18 08:00	7439-95-4	
Manganese	**469**	ug/L	5.0	0.77	1	06/21/18 16:38	06/22/18 08:00	7439-96-5	
Molybdenum	ND	ug/L	20.0	2.0	1	06/21/18 16:38	06/22/18 08:00	7439-98-7	
Nickel	ND	ug/L	10.0	1.0	1	06/21/18 16:38	06/22/18 08:00	7440-02-0	
Potassium	**6680**	ug/L	500	36.0	1	06/21/18 16:38	06/22/18 08:00	7440-09-7	
Selenium	ND	ug/L	8.0	4.8	1	06/21/18 16:38	06/22/18 08:00	7782-49-2	
Silver	ND	ug/L	6.0	0.99	1	06/21/18 16:38	06/22/18 08:00	7440-22-4	
Sodium	**17600**	ug/L	1000	434	1	06/21/18 16:38	06/22/18 08:00	7440-23-5	
Thallium	ND	ug/L	10.0	2.2	1	06/21/18 16:38	06/22/18 08:00	7440-28-0	
Vanadium	ND	ug/L	5.0	0.47	1	06/21/18 16:38	06/22/18 08:00	7440-62-2	
Zinc	ND	ug/L	10.0	1.0	1	06/21/18 16:38	06/22/18 08:00	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum, Dissolved	ND	ug/L	50.0	14.1	1	06/21/18 16:36	06/22/18 07:32	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.4	1	06/21/18 16:36	06/22/18 07:32	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	06/21/18 16:36	06/22/18 07:32	7440-38-2	
Barium, Dissolved	**335**	ug/L	10.0	0.76	1	06/21/18 16:36	06/22/18 07:32	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.24	1	06/21/18 16:36	06/22/18 07:32	7440-41-7	
Boron, Dissolved	ND	ug/L	50.0	1.4	1	06/21/18 16:36	06/22/18 07:32	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.87	1	06/21/18 16:36	06/22/18 07:32	7440-43-9	
Calcium, Dissolved	**42200**	ug/L	1000	20.3	1	06/21/18 16:36	06/22/18 07:32	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.86	1	06/21/18 16:36	06/22/18 07:32	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.93	1	06/21/18 16:36	06/22/18 07:32	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	3.3	1	06/21/18 16:36	06/22/18 07:32	7440-50-8	
Iron, Dissolved	ND	ug/L	70.0	7.1	1	06/21/18 16:36	06/22/18 07:32	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	1.8	1	06/21/18 16:36	06/22/18 07:32	7439-92-1	
Magnesium, Dissolved	**6410**	ug/L	200	22.2	1	06/21/18 16:36	06/22/18 07:32	7439-95-4	
Manganese, Dissolved	**463**	ug/L	5.0	0.77	1	06/21/18 16:36	06/22/18 07:32	7439-96-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-30 **Lab ID: 30256740001** Collected: 06/20/18 10:45 Received: 06/21/18 10:10 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Molybdenum, Dissolved	ND	ug/L	20.0	2.0	1	06/21/18 16:36	06/22/18 07:32	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:36	06/22/18 07:32	7440-02-0	
Potassium, Dissolved	**6640**	ug/L	500	36.0	1	06/21/18 16:36	06/22/18 07:32	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	4.8	1	06/21/18 16:36	06/22/18 07:32	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	0.99	1	06/21/18 16:36	06/22/18 07:32	7440-22-4	
Sodium, Dissolved	**18100**	ug/L	1000	434	1	06/21/18 16:36	06/22/18 07:32	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	2.2	1	06/21/18 16:36	06/22/18 07:32	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.47	1	06/21/18 16:36	06/22/18 07:32	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:36	06/22/18 07:32	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	0.030	1	06/22/18 08:32	06/22/18 17:42	7439-97-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	06/22/18 08:19	06/22/18 17:22	7439-97-6	
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.98	0.13	1	06/22/18 09:41	06/25/18 19:41	83-32-9	1c
Acenaphthylene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	208-96-8	1c
Anthracene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	120-12-7	1c
Azobenzene	ND	ug/L	0.98	0.16	1	06/22/18 09:41	06/25/18 19:41	103-33-3	1c,N2
Benzo(a)anthracene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	56-55-3	1c
Benzo(a)pyrene	ND U5	ug/L	0.98	0.12	1	06/22/18 09:41	06/25/18 19:41	50-32-8	1c,L2
Benzo(b)fluoranthene	ND U5	ug/L	0.98	0.22	1	06/22/18 09:41	06/25/18 19:41	205-99-2	1c,L2
Benzo(g,h,i)perylene	ND	ug/L	0.98	0.35	1	06/22/18 09:41	06/25/18 19:41	191-24-2	1c
Benzo(k)fluoranthene	ND U5	ug/L	0.98	0.090	1	06/22/18 09:41	06/25/18 19:41	207-08-9	1c,L2
Benzoic acid	ND U5	ug/L	24.5	0.25	1	06/22/18 09:41	06/25/18 19:41	65-85-0	1c,CH
Benzyl alcohol	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	100-51-6	1c
4-Bromophenylphenyl ether	ND	ug/L	0.98	0.15	1	06/22/18 09:41	06/25/18 19:41	101-55-3	1c
Butylbenzylphthalate	ND	ug/L	0.98	0.13	1	06/22/18 09:41	06/25/18 19:41	85-68-7	1c
Carbazole	ND	ug/L	0.98	0.32	1	06/22/18 09:41	06/25/18 19:41	86-74-8	1c
4-Chloro-3-methylphenol	ND	ug/L	0.98	0.13	1	06/22/18 09:41	06/25/18 19:41	59-50-7	1c
4-Chloroaniline	ND	ug/L	0.98	0.10	1	06/22/18 09:41	06/25/18 19:41	106-47-8	1c,CH
bis(2-Chloroethoxy)methane	ND	ug/L	0.98	0.13	1	06/22/18 09:41	06/25/18 19:41	111-91-1	1c
bis(2-Chloroethyl) ether	ND	ug/L	0.98	0.10	1	06/22/18 09:41	06/25/18 19:41	111-44-4	1c
bis(2-Chloroisopropyl) ether	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	108-60-1	1c
2-Chloronaphthalene	ND U5	ug/L	0.98	0.099	1	06/22/18 09:41	06/25/18 19:41	91-58-7	1c,L2
2-Chlorophenol	ND	ug/L	0.98	0.12	1	06/22/18 09:41	06/25/18 19:41	95-57-8	1c
4-Chlorophenylphenyl ether	ND	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	7005-72-3	1c
Chrysene	ND U5	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	218-01-9	1c,L2
Dibenz(a,h)anthracene	ND	ug/L	0.98	0.30	1	06/22/18 09:41	06/25/18 19:41	53-70-3	1c
Dibenzofuran	ND	ug/L	0.98	0.12	1	06/22/18 09:41	06/25/18 19:41	132-64-9	1c
1,2-Dichlorobenzene	ND	ug/L	0.98	0.095	1	06/22/18 09:41	06/25/18 19:41	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/L	0.98	0.12	1	06/22/18 09:41	06/25/18 19:41	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/L	0.98	0.099	1	06/22/18 09:41	06/25/18 19:41	106-46-7	1c

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-30 **Lab ID: 30256740001** Collected: 06/20/18 10:45 Received: 06/21/18 10:10 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
3,3'-Dichlorobenzidine	ND	ug/L	0.98	0.17	1	06/22/18 09:41	06/25/18 19:41	91-94-1	1c
2,4-Dichlorophenol	ND	ug/L	0.98	0.12	1	06/22/18 09:41	06/25/18 19:41	120-83-2	1c
Diethylphthalate	ND	ug/L	0.98	0.18	1	06/22/18 09:41	06/25/18 19:41	84-66-2	1c
2,4-Dimethylphenol	ND	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	105-67-9	1c,CH
Dimethylphthalate	ND	ug/L	0.98	0.15	1	06/22/18 09:41	06/25/18 19:41	131-11-3	1c
Di-n-butylphthalate	ND	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	84-74-2	1c
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.80	1	06/22/18 09:41	06/25/18 19:41	534-52-1	1c,CH
2,4-Dinitrophenol	ND	ug/L	2.5	0.71	1	06/22/18 09:41	06/25/18 19:41	51-28-5	1c,CH
2,4-Dinitrotoluene	ND	ug/L	0.98	0.13	1	06/22/18 09:41	06/25/18 19:41	121-14-2	1c
2,6-Dinitrotoluene	ND	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	606-20-2	1c
Di-n-octylphthalate	ND	ug/L	0.98	0.17	1	06/22/18 09:41	06/25/18 19:41	117-84-0	1c
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.98	0.15	1	06/22/18 09:41	06/25/18 19:41	117-81-7	1c
Fluoranthene	ND	ug/L	0.98	0.079	1	06/22/18 09:41	06/25/18 19:41	206-44-0	1c
Fluorene	ND	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	86-73-7	1c
Hexachloro-1,3-butadiene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	87-68-3	1c
Hexachlorobenzene	ND	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	118-74-1	1c
Hexachlorocyclopentadiene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	77-47-4	1c
Hexachloroethane	ND	ug/L	0.98	0.12	1	06/22/18 09:41	06/25/18 19:41	67-72-1	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.98	0.30	1	06/22/18 09:41	06/25/18 19:41	193-39-5	1c
Isophorone	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	78-59-1	1c
1-Methylnaphthalene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	90-12-0	1c
2-Methylnaphthalene	ND	ug/L	0.98	0.10	1	06/22/18 09:41	06/25/18 19:41	91-57-6	1c
2-Methylphenol(o-Cresol)	ND	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.16	1	06/22/18 09:41	06/25/18 19:41		1c
Naphthalene	ND	ug/L	0.98	0.10	1	06/22/18 09:41	06/25/18 19:41	91-20-3	1c
2-Nitroaniline	ND	ug/L	2.5	0.80	1	06/22/18 09:41	06/25/18 19:41	88-74-4	1c
3-Nitroaniline	ND UJ	ug/L	2.5	0.93	1	06/22/18 09:41	06/25/18 19:41	99-09-2	1c,CH
4-Nitroaniline	ND UJ	ug/L	2.5	1.0	1	06/22/18 09:41	06/25/18 19:41	100-01-6	1c,CH
Nitrobenzene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	98-95-3	1c
2-Nitrophenol	ND	ug/L	0.98	0.13	1	06/22/18 09:41	06/25/18 19:41	88-75-5	1c
4-Nitrophenol	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	100-02-7	1c,CH
N-Nitrosodimethylamine	ND	ug/L	0.98	0.065	1	06/22/18 09:41	06/25/18 19:41	62-75-9	1c
N-Nitroso-di-n-propylamine	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	621-64-7	1c
N-Nitrosodiphenylamine	ND	ug/L	0.98	0.12	1	06/22/18 09:41	06/25/18 19:41	86-30-6	1c
Pentachlorophenol	ND	ug/L	2.5	0.83	1	06/22/18 09:41	06/25/18 19:41	87-86-5	1c
Phenanthrene	ND	ug/L	0.98	0.16	1	06/22/18 09:41	06/25/18 19:41	85-01-8	1c
Phenol	ND	ug/L	0.98	0.055	1	06/22/18 09:41	06/25/18 19:41	108-95-2	1c
Pyrene	ND UJ	ug/L	0.98	0.15	1	06/22/18 09:41	06/25/18 19:41	129-00-0	1c,L2
1,2,4-Trichlorobenzene	ND	ug/L	0.98	0.11	1	06/22/18 09:41	06/25/18 19:41	120-82-1	1c
2,4,5-Trichlorophenol	ND UJ	ug/L	2.5	0.80	1	06/22/18 09:41	06/25/18 19:41	95-95-4	1c,L2
2,4,6-Trichlorophenol	ND UJ	ug/L	0.98	0.14	1	06/22/18 09:41	06/25/18 19:41	88-06-2	1c,L2
Surrogates									
Nitrobenzene-d5 (S)	48	%	13-114		1	06/22/18 09:41	06/25/18 19:41	4165-60-0	
2-Fluorobiphenyl (S)	47	%	19-103		1	06/22/18 09:41	06/25/18 19:41	321-60-8	
Terphenyl-d14 (S)	66	%	14-124		1	06/22/18 09:41	06/25/18 19:41	1718-51-0	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-30 **Lab ID: 30256740001** Collected: 06/20/18 10:45 Received: 06/21/18 10:10 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
Surrogates									
Phenol-d6 (S)	19	%	10-113		1	06/22/18 09:41	06/25/18 19:41	13127-88-3	
2-Fluorophenol (S)	29	%	10-115		1	06/22/18 09:41	06/25/18 19:41	367-12-4	
2,4,6-Tribromophenol (S)	69	%	36-114		1	06/22/18 09:41	06/25/18 19:41	118-79-6	
8260C MSV	Analytical Method: EPA 8260C								
Acetone	ND	ug/L	10.0	2.8	1		06/26/18 16:27	67-64-1	6c
Benzene	ND	ug/L	1.0	0.24	1		06/26/18 16:27	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.34	1		06/26/18 16:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.29	1		06/26/18 16:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.32	1		06/26/18 16:27	75-25-2	
Bromomethane	ND	ug/L	1.0	0.49	1		06/26/18 16:27	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	1.6	1		06/26/18 16:27		
2-Butanone (MEK)	ND	ug/L	10.0	2.1	1		06/26/18 16:27	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		06/26/18 16:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.34	1		06/26/18 16:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.15	1		06/26/18 16:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.55	1		06/26/18 16:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.30	1		06/26/18 16:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.68	1		06/26/18 16:27	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		06/26/18 16:27	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/26/18 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/26/18 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		06/26/18 16:27	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.19	1		06/26/18 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.25	1		06/26/18 16:27	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.41	1		06/26/18 16:27	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.31	1		06/26/18 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.18	1		06/26/18 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		06/26/18 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		06/26/18 16:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.25	1		06/26/18 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/26/18 16:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.31	1		06/26/18 16:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.66	1		06/26/18 16:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.24	1		06/26/18 16:27	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.77	1		06/26/18 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.37	1		06/26/18 16:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.23	1		06/26/18 16:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/18 16:27	91-20-3	
Styrene	ND	ug/L	1.0	0.17	1		06/26/18 16:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		06/26/18 16:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.32	1		06/26/18 16:27	127-18-4	
Toluene	ND	ug/L	1.0	0.30	1		06/26/18 16:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		06/26/18 16:27	120-82-1	

