QUARTERLY GROUNDWATER MONITORING REPORT

South Island Apartments Site

Starbuck Drive,

Town of Green Island, Albany County, New York

BCP Site # C401074

May 2021

Prepared for:
South Island Apartments, LLC
c/o Couch White, LLP
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Albany, New York 12201-2222

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Albany, NY 12205

Envirospec Engineering Project E17-1600

TABLE OF CONTENTS

TABLES

FIGURES

DRAWINGS

APPENDICES

1.0 INTRODUCTION

This Quarterly Groundwater Monitoring Report has been prepared by Envirospec Engineering, PLLC (Envirospec) on behalf of South Island Apartments, LLC (SIA) for the South Island Apartments (Site) located at Starbuck Drive in the Town of Green Island (and Village), Albany County, New York (see Figure 1).

SIA is submitting this Quarterly Groundwater Monitoring Report under the New York State Brownfield Cleanup Program (BCP) as a Volunteer in accordance with the requirements of the Interim Site Management Plan (SMP) for the site. The Site is being redeveloped as a mixed housing and commercial use consisting of apartments, retail, and recreation areas. The South Island Apartments site commenced work under the December 2019 Interim Site Management Plan (SMP) on January 7, 2020.

1.1 General Site Description

The site is located in Green Island, Albany County, New York and is identified as Section 33.09 Block 1 and Lots 3, 5, and 6 on the Village of Green Island 2019 Tax Map (see Appendix A). The site is an approximately 11.495-acre area and is bounded by the Troy/ Green Island Bridge to the north and the Hudson River to the south, east, and west (see Figure 1 – Site Layout Map). The boundaries of the site are more fully described in the Environmental Easement metes and bounds found in the Interim SMP.

2.0 SITE BACKGROUND AND REMEDIAL HISTORY

2.1 BACKGROUND

According to a 2008 Phase I Environmental Site Assessment (Shifrin 2008) conducted by Shifrin & Associates Inc. (Shifrin), the Site was operated as a petroleum terminal since 1918. Available historical maps show a terminal located on the property in 1925. Reportedly during its operation, the Site contained several aboveground storage tanks (ASTs), at least one (1) underground oil-water separator tanks, a truck loading rack, a barge dock, an office building, an electrical shed, storage sheds, earthen dikes, and internal roads. When in service, the terminal loaded and unloaded petroleum products that were transported to the Site by barge. Fuels stored at the former terminal included kerosene, diesel, gasoline, and No. 2 fuel oil. The terminal was not connected to a sewer line; wastewater was repeatedly discharged to a septic tank and leach field on-Site. According to the NYSDEC Spill Incidents Database, the Site has had thirteen (13) documented petroleum spills, with twelve (12) closed by the NYSDEC and one (1) spill (#8702376) remaining open.

According to the Supplemental Site Investigation in May 2016 conducted by SPEC Engineering (SPEC), the terminal was demolished sometime between 2008 and 2010 although the earthen dikes, at least one (1) underground oil-water separator, and a handful of small, vacant structures remained on the site. There were no other noted uses of this property.

Extensive investigation activities were undertaken at the Site during the Remedial Investigation (RI) in 2017 and 2018. Detailed results are available in the RI Report submitted to NYSDEC in November 2017 (Envirospec 2018a) and the RI Report Addendum submitted to NYSDEC in July 2018 (Envirospec 2018b).

2.2 INTERIM REMEDIAL MEASURES (IRM)

Based on the data obtained during the RI, it was determined that the following IRM activities would be completed at the site prior to initiating the activities addressed in the RAWP:

- Removal of underground oil-water separator;
- Excavation of SVOC-impacted soils that exceed Commercial Soil Cleanup Objectives (CSCOs) in shallow soils at SB-26 and SB-37;
- Excavation of LNAPL-impacted area in former loading rack and MW-5 areas.

The former loading rack area was excavated to an elevation of -3.5 to 3 feet, with sheet piling installed to elevation -25 ft along the western bank. The MW-5 area was benched back and excavated to elevation -3 to -3.5 ft. The depth of the bottom of the excavations were based on

historical observations of LNAPL in monitoring wells and visual observations in the field. The former loading rack excavation and MW-5 excavation remained open during oil extraction activities, which were completed from May 3, 2018 to June 25, 2018 and from May 14, 2018 to June 26, 2018, in the former loading rack and MW-5 areas, respectively.

A total of approximately 4,542 tons of non-hazardous soil were removed for off-site disposal during the IRM activities. A total of 77,717 gallons of oil/water mixture were extracted from the former loading rack and MW-5 areas, with approximately 39,170 gallons estimated to be oil. Further details on these activities can be found in the IRM Work Plan (Envirospec 2018) and the Construction Completion Report (Envirospec 2018c). The excavation of SB-37 was completed as a result of the RI Addendum completed in July 2018.

2.2 REMEDIAL ACTION WORKPLAN (RAWP)

The Remedial Action Work Plan (RAWP) was approved for the site in October 2018 (Envirospec 2018d) and is outlined in the Decision Document dated October 22, 2018 (NYSDEC 2018). The RAWP includes installation of an engineered cover system, consisting of building foundations, pavement, sidewalks, or 2’ of clean soil in open areas, across the site. The cover system along the banks consists of rip-rap and a block wall along the eastern bank and rip-rap and retaining walls along the western bank. Two (2) temporary monitoring wells were installed on the site to monitor for potential presence of remaining LNAPL for quarterly groundwater sampling during interim site management. The site entered interim site management on January 7, 2020.

3.0 GROUNDWATER SAMPLING – FEBRUARY 2021

The 1st quarter 2021 groundwater sampling event was completed on February 22, 2021. Well locations are shown in Drawing D-1. Gauging of both wells was completed prior to sampling to determine the static water level. An oil-water interface probe was used to determine if oil was present and, if so, the thickness of the oil. A summary of depths to oil and groundwater, oil layer thickness, and groundwater elevations is included as Table 1.

Table 1. Well Gauging Results.

Monitoring Well ID	Depth to Oil (ft bgs)	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft, AMSL)	Oil layer thickness (ft)
MW-32	-	27.51	+8.09	0[a]
MW-33	27.39	27.45	+9.15	0.06

[a] = no oil observed on probe

Wells were purged using a submersible pump, with water quality parameters (pH, dissolved oxygen, turbidity, ORP, conductivity, and temperature) monitored during purging.. Field sheets are provided in Appendix B. After purging, samples were collected using the submersible pump. A duplicate and MS/MSD samples were collected from MW-33 for laboratory and sampling quality assurance/ quality control purposes.

Purge water was collected and containerized in a 55-gallon drum and will be transported off-site for disposal at a regulated disposal facility.

Groundwater samples were placed in pre-cleaned laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to Pace Analytical Services in Greensburg, PA, which is a NYSDOH ELAP-certified lab. Samples were analyzed for the following:

- TCL SVOCs by EPA Method 8270
- Total TAL metals by EPA Method 6010 (EPA Method 7471 for mercury)
- Dissolved TAL metals by EPA Method 6010 (EPA Method 7471 for mercury)

4.0 GROUNDWATER QUALITY

A summary of the exceedances from this sampling round is included in Table 2 and in Appendix C. Full laboratory analytical results are included as Appendix D. Exceedances for iron, manganese, and sodium are not included in Table 2.

Table 2. Summary of Groundwater Exceedances.

Analyte	Part 703 Standard (ppb)	MW-32 (ppb)	MW-33 (ppb)	MW-33 DUP (ppb)
2,4-Dimethylphenol	1[a]	ND	5.3	ND
4-Chloroaniline	5	ND	8.3	ND

[a] = Standard is based on standard for total phenols

Low level exceedances were detected for 2,4-Dimethylphenol and 4-Chloroaniline in MW-33, which are not contaminants related to this site. There were no exceedances of contaminants of concern during this sampling round.

5.0 SUMMARY

No metals exceedances, with the exception of iron, sodium, and manganese, were observed in the wells. Low-level exceedances of 2,4-dimethylphenol and 4-Chloroaniline were observed in MW-33. However, these compounds are unrelated to the site. There were no exceedances of contaminants of concern during this sampling round.

Based on the fact that no exceedances of contaminants of concern have been observed in any of the quarterly sampling events, SIA is requesting that the requirement for quarterly groundwater sampling be removed from Interim Site Management.

6.0 REFERENCES

Envirospec. 2018. Interim Remedial Measures (IRM) Work Plan. South Island Apartments, BCP Site #C401074. March 2018.

Envirospec. 2018a. Remedial Investigation Report for South Island Apartments, BCP Site # C401074. August 2018.

Envirospec. 2018b. Remediation Investigation Report Addendum South Island Apartments Northern Parcel, BCP Site # C401074. August 2018.

Envirospec. 2018c. Interim Remedial Measures (IRM) Construction Completion Report (CCR) for South Island Apartments, BCP Site #C401074. October 2018.