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-30 **Lab ID: 30256740001** Collected: 06/20/18 10:45 Received: 06/21/18 10:10 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
1,1,1-Trichloroethane	ND	ug/L	1.0	0.28	1		06/26/18 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		06/26/18 16:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.39	1		06/26/18 16:27	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.25	1		06/26/18 16:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.21	1		06/26/18 16:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.31	1		06/26/18 16:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.78	1		06/26/18 16:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.60	1		06/26/18 16:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.18	1		06/26/18 16:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	79-129		1		06/26/18 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		06/26/18 16:27	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		06/26/18 16:27	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		06/26/18 16:27	1868-53-7	

NW 8/1/18

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Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-31 **Lab ID: 30256740002** Collected: 06/20/18 09:50 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	ND	mg/L	0.098	0.012	1	06/22/18 09:46	06/22/18 19:52		1c
Surrogates									
o-Terphenyl (S)	53	%	17-107		1	06/22/18 09:46	06/22/18 19:52	84-15-1	
8081B Organochlorine Pesticide	Analytical Method: EPA 8081B Preparation Method: EPA 3510C								
Aldrin	ND	ug/L	0.025	0.0022	1	06/22/18 08:58	06/22/18 19:07	309-00-2	1c
alpha-BHC	ND	ug/L	0.025	0.0033	1	06/22/18 08:58	06/22/18 19:07	319-84-6	1c
beta-BHC	ND	ug/L	0.025	0.0082	1	06/22/18 08:58	06/22/18 19:07	319-85-7	1c,CH
delta-BHC	ND	ug/L	0.025	0.0065	1	06/22/18 08:58	06/22/18 19:07	319-86-8	1c,CH
gamma-BHC (Lindane)	ND	ug/L	0.025	0.0024	1	06/22/18 08:58	06/22/18 19:07	58-89-9	1c
alpha-Chlordane	ND	ug/L	0.025	0.0017	1	06/22/18 08:58	06/22/18 19:07	5103-71-9	1c
gamma-Chlordane	ND	ug/L	0.025	0.0052	1	06/22/18 08:58	06/22/18 19:07	5103-74-2	1c
4,4'-DDD	ND	ug/L	0.050	0.0037	1	06/22/18 08:58	06/22/18 19:07	72-54-8	1c,CH
4,4'-DDE	ND	ug/L	0.050	0.0033	1	06/22/18 08:58	06/22/18 19:07	72-55-9	1c
4,4'-DDT	ND	ug/L	0.050	0.0028	1	06/22/18 08:58	06/22/18 19:07	50-29-3	1c
Dieldrin	ND	ug/L	0.050	0.0018	1	06/22/18 08:58	06/22/18 19:07	60-57-1	1c,CH
Endosulfan I	ND	ug/L	0.025	0.0015	1	06/22/18 08:58	06/22/18 19:07	959-98-8	1c
Endosulfan II	ND	ug/L	0.050	0.0021	1	06/22/18 08:58	06/22/18 19:07	33213-65-9	1c,CH
Endosulfan sulfate	ND	ug/L	0.050	0.0024	1	06/22/18 08:58	06/22/18 19:07	1031-07-8	1c
Endrin	ND	ug/L	0.050	0.0049	1	06/22/18 08:58	06/22/18 19:07	72-20-8	1c
Endrin aldehyde	ND	ug/L	0.050	0.0033	1	06/22/18 08:58	06/22/18 19:07	7421-93-4	1c
Endrin ketone	ND	ug/L	0.050	0.0019	1	06/22/18 08:58	06/22/18 19:07	53494-70-5	1c
Heptachlor	ND	ug/L	0.025	0.0021	1	06/22/18 08:58	06/22/18 19:07	76-44-8	1c
Heptachlor epoxide	ND	ug/L	0.025	0.0015	1	06/22/18 08:58	06/22/18 19:07	1024-57-3	1c
Methoxychlor	ND	ug/L	0.25	0.014	1	06/22/18 08:58	06/22/18 19:07	72-43-5	1c
Toxaphene	ND	ug/L	0.50	0.17	1	06/22/18 08:58	06/22/18 19:07	8001-35-2	1c
Surrogates									
Tetrachloro-m-xylene (S)	64	%	14-136		1	06/22/18 08:58	06/22/18 19:07	877-09-8	
Decachlorobiphenyl (S)	38	%	15-125		1	06/22/18 08:58	06/22/18 19:07	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.25	0.050	1	06/22/18 08:58	06/25/18 19:25	12674-11-2	1c
PCB-1221 (Aroclor 1221)	ND	ug/L	0.25	0.037	1	06/22/18 08:58	06/25/18 19:25	11104-28-2	1c
PCB-1232 (Aroclor 1232)	ND	ug/L	0.25	0.030	1	06/22/18 08:58	06/25/18 19:25	11141-16-5	1c
PCB-1242 (Aroclor 1242)	ND	ug/L	0.25	0.040	1	06/22/18 08:58	06/25/18 19:25	53469-21-9	1c
PCB-1248 (Aroclor 1248)	ND	ug/L	0.25	0.026	1	06/22/18 08:58	06/25/18 19:25	12672-29-6	1c
PCB-1254 (Aroclor 1254)	ND	ug/L	0.25	0.021	1	06/22/18 08:58	06/25/18 19:25	11097-69-1	1c
PCB-1260 (Aroclor 1260)	ND	ug/L	0.25	0.026	1	06/22/18 08:58	06/25/18 19:25	11096-82-5	1c
Surrogates									
Tetrachloro-m-xylene (S)	51	%	32-105		1	06/22/18 08:58	06/25/18 19:25	877-09-8	
Decachlorobiphenyl (S)	38	%	13-98		1	06/22/18 08:58	06/25/18 19:25	2051-24-3	
8015D GRO Water	Analytical Method: EPA 8015D								
TPH (C06-C10)	ND	ug/L	200		1		06/25/18 15:31		
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		1		06/25/18 15:31	460-00-4	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

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ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-31 **Lab ID: 30256740002** Collected: 06/20/18 09:50 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum	**174**	UJ ug/L	50.0	14.1	1	06/21/18 16:38	06/22/18 08:13	7429-90-5	
Antimony	ND	ug/L	6.0	3.4	1	06/21/18 16:38	06/22/18 08:13	7440-36-0	
Arsenic	**6.0**	ug/L	5.0	2.7	1	06/21/18 16:38	06/22/18 08:13	7440-38-2	
Barium	**131**	U ug/L	10.0	0.76	1	06/21/18 16:38	06/22/18 08:13	7440-39-3	
Beryllium	ND	ug/L	1.0	0.24	1	06/21/18 16:38	06/22/18 08:13	7440-41-7	
Boron	**73.4**	ug/L	50.0	1.4	1	06/21/18 16:38	06/22/18 08:13	7440-42-8	
Cadmium	ND	ug/L	3.0	0.87	1	06/21/18 16:38	06/22/18 08:13	7440-43-9	
Calcium	**70400**	ug/L	1000	20.3	1	06/21/18 16:38	06/22/18 08:13	7440-70-2	
Chromium	ND	ug/L	5.0	0.86	1	06/21/18 16:38	06/22/18 08:13	7440-47-3	
Cobalt	ND	ug/L	5.0	0.93	1	06/21/18 16:38	06/22/18 08:13	7440-48-4	
Copper	ND	ug/L	5.0	3.3	1	06/21/18 16:38	06/22/18 08:13	7440-50-8	
Iron	**6160**	U ug/L	70.0	7.1	1	06/21/18 16:38	06/22/18 08:13	7439-89-6	
Lead	ND	ug/L	5.0	1.8	1	06/21/18 16:38	06/22/18 08:13	7439-92-1	
Magnesium	**9400**	ug/L	200	22.2	1	06/21/18 16:38	06/22/18 08:13	7439-95-4	
Manganese	**880**	ug/L	5.0	0.77	1	06/21/18 16:38	06/22/18 08:13	7439-96-5	
Molybdenum	ND	ug/L	20.0	2.0	1	06/21/18 16:38	06/22/18 08:13	7439-98-7	
Nickel	ND	ug/L	10.0	1.0	1	06/21/18 16:38	06/22/18 08:13	7440-02-0	
Potassium	**7960**	ug/L	500	36.0	1	06/21/18 16:38	06/22/18 08:13	7440-09-7	
Selenium	ND	ug/L	8.0	4.8	1	06/21/18 16:38	06/22/18 08:13	7782-49-2	
Silver	ND	ug/L	6.0	0.99	1	06/21/18 16:38	06/22/18 08:13	7440-22-4	
Sodium	**28300**	ug/L	1000	434	1	06/21/18 16:38	06/22/18 08:13	7440-23-5	
Thallium	ND	ug/L	10.0	2.2	1	06/21/18 16:38	06/22/18 08:13	7440-28-0	
Vanadium	ND	ug/L	5.0	0.47	1	06/21/18 16:38	06/22/18 08:13	7440-62-2	
Zinc	ND	ug/L	10.0	1.0	1	06/21/18 16:38	06/22/18 08:13	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum, Dissolved	ND	ug/L	50.0	14.1	1	06/21/18 16:36	06/22/18 07:44	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.4	1	06/21/18 16:36	06/22/18 07:44	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	06/21/18 16:36	06/22/18 07:44	7440-38-2	
Barium, Dissolved	**119**	ug/L	10.0	0.76	1	06/21/18 16:36	06/22/18 07:44	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.24	1	06/21/18 16:36	06/22/18 07:44	7440-41-7	
Boron, Dissolved	**71.5**	ug/L	50.0	1.4	1	06/21/18 16:36	06/22/18 07:44	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.87	1	06/21/18 16:36	06/22/18 07:44	7440-43-9	
Calcium, Dissolved	**68400**	ug/L	1000	20.3	1	06/21/18 16:36	06/22/18 07:44	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.86	1	06/21/18 16:36	06/22/18 07:44	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.93	1	06/21/18 16:36	06/22/18 07:44	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	3.3	1	06/21/18 16:36	06/22/18 07:44	7440-50-8	
Iron, Dissolved	**2740**	ug/L	70.0	7.1	1	06/21/18 16:36	06/22/18 07:44	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	1.8	1	06/21/18 16:36	06/22/18 07:44	7439-92-1	
Magnesium, Dissolved	**9100**	ug/L	200	22.2	1	06/21/18 16:36	06/22/18 07:44	7439-95-4	
Manganese, Dissolved	**848**	ug/L	5.0	0.77	1	06/21/18 16:36	06/22/18 07:44	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	2.0	1	06/21/18 16:36	06/22/18 07:44	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:36	06/22/18 07:44	7440-02-0	
Potassium, Dissolved	**7680**	ug/L	500	36.0	1	06/21/18 16:36	06/22/18 07:44	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	4.8	1	06/21/18 16:36	06/22/18 07:44	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	0.99	1	06/21/18 16:36	06/22/18 07:44	7440-22-4	

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Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-31 **Lab ID: 30256740002** Collected: 06/20/18 09:50 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Sodium, Dissolved	**27300**	ug/L	1000	434	1	06/21/18 16:36	06/22/18 07:44	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	2.2	1	06/21/18 16:36	06/22/18 07:44	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.47	1	06/21/18 16:36	06/22/18 07:44	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	1.0	1	06/21/18 16:36	06/22/18 07:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	0.030	1	06/22/18 08:32	06/22/18 17:30	7439-97-6	4c
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	06/22/18 08:19	06/22/18 17:13	7439-97-6	
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.99	0.13	1	06/22/18 09:41	06/25/18 20:02	83-32-9	1c
Acenaphthylene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	208-96-8	1c
Anthracene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	120-12-7	1c
Azobenzene	ND	ug/L	0.99	0.16	1	06/22/18 09:41	06/25/18 20:02	103-33-3	1c,N2
Benzo(a)anthracene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	56-55-3	1c
Benzo(a)pyrene	ND V5	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	50-32-8	1c,L2
Benzo(b)fluoranthene	ND V5	ug/L	0.99	0.23	1	06/22/18 09:41	06/25/18 20:02	205-99-2	1c,L2
Benzo(g,h,i)perylene	ND	ug/L	0.99	0.35	1	06/22/18 09:41	06/25/18 20:02	191-24-2	1c
Benzo(k)fluoranthene	ND V5	ug/L	0.99	0.091	1	06/22/18 09:41	06/25/18 20:02	207-08-9	1c,L2
Benzoic acid	ND V5	ug/L	24.6	0.26	1	06/22/18 09:41	06/25/18 20:02	65-85-0	1c,CH
Benzyl alcohol	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	100-51-6	1c
4-Bromophenylphenyl ether	ND	ug/L	0.99	0.15	1	06/22/18 09:41	06/25/18 20:02	101-55-3	1c
Butylbenzylphthalate	ND	ug/L	0.99	0.13	1	06/22/18 09:41	06/25/18 20:02	85-68-7	1c
Carbazole	ND	ug/L	0.99	0.32	1	06/22/18 09:41	06/25/18 20:02	86-74-8	1c
4-Chloro-3-methylphenol	ND	ug/L	0.99	0.13	1	06/22/18 09:41	06/25/18 20:02	59-50-7	1c
4-Chloroaniline	ND	ug/L	0.99	0.10	1	06/22/18 09:41	06/25/18 20:02	106-47-8	1c,CH
bis(2-Chloroethoxy)methane	ND	ug/L	0.99	0.13	1	06/22/18 09:41	06/25/18 20:02	111-91-1	1c
bis(2-Chloroethyl) ether	ND	ug/L	0.99	0.10	1	06/22/18 09:41	06/25/18 20:02	111-44-4	1c
bis(2-Chloroisopropyl) ether	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	108-60-1	1c
2-Chloronaphthalene	ND V5	ug/L	0.99	0.10	1	06/22/18 09:41	06/25/18 20:02	91-58-7	1c,L2
2-Chlorophenol	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	95-57-8	1c
4-Chlorophenylphenyl ether	ND	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	7005-72-3	1c
Chrysene	ND V5	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	218-01-9	1c,L2
Dibenz(a,h)anthracene	ND	ug/L	0.99	0.30	1	06/22/18 09:41	06/25/18 20:02	53-70-3	1c
Dibenzofuran	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	132-64-9	1c
1,2-Dichlorobenzene	ND	ug/L	0.99	0.096	1	06/22/18 09:41	06/25/18 20:02	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/L	0.99	0.10	1	06/22/18 09:41	06/25/18 20:02	106-46-7	1c
3,3'-Dichlorobenzidine	ND	ug/L	0.99	0.17	1	06/22/18 09:41	06/25/18 20:02	91-94-1	1c
2,4-Dichlorophenol	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	120-83-2	1c
Diethylphthalate	ND	ug/L	0.99	0.18	1	06/22/18 09:41	06/25/18 20:02	84-66-2	1c
2,4-Dimethylphenol	ND	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	105-67-9	1c,CH
Dimethylphthalate	ND	ug/L	0.99	0.15	1	06/22/18 09:41	06/25/18 20:02	131-11-3	1c
Di-n-butylphthalate	ND	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	84-74-2	1c

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-31 **Lab ID: 30256740002** Collected: 06/20/18 09:50 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.80	1	06/22/18 09:41	06/25/18 20:02	534-52-1	1c,CH
2,4-Dinitrophenol	ND	ug/L	2.5	0.72	1	06/22/18 09:41	06/25/18 20:02	51-28-5	1c,CH
2,4-Dinitrotoluene	ND	ug/L	0.99	0.13	1	06/22/18 09:41	06/25/18 20:02	121-14-2	1c
2,6-Dinitrotoluene	ND	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	606-20-2	1c
Di-n-octylphthalate	ND	ug/L	0.99	0.17	1	06/22/18 09:41	06/25/18 20:02	117-84-0	1c
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.99	0.15	1	06/22/18 09:41	06/25/18 20:02	117-81-7	1c
Fluoranthene	ND	ug/L	0.99	0.080	1	06/22/18 09:41	06/25/18 20:02	206-44-0	1c
Fluorene	ND	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	86-73-7	1c
Hexachloro-1,3-butadiene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	87-68-3	1c
Hexachlorobenzene	ND	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	118-74-1	1c
Hexachlorocyclopentadiene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	77-47-4	1c
Hexachloroethane	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	67-72-1	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.99	0.30	1	06/22/18 09:41	06/25/18 20:02	193-39-5	1c
Isophorone	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	78-59-1	1c
1-Methylnaphthalene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	90-12-0	1c
2-Methylnaphthalene	ND	ug/L	0.99	0.10	1	06/22/18 09:41	06/25/18 20:02	91-57-6	1c
2-Methylphenol(o-Cresol)	ND	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.16	1	06/22/18 09:41	06/25/18 20:02		1c
Naphthalene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	91-20-3	1c
2-Nitroaniline	ND	ug/L	2.5	0.80	1	06/22/18 09:41	06/25/18 20:02	88-74-4	1c
3-Nitroaniline	ND V3	ug/L	2.5	0.93	1	06/22/18 09:41	06/25/18 20:02	99-09-2	1c,CH
4-Nitroaniline	ND V3	ug/L	2.5	1.0	1	06/22/18 09:41	06/25/18 20:02	100-01-6	1c,CH
Nitrobenzene	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	98-95-3	1c
2-Nitrophenol	ND	ug/L	0.99	0.13	1	06/22/18 09:41	06/25/18 20:02	88-75-5	1c
4-Nitrophenol	ND	ug/L	0.99	0.11	1	06/22/18 09:41	06/25/18 20:02	100-02-7	1c,CH
N-Nitrosodimethylamine	ND	ug/L	0.99	0.065	1	06/22/18 09:41	06/25/18 20:02	62-75-9	1c
N-Nitroso-di-n-propylamine	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	621-64-7	1c
N-Nitrosodiphenylamine	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	86-30-6	1c
Pentachlorophenol	ND	ug/L	2.5	0.83	1	06/22/18 09:41	06/25/18 20:02	87-86-5	1c
Phenanthrene	ND	ug/L	0.99	0.16	1	06/22/18 09:41	06/25/18 20:02	85-01-8	1c
Phenol	ND	ug/L	0.99	0.055	1	06/22/18 09:41	06/25/18 20:02	108-95-2	1c
Pyrene	ND V3	ug/L	0.99	0.15	1	06/22/18 09:41	06/25/18 20:02	129-00-0	1c,L2
1,2,4-Trichlorobenzene	ND	ug/L	0.99	0.12	1	06/22/18 09:41	06/25/18 20:02	120-82-1	1c
2,4,5-Trichlorophenol	ND V3	ug/L	2.5	0.81	1	06/22/18 09:41	06/25/18 20:02	95-95-4	1c,L2
2,4,6-Trichlorophenol	ND V3	ug/L	0.99	0.14	1	06/22/18 09:41	06/25/18 20:02	88-06-2	1c,L2
Surrogates									
Nitrobenzene-d5 (S)	74	%	13-114		1	06/22/18 09:41	06/25/18 20:02	4165-60-0	
2-Fluorobiphenyl (S)	72	%	19-103		1	06/22/18 09:41	06/25/18 20:02	321-60-8	
Terphenyl-d14 (S)	85	%	14-124		1	06/22/18 09:41	06/25/18 20:02	1718-51-0	
Phenol-d6 (S)	28	%	10-113		1	06/22/18 09:41	06/25/18 20:02	13127-88-3	
2-Fluorophenol (S)	38	%	10-115		1	06/22/18 09:41	06/25/18 20:02	367-12-4	
2,4,6-Tribromophenol (S)	97	%	36-114		1	06/22/18 09:41	06/25/18 20:02	118-79-6	
8260C MSV	Analytical Method: EPA 8260C								
Acetone	ND	ug/L	10.0	2.8	1		06/26/18 16:53	67-64-1	6e
Benzene	ND	ug/L	1.0	0.24	1		06/26/18 16:53	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-31 **Lab ID: 30256740002** Collected: 06/20/18 09:50 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Bromochloromethane	ND	ug/L	1.0	0.34	1		06/26/18 16:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.29	1		06/26/18 16:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.32	1		06/26/18 16:53	75-25-2	
Bromomethane	ND	ug/L	1.0	0.49	1		06/26/18 16:53	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	1.6	1		06/26/18 16:53		
2-Butanone (MEK)	ND	ug/L	10.0	2.1	1		06/26/18 16:53	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		06/26/18 16:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.34	1		06/26/18 16:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.15	1		06/26/18 16:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.55	1		06/26/18 16:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.30	1		06/26/18 16:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.68	1		06/26/18 16:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		06/26/18 16:53	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/26/18 16:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/26/18 16:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		06/26/18 16:53	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.19	1		06/26/18 16:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.25	1		06/26/18 16:53	107-06-2	
1,2-Dichloroethene (Total)	**2.3**	ug/L	2.0	0.41	1		06/26/18 16:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.31	1		06/26/18 16:53	75-35-4	
cis-1,2-Dichloroethene	**2.3**	ug/L	1.0	0.18	1		06/26/18 16:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		06/26/18 16:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		06/26/18 16:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.25	1		06/26/18 16:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/26/18 16:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.31	1		06/26/18 16:53	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.66	1		06/26/18 16:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.24	1		06/26/18 16:53	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.77	1		06/26/18 16:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.37	1		06/26/18 16:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.23	1		06/26/18 16:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/18 16:53	91-20-3	
Styrene	ND	ug/L	1.0	0.17	1		06/26/18 16:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		06/26/18 16:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.32	1		06/26/18 16:53	127-18-4	
Toluene	ND	ug/L	1.0	0.30	1		06/26/18 16:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		06/26/18 16:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.28	1		06/26/18 16:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		06/26/18 16:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.39	1		06/26/18 16:53	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.25	1		06/26/18 16:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.21	1		06/26/18 16:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.31	1		06/26/18 16:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.78	1		06/26/18 16:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.60	1		06/26/18 16:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.18	1		06/26/18 16:53	95-47-6	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: MW-31 **Lab ID: 30256740002** Collected: 06/20/18 09:50 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		06/26/18 16:53	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		06/26/18 16:53	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/26/18 16:53	2037-26-5	
Dibromofluoromethane (S)	104	%	80-120		1		06/26/18 16:53	1868-53-7	