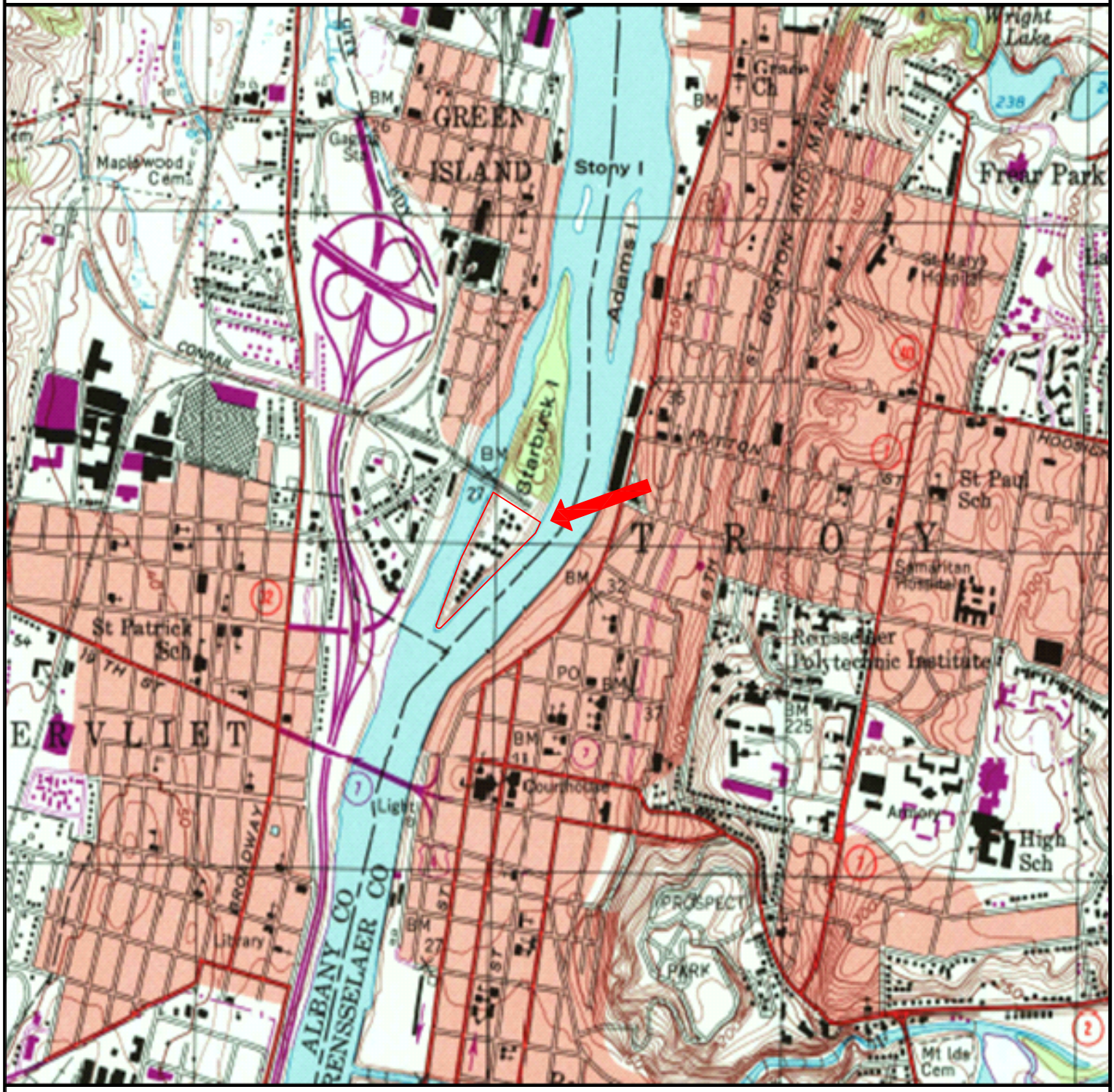
Envirospec. 2018d. Remedial Action Work Plan for South Island Apartments, BCP Site #C401074. October 2018.

NYSDEC. 2018. Decision Document. South Island Apartments, Brownfield Cleanup Program, Green Island, Albany County. Site No. C401074. October 2018.

Shifrin & Associates, Inc. 2008. Phase I Environmental Site Assessment for 1 Osgood Avenue, Green Island, New York 12183. June 3, 2008.

FIGURES

Figure 1 Site Location Map



APPROXIMATE SITE BOUNDARY

Scale: 1:1,000 ft

TITLE: FIGURE 1 – SITE LOCATION MAP

LOCATION: 1 STARBUCK DRIVE
GREEN ISLAND, NEW YORK

envirospec ENGINEERING, PLLC
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Albany, NY 12204
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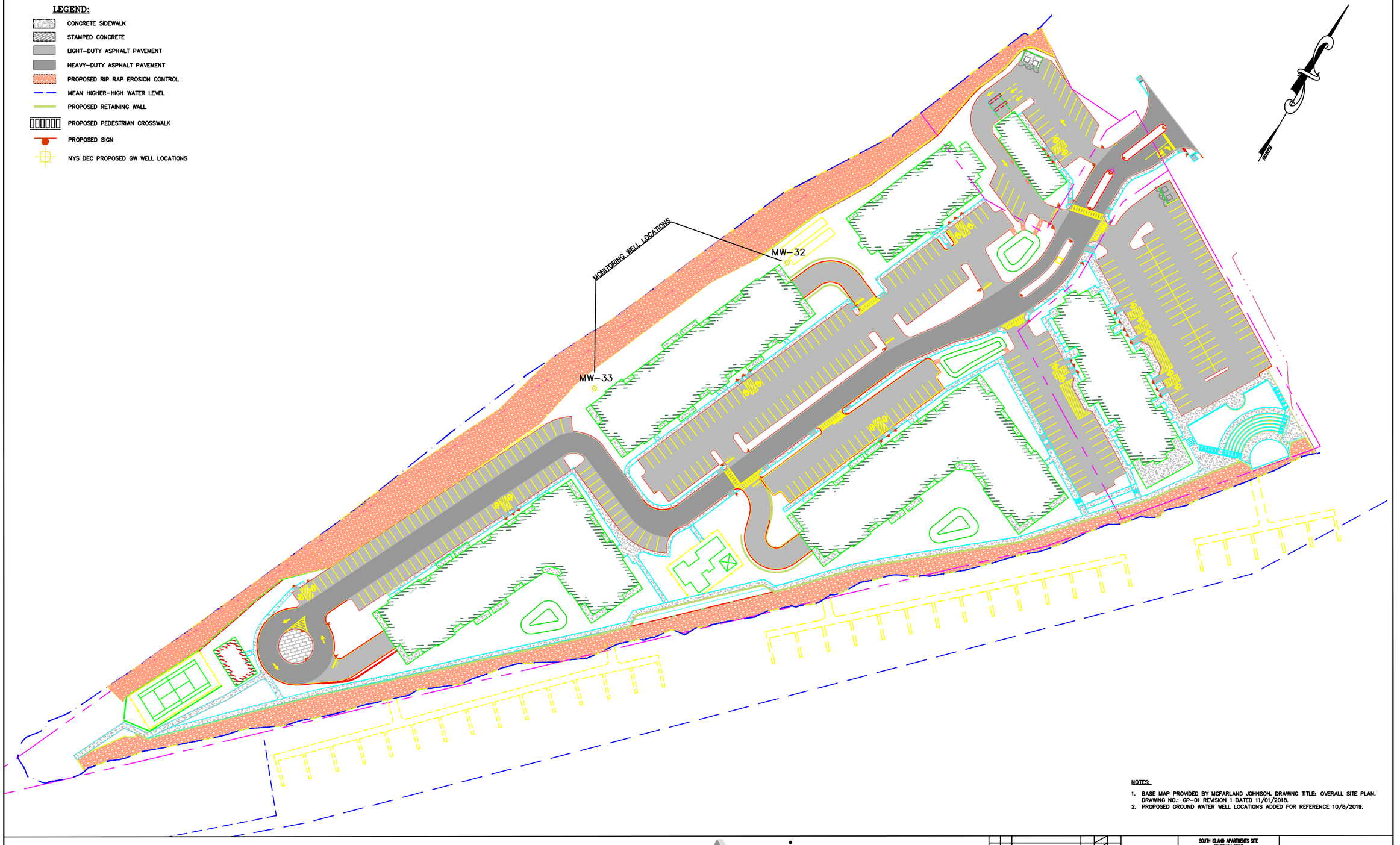
DRAWINGS

D-1 SITE PLAN

LEGEND:

- CONCRETE SIDEWALK
- STAMPED CONCRETE
- LIGHT-DUTY ASPHALT PAVEMENT
- HEAVY-DUTY ASPHALT PAVEMENT
- PROPOSED RIP RAP EROSION CONTROL
- MEAN HIGHER-HIGH WATER LEVEL
- PROPOSED RETAINING WALL
- PROPOSED PEDESTRIAN CROSSWALK
- PROPOSED SIGN
- NYS DEC PROPOSED GW WELL LOCATIONS



NOTES:

1. BASE MAP PROVIDED BY MCFARLAND JOHNSON, DRAWING TITLE: OVERALL SITE PLAN. DRAWING NO.: GP-01 REVISION 1 DATED 11/01/2018.
2. PROPOSED GROUND WATER WELL LOCATIONS ADDED FOR REFERENCE 10/8/2019.

ENVIROSPEC PROJECT #E17-1600

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349 NORTHERN BLVD. SUITE 3
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W.O. No.	REVISION	DATE	APR.
1	WELL LABELS ADDED	11/18	RF

DRAWING STATUS: FOR REFERENCE ONLY

SOUTH ISLAND APARTMENTS SITE
STARBUCK DRIVE
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

Well Locations

SCALE: NTS | DRAWING NO.: D-1 | SHEET: 1 | NO. OF SHEETS: 1

APPENDIX A
TAX MAP

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

THIS MAP PREPARED FOR ASSESSMENT PURPOSES ONLY AND NOT TO BE USED FOR THE CONVEYANCE OF PROPERTY

NYS PLANE COORDINATE SYSTEM NAD27

PREPARED BY
SMITH & MAHONEY, ENGINEERS & SURVEYORS
ALBANY, NEW YORK
PREPARED FOR
REAL PROPERTY TAX SERVICE AGENCY
ALBANY COUNTY, NEW YORK

DIGITAL CONVERSION BY:
THE SANBORN MAP COMPANY INC.
PELHAM, NEW YORK

REVISION TABLE

DATE	BY	CHANGES OR ADDITIONS	DATE	BY	CHANGES OR ADDITIONS
11-21-06	JKD	SUBD 1-2 INTO 2.1 & 2.2 PER LIBER 2362-807,2863-13			
4/22/19	JKD	CREATED PARCEL 1-5 PER R2019-4897 & PARCEL 1-6 PER R2019-4898; REVISED PARCEL 1-3 PER R2019-4899; DELETED PARCELS 1-1, 2.1,2.2 & 4 PER THE AFOREMENTIONED DEEDS & R2019-4895; NO MAP FILED AS OF APRIL 19, 2019.			

SPECIAL DISTRICTS

TYPE	SYMBOL	DISTRICT NAME	TYPE	SYMBOL	DISTRICT NAME
Fire	F		Water	W	

LEGEND

PROPERTY LINE
ORIGINAL LOT LINE
RAIL ROAD
STREAM OR DITCH
ROAD OR RAIL ROAD BNDY.
STREET CENTERLINE
COUNTY LINE
CITY LINE
VILLAGE LINE
TOWN LINE
BLOCK LIMIT
GREAT LOT LINE
EASEMENT LINE
WATER DISTRICT LINE
TAX DISTRICT LINE
FIRE DISTRICT LINE
DENOTES COMMON OWNER
TAX MAP BLOCK NO. (1)
TAX MAP PARCEL NO. 74.12-1-10
STREET NUMBER 14
FILED PLAN LOT NO. 17
GREAT LOT NO. (5)
CALCULATED ACREAGE 7.1 A (C)
DEED ACREAGE 11.2 A
SCALED DIMENSION 725'(S)
DEED DIMENSION 53.67'
VISUAL CENTER OF PARCEL ○

32.36	33.05	
32.44	X	

SHEET INDEX

TAX MAP
VILLAGE OF GREEN ISLAND
TOWN OF GREEN ISLAND
ALBANY COUNTY, NEW YORK

33.09

0 100 200
SCALE: 1"=100'

TAXABLE STATUS DATE: 3/1/2020

ISSUED BY RPTSA ON MONDAY, JUNE 3, 2019

APPENDIX B
GROUNDWATER SAMPLING LOGS

envirospec ENGINEERING, PLLC
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A Woman Owned Business Enterprise (WBE)

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	MW-32	
		Date(s):	2/22/2021	
		Weather	Temperature	
		Snow/wind	High:	33
			Low:	26

Well Sampling Field Record

Project:	South Island Apartments	Project No.	E17-1600
Location:	Starbuck Drive, Green Island, NY		

Well Info

Well #:	MW-32	Well Location:	North of Building 25		
Well Diameter (in):	2	Well Condition:	Good, well cap frozen		
A. Total Well Depth (ft bgs):	35.6	Depth to Bedrock (ft):			
B. TOC to Grade (ft):	0	TOC Elevation (ft):			
C. Depth to Water TOC (ft):	27.51	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	8.09	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	1.32	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	3.96	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	2/22/2021	Pump/Method:	Submersible
Purge Start Time:	14:15	Approx Flow Rate:	1.5 gpm
Purge Stop Time:	14:25	Approx Volume Removed:	~7.5 gallons
Did well dry out?	NO		

Sampling

Date:	2/22/2021		I	II	III	IV
Time:	14:30	pH:	7.18	7.12	7.12	7.12
Sample ID:	MW-32	Temp (ºC):	11.64	13.06	13.48	13.6
Sample Method:	Submersible	Conductivity (mS/cm):	1.32	1.27	1.26	1.26
		TDS (g/L):	-	-	-	-
		ORP (mV):	-68	-71	-74	-76
		Turbidity (NTU):	16.6	13.7	12	7.51
		DO (mg/L):	2.64	3.26	2.7	2.8
			(~1.5 gal)	*(~3 gal)*	*(~5 gal)*	*(~7 gal)*

Appearance

Oil measurement: N/A
*No oil observed on probe

Comments

envirospec ENGINEERING, PLLC	349 Northern Blvd Albany, NY 12204 Phone: 518.453.2203 Fax: 518.689.4800	Well No:	MW-33	
		Date(s):	2/22/2021	
		Weather	Temperature	
		Snow/wind	High:	33°F
			Low:	26°F

Well Sampling Field Record

Project:	South Island Apartments	Project No.	E17-1600
Location:	Starbuck Drive, Green Island, NY		

Well Info

Well #:	MW-33	Well Location:	South of Building 25		
Well Diameter (in):	2	Well Condition:	Good		
A. Total Well Depth (ft bgs):	36.6	Depth to Bedrock (ft):			
B. TOC to Grade (ft):	0	TOC Elevation (ft):			
C. Depth to Water TOC (ft):	27.45	G. Well Volume Factors:	1" = 0.041	5" = 1.02	9" = 3.31
D. Water Column Height (ft):	9.15	= (A + B) - C	2" = 0.163	6" = 1.47	10" = 4.08
E. Total Well Volume (gal):	1.49	= D*G	3" = 0.367	7" = 1.99	11" = 4.93
F. Purge (3 volumes) (gal):	4.47	= E*3	4" = 0.653	8" = 2.61	12" = 5.88

Purge

Purge Date:	2/22/2021	Pump/Method:	Submersible
Purge Start Time:	13:15	Approx Flow Rate:	1.5 gpm
Purge Stop Time:	13:30	Approx Volume Removed:	~9 gallons
Did well dry out?	NO		

Sampling

Date:	2/22/2021		I	II	III	IV
Time:	13:40	pH:	7.34	7.28	7.27	7.27
Sample ID:	MW-33, MS, MSD, DUP	Temp (ºC):	12.86	13.44	13.42	13.46
Sample Method:	Submersible Pump	Conductivity (mS/cm):	1.17	1.15	1.14	
		TDS (g/L):	-	-	-	
		ORP (mV):	-100	-100	-96	-90
		Turbidity (NTU):	626	20.7	10.95	7.22
		DO (mg/L):	2.63	4.00	2.78	2.84
			(~1.5 gal)	*(~3 gal)*	*(~5 gal)*	*(~9 gal)*

Appearance

Oil measurement: 27.39
Time of measurement: 12:45

Comments

DUP, MS/MSD collected at MW-33.

APPENDIX C
TABLE OF SAMPLE RESULTS

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204
A Woman Owned Business Enterprise (WBE)

TABLE 3. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-32 1/16/20	MW-32 5/11/20	MW-32 DUP 5/11/20	MW-32 8/7/20	MW- 32 DUP 10/22/20	MW 32 10/22/20	MW 32 2/22/21
Total Metals								
Aluminum		3360	556	544	148	2310	1950	281
Antimony	3	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	6.3	7.7	ND
Barium	1000	315	312	305	272	272	283	176
Beryllium		ND	ND	ND	ND	ND	ND	ND
Boron		602	514	512	438	402	426	309
Cadmium	5	ND	ND	ND	ND	ND	ND	ND
Calcium		230000	173000	169000	141000	142000	149000	142000
Chromium	50	7	ND	ND	ND	ND	ND	ND
Cobalt		ND	ND	ND	ND	ND	ND	ND
Copper	200	11.5	ND	ND	ND	ND	ND	ND
Iron	300	28500	23600	24000	19200	23800	24100	18300
Lead	25	11.3	ND	ND	ND	ND	5.3	ND
Magnesium		25400	26000	25400	21100	22600	23500	16600
Manganese	300	4810	6060	5930	4910	4880	5140	2400
Molybdenum		ND	ND	ND	ND	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND
Nickel	100	ND	ND	ND	ND	ND	ND	ND
Potassium		10400	9740	9470	8740	8700	9100	12900
Selenium	10	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND
Sodium	20000	21800	20500	20000	19600	18300	19300	37700
Thallium		ND	ND	ND	ND	ND	ND	ND
Vanadium		ND	ND	ND	ND	ND	ND	ND
Zinc		24.3	ND	ND	ND	13.3	12.6	ND
Dissolved Metals								
Aluminum, Dissolved		ND	ND	ND	ND	ND	ND	ND
Antimony, Dissolved	3	ND	ND	ND	ND	ND	ND	ND
Arsenic, Dissolved	25	ND	ND	ND	ND	ND	ND	ND
Barium, Dissolved	1000	215	205	193	216	219	216	124
Beryllium, Dissolved		ND	ND	ND	ND	ND	ND	ND
Boron, Dissolved		609	456	479	446	432	430	317
Cadmium, Dissolved	5	ND	ND	ND	ND	ND	ND	ND
Calcium, Dissolved		165000	157000	150000	146000	147000	145000	143000
Chromium, Dissolved	50	ND	ND	ND	ND	ND	ND	ND
Cobalt, Dissolved		ND	ND	ND	ND	ND	ND	ND
Copper, Dissolved	200	ND	ND	ND	ND	ND	ND	ND
Iron, Dissolved	300	546	1350	1200	1220	1890	1500	2150
Lead, Dissolved	25	ND	ND	ND	ND	ND	ND	ND
Magnesium, Dissolved		24600	23600	22500	22100	22700	22200	17100
Manganese, Dissolved	300	4800	5500	5220	4990	4940	4890	2390
Molybdenum, Dissolved		ND	ND	ND	ND	ND	ND	ND
Mercury, Dissolved	0.7	ND	ND	ND	ND	ND	ND	ND
Nickel, Dissolved	100	ND	ND	ND	ND	ND	ND	ND
Potassium, Dissolved		9780	8790	8540	8910	8810	8660	13100
Selenium, Dissolved	10	ND	ND	ND	ND	ND	ND	ND
Silver, Dissolved	50	ND	ND	ND	ND	ND	ND	ND
Sodium, Dissolved	20000	21900	19000	18200	19900	19000	19000	39000
Thallium, Dissolved		ND	ND	ND	ND	ND	ND	ND
Vanadium, Dissolved		ND	ND	ND	ND	ND	ND	ND
Zinc, Dissolved		ND	ND	ND	ND	ND	ND	14.6