NW 6/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: Trip Blank **Lab ID: 30256740004** Collected: 06/20/18 00:01 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
Acetone	ND	ug/L	10.0	2.8	1		06/26/18 15:11	67-64-1	6c
Benzene	ND	ug/L	1.0	0.24	1		06/26/18 15:11	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.34	1		06/26/18 15:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.29	1		06/26/18 15:11	75-27-4	
Bromoform	ND	ug/L	1.0	0.32	1		06/26/18 15:11	75-25-2	
Bromomethane	ND	ug/L	1.0	0.49	1		06/26/18 15:11	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	1.6	1		06/26/18 15:11		
2-Butanone (MEK)	ND	ug/L	10.0	2.1	1		06/26/18 15:11	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		06/26/18 15:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.34	1		06/26/18 15:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.15	1		06/26/18 15:11	108-90-7	
Chloroethane	ND	ug/L	1.0	0.55	1		06/26/18 15:11	75-00-3	
Chloroform	ND	ug/L	1.0	0.30	1		06/26/18 15:11	67-66-3	
Chloromethane	ND	ug/L	1.0	0.68	1		06/26/18 15:11	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.27	1		06/26/18 15:11	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.50	1		06/26/18 15:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1		06/26/18 15:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		06/26/18 15:11	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.19	1		06/26/18 15:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.25	1		06/26/18 15:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.41	1		06/26/18 15:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.31	1		06/26/18 15:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.18	1		06/26/18 15:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		06/26/18 15:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		06/26/18 15:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.25	1		06/26/18 15:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/26/18 15:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.31	1		06/26/18 15:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.66	1		06/26/18 15:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.24	1		06/26/18 15:11	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.77	1		06/26/18 15:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.37	1		06/26/18 15:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.23	1		06/26/18 15:11	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/18 15:11	91-20-3	
Styrene	ND	ug/L	1.0	0.17	1		06/26/18 15:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		06/26/18 15:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.32	1		06/26/18 15:11	127-18-4	
Toluene	ND	ug/L	1.0	0.30	1		06/26/18 15:11	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		06/26/18 15:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.28	1		06/26/18 15:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		06/26/18 15:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.39	1		06/26/18 15:11	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.25	1		06/26/18 15:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.21	1		06/26/18 15:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.31	1		06/26/18 15:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.78	1		06/26/18 15:11	1330-20-7	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

4

ANALYTICAL RESULTS

Project: green Island RI
Pace Project No.: 30256740

Sample: Trip Blank **Lab ID: 30256740004** Collected: 06/20/18 00:01 Received: 06/21/18 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
m&p-Xylene	ND	ug/L	2.0	0.60	1		06/26/18 15:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.18	1		06/26/18 15:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		06/26/18 15:11	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		06/26/18 15:11	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/26/18 15:11	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		06/26/18 15:11	1868-53-7	

NW 8/7/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: 30256929
Laboratory: Pace Analytical Services, LLC, Greensburg, Pennsylvania
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	Equipment Blank	30256929001	Water

A Data Usability Summary Review was performed on the analytical data for one aqueous equipment blank sample collected on June 21, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions"*.

Specific method references are as follows:

Analysis	*Method References*
SVOCs	USEPA SW-846 Method 8270D
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
TPH	USEPA SW-846 Method 8015D
Metals/Hg (T&D)	USEPA SW-846 Methods 6010C/7470A

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 0, July 2015: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;
- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Data Completeness

- This is a summary package only. Information was not provided for initial calibration, continuing calibration, tuning, and internal standards.

Semivolatile Organics Compounds (SVOCs)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

GC/MS Tuning

- Information not provided.

Initial Calibration

- Information not provided.

Continuing Calibration

- Information not provided.

Method Blank

- The method blank was free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries.

Internal Standard (IS) Area Performance

- Information not provided.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Pesticides

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- Information not provided.

Continuing Calibration

- Information not provided.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Polychlorinated Biphenyls (PCBs)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- Information not provided.

Continuing Calibration

- Information not provided.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Total Petroleum Hydrocarbons (TPH)

Holding Times

- The sample was extracted within 7 days for water samples and analyzed within 40 days.

Initial Calibration

- Information not provided.

Continuing Calibration

- Information not provided.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. mg/L	Qualifier	Affected Samples
Equipment Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Internal Standards

- All IS area and retention time (RT) criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

GC Column Difference Results

- All criteria were met.

Metals & Mercury (Total & Dissolved)

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Initial Calibration Verification

- Information not provided.

Continuing Calibration Verification

- Information not provided.

Method Blank

- The method blank samples were free of contamination.

Field Blank

- Field QC results are summarized below.

Total Metals				
Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	Aluminum	1880	None	Applies to other packages
	Barium	16.7		
	Chromium	10.1		
	Iron	1700		
	Magnesium	450		
	Manganese	29.7		
	Potassium	772		
	Zinc	11.0		

Dissolved Metals				
Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Equipment Blank	Manganese	5.8	None	Applies to other packages

ICP Interference Check Samples

- Information not provided.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS sample exhibited acceptable recoveries.

ICP Serial Dilution

- Information not provided.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/8/18

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green island RI
Pace Project No.: 30256929

Sample: Equipment Blank **Lab ID: 30256929001** Collected: 06/21/18 08:30 Received: 06/22/18 09:40 Matrix: Water
Comments: • 6/22/18 - Added 2.5ml HNO3 to Metals bottle prior to analysis. pH <2.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015D TPH	Analytical Method: EPA 8015D Preparation Method: EPA 3510C								
TPH (C10-C28)	ND	mg/L	0.098	0.012	1	06/25/18 17:13	06/27/18 22:43		1c
Surrogates									
o-Terphenyl (S)	55	%	17-107		1	06/25/18 17:13	06/27/18 22:43	84-15-1	
8081B Organochlorine Pesticide	Analytical Method: EPA 8081B Preparation Method: EPA 3510C								
Aldrin	ND	ug/L	0.027	0.0024	1	06/24/18 08:03	06/26/18 20:54	309-00-2	1c
alpha-BHC	ND	ug/L	0.027	0.0036	1	06/24/18 08:03	06/26/18 20:54	319-84-6	1c
beta-BHC	ND	ug/L	0.027	0.0091	1	06/24/18 08:03	06/26/18 20:54	319-85-7	1c
delta-BHC	ND	ug/L	0.027	0.0073	1	06/24/18 08:03	06/26/18 20:54	319-86-8	1c
gamma-BHC (Lindane)	ND	ug/L	0.027	0.0026	1	06/24/18 08:03	06/26/18 20:54	58-89-9	1c
alpha-Chlordane	ND	ug/L	0.027	0.0019	1	06/24/18 08:03	06/26/18 20:54	5103-71-9	1c
gamma-Chlordane	ND	ug/L	0.027	0.0058	1	06/24/18 08:03	06/26/18 20:54	5103-74-2	1c
4,4'-DDD	ND	ug/L	0.055	0.0041	1	06/24/18 08:03	06/26/18 20:54	72-54-8	1c
4,4'-DDE	ND	ug/L	0.055	0.0036	1	06/24/18 08:03	06/26/18 20:54	72-55-9	1c
4,4'-DDT	ND	ug/L	0.055	0.0031	1	06/24/18 08:03	06/26/18 20:54	50-29-3	1c
Dieldrin	ND	ug/L	0.055	0.0020	1	06/24/18 08:03	06/26/18 20:54	60-57-1	1c
Endosulfan I	ND	ug/L	0.027	0.0016	1	06/24/18 08:03	06/26/18 20:54	959-98-8	1c
Endosulfan II	ND	ug/L	0.055	0.0023	1	06/24/18 08:03	06/26/18 20:54	33213-65-9	1c
Endosulfan sulfate	ND	ug/L	0.055	0.0026	1	06/24/18 08:03	06/26/18 20:54	1031-07-8	1c
Endrin	ND	ug/L	0.055	0.0054	1	06/24/18 08:03	06/26/18 20:54	72-20-8	1c,CH
Endrin aldehyde	ND	ug/L	0.055	0.0036	1	06/24/18 08:03	06/26/18 20:54	7421-93-4	1c
Endrin ketone	ND	ug/L	0.055	0.0021	1	06/24/18 08:03	06/26/18 20:54	53494-70-5	1c
Heptachlor	ND	ug/L	0.027	0.0023	1	06/24/18 08:03	06/26/18 20:54	76-44-8	1c
Heptachlor epoxide	ND	ug/L	0.027	0.0016	1	06/24/18 08:03	06/26/18 20:54	1024-57-3	1c
Methoxychlor	ND	ug/L	0.27	0.015	1	06/24/18 08:03	06/26/18 20:54	72-43-5	1c
Toxaphene	ND	ug/L	0.55	0.19	1	06/24/18 08:03	06/26/18 20:54	8001-35-2	1c
Surrogates									
Tetrachloro-m-xylene (S)	71	%	14-136		1	06/24/18 08:03	06/26/18 20:54	877-09-8	
Decachlorobiphenyl (S)	48	%	15-125		1	06/24/18 08:03	06/26/18 20:54	2051-24-3	
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.27	0.055	1	06/24/18 08:03	06/26/18 17:39	12674-11-2	1c
PCB-1221 (Aroclor 1221)	ND	ug/L	0.27	0.041	1	06/24/18 08:03	06/26/18 17:39	11104-28-2	1c
PCB-1232 (Aroclor 1232)	ND	ug/L	0.27	0.033	1	06/24/18 08:03	06/26/18 17:39	11141-16-5	1c
PCB-1242 (Aroclor 1242)	ND	ug/L	0.27	0.045	1	06/24/18 08:03	06/26/18 17:39	53469-21-9	1c
PCB-1248 (Aroclor 1248)	ND	ug/L	0.27	0.029	1	06/24/18 08:03	06/26/18 17:39	12672-29-6	1c
PCB-1254 (Aroclor 1254)	ND	ug/L	0.27	0.024	1	06/24/18 08:03	06/26/18 17:39	11097-69-1	1c
PCB-1260 (Aroclor 1260)	ND	ug/L	0.27	0.029	1	06/24/18 08:03	06/26/18 17:39	11096-82-5	1c
Surrogates									
Tetrachloro-m-xylene (S)	59	%	32-105		1	06/24/18 08:03	06/26/18 17:39	877-09-8	
Decachlorobiphenyl (S)	46	%	13-98		1	06/24/18 08:03	06/26/18 17:39	2051-24-3	
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum	**1880**	ug/L	50.0	14.1	1	06/25/18 16:18	06/26/18 07:52	7429-90-5	
Antimony	ND	ug/L	6.0	3.4	1	06/25/18 16:18	06/26/18 07:52	7440-36-0	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green island RI
Pace Project No.: 30256929