(1) Based on total phenols standard
(2) All results in ppb.
(3) Exceedances of Part 703 Groundwater A Standard in RED

Table 3. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-32 1/16/20	MW-32 5/11/20	MW-32 DUP 5/11/20	MW-32 8/7/20	MW- 32 DUP 10/22/20	MW 32 10/22/20	MW 32 10/22/20	MW 32 2/22/21
SVOCs									
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene		8.2	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	2.3	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol(o-Cresol)		ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)		ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether		ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	2.3	ND
4-Chlorophenylphenyl ether		ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		2.6	ND	ND	ND	ND	ND	1.4	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		1.4	ND	ND	ND	ND	ND	ND	ND
Azobenzene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid		ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol		ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether	1	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl) ether	5	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	5	1.1	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate		ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		1.2	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	50	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		4.1	ND	ND	ND	ND	ND	2.4	ND
Hexachloro-1,3-butadiene		ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	1.3	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		3.7	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		3.6	ND	ND	ND	ND	ND	ND	ND
Phenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	ND	ND	ND	ND	ND	ND	ND

(1) Based on total phenols standard
(2) All results in ppb.
(3) Exceedances of Part 703 Groundwater A Standard in RED

TABLE 3. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-33 1/16/20	MW-33 DUP 1/16/20	MW-33 5/11/20	MW-33 8/7/20	MW-33 DUP 8/7/20	MW-33 10/22/20	MW-33 2/22/21	MW-33 DUP 2/22/21
Total Metals									
Aluminum		5980	5290	18400	1650	695	532	171	281
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	7.4	ND	8.8	ND	ND	ND	ND	ND
Barium	1000	269	269	252	196	209	178	174	176
Beryllium		ND	ND	ND	ND	ND	ND	ND	ND
Boron		464	466	383	348	349	295	314	309
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND
Calcium		167000	231000	189000	150000	158000	141000	142000	142000
Chromium	50	9.5	9	24.5	ND	ND	ND	ND	ND
Cobalt		ND	ND	10.9	ND	ND	ND	ND	ND
Copper	200	16.1	16.1	44.2	ND	ND	ND	ND	ND
Iron	300	24500	23300	44000	19200	18700	18500	18100	18300
Lead	25	19.8	16.9	59.2	9.0	ND	ND	ND	ND
Magnesium		27400	27300	26100	18100	18700	17500	16800	16600
Manganese	300	2140	2150	2130	2220	2450	2360	2410	2400
Molybdenum		ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	ND	ND	27.7	ND	ND	ND	ND	ND
Potassium		28700	28900	24500	16100	16500	13400	12900	12900
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20000	152000	153000	115000	58800	59100	42900	37800	37700
Thallium		ND	ND	ND	ND	ND	ND	ND	ND
Vanadium		9.8	9	33.9	ND	ND	ND	ND	ND
Zinc		32.1	27.8	104	12.1	ND	ND	ND	ND
Dissolved Metals									
Aluminum, Dissolved		ND	ND	ND	ND	ND	119	ND	ND
Antimony, Dissolved	3	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, Dissolved	25	ND	ND	ND	ND	ND	ND	ND	ND
Barium, Dissolved	1000	148	156	115	135	140	124	115	124
Beryllium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND
Boron, Dissolved		472	472	375	346	348	318	318	317
Cadmium, Dissolved	5	ND	ND	ND	ND	ND	ND	ND	ND
Calcium, Dissolved		229000	233000	181000	152000	158000	148000	139000	143000
Chromium, Dissolved	50	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND
Copper, Dissolved	200	ND	ND	7.2	ND	ND	ND	ND	ND
Iron, Dissolved	300	321	ND	258	989	1140	1470	1660	2150
Lead, Dissolved	25	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium, Dissolved		25700	26000	19900	18400	18800	18100	16700	17100
Manganese, Dissolved	300	1780	2010	1780	2350	2300	2380	2320	2390
Molybdenum, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND
Mercury, Dissolved	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, Dissolved	100	ND	ND	ND	ND	ND	ND	ND	ND
Potassium, Dissolved		28300	28800	21800	15700	16900	14300	13200	13100
Selenium, Dissolved	10	ND	ND	ND	ND	ND	ND	ND	ND
Silver, Dissolved	50	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, Dissolved	20000	156000	157000	113000	57300	62000	46100	38100	39000
Thallium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND
Vanadium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND
Zinc, Dissolved		ND	ND	ND	ND	ND	ND	ND	14.6

(1) Based on total phenols standard
(2) All results in ppb.
(3) Exceedances of Part 703 Groundwater A Standard in RED

TABLE 3. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-33 1/16/20	MW-33 DUP 1/16/20	MW-33 5/11/20	MW-33 8/7/20	MW-33 DUP 8/7/20	MW-33 10/22/20	MW-33 2/22/21	MW-33 DUP 2/22/21
SVOCs									
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene		ND	1.1	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol		ND	4.6	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol **(1)**	1	ND	2.7	34.2	ND	ND	ND	5.3	ND
2,4-Dinitrophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	1.7	ND	50.4	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	11.8	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol(o-Cresol)		ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)		ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	35.8	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether		ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	2.2	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	1.9	16.5	ND	ND	ND	8.3	2.3
4-Chlorophenylphenyl ether		ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	35.8	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		2.7	ND	ND	ND	21.0	14.3	4.6	1.4
Acenaphthylene		ND	12.7	22.1	ND	ND	ND	ND	ND
Anthracene		ND	12.8	88.3	ND	13.5	11.5	5.3	ND
Azobenzene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid		ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol		ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether	1	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl) ether	5	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	5	2.4	1.9	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate		ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	1.7	15.5	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		2.0	7.6	ND	ND	15.0	10.9	3.3	ND
Diethylphthalate		ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate		ND	ND	20	ND	ND	ND	ND	ND
Di-n-butylphthalate	50	ND	ND	ND	ND	ND	ND	1.2	ND
Di-n-octylphthalate		ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	1.9	ND	ND	ND	ND	2.0	ND
Fluorene		4.2	5.5	ND	ND	36.4	28.6	11.8	2.4
Hexachloro-1,3-butadiene		ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	4.0	ND
Naphthalene		ND	1.7	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	3.2	31.4	ND	ND	ND	ND	ND
N-Nitrosodimethylamine		ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		2.1	4.6	95.6	ND	ND	ND	38.6	ND
Pentachlorophenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		3.6	ND	ND	ND	20.8	15.9	4.8	ND
Phenol **(1)**	1	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		ND	3.9	ND	ND	15.8	12.5	6.9	ND

(1) Based on total phenols standard

(2) All results in ppb.

(3) Exceedances of Part 703 Groundwater A Standard in RED

APPENDIX D
LABORATORY ANALYTICAL RESULTS

envirospec ENGINEERING, PLLC

349 Northern Boulevard Suite 3▪ Albany, NY 12204 ▪ Phone: 518.453.2203 ▪ Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

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

March 05, 2021

Ms. Rachel Farnum
Envirospec Engineering
349 Northern Blvd #3
Albany, NY 12204

RE: Project: Green Island
Pace Project No.: 30407305

Dear Ms. Farnum:

Enclosed are the analytical results for sample(s) received by the laboratory on February 24, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Mr. Adam Schultz, Couch White

Pace Analytical Services, LLC
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(724)850-5600

CERTIFICATIONS

Project: Green Island
Pace Project No.: 30407305

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
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(724)850-5600

SAMPLE SUMMARY

Project: Green Island
Pace Project No.: 30407305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30407305001	**MW-33**	Water	02/22/21 13:40	02/24/21 11:30
30407305002	**DUP**	Water	02/22/21 13:40	02/24/21 11:30
30407305005	**MW-32**	Water	02/22/21 14:30	02/24/21 11:30

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SAMPLE ANALYTE COUNT

Project: Green Island
Pace Project No.: 30407305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30407305001	**MW-33**	EPA 6010C	CTS	24	PASI-PA
		EPA 6010C	CTS	24	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 8270D	EAC	75	PASI-PA
30407305002	**DUP**	EPA 6010C	CTS	24	PASI-PA
		EPA 6010C	CTS	24	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 8270D	EAC	75	PASI-PA
30407305005	**MW-32**	EPA 6010C	CTS	24	PASI-PA
		EPA 6010C	CTS	24	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 8270D	EAC	75	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
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(724)850-5600

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: March 05, 2021

General Information:
3 samples were analyzed for EPA 6010C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 436401

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30407305001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 2106400)
  - Aluminum
  - Calcium
  - Potassium
  - Sodium
- MSD (Lab ID: 2106401)
  - Aluminum
  - Calcium
  - Iron
  - Potassium
  - Sodium

R1: RPD value was outside control limits.