Sample: Equipment Blank **Lab ID: 30256929001** Collected: 06/21/18 08:30 Received: 06/22/18 09:40 Matrix: Water

Comments: • 6/22/18 - Added 2.5ml HNO3 to Metals bottle prior to analysis. pH <2.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Arsenic	ND	ug/L	5.0	2.7	1	06/25/18 16:18	06/26/18 10:25	7440-38-2	
Barium	**16.7**	ug/L	10.0	0.76	1	06/25/18 16:18	06/26/18 07:52	7440-39-3	
Beryllium	ND	ug/L	1.0	0.24	1	06/25/18 16:18	06/26/18 07:52	7440-41-7	
Boron	ND	ug/L	50.0	1.4	1	06/25/18 16:18	06/26/18 07:52	7440-42-8	
Cadmium	ND	ug/L	3.0	0.87	1	06/25/18 16:18	06/26/18 07:52	7440-43-9	
Calcium	ND	ug/L	1000	20.3	1	06/25/18 16:18	06/26/18 07:52	7440-70-2	
Chromium	**10.1**	ug/L	5.0	0.86	1	06/25/18 16:18	06/26/18 07:52	7440-47-3	
Cobalt	ND	ug/L	5.0	0.93	1	06/25/18 16:18	06/26/18 07:52	7440-48-4	
Copper	ND	ug/L	5.0	3.3	1	06/25/18 16:18	06/26/18 07:52	7440-50-8	
Iron	**1700**	ug/L	70.0	7.1	1	06/25/18 16:18	06/26/18 07:52	7439-89-6	
Lead	ND	ug/L	5.0	1.8	1	06/25/18 16:18	06/26/18 07:52	7439-92-1	
Magnesium	**450**	ug/L	200	22.2	1	06/25/18 16:18	06/26/18 07:52	7439-95-4	
Manganese	**29.7**	ug/L	5.0	0.77	1	06/25/18 16:18	06/26/18 07:52	7439-96-5	
Molybdenum	ND	ug/L	20.0	2.0	1	06/25/18 16:18	06/26/18 07:52	7439-98-7	
Nickel	ND	ug/L	10.0	1.0	1	06/25/18 16:18	06/26/18 07:52	7440-02-0	
Potassium	**772**	ug/L	500	36.0	1	06/25/18 16:18	06/26/18 07:52	7440-09-7	
Selenium	ND	ug/L	8.0	4.8	1	06/25/18 16:18	06/26/18 07:52	7782-49-2	
Silver	ND	ug/L	6.0	0.99	1	06/25/18 16:18	06/26/18 07:52	7440-22-4	
Sodium	ND	ug/L	1000	434	1	06/25/18 16:18	06/26/18 07:52	7440-23-5	
Thallium	ND	ug/L	10.0	2.2	1	06/25/18 16:18	06/26/18 07:52	7440-28-0	
Vanadium	ND	ug/L	5.0	0.47	1	06/25/18 16:18	06/26/18 07:52	7440-62-2	
Zinc	**11.0**	ug/L	10.0	1.0	1	06/25/18 16:18	06/26/18 07:52	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Aluminum, Dissolved	ND	ug/L	50.0	14.1	1	06/26/18 16:43	06/27/18 08:07	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.4	1	06/26/18 16:43	06/27/18 08:07	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	06/26/18 16:43	06/27/18 08:07	7440-38-2	
Barium, Dissolved	ND	ug/L	10.0	0.76	1	06/26/18 16:43	06/27/18 08:07	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.24	1	06/26/18 16:43	06/27/18 08:07	7440-41-7	
Boron, Dissolved	ND	ug/L	50.0	1.4	1	06/26/18 16:43	06/27/18 08:07	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.87	1	06/26/18 16:43	06/27/18 08:07	7440-43-9	
Calcium, Dissolved	ND	ug/L	1000	20.3	1	06/26/18 16:43	06/27/18 08:07	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.86	1	06/26/18 16:43	06/27/18 08:07	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.93	1	06/26/18 16:43	06/27/18 08:07	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	3.3	1	06/26/18 16:43	06/27/18 08:07	7440-50-8	
Iron, Dissolved	ND	ug/L	70.0	7.1	1	06/26/18 16:43	06/27/18 08:07	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	1.8	1	06/26/18 16:43	06/27/18 08:07	7439-92-1	
Magnesium, Dissolved	ND	ug/L	200	22.2	1	06/26/18 16:43	06/27/18 08:07	7439-95-4	
Manganese, Dissolved	**5.8**	ug/L	5.0	0.77	1	06/26/18 16:43	06/27/18 08:07	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	2.0	1	06/26/18 16:43	06/27/18 08:07	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.0	1	06/26/18 16:43	06/27/18 08:07	7440-02-0	
Potassium, Dissolved	ND	ug/L	500	36.0	1	06/26/18 16:43	06/27/18 08:07	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	4.8	1	06/26/18 16:43	06/27/18 08:07	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	0.99	1	06/26/18 16:43	06/27/18 08:07	7440-22-4	
Sodium, Dissolved	ND	ug/L	1000	434	1	06/26/18 16:43	06/27/18 08:07	7440-23-5	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green island RI
Pace Project No.: 30256929

Sample: Equipment Blank **Lab ID: 30256929001** Collected: 06/21/18 08:30 Received: 06/22/18 09:40 Matrix: Water

Comments: • 6/22/18 - Added 2.5ml HNO3 to Metals bottle prior to analysis. pH <2.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Thallium, Dissolved	ND	ug/L	10.0	2.2	1	06/26/18 16:43	06/27/18 08:07	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.47	1	06/26/18 16:43	06/27/18 08:07	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	1.0	1	06/26/18 16:43	06/27/18 08:07	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	0.030	1	06/26/18 09:33	06/26/18 17:31	7439-97-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	06/26/18 09:35	06/26/18 17:55	7439-97-6	
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	83-32-9	1c
Acenaphthylene	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	208-96-8	1c
Anthracene	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	120-12-7	1c
Azobenzene	ND	ug/L	1.0	0.16	1	06/26/18 09:00	06/28/18 01:17	103-33-3	1c,~~N2~~
Benzo(a)anthracene	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	1.0	0.23	1	06/26/18 09:00	06/28/18 01:17	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.36	1	06/26/18 09:00	06/28/18 01:17	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	1.0	0.094	1	06/26/18 09:00	06/28/18 01:17	207-08-9	1c
Benzoic acid	ND	ug/L	25.5	0.27	1	06/26/18 09:00	06/28/18 01:17	65-85-0	1c
Benzyl alcohol	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	100-51-6	1c
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.16	1	06/26/18 09:00	06/28/18 01:17	101-55-3	1c
Butylbenzylphthalate	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	85-68-7	1c
Carbazole	ND	ug/L	1.0	0.33	1	06/26/18 09:00	06/28/18 01:17	86-74-8	1c
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	59-50-7	1c
4-Chloroaniline	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	106-47-8	1c
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.14	1	06/26/18 09:00	06/28/18 01:17	111-91-1	1c
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	111-44-4	1c
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	108-60-1	1c
2-Chloronaphthalene	ND	ug/L	1.0	0.10	1	06/26/18 09:00	06/28/18 01:17	91-58-7	1c
2-Chlorophenol	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	95-57-8	1c
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.14	1	06/26/18 09:00	06/28/18 01:17	7005-72-3	1c
Chrysene	ND	ug/L	1.0	0.14	1	06/26/18 09:00	06/28/18 01:17	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.31	1	06/26/18 09:00	06/28/18 01:17	53-70-3	1c
Dibenzofuran	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	132-64-9	1c
1,2-Dichlorobenzene	ND	ug/L	1.0	0.099	1	06/26/18 09:00	06/28/18 01:17	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/L	1.0	0.10	1	06/26/18 09:00	06/28/18 01:17	106-46-7	1c
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.18	1	06/26/18 09:00	06/28/18 01:17	91-94-1	1c
2,4-Dichlorophenol	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	120-83-2	1c
Diethylphthalate	ND	ug/L	1.0	0.19	1	06/26/18 09:00	06/28/18 01:17	84-66-2	1c
2,4-Dimethylphenol	ND	ug/L	1.0	0.15	1	06/26/18 09:00	06/28/18 01:17	105-67-9	1c
Dimethylphthalate	ND	ug/L	1.0	0.16	1	06/26/18 09:00	06/28/18 01:17	131-11-3	1c
Di-n-butylphthalate	ND	ug/L	1.0	0.14	1	06/26/18 09:00	06/28/18 01:17	84-74-2	1c

REPORT OF LABORATORY ANALYSIS

NW 8/1/18

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: green island RI
Pace Project No.: 30256929

Sample: Equipment Blank **Lab ID: 30256929001** Collected: 06/21/18 08:30 Received: 06/22/18 09:40 Matrix: Water

Comments: • 6/22/18 - Added 2.5ml HNO3 to Metals bottle prior to analysis. pH <2.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics	Analytical Method: EPA 8270D Preparation Method: EPA 3510C								
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	0.83	1	06/26/18 09:00	06/28/18 01:17	534-52-1	1c
2,4-Dinitrophenol	ND	ug/L	2.6	0.74	1	06/26/18 09:00	06/28/18 01:17	51-28-5	1c
2,4-Dinitrotoluene	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	121-14-2	1c
2,6-Dinitrotoluene	ND	ug/L	1.0	0.14	1	06/26/18 09:00	06/28/18 01:17	606-20-2	1c
Di-n-octylphthalate	ND	ug/L	1.0	0.18	1	06/26/18 09:00	06/28/18 01:17	117-84-0	1c
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	0.15	1	06/26/18 09:00	06/28/18 01:17	117-81-7	1c
Fluoranthene	ND	ug/L	1.0	0.083	1	06/26/18 09:00	06/28/18 01:17	206-44-0	1c
Fluorene	ND	ug/L	1.0	0.14	1	06/26/18 09:00	06/28/18 01:17	86-73-7	1c
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	87-68-3	1c
Hexachlorobenzene	ND	ug/L	1.0	0.15	1	06/26/18 09:00	06/28/18 01:17	118-74-1	1c
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	77-47-4	1c
Hexachloroethane	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	67-72-1	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.31	1	06/26/18 09:00	06/28/18 01:17	193-39-5	1c
Isophorone	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	78-59-1	1c
1-Methylnaphthalene	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	90-12-0	1c
2-Methylnaphthalene	ND	ug/L	1.0	0.10	1	06/26/18 09:00	06/28/18 01:17	91-57-6	1c
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.15	1	06/26/18 09:00	06/28/18 01:17	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.16	1	06/26/18 09:00	06/28/18 01:17		1c
Naphthalene	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	91-20-3	1c
2-Nitroaniline	ND	ug/L	2.6	0.83	1	06/26/18 09:00	06/28/18 01:17	88-74-4	1c
3-Nitroaniline	ND	ug/L	2.6	0.97	1	06/26/18 09:00	06/28/18 01:17	99-09-2	1c
4-Nitroaniline	ND	ug/L	2.6	1.0	1	06/26/18 09:00	06/28/18 01:17	100-01-6	1c
Nitrobenzene	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	98-95-3	1c
2-Nitrophenol	ND	ug/L	1.0	0.13	1	06/26/18 09:00	06/28/18 01:17	88-75-5	1c
4-Nitrophenol	ND	ug/L	1.0	0.11	1	06/26/18 09:00	06/28/18 01:17	100-02-7	1c
N-Nitrosodimethylamine	ND	ug/L	1.0	0.067	1	06/26/18 09:00	06/28/18 01:17	62-75-9	1c
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	621-64-7	1c
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	86-30-6	1c
Pentachlorophenol	ND	ug/L	2.6	0.86	1	06/26/18 09:00	06/28/18 01:17	87-86-5	1c
Phenanthrene	ND	ug/L	1.0	0.17	1	06/26/18 09:00	06/28/18 01:17	85-01-8	1c
Phenol	ND	ug/L	1.0	0.057	1	06/26/18 09:00	06/28/18 01:17	108-95-2	1c
Pyrene	ND	ug/L	1.0	0.16	1	06/26/18 09:00	06/28/18 01:17	129-00-0	1c
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.12	1	06/26/18 09:00	06/28/18 01:17	120-82-1	1c
2,4,5-Trichlorophenol	ND	ug/L	2.6	0.84	1	06/26/18 09:00	06/28/18 01:17	95-95-4	1c
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.15	1	06/26/18 09:00	06/28/18 01:17	88-06-2	1c
Surrogates									
Nitrobenzene-d5 (S)	41	%	13-114		1	06/26/18 09:00	06/28/18 01:17	4165-60-0	
2-Fluorobiphenyl (S)	42	%	19-103		1	06/26/18 09:00	06/28/18 01:17	321-60-8	
Terphenyl-d14 (S)	66	%	14-124		1	06/26/18 09:00	06/28/18 01:17	1718-51-0	
Phenol-d6 (S)	17	%	10-113		1	06/26/18 09:00	06/28/18 01:17	13127-88-3	
2-Fluorophenol (S)	27	%	10-115		1	06/26/18 09:00	06/28/18 01:17	367-12-4	
2,4,6-Tribromophenol (S)	45	%	36-114		1	06/26/18 09:00	06/28/18 01:17	118-79-6	

REPORT OF LABORATORY ANALYSIS

NW 8/7/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: C1806020
Laboratory: Centek Laboratories, LLC, Syracuse, New York
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client ID	Laboratory ID	Matrix
1	SV-9	C1806020-001A	Air
2	SV-9DUP	C1806020-002A	Air
3	SV-10	C1806020-003A	Air
4	AA-02	C1806020-004A	Air
5	TRIPBLANK	C1806020-006A	Air

A Data Usability Summary Review was performed on the analytical data for four air samples and one air trip blank collected on June 7, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under "*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition January 1999, EPA/625/R-96/010B*", Compendium Method TO-15, "*Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*".

Specific method references are as follows:

Analysis	*Method References*
VOCs	USEPA Method TO-15

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the USEPA Region II Data Validation Standard Operating Procedures (SOP) as follows:

- The USEPA Region II SOP Number HW-31, Revision 6, September 2016: Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Cover letter, Narrative, and Data Reporting Forms

- Canister Certification Blanks
- Canister Certification Pressures Differences
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- Laboratory Control Sample (LCS) recoveries
- Surrogate Compound Recoveries
- GC/MS Tuning
- Method Blank Contamination
- Initial and Continuing Calibration Summaries
- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision
- Tentatively Identified Compounds (TICs)

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Cover letter, Narrative, and Data Reporting Forms

- All criteria were met.

Canister Certification Blanks

- The batch blank checks were non-detect or < RL.

Canister Certification Pressures Differences

- All criteria were met.

Chains-of-Custody and Traffic Reports

- All criteria were met.

Holding Times

- All samples were analyzed within 30 days for air samples.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Surrogate Compound Recoveries

- All samples exhibited acceptable surrogate recoveries.

GC/MS Tuning

- All criteria were met.

Method Blank

- The method blanks were free of contamination.

Trip Blank

- Field QC sample results are summarized in the table below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
TRIPBLANK	None - ND	-	-	-

Initial Calibration

- All %RSD and mean RRF criteria were met.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and mean RRF values.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Internal Standard (IS) Area Performance

- The following table presents samples that exceeded the -50%/+100% area criteria for internal standard areas. Non-detected results for the associated compounds are considered estimated and qualified (UJ). Positive results for the associated compounds are considered estimated and qualified (J). Non-detected compounds that exceed the lower limit by -25% area criteria are considered rejected (R) and unusable for project objectives.

EDS Sample ID	Internal Standard	Area Count	Qualifier
1	Chlorobenzene-d5	High	J - Associated Positive Results
2	1,4-Difluorobenzene	High	J - Associated Positive Results
	Chlorobenzene-d5	High	J - Associated Positive Results
3	Bromochloromethane	High	J - Associated Positive Results
	1,4-Difluorobenzene	High	J - Associated Positive Results
	Chlorobenzene-d5	High	J - Associated Positive Results
4	1,4-Difluorobenzene	High	J - Associated Positive Results
	Chlorobenzene-d5	High	J - Associated Positive Results

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	SV-9 ug/m³	SV-9DUP ug/m³	RPD	Qualifier
1,2,4-Trimethylbenzene	20	21	5%	None
1,3,5-Trimethylbenzene	8.2	8.2	0%	
2,2,4-Trimethylbenzene	5.2	4.8	8%	
4-Ethyltoluene	9.9	10	1%	
Acetone	5300	4200	23%	
Benzene	15	16	6%	
Carbon Disulfide	3.6	3.6	0%	
Cyclohexane	5.6	5.0	11%	
Ethyl Acetate	2.4	ND	NC	
Ethylbenzene	44	44	0%	
Freon 11	1.2	1.1	9%	
Freon 12	1.7	1.9	11%	
Heptane	130	130	0%	
Hexane	60	60	0%	
m&p-Xylene	130	130	0%	
Methyl Ethyl Ketone	100	120	18%	
o-Xylene	38	38	0%	
Tetrachloroethylene	29	33	13%	
Toluene	140	130	7%	
trans-1,2-Dichloroethene	1.5	ND	NC	

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/7/18

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	SV-9
Lab Order:	C1806020	**Tag Number:**	325,67
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 4:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2018 4:36:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 4:36:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 4:36:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 4:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2018 4:36:00 PM
1,2,4-Trimethylbenzene	20	7.4	J	ug/m3	10	6/9/2018 12:06:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2018 4:36:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 4:36:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 4:36:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2018 4:36:00 PM
1,3,5-Trimethylbenzene	8.2	0.74	J	ug/m3	1	6/8/2018 4:36:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2018 4:36:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 4:36:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 4:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2018 4:36:00 PM
2,2,4-trimethylpentane	5.2	0.70		ug/m3	1	6/8/2018 4:36:00 PM
4-ethyltoluene	9.9	0.74	J	ug/m3	1	6/8/2018 4:36:00 PM
Acetone	5300	1200		ug/m3	1620	6/15/2018 12:42:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2018 4:36:00 PM
Benzene	15	4.8		ug/m3	10	6/9/2018 12:06:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2018 4:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2018 4:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2018 4:36:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2018 4:36:00 PM
Carbon disulfide	3.6	0.47		ug/m3	1	6/8/2018 4:36:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/8/2018 4:36:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2018 4:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2018 4:36:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2018 4:36:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2018 4:36:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 4:36:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 4:36:00 PM
Cyclohexane	5.6	0.52		ug/m3	1	6/8/2018 4:36:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2018 4:36:00 PM
Ethyl acetate	2.4	0.54		ug/m3	1	6/8/2018 4:36:00 PM
Ethylbenzene	44	6.5	J	ug/m3	10	6/9/2018 12:06:00 AM
Freon 11	1.2	0.84		ug/m3	1	6/8/2018 4:36:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2018 4:36:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2018 4:36:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

MW 8/7/18

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	SV-9
Lab Order:	C1806020	**Tag Number:**	325,67
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	1.7	0.74		ug/m3	1	6/8/2018 4:36:00 PM
Heptane	130	25		ug/m3	40	6/9/2018 12:43:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2018 4:36:00 PM
Hexane	60	5.3		ug/m3	10	6/9/2018 12:06:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/8/2018 4:36:00 PM
m&p-Xylene	130	13	J	ug/m3	10	6/9/2018 12:06:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2018 4:36:00 PM
Methyl Ethyl Ketone	100	35		ug/m3	40	6/9/2018 12:43:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2018 4:36:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2018 4:36:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	6/8/2018 4:36:00 PM
o-Xylene	38	6.5	J	ug/m3	10	6/9/2018 12:06:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2018 4:36:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2018 4:36:00 PM
Tetrachloroethylene	29	10	J	ug/m3	10	6/9/2018 12:06:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2018 4:36:00 PM
Toluene	140	23	J	ug/m3	40	6/9/2018 12:43:00 AM
trans-1,2-Dichloroethene	1.5	0.59		ug/m3	1	6/8/2018 4:36:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 4:36:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/8/2018 4:36:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2018 4:36:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2018 4:36:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/8/2018 4:36:00 PM

Qualifiers:

**	Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection

MW 8/7/18

2

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	SV-9DUP
Lab Order:	C1806020	**Tag Number:**	365,67
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 5:18:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2018 5:18:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 5:18:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 5:18:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 5:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2018 5:18:00 PM
1,2,4-Trimethylbenzene	21	7.4	J	ug/m3	10	6/9/2018 1:20:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2018 5:18:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 5:18:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 5:18:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2018 5:18:00 PM
1,3,5-Trimethylbenzene	8.2	0.74	J	ug/m3	1	6/8/2018 5:18:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2018 5:18:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 5:18:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 5:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2018 5:18:00 PM
2,2,4-trimethylpentane	4.8	0.70	J	ug/m3	1	6/8/2018 5:18:00 PM
4-ethyltoluene	10	0.74	J	ug/m3	1	6/8/2018 5:18:00 PM
Acetone	4200	1200		ug/m3	1620	6/15/2018 1:18:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2018 5:18:00 PM
Benzene	16	4.8	J	ug/m3	10	6/9/2018 1:20:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2018 5:18:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2018 5:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2018 5:18:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2018 5:18:00 PM
Carbon disulfide	3.6	0.47		ug/m3	1	6/8/2018 5:18:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/8/2018 5:18:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2018 5:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2018 5:18:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2018 5:18:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2018 5:18:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 5:18:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 5:18:00 PM
Cyclohexane	5.0	0.52	J	ug/m3	1	6/8/2018 5:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2018 5:18:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2018 5:18:00 PM
Ethylbenzene	44	6.5	J	ug/m3	10	6/9/2018 1:20:00 AM
Freon 11	1.1	0.84		ug/m3	1	6/8/2018 5:18:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2018 5:18:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2018 5:18:00 PM

Qualifiers:

**	Quantitation Limit		Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

NW 8/7/18

2

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	SV-9DUP
Lab Order:	C1806020	**Tag Number:**	365,67
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	1.9	0.74		ug/m3	1	6/8/2018 5:18:00 PM
Heptane	130 J	25		ug/m3	40	6/9/2018 1:57:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2018 5:18:00 PM
Hexane	60	5.3		ug/m3	10	6/9/2018 1:20:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/8/2018 5:18:00 PM
m&p-Xylene	130 J	13		ug/m3	10	6/9/2018 1:20:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2018 5:18:00 PM
Methyl Ethyl Ketone	120	35		ug/m3	40	6/9/2018 1:57:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2018 5:18:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2018 5:18:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	6/8/2018 5:18:00 PM
o-Xylene	38 J	6.5		ug/m3	10	6/9/2018 1:20:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2018 5:18:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2018 5:18:00 PM
Tetrachloroethylene	33 J	10		ug/m3	10	6/9/2018 1:20:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2018 5:18:00 PM
Toluene	130 J	23		ug/m3	40	6/9/2018 1:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 5:18:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 5:18:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/8/2018 5:18:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2018 5:18:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2018 5:18:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/8/2018 5:18:00 PM