- MSD (Lab ID: 2106401)
  - Aluminum

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: March 05, 2021

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 436401

3c: The PDS recovery was outside of the laboratory control limits. Result may be biased low.

- MW-33 (Lab ID: 30407305001)
  - Calcium

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 6010C**
Description: 6010C MET ICP, Lab Filtered
Client: Envirospec Engineering
Date: March 05, 2021

General Information:
3 samples were analyzed for EPA 6010C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 436862

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30407305001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 2108579)
  - Calcium, Dissolved
  - Manganese, Dissolved
  - Sodium, Dissolved
- MSD (Lab ID: 2108580)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
  - Potassium, Dissolved
  - Sodium, Dissolved

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
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Greensburg, PA 15601
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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Envirospec Engineering
Date: March 05, 2021

General Information:
3 samples were analyzed for EPA 7470A by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 436872

2c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- MW-33 (Lab ID: 30407305001)
  - Mercury

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 7470A**
Description: 7470 Mercury, Lab Filtered
Client: Envirospec Engineering
Date: March 05, 2021

General Information:
3 samples were analyzed for EPA 7470A by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 436873

2c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- MW-33 (Lab ID: 30407305001)
  - Mercury, Dissolved

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Envirospec Engineering
Date: March 05, 2021

General Information:
3 samples were analyzed for EPA 8270D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 436607

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30407305001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 2107745)
  - 2,4-Dinitrotoluene
  - Butylbenzylphthalate
  - Naphthalene
  - bis(2-Ethylhexyl)phthalate
- MSD (Lab ID: 2107746)
  - 2,4-Dinitrotoluene
  - Butylbenzylphthalate
  - Hexachlorocyclopentadiene

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Envirospec Engineering
Date: March 05, 2021

QC Batch: 436607

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30407305001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- Naphthalene
- Nitrobenzene
- bis(2-Ethylhexyl)phthalate

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2107745)
  - 2,4-Dinitrophenol
  - 3,3'-Dichlorobenzidine
  - 4,6-Dinitro-2-methylphenol
  - 4-Nitrophenol
- MSD (Lab ID: 2107746)
  - 2,4-Dinitrophenol
  - 3,3'-Dichlorobenzidine
  - 4,6-Dinitro-2-methylphenol
  - 4-Nitrophenol

R1: RPD value was outside control limits.

- MSD (Lab ID: 2107746)
  - 3-Nitroaniline

Additional Comments:

Analyte Comments:

QC Batch: 436607

1c: Sample processed by low volume extraction. The entire 1L container was not processed.

- DUP (Lab ID: 30407305002)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichlorobenzene
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 1-Methylnaphthalene
  - 2,4,6-Trichlorophenol
  - 2,4-Dichlorophenol
  - 2,4-Dimethylphenol
  - 2,4-Dinitrophenol
  - 2,4-Dinitrotoluene
  - 2,4,5-Trichlorophenol
  - 2,6-Dinitrotoluene
  - 2-Chloronaphthalene
  - 2-Chlorophenol
  - 2-Methylphenol(o-Cresol)
  - 2-Methylnaphthalene
  - 2-Nitroaniline
  - 2-Nitrophenol

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Envirospec Engineering
Date: March 05, 2021

Analyte Comments:

QC Batch: 436607

1c: Sample processed by low volume extraction. The entire 1L container was not processed.

- DUP (Lab ID: 30407305002)
  - 3,3'-Dichlorobenzidine
  - 3&4-Methylphenol(m&p Cresol)
  - 3-Nitroaniline
  - 4,6-Dinitro-2-methylphenol
  - 4-Bromophenylphenyl ether
  - 4-Chloro-3-methylphenol
  - 4-Chloroaniline
  - 4-Chlorophenylphenyl ether
  - 4-Nitroaniline
  - 4-Nitrophenol
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Azobenzene
  - Butylbenzylphthalate
  - Benzoic acid
  - Benzyl alcohol
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - bis(2-Chloroethoxy)methane
  - bis(2-Chloroethyl) ether
  - bis(2-Chloroisopropyl) ether
  - bis(2-Ethylhexyl)phthalate
  - Carbazole
  - Chrysene
  - Dibenz(a,h)anthracene
  - Dibenzofuran
  - Dimethylphthalate
  - Di-n-butylphthalate
  - Di-n-octylphthalate
  - Diethylphthalate
  - Fluorene
  - Fluoranthene
  - Hexachloro-1,3-butadiene
  - Hexachlorobenzene
  - Hexachlorocyclopentadiene
  - Hexachloroethane
  - Indeno(1,2,3-cd)pyrene
  - Isophorone

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Envirospec Engineering
Date: March 05, 2021

Analyte Comments:

QC Batch: 436607

1c: Sample processed by low volume extraction. The entire 1L container was not processed.

- DUP (Lab ID: 30407305002)
  - Naphthalene
  - N-Nitroso-di-n-propylamine
  - Nitrobenzene
  - N-Nitrosodimethylamine
  - N-Nitrosodiphenylamine
  - Phenol
  - Phenanthrene
  - Pentachlorophenol
  - Pyrene
- MW-32 (Lab ID: 30407305005)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichlorobenzene
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 1-Methylnaphthalene
  - 2,4,6-Trichlorophenol
  - 2,4-Dichlorophenol
  - 2,4-Dimethylphenol
  - 2,4-Dinitrophenol
  - 2,4-Dinitrotoluene
  - 2,4,5-Trichlorophenol
  - 2,6-Dinitrotoluene
  - 2-Chloronaphthalene
  - 2-Chlorophenol
  - 2-Methylphenol(o-Cresol)
  - 2-Methylnaphthalene
  - 2-Nitroaniline
  - 2-Nitrophenol
  - 3,3'-Dichlorobenzidine
  - 3&4-Methylphenol(m&p Cresol)
  - 3-Nitroaniline
  - 4,6-Dinitro-2-methylphenol
  - 4-Bromophenylphenyl ether
  - 4-Chloro-3-methylphenol
  - 4-Chloroaniline
  - 4-Chlorophenylphenyl ether
  - 4-Nitroaniline
  - 4-Nitrophenol
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Azobenzene

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Envirospec Engineering
Date: March 05, 2021

Analyte Comments:

QC Batch: 436607

1c: Sample processed by low volume extraction. The entire 1L container was not processed.

- MW-32 (Lab ID: 30407305005)
  - Butylbenzylphthalate
  - Benzoic acid
  - Benzyl alcohol
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - bis(2-Chloroethoxy)methane
  - bis(2-Chloroethyl) ether
  - bis(2-Chloroisopropyl) ether
  - bis(2-Ethylhexyl)phthalate
  - Carbazole
  - Chrysene
  - Dibenz(a,h)anthracene
  - Dibenzofuran
  - Dimethylphthalate
  - Di-n-butylphthalate
  - Di-n-octylphthalate
  - Diethylphthalate
  - Fluorene
  - Fluoranthene
  - Hexachloro-1,3-butadiene
  - Hexachlorobenzene
  - Hexachlorocyclopentadiene
  - Hexachloroethane
  - Indeno(1,2,3-cd)pyrene
  - Isophorone
  - Naphthalene
  - N-Nitroso-di-n-propylamine
  - Nitrobenzene
  - N-Nitrosodimethylamine
  - N-Nitrosodiphenylamine
  - Phenol
  - Phenanthrene
  - Pentachlorophenol
  - Pyrene
- MW-33 (Lab ID: 30407305001)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichlorobenzene
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Envirospec Engineering
Date: March 05, 2021

Analyte Comments:

QC Batch: 436607

1c: Sample processed by low volume extraction. The entire 1L container was not processed.