Qualifiers:

**	Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection

MW 8/7/18

3

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	SV-10
Lab Order:	C1806020	**Tag Number:**	189,172
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2018 6:01:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 6:01:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 6:01:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 6:01:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2018 6:01:00 PM
1,2,4-Trimethylbenzene	14	7.4	J	ug/m3	10	6/9/2018 2:34:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2018 6:01:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 6:01:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 6:01:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2018 6:01:00 PM
1,3,5-Trimethylbenzene	5.2	0.74	J	ug/m3	1	6/8/2018 6:01:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2018 6:01:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 6:01:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 6:01:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2018 6:01:00 PM
2,2,4-trimethylpentane	6.0	0.70	J	ug/m3	1	6/8/2018 6:01:00 PM
4-ethyltoluene	6.8	0.74		ug/m3	1	6/8/2018 6:01:00 PM
Acetone	11000	1700		ug/m3	2430	6/15/2018 1:55:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2018 6:01:00 PM
Benzene	5.7	0.48	J	ug/m3	1	6/8/2018 6:01:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2018 6:01:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2018 6:01:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2018 6:01:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2018 6:01:00 PM
Carbon disulfide	12	4.7	J	ug/m3	10	6/9/2018 2:34:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/8/2018 6:01:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2018 6:01:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2018 6:01:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2018 6:01:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2018 6:01:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 6:01:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 6:01:00 PM
Cyclohexane	5.3	0.52	J	ug/m3	1	6/8/2018 6:01:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2018 6:01:00 PM
Ethyl acetate	2.1	0.54	J	ug/m3	1	6/8/2018 6:01:00 PM
Ethylbenzene	26	6.5	J	ug/m3	10	6/9/2018 2:34:00 AM
Freon 11	< 0.84	0.84		ug/m3	1	6/8/2018 6:01:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2018 6:01:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2018 6:01:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

MW 8/13/18

3

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	SV-10
Lab Order:	C1806020	**Tag Number:**	189,172
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	0.94 J	0.74		ug/m3	1	6/8/2018 6:01:00 PM
Heptane	210 J	25		ug/m3	40	6/9/2018 3:11:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2018 6:01:00 PM
Hexane	20 J	5.3		ug/m3	10	6/9/2018 2:34:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/8/2018 6:01:00 PM
m&p-Xylene	78 J	13		ug/m3	10	6/9/2018 2:34:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2018 6:01:00 PM
Methyl Ethyl Ketone	640 J	35		ug/m3	40	6/9/2018 3:11:00 AM
Methyl Isobutyl Ketone	8.3	1.2		ug/m3	1	6/8/2018 6:01:00 PM
Methyl tert-butyl ether	0.50	0.54	✓	ug/m3	1	6/8/2018 6:01:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	6/8/2018 6:01:00 PM
o-Xylene	23 J	6.5		ug/m3	10	6/9/2018 2:34:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2018 6:01:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2018 6:01:00 PM
Tetrachloroethylene	19 J	10		ug/m3	10	6/9/2018 2:34:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2018 6:01:00 PM
Toluene	73 J	5.7		ug/m3	10	6/9/2018 2:34:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 6:01:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 6:01:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/8/2018 6:01:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2018 6:01:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2018 6:01:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/8/2018 6:01:00 PM

Qualifiers:

**	Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection

MW 8/7/18

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	AA-02
Lab Order:	C1806020	**Tag Number:**	131,262
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 6:43:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2018 6:43:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 6:43:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 6:43:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 6:43:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2018 6:43:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2018 6:43:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2018 6:43:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 6:43:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 6:43:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2018 6:43:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2018 6:43:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2018 6:43:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 6:43:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 6:43:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2018 6:43:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/8/2018 6:43:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2018 6:43:00 PM
Acetone	130	28		ug/m3	40	6/9/2018 4:26:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2018 6:43:00 PM
Benzene	< 0.48	0.48		ug/m3	1	6/8/2018 6:43:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2018 6:43:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2018 6:43:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2018 6:43:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2018 6:43:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2018 6:43:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/8/2018 6:43:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2018 6:43:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2018 6:43:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2018 6:43:00 PM
Chloromethane	0.64	0.31		ug/m3	1	6/8/2018 6:43:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 6:43:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 6:43:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/8/2018 6:43:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2018 6:43:00 PM
Ethyl acetate	0.40	0.54	J	ug/m3	1	6/8/2018 6:43:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/8/2018 6:43:00 PM
Freon 11	0.84	0.84		ug/m3	1	6/8/2018 6:43:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2018 6:43:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2018 6:43:00 PM

Qualifiers:

**	Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection

mw 8/7/18

4

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	AA-02
Lab Order:	C1806020	**Tag Number:**	131,262
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	1.8	0.74		ug/m3	1	6/8/2018 6:43:00 PM
Heptane	< 0.61	0.61		ug/m3	1	6/8/2018 6:43:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2018 6:43:00 PM
Hexane	0.39	0.53	J	ug/m3	1	6/8/2018 6:43:00 PM
Isopropyl alcohol	4.8	0.37		ug/m3	1	6/8/2018 6:43:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/8/2018 6:43:00 PM
Methyl Butyl Ketone	8.0 J	1.2		ug/m3	1	6/8/2018 6:43:00 PM
Methyl Ethyl Ketone	4.1	0.88		ug/m3	1	6/8/2018 6:43:00 PM
Methyl Isobutyl Ketone	0.53 J	1.2	✓	ug/m3	1	6/8/2018 6:43:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2018 6:43:00 PM
Methylene chloride	0.45	0.52	J	ug/m3	1	6/8/2018 6:43:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/8/2018 6:43:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2018 6:43:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2018 6:43:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2018 6:43:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2018 6:43:00 PM
Toluene	0.83 J	0.57		ug/m3	1	6/8/2018 6:43:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 6:43:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 6:43:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/8/2018 6:43:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2018 6:43:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2018 6:43:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/8/2018 6:43:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

MW 8/13/18

5

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	TripBlank
Lab Order:	C1806020	**Tag Number:**	237
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 3:54:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2018 3:54:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2018 3:54:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 3:54:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 3:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2018 3:54:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2018 3:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2018 3:54:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 3:54:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2018 3:54:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2018 3:54:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2018 3:54:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2018 3:54:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 3:54:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2018 3:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2018 3:54:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/8/2018 3:54:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2018 3:54:00 PM
Acetone	< 0.71	0.71		ug/m3	1	6/8/2018 3:54:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2018 3:54:00 PM
Benzene	< 0.48	0.48		ug/m3	1	6/8/2018 3:54:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2018 3:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2018 3:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2018 3:54:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2018 3:54:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2018 3:54:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	6/8/2018 3:54:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2018 3:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2018 3:54:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2018 3:54:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2018 3:54:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 3:54:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 3:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/8/2018 3:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2018 3:54:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2018 3:54:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/8/2018 3:54:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	6/8/2018 3:54:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2018 3:54:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2018 3:54:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

NW 8/7/18

5

Centek Laboratories, LLC

Date: *15-Jun-18*

CLIENT:	Envirospec Engineering	**Client Sample ID:**	TripBlank
Lab Order:	C1806020	**Tag Number:**	237
Project:	Green Island RI	**Collection Date:**	6/7/2018
Lab ID:	C1806020-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	6/8/2018 3:54:00 PM
Heptane	< 0.61	0.61		ug/m3	1	6/8/2018 3:54:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2018 3:54:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/8/2018 3:54:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/8/2018 3:54:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/8/2018 3:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2018 3:54:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	6/8/2018 3:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2018 3:54:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2018 3:54:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	6/8/2018 3:54:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	6/8/2018 3:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2018 3:54:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2018 3:54:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2018 3:54:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2018 3:54:00 PM
Toluene	< 0.57	0.57		ug/m3	1	6/8/2018 3:54:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2018 3:54:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2018 3:54:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	6/8/2018 3:54:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2018 3:54:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2018 3:54:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	6/8/2018 3:54:00 PM

Qualifiers:

**	Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Estimated Value above quantitation range
J	Analyte detected below quantitation limit
ND	Not Detected at the Limit of Detection

MW 8/7/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: L1822892
Laboratory: Alpha Analytical Laboratories, Westborough & Mansfield, Massachusetts
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client ID	Laboratory ID	Matrix
1	MW-29	L1822892-01	Water
1MS	MW-29MS	L1822892-01MS	Water
1MSD	MW-29MSD	L1822892-01MSD	Water
2	DUP	L1822892-02	Water
3	FIELD BLANK	L1822892-03	Water

A Data Usability Summary Review was performed on the analytical data for two water samples and one aqueous field blank sample collected on June 18, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under the EPA Method *"Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".*

Specific method references are as follows:

Analysis	*Method References*
PFCs	USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination

- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Compounds (PFCs)

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent recovery (%R) and/or correlation coefficient criteria were met.

Continuing Calibration

- The following table presents compounds that exceeded percent recovery (%R) criteria in the continuing calibrations (CCAL). A low %R may indicate a potential low bias while a high

%R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

CCAL Date	Compound	%R	Qualifier	Affected Samples
06/23/18 (0013)	PFHxS	150.3%	J	1, 2
	PFOS	162.8%	J	

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL and less than ten times (10x) the highest associated blank concentration (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WG1128226-1	PFOA	0.144	U	3
	PFOS	0.144	None	All Associated >10X or ND

Field QC Blank

- Field QC sample results are summarized in the table below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
FIELD BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- The following table presents surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Surrogate	%R	Qualifier
1	M2-6:2FTS	205%	None - Sample ND
	M8FOSA	39%	UJ - Associated Compound
	M2PFTEDA	30%	UJ - Associated Compound
2	M2-6:2FTS	249%	J - Associated Compound
	M8FOSA	30%	UJ - Associated Compound
	M2PFTEDA	47%	UJ - Associated Compound
3	M8FOSA	34%	None - Sample ND

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD percent recoveries (%R) and/or RPDs outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
1	8:2FTS	OK/151%/32	None - Sample ND

Laboratory Control Samples/Laboratory Control Sample Duplicates

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

PFCs				
Compound	MW-29 ng/L	DUP ng/L	RPD	Qualifier
PFBA	3.94	3.85	2%	None
PFPeA	5.51	6.53	17%	
PFBS	2.86	2.59	10%	
PFHxA	4.18	4.14	1%	
PFHpA	1.67	1.74	4%	
PFHxS	2.90	3.28	12%	
PFOA	3.29	3.94	18%	
6:2FTS	ND	0.841	NC	
PFNA	2.27	2.25	1%	
PFOS	2.36	2.03	15%	
NEtFOSAA	0.411	ND	NC	
PFTA	ND	0.404	NC	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/7/18

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Form 1
SemiVolatile Organics

Client	: Envirospec Engineering, PLLC	Lab Number	: L1822892
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1822892-01	Date Collected	: 06/18/18 10:00
Client ID	: MW-29	Date Received	: 06/18/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/22/18 21:27
Sample Matrix	: WATER	Date Extracted	: 06/21/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8147	Analyst	: AJ
Sample Amount	: 270 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	3.94	1.85	0.121	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	5.51	1.85	0.079	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	2.86	1.85	0.102	
307-24-4	Perfluorohexanoic Acid (PFHxA)	4.18	1.85	0.117	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.67	1.85	0.086	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	2.90 J	1.85	0.100	
335-67-1	Perfluorooctanoic Acid (PFOA)	3.29	1.85	0.047	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.85	0.180	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.85	0.144	U
375-95-1	Perfluorononanoic Acid (PFNA)	2.27	1.85	0.093	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	2.36 J	1.85	0.103	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.85	0.176	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.85	0.269	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.85	0.232	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.85	0.177	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.85	0.206	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	~~ND~~ UJ	1.85	0.210	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.411	1.85	0.345	J
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.85	0.085	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.85	0.084	U

MW 8/7/18

Form 1
SemiVolatile Organics

Client	: Envirospec Engineering, PLLC	Lab Number	: L1822892
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1822892-01	Date Collected	: 06/18/18 10:00
Client ID	: MW-29	Date Received	: 06/18/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/22/18 21:27
Sample Matrix	: WATER	Date Extracted	: 06/21/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8147	Analyst	: AJ
Sample Amount	: 270 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
376-06-7	Perfluorotetradecanoic Acid (PFTA)	~~ND~~ U J	1.85	0.067	U

MW 8/7/18

Form 1
SemiVolatile Organics

2

Client	: Envirospec Engineering, PLLC	Lab Number	: L1822892
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1822892-02	Date Collected	: 06/18/18 10:00
Client ID	: DUP	Date Received	: 06/18/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/22/18 22:17
Sample Matrix	: WATER	Date Extracted	: 06/21/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8150	Analyst	: AJ
Sample Amount	: 270 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	3.85	1.85	0.121	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	6.53	1.85	0.079	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	2.59	1.85	0.102	
307-24-4	Perfluorohexanoic Acid (PFHxA)	4.14	1.85	0.117	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.74	1.85	0.086	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	3.28 J	1.85	0.100	
335-67-1	Perfluorooctanoic Acid (PFOA)	3.94	1.85	0.047	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.841 J	1.85	0.180	J
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.85	0.144	U
375-95-1	Perfluorononanoic Acid (PFNA)	2.25	1.85	0.093	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	2.03 J	1.85	0.103	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.85	0.176	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.85	0.269	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.85	0.232	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.85	0.177	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.85	0.206	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	~~ND~~ UJ	1.85	0.210	UJ
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.85	0.345	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.85	0.085	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.85	0.084	U

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Form 1
SemiVolatile Organics

2

Client	: Envirospec Engineering, PLLC	Lab Number	: L1822892
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1822892-02	Date Collected	: 06/18/18 10:00
Client ID	: DUP	Date Received	: 06/18/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/22/18 22:17
Sample Matrix	: WATER	Date Extracted	: 06/21/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8150	Analyst	: AJ
Sample Amount	: 270 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
376-06-7	Perfluorotetradecanoic Acid (PFTA)	0.404 J	1.85	0.067	J

mw 8/7/18

Form 1
SemiVolatile Organics

3

Client	: Envirospec Engineering, PLLC	Lab Number	: L1822892
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1822892-03	Date Collected	: 06/18/18 10:00
Client ID	: FIELD BLANK	Date Received	: 06/18/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/22/18 18:58
Sample Matrix	: WATER	Date Extracted	: 06/21/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8138	Analyst	: AJ
Sample Amount	: 280 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.78	0.117	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.78	0.076	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.78	0.098	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.78	0.113	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.78	0.083	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.78	0.096	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.143	1.78	0.045	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.78	0.173	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.78	0.138	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.78	0.090	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.78	0.100	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.78	0.170	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.78	0.260	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.78	0.224	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.78	0.171	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.78	0.198	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.78	0.202	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.78	0.333	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.78	0.082	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.78	0.081	U

MW 8/7/18

Form 1
SemiVolatile Organics

3

Client	: Envirospec Engineering, PLLC	Lab Number	: L1822892
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1822892-03	Date Collected	: 06/18/18 10:00
Client ID	: FIELD BLANK	Date Received	: 06/18/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/22/18 18:58
Sample Matrix	: WATER	Date Extracted	: 06/21/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8138	Analyst	: AJ
Sample Amount	: 280 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.78	0.064	U

nw 8/7/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: L1823245
Laboratory: Alpha Analytical Laboratories, Westborough & Mansfield, Massachusetts
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client ID	Laboratory ID	Matrix
1	MW-30	L1823245-01	Water
2	MW-31	L1823245-02	Water

A Data Usability Summary Review was performed on the analytical data for two water samples collected on June 20, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The samples were analyzed under the EPA Method *"Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".*

Specific method references are as follows:

Analysis	*Method References*
PFCs	USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries

- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Compounds (PFCs)

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent recovery (%R) and/or correlation coefficient criteria were met.

Continuing Calibration

- The following table presents compounds that exceeded percent recovery (%R) criteria in the continuing calibrations (CCAL). A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

CCAL Date	Compound	%R	Qualifier	Affected Samples
06/25/18 (1231)	8:2FTS	175%	None	All ND
06/25/18 (1610)	d5-NEtFOSAA	158.3%	None	All ND

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL and less than ten times (10x) the highest associated blank concentration (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WG1128714-1	PFOA	0.184	U	1
	PFOS	0.164		
	PFDS	0.272	None	All ND

Field QC Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- The following table presents surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Surrogate	%R	Qualifier
1	M2-6:2FTS	158%	None - Sample ND
	M8FOSA	26%	UJ - Associated Compound
2	M2-6:2FTS	173%	J - Associated Compound
	M8FOSA	3%	UJ - Associated Compound

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples/Laboratory Control Sample Duplicates

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/7/18

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Form 1
SemiVolatile Organics

Client	: Envirospec Engineering, PLLC	Lab Number	: L1823245
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1823245-01	Date Collected	: 06/20/18 10:45
Client ID	: MW-30	Date Received	: 06/20/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/25/18 14:47
Sample Matrix	: WATER	Date Extracted	: 06/22/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8183	Analyst	: AJ
Sample Amount	: 260 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	1.46	1.92	0.126	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.31	1.92	0.082	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.515	1.92	0.106	J
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.05	1.92	0.122	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.92	0.089	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	0.385	1.92	0.103	J
335-67-1	Perfluorooctanoic Acid (PFOA)	0.300 U	1.92	0.049	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.92	0.186	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.92	0.149	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.165	1.92	0.097	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	0.258 U	1.92	0.107	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.92	0.183	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.92	0.280	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.92	0.241	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.92	0.184	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.92	0.214	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	~~ND~~ UJ	1.92	0.218	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.92	0.358	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.92	0.088	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.92	0.087	U

NW 8/7/18

Form 1
SemiVolatile Organics

Client	: Envirospec Engineering, PLLC	Lab Number	: L1823245
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1823245-01	Date Collected	: 06/20/18 10:45
Client ID	: MW-30	Date Received	: 06/20/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/25/18 14:47
Sample Matrix	: WATER	Date Extracted	: 06/22/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8183	Analyst	: AJ
Sample Amount	: 260 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.92	0.069	U

MW 8/7/18

Form 1
SemiVolatile Organics

2

Client	: Envirospec Engineering, PLLC	Lab Number	: L1823245
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1823245-02	Date Collected	: 06/20/18 12:02
Client ID	: MW-31	Date Received	: 06/20/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/25/18 15:03
Sample Matrix	: WATER	Date Extracted	: 06/22/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8184	Analyst	: AJ
Sample Amount	: 250 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	5.16	2.00	0.131	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	4.72	2.00	0.086	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	2.22	2.00	0.110	
307-24-4	Perfluorohexanoic Acid (PFHxA)	5.02	2.00	0.126	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.96	2.00	0.092	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	1.62	2.00	0.108	J
335-67-1	Perfluorooctanoic Acid (PFOA)	3.50	2.00	0.050	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	19.9 J	2.00	0.194	
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.00	0.155	U
375-95-1	Perfluorononanoic Acid (PFNA)	1.14	2.00	0.101	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	3.30	2.00	0.112	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.236	2.00	0.190	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.00	0.291	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	2.00	0.250	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.556	2.00	0.191	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.00	0.222	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	~~ND~~ UJ	2.00	0.227	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	2.00	0.373	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.00	0.092	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.00	0.090	U

MW 8/7/18

Form 1
SemiVolatile Organics

2

Client	: Envirospec Engineering, PLLC	Lab Number	: L1823245
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1823245-02	Date Collected	: 06/20/18 12:02
Client ID	: MW-31	Date Received	: 06/20/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/25/18 15:03
Sample Matrix	: WATER	Date Extracted	: 06/22/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8184	Analyst	: AJ
Sample Amount	: 250 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.00	0.072	U

8/7/18

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
GREEN ISLAND RI, GREEN ISLAND, NEW YORK

Client: Envirospec Engineering, LLC, Albany, New York
SDG: L1823426
Laboratory: Alpha Analytical Laboratories, Westborough & Mansfield, Massachusetts
Site: Green Island RI, Green Island, New York
Date: August 7, 2018

EDS ID	Client ID	Laboratory ID	Matrix
1	EQUIPMENT BLANK	L1823426-01	Water

A Data Usability Summary Review was performed on the analytical data for one aqueous equipment blank sample collected on June 21, 2018 by Envirospec Engineering at the Green Island Remedial Investigation site in Green Island, New York. The sample was analyzed under the EPA Method *"Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".*

Specific method references are as follows:

Analysis	*Method References*
PFCs	USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA National Functional Guidelines for Organic Data Review as follows:

- The USEPA "Contract Laboratories Program National Functional Guidelines for Organic Superfund Methods Data Review," January 2017;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Holding times and sample preservation
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Target Compound Identification

- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

Overall the data is acceptable for the intended purposes as qualified for the data quality indicator criteria as detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Compounds (PFCs)

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All percent recovery (%R) and/or correlation coefficient criteria were met.

Continuing Calibration

- The following table presents compounds that exceeded percent recovery (%R) criteria in the continuing calibrations (CCAL). A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

CCAL Date	Compound	%R	Qualifier	Affected Samples
06/26/18 (1015)	8:2FTS	175.3%	None	Sample ND
	PFDS	61.9%	UJ	1
	PFTrDA	68%	UJ	1
	M2-4:2FTS	168.7%	None	Sample ND
	MPFDOA	163.1%	None	Sample ND

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL and less than ten times (10x) the highest associated blank concentration (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
WG1129350-1	6:2FTS	0.276	U	1

Field QC Blank

- Field QC sample results are summarized in the table below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
EQUIPMENT BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- The following table presents surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

EDS Sample ID	Surrogate	%R	Qualifier
1	M2-6:2FTS	252%	None - Sample ND
	M8FOSA	32%	UJ - Associated Compound
	d5-NEtFOSAA	157%	None - Sample ND
	M2PFTEDA	161%	None - Sample ND

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples/Laboratory Control Sample Duplicates

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/7/18

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Form 1
SemiVolatile Organics

Client	: Envirospec Engineering, PLLC	Lab Number	: L1823426
Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1823426-01	Date Collected	: 06/21/18 08:30
Client ID	: EQUIPMENT BLANK	Date Received	: 06/21/18
Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/26/18 12:31
Sample Matrix	: WATER	Date Extracted	: 06/25/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8218	Analyst	: AJ
Sample Amount	: 270 ml	Instrument ID	: LCMS01
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.85	0.121	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.85	0.079	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.85	0.102	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.85	0.117	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.85	0.086	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.85	0.100	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.85	0.047	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.481 U	1.85	0.180	J
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.85	0.144	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.85	0.093	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.85	0.103	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.85	0.176	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.85	0.269	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.85	0.232	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.85	0.177	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND UJ	1.85	0.206	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND UJ	1.85	0.210	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.85	0.345	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.85	0.085	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND UJ	1.85	0.084	U

NW 8/7/18

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Project Name	: PFOA/PFAS SAMPLING	Project Number	:
Lab ID	: L1823426-01	Date Collected	: 06/21/18 08:30
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Sample Location	: GREEN ISLAND, NY	Date Analyzed	: 06/26/18 12:31
Sample Matrix	: WATER	Date Extracted	: 06/25/18
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8218	Analyst	: AJ
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Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.85	0.067	U

MW 8/7/18