- MW-33 (Lab ID: 30407305001)
  - 1-Methylnaphthalene
  - 2,4,6-Trichlorophenol
  - 2,4-Dichlorophenol
  - 2,4-Dimethylphenol
  - 2,4-Dinitrophenol
  - 2,4-Dinitrotoluene
  - 2,4,5-Trichlorophenol
  - 2,6-Dinitrotoluene
  - 2-Chloronaphthalene
  - 2-Chlorophenol
  - 2-Methylphenol(o-Cresol)
  - 2-Methylnaphthalene
  - 2-Nitroaniline
  - 2-Nitrophenol
  - 3,3'-Dichlorobenzidine
  - 3&4-Methylphenol(m&p Cresol)
  - 3-Nitroaniline
  - 4,6-Dinitro-2-methylphenol
  - 4-Bromophenylphenyl ether
  - 4-Chloro-3-methylphenol
  - 4-Chloroaniline
  - 4-Chlorophenylphenyl ether
  - 4-Nitroaniline
  - 4-Nitrophenol
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Azobenzene
  - Butylbenzylphthalate
  - Benzoic acid
  - Benzyl alcohol
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - bis(2-Chloroethoxy)methane
  - bis(2-Chloroethyl) ether
  - bis(2-Chloroisopropyl) ether
  - bis(2-Ethylhexyl)phthalate
  - Carbazole
  - Chrysene

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PROJECT NARRATIVE

Project: Green Island
Pace Project No.: 30407305

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Envirospec Engineering
Date: March 05, 2021

Analyte Comments:

QC Batch: 436607

1c: Sample processed by low volume extraction. The entire 1L container was not processed.

- MW-33 (Lab ID: 30407305001)
  - Dibenz(a,h)anthracene
  - Dibenzofuran
  - Dimethylphthalate
  - Di-n-butylphthalate
  - Di-n-octylphthalate
  - Diethylphthalate
  - Fluorene
  - Fluoranthene
  - Hexachloro-1,3-butadiene
  - Hexachlorobenzene
  - Hexachlorocyclopentadiene
  - Hexachloroethane
  - Indeno(1,2,3-cd)pyrene
  - Isophorone
  - Naphthalene
  - N-Nitroso-di-n-propylamine
  - Nitrobenzene
  - N-Nitrosodimethylamine
  - N-Nitrosodiphenylamine
  - Phenol
  - Phenanthrene
  - Pentachlorophenol
  - Pyrene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-33 **Lab ID: 30407305001** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 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 Pace Analytical Services - Greensburg								
Aluminum	**171**	ug/L	50.0	20.3	1	02/25/21 15:42	03/03/21 07:40	7429-90-5	MH,R1
Antimony	ND	ug/L	6.0	3.3	1	02/25/21 15:42	03/03/21 07:40	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	02/25/21 15:42	03/03/21 07:40	7440-38-2	
Barium	**174**	ug/L	10.0	0.68	1	02/25/21 15:42	03/03/21 07:40	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	02/25/21 15:42	03/03/21 07:40	7440-41-7	
Boron	**314**	ug/L	50.0	2.3	1	02/25/21 15:42	03/03/21 07:40	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	02/25/21 15:42	03/03/21 07:40	7440-43-9	
Calcium	**142000**	ug/L	1000	99.9	1	02/25/21 15:42	03/03/21 07:40	7440-70-2	3c,MH
Chromium	ND	ug/L	5.0	0.35	1	02/25/21 15:42	03/03/21 07:40	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	02/25/21 15:42	03/03/21 07:40	7440-48-4	
Copper	ND	ug/L	5.0	2.7	1	02/25/21 15:42	03/03/21 07:40	7440-50-8	
Iron	**18100**	ug/L	70.0	40.9	1	02/25/21 15:42	03/03/21 07:40	7439-89-6	MH
Lead	ND	ug/L	5.0	4.9	1	02/25/21 15:42	03/03/21 07:40	7439-92-1	
Magnesium	**16800**	ug/L	200	28.4	1	02/25/21 15:42	03/03/21 07:40	7439-95-4	
Manganese	**2410**	ug/L	5.0	1.2	1	02/25/21 15:42	03/03/21 07:40	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	02/25/21 15:42	03/03/21 07:40	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	02/25/21 15:42	03/03/21 07:40	7440-02-0	
Potassium	**12900**	ug/L	500	72.4	1	02/25/21 15:42	03/03/21 07:40	7440-09-7	MH
Selenium	ND	ug/L	8.0	5.5	1	02/25/21 15:42	03/03/21 07:40	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	02/25/21 15:42	03/03/21 07:40	7440-22-4	
Sodium	**37800**	ug/L	1000	423	1	02/25/21 15:42	03/03/21 07:40	7440-23-5	MH
Thallium	ND	ug/L	10.0	4.0	1	02/25/21 15:42	03/03/21 07:40	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	02/25/21 15:42	03/03/21 07:40	7440-62-2	
Zinc	ND	ug/L	10.0	2.4	1	02/25/21 15:42	03/03/21 07:40	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum, Dissolved	ND	ug/L	50.0	20.3	1	03/02/21 12:01	03/03/21 07:10	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	03/02/21 12:01	03/03/21 07:10	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	03/02/21 12:01	03/03/21 07:10	7440-38-2	
Barium, Dissolved	**115**	ug/L	10.0	0.68	1	03/02/21 12:01	03/03/21 07:10	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	03/02/21 12:01	03/03/21 07:10	7440-41-7	
Boron, Dissolved	**318**	ug/L	50.0	2.3	1	03/02/21 12:01	03/03/21 07:10	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	03/02/21 12:01	03/03/21 07:10	7440-43-9	
Calcium, Dissolved	**139000**	ug/L	1000	99.9	1	03/02/21 12:01	03/03/21 07:10	7440-70-2	MH
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	03/02/21 12:01	03/03/21 07:10	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	03/02/21 12:01	03/03/21 07:10	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	03/02/21 12:01	03/03/21 07:10	7440-50-8	
Iron, Dissolved	**1660**	ug/L	70.0	40.9	1	03/02/21 12:01	03/03/21 07:10	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	03/02/21 12:01	03/03/21 07:10	7439-92-1	
Magnesium, Dissolved	**16700**	ug/L	200	28.4	1	03/02/21 12:01	03/03/21 07:10	7439-95-4	MH
Manganese, Dissolved	**2320**	ug/L	5.0	1.2	1	03/02/21 12:01	03/03/21 07:10	7439-96-5	MH
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	03/02/21 12:01	03/03/21 07:10	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	03/02/21 12:01	03/03/21 07:10	7440-02-0	
Potassium, Dissolved	**13200**	ug/L	500	72.4	1	03/02/21 12:01	03/03/21 07:10	7440-09-7	MH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-33 **Lab ID: 30407305001** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 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 Pace Analytical Services - Greensburg								
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	03/02/21 12:01	03/03/21 07:10	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	03/02/21 12:01	03/03/21 07:10	7440-22-4	
Sodium, Dissolved	**38100**	ug/L	1000	423	1	03/02/21 12:01	03/03/21 07:10	7440-23-5	MH
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	03/02/21 12:01	03/03/21 07:10	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	03/02/21 12:01	03/03/21 07:10	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	03/02/21 12:01	03/03/21 07:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury	ND	ug/L	0.20	0.030	1	03/02/21 14:05	03/02/21 19:11	7439-97-6	2c
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	03/02/21 14:10	03/02/21 19:38	7439-97-6	2c
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**4.6**	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 20:01	83-32-9	1c
Acenaphthylene	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 20:01	208-96-8	1c
Anthracene	**5.3**	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 20:01	120-12-7	1c
Azobenzene	ND	ug/L	1.0	0.65	1	03/01/21 08:20	03/03/21 20:01	103-33-3	1c
Benzo(a)anthracene	ND	ug/L	1.0	0.77	1	03/01/21 08:20	03/03/21 20:01	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 20:01	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	1.0	0.75	1	03/01/21 08:20	03/03/21 20:01	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 20:01	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	1.0	0.72	1	03/01/21 08:20	03/03/21 20:01	207-08-9	1c
Benzoic acid	ND	ug/L	15.0	4.3	1	03/01/21 08:20	03/03/21 20:01	65-85-0	1c
Benzyl alcohol	ND	ug/L	1.0	0.98	1	03/01/21 08:20	03/03/21 20:01	100-51-6	1c
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 20:01	101-55-3	1c
Butylbenzylphthalate	ND	ug/L	2.5	1.6	1	03/01/21 08:20	03/03/21 20:01	85-68-7	1c,MH
Carbazole	ND	ug/L	1.0	0.70	1	03/01/21 08:20	03/03/21 20:01	86-74-8	1c
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.63	1	03/01/21 08:20	03/03/21 20:01	59-50-7	1c
4-Chloroaniline	**8.3**	ug/L	1.0	0.50	1	03/01/21 08:20	03/03/21 20:01	106-47-8	1c
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 20:01	111-91-1	1c
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.53	1	03/01/21 08:20	03/03/21 20:01	111-44-4	1c
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.62	1	03/01/21 08:20	03/03/21 20:01	108-60-1	1c
2-Chloronaphthalene	ND	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 20:01	91-58-7	1c
2-Chlorophenol	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 20:01	95-57-8	1c
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 20:01	7005-72-3	1c
Chrysene	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 20:01	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 20:01	53-70-3	1c
Dibenzofuran	**3.3**	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 20:01	132-64-9	1c
1,2-Dichlorobenzene	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 20:01	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/L	1.0	0.56	1	03/01/21 08:20	03/03/21 20:01	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/L	1.0	0.56	1	03/01/21 08:20	03/03/21 20:01	106-46-7	1c

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-33 **Lab ID: 30407305001** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.81	1	03/01/21 08:20	03/03/21 20:01	91-94-1	1c,ML
2,4-Dichlorophenol	ND	ug/L	1.0	0.61	1	03/01/21 08:20	03/03/21 20:01	120-83-2	1c
Diethylphthalate	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 20:01	84-66-2	1c
2,4-Dimethylphenol	**5.3**	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 20:01	105-67-9	1c
Dimethylphthalate	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 20:01	131-11-3	1c
Di-n-butylphthalate	**1.2**	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 20:01	84-74-2	1c
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.78	1	03/01/21 08:20	03/03/21 20:01	534-52-1	1c,ML
2,4-Dinitrophenol	ND	ug/L	2.5	0.78	1	03/01/21 08:20	03/03/21 20:01	51-28-5	1c,ML
2,4-Dinitrotoluene	ND	ug/L	1.0	0.46	1	03/01/21 08:20	03/03/21 20:01	121-14-2	1c,MH
2,6-Dinitrotoluene	ND	ug/L	1.0	0.55	1	03/01/21 08:20	03/03/21 20:01	606-20-2	1c
Di-n-octylphthalate	ND	ug/L	2.5	1.1	1	03/01/21 08:20	03/03/21 20:01	117-84-0	1c
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.5	1.5	1	03/01/21 08:20	03/03/21 20:01	117-81-7	1c,MH
Fluoranthene	**2.0**	ug/L	1.0	0.71	1	03/01/21 08:20	03/03/21 20:01	206-44-0	1c
Fluorene	**11.8**	ug/L	1.0	0.61	1	03/01/21 08:20	03/03/21 20:01	86-73-7	1c
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 20:01	87-68-3	1c
Hexachlorobenzene	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 20:01	118-74-1	1c
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.57	1	03/01/21 08:20	03/03/21 20:01	77-47-4	1c,MH
Hexachloroethane	ND	ug/L	1.0	0.57	1	03/01/21 08:20	03/03/21 20:01	67-72-1	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.70	1	03/01/21 08:20	03/03/21 20:01	193-39-5	1c
Isophorone	**4.0**	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 20:01	78-59-1	1c
1-Methylnaphthalene	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 20:01	90-12-0	1c
2-Methylnaphthalene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 20:01	91-57-6	1c
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.49	1	03/01/21 08:20	03/03/21 20:01	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.89	1	03/01/21 08:20	03/03/21 20:01		1c
Naphthalene	ND	ug/L	1.0	0.67	1	03/01/21 08:20	03/03/21 20:01	91-20-3	1c,MH
2-Nitroaniline	ND	ug/L	2.5	1.2	1	03/01/21 08:20	03/03/21 20:01	88-74-4	1c
3-Nitroaniline	ND	ug/L	2.5	1.4	1	03/01/21 08:20	03/03/21 20:01	99-09-2	1c,R1
4-Nitroaniline	ND	ug/L	2.5	1.4	1	03/01/21 08:20	03/03/21 20:01	100-01-6	1c
Nitrobenzene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 20:01	98-95-3	1c,MH
2-Nitrophenol	ND	ug/L	1.0	0.67	1	03/01/21 08:20	03/03/21 20:01	88-75-5	1c
4-Nitrophenol	ND	ug/L	1.0	0.35	1	03/01/21 08:20	03/03/21 20:01	100-02-7	1c,ML
N-Nitrosodimethylamine	ND	ug/L	1.0	0.34	1	03/01/21 08:20	03/03/21 20:01	62-75-9	1c
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 20:01	621-64-7	1c
N-Nitrosodiphenylamine	**38.6**	ug/L	5.0	3.4	5	03/01/21 08:20	03/04/21 19:39	86-30-6	1c
Pentachlorophenol	ND	ug/L	2.5	1.5	1	03/01/21 08:20	03/03/21 20:01	87-86-5	1c
Phenanthrene	**4.8**	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 20:01	85-01-8	1c
Phenol	ND	ug/L	1.0	0.25	1	03/01/21 08:20	03/03/21 20:01	108-95-2	1c
Pyrene	**6.9**	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 20:01	129-00-0	1c
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 20:01	120-82-1	1c
2,4,5-Trichlorophenol	ND	ug/L	2.5	1.6	1	03/01/21 08:20	03/03/21 20:01	95-95-4	1c
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 20:01	88-06-2	1c
Surrogates									
Nitrobenzene-d5 (S)	129	%.	10-140		1	03/01/21 08:20	03/03/21 20:01	4165-60-0	
2-Fluorobiphenyl (S)	70	%.	10-135		1	03/01/21 08:20	03/03/21 20:01	321-60-8	
Terphenyl-d14 (S)	85	%.	10-128		1	03/01/21 08:20	03/03/21 20:01	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-33 **Lab ID: 30407305001** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Surrogates									
Phenol-d6 (S)	23	%.	10-145		1	03/01/21 08:20	03/03/21 20:01	13127-88-3	
2-Fluorophenol (S)	32	%.	10-142		1	03/01/21 08:20	03/03/21 20:01	367-12-4	
2,4,6-Tribromophenol (S)	98	%.	10-140		1	03/01/21 08:20	03/03/21 20:01	118-79-6	

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: DUP **Lab ID: 30407305002** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 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 Pace Analytical Services - Greensburg								
Aluminum	**281**	ug/L	50.0	20.3	1	02/25/21 15:42	03/03/21 07:53	7429-90-5	
Antimony	ND	ug/L	6.0	3.3	1	02/25/21 15:42	03/03/21 07:53	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	02/25/21 15:42	03/03/21 07:53	7440-38-2	
Barium	**176**	ug/L	10.0	0.68	1	02/25/21 15:42	03/03/21 07:53	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	02/25/21 15:42	03/03/21 07:53	7440-41-7	
Boron	**309**	ug/L	50.0	2.3	1	02/25/21 15:42	03/03/21 07:53	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	02/25/21 15:42	03/03/21 07:53	7440-43-9	
Calcium	**142000**	ug/L	1000	99.9	1	02/25/21 15:42	03/03/21 07:53	7440-70-2	
Chromium	ND	ug/L	5.0	0.35	1	02/25/21 15:42	03/03/21 07:53	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	02/25/21 15:42	03/03/21 07:53	7440-48-4	
Copper	ND	ug/L	5.0	2.7	1	02/25/21 15:42	03/03/21 07:53	7440-50-8	
Iron	**18300**	ug/L	70.0	40.9	1	02/25/21 15:42	03/03/21 07:53	7439-89-6	
Lead	ND	ug/L	5.0	4.9	1	02/25/21 15:42	03/03/21 07:53	7439-92-1	
Magnesium	**16600**	ug/L	200	28.4	1	02/25/21 15:42	03/03/21 07:53	7439-95-4	
Manganese	**2400**	ug/L	5.0	1.2	1	02/25/21 15:42	03/03/21 07:53	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	02/25/21 15:42	03/03/21 07:53	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	02/25/21 15:42	03/03/21 07:53	7440-02-0	
Potassium	**12900**	ug/L	500	72.4	1	02/25/21 15:42	03/03/21 07:53	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	02/25/21 15:42	03/03/21 07:53	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	02/25/21 15:42	03/03/21 07:53	7440-22-4	
Sodium	**37700**	ug/L	1000	423	1	02/25/21 15:42	03/03/21 07:53	7440-23-5	
Thallium	ND	ug/L	10.0	4.0	1	02/25/21 15:42	03/03/21 07:53	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	02/25/21 15:42	03/03/21 07:53	7440-62-2	
Zinc	ND	ug/L	10.0	2.4	1	02/25/21 15:42	03/03/21 07:53	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum, Dissolved	ND	ug/L	50.0	20.3	1	03/02/21 12:01	03/03/21 07:22	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	03/02/21 12:01	03/03/21 07:22	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	03/02/21 12:01	03/03/21 07:22	7440-38-2	
Barium, Dissolved	**124**	ug/L	10.0	0.68	1	03/02/21 12:01	03/03/21 07:22	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	03/02/21 12:01	03/03/21 07:22	7440-41-7	
Boron, Dissolved	**317**	ug/L	50.0	2.3	1	03/02/21 12:01	03/03/21 07:22	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	03/02/21 12:01	03/03/21 07:22	7440-43-9	
Calcium, Dissolved	**143000**	ug/L	1000	99.9	1	03/02/21 12:01	03/03/21 07:22	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	03/02/21 12:01	03/03/21 07:22	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	03/02/21 12:01	03/03/21 07:22	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	03/02/21 12:01	03/03/21 07:22	7440-50-8	
Iron, Dissolved	**2150**	ug/L	70.0	40.9	1	03/02/21 12:01	03/03/21 07:22	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	03/02/21 12:01	03/03/21 07:22	7439-92-1	
Magnesium, Dissolved	**17100**	ug/L	200	28.4	1	03/02/21 12:01	03/03/21 07:22	7439-95-4	
Manganese, Dissolved	**2390**	ug/L	5.0	1.2	1	03/02/21 12:01	03/03/21 07:22	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	03/02/21 12:01	03/03/21 07:22	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	03/02/21 12:01	03/03/21 07:22	7440-02-0	
Potassium, Dissolved	**13100**	ug/L	500	72.4	1	03/02/21 12:01	03/03/21 07:22	7440-09-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: DUP **Lab ID: 30407305002** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 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 Pace Analytical Services - Greensburg								
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	03/02/21 12:01	03/03/21 07:22	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	03/02/21 12:01	03/03/21 07:22	7440-22-4	
Sodium, Dissolved	**39000**	ug/L	1000	423	1	03/02/21 12:01	03/03/21 07:22	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	03/02/21 12:01	03/03/21 07:22	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	03/02/21 12:01	03/03/21 07:22	7440-62-2	
Zinc, Dissolved	**14.6**	ug/L	10.0	2.4	1	03/02/21 12:01	03/03/21 07:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury	ND	ug/L	0.20	0.030	1	03/02/21 14:05	03/02/21 19:21	7439-97-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	03/02/21 14:10	03/02/21 19:53	7439-97-6	
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**1.4**	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:02	83-32-9	1c
Acenaphthylene	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:02	208-96-8	1c
Anthracene	ND	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 21:02	120-12-7	1c
Azobenzene	ND	ug/L	1.0	0.65	1	03/01/21 08:20	03/03/21 21:02	103-33-3	1c
Benzo(a)anthracene	ND	ug/L	1.0	0.77	1	03/01/21 08:20	03/03/21 21:02	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 21:02	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	1.0	0.75	1	03/01/21 08:20	03/03/21 21:02	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 21:02	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	1.0	0.72	1	03/01/21 08:20	03/03/21 21:02	207-08-9	1c
Benzoic acid	ND	ug/L	15.0	4.3	1	03/01/21 08:20	03/03/21 21:02	65-85-0	1c
Benzyl alcohol	ND	ug/L	1.0	0.98	1	03/01/21 08:20	03/03/21 21:02	100-51-6	1c
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 21:02	101-55-3	1c
Butylbenzylphthalate	ND	ug/L	2.5	1.6	1	03/01/21 08:20	03/03/21 21:02	85-68-7	1c
Carbazole	ND	ug/L	1.0	0.70	1	03/01/21 08:20	03/03/21 21:02	86-74-8	1c
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.63	1	03/01/21 08:20	03/03/21 21:02	59-50-7	1c
4-Chloroaniline	**2.3**	ug/L	1.0	0.50	1	03/01/21 08:20	03/03/21 21:02	106-47-8	1c
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:02	111-91-1	1c
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.53	1	03/01/21 08:20	03/03/21 21:02	111-44-4	1c
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.62	1	03/01/21 08:20	03/03/21 21:02	108-60-1	1c
2-Chloronaphthalene	ND	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 21:02	91-58-7	1c
2-Chlorophenol	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:02	95-57-8	1c
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:02	7005-72-3	1c
Chrysene	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 21:02	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 21:02	53-70-3	1c
Dibenzofuran	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:02	132-64-9	1c
1,2-Dichlorobenzene	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:02	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/L	1.0	0.56	1	03/01/21 08:20	03/03/21 21:02	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/L	1.0	0.56	1	03/01/21 08:20	03/03/21 21:02	106-46-7	1c

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: DUP **Lab ID: 30407305002** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.81	1	03/01/21 08:20	03/03/21 21:02	91-94-1	1c
2,4-Dichlorophenol	ND	ug/L	1.0	0.61	1	03/01/21 08:20	03/03/21 21:02	120-83-2	1c
Diethylphthalate	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:02	84-66-2	1c
2,4-Dimethylphenol	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:02	105-67-9	1c
Dimethylphthalate	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:02	131-11-3	1c
Di-n-butylphthalate	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 21:02	84-74-2	1c
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.78	1	03/01/21 08:20	03/03/21 21:02	534-52-1	1c
2,4-Dinitrophenol	ND	ug/L	2.5	0.78	1	03/01/21 08:20	03/03/21 21:02	51-28-5	1c
2,4-Dinitrotoluene	ND	ug/L	1.0	0.46	1	03/01/21 08:20	03/03/21 21:02	121-14-2	1c
2,6-Dinitrotoluene	ND	ug/L	1.0	0.55	1	03/01/21 08:20	03/03/21 21:02	606-20-2	1c
Di-n-octylphthalate	ND	ug/L	2.5	1.1	1	03/01/21 08:20	03/03/21 21:02	117-84-0	1c
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.5	1.5	1	03/01/21 08:20	03/03/21 21:02	117-81-7	1c
Fluoranthene	ND	ug/L	1.0	0.71	1	03/01/21 08:20	03/03/21 21:02	206-44-0	1c
Fluorene	**2.4**	ug/L	1.0	0.61	1	03/01/21 08:20	03/03/21 21:02	86-73-7	1c
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:02	87-68-3	1c
Hexachlorobenzene	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 21:02	118-74-1	1c
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.57	1	03/01/21 08:20	03/03/21 21:02	77-47-4	1c
Hexachloroethane	ND	ug/L	1.0	0.57	1	03/01/21 08:20	03/03/21 21:02	67-72-1	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.70	1	03/01/21 08:20	03/03/21 21:02	193-39-5	1c
Isophorone	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:02	78-59-1	1c
1-Methylnaphthalene	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:02	90-12-0	1c
2-Methylnaphthalene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:02	91-57-6	1c
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.49	1	03/01/21 08:20	03/03/21 21:02	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.89	1	03/01/21 08:20	03/03/21 21:02		1c
Naphthalene	ND	ug/L	1.0	0.67	1	03/01/21 08:20	03/03/21 21:02	91-20-3	1c
2-Nitroaniline	ND	ug/L	2.5	1.2	1	03/01/21 08:20	03/03/21 21:02	88-74-4	1c
3-Nitroaniline	ND	ug/L	2.5	1.4	1	03/01/21 08:20	03/03/21 21:02	99-09-2	1c
4-Nitroaniline	ND	ug/L	2.5	1.4	1	03/01/21 08:20	03/03/21 21:02	100-01-6	1c
Nitrobenzene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:02	98-95-3	1c
2-Nitrophenol	ND	ug/L	1.0	0.67	1	03/01/21 08:20	03/03/21 21:02	88-75-5	1c
4-Nitrophenol	ND	ug/L	1.0	0.35	1	03/01/21 08:20	03/03/21 21:02	100-02-7	1c
N-Nitrosodimethylamine	ND	ug/L	1.0	0.34	1	03/01/21 08:20	03/03/21 21:02	62-75-9	1c
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:02	621-64-7	1c
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 21:02	86-30-6	1c
Pentachlorophenol	ND	ug/L	2.5	1.5	1	03/01/21 08:20	03/03/21 21:02	87-86-5	1c
Phenanthrene	ND	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 21:02	85-01-8	1c
Phenol	ND	ug/L	1.0	0.25	1	03/01/21 08:20	03/03/21 21:02	108-95-2	1c
Pyrene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 21:02	129-00-0	1c
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:02	120-82-1	1c
2,4,5-Trichlorophenol	ND	ug/L	2.5	1.6	1	03/01/21 08:20	03/03/21 21:02	95-95-4	1c
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:02	88-06-2	1c
Surrogates									
Nitrobenzene-d5 (S)	98	%.	10-140		1	03/01/21 08:20	03/03/21 21:02	4165-60-0	
2-Fluorobiphenyl (S)	62	%.	10-135		1	03/01/21 08:20	03/03/21 21:02	321-60-8	
Terphenyl-d14 (S)	98	%.	10-128		1	03/01/21 08:20	03/03/21 21:02	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: DUP **Lab ID: 30407305002** Collected: 02/22/21 13:40 Received: 02/24/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Surrogates									
Phenol-d6 (S)	35	%.	10-145		1	03/01/21 08:20	03/03/21 21:02	13127-88-3	
2-Fluorophenol (S)	47	%.	10-142		1	03/01/21 08:20	03/03/21 21:02	367-12-4	
2,4,6-Tribromophenol (S)	99	%.	10-140		1	03/01/21 08:20	03/03/21 21:02	118-79-6	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-32 **Lab ID: 30407305005** Collected: 02/22/21 14:30 Received: 02/24/21 11:30 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 Pace Analytical Services - Greensburg								
Aluminum	**367**	ug/L	50.0	20.3	1	02/25/21 15:42	03/03/21 07:55	7429-90-5	
Antimony	ND	ug/L	6.0	3.3	1	02/25/21 15:42	03/03/21 07:55	7440-36-0	
Arsenic	**7.0**	ug/L	5.0	2.0	1	02/25/21 15:42	03/03/21 07:55	7440-38-2	
Barium	**321**	ug/L	10.0	0.68	1	02/25/21 15:42	03/03/21 07:55	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	02/25/21 15:42	03/03/21 07:55	7440-41-7	
Boron	**377**	ug/L	50.0	2.3	1	02/25/21 15:42	03/03/21 07:55	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	02/25/21 15:42	03/03/21 07:55	7440-43-9	
Calcium	**170000**	ug/L	1000	99.9	1	02/25/21 15:42	03/03/21 07:55	7440-70-2	
Chromium	ND	ug/L	5.0	0.35	1	02/25/21 15:42	03/03/21 07:55	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	02/25/21 15:42	03/03/21 07:55	7440-48-4	
Copper	ND	ug/L	5.0	2.7	1	02/25/21 15:42	03/03/21 07:55	7440-50-8	
Iron	**23400**	ug/L	70.0	40.9	1	02/25/21 15:42	03/03/21 07:55	7439-89-6	
Lead	ND	ug/L	5.0	4.9	1	02/25/21 15:42	03/03/21 07:55	7439-92-1	
Magnesium	**23400**	ug/L	200	28.4	1	02/25/21 15:42	03/03/21 07:55	7439-95-4	
Manganese	**5400**	ug/L	5.0	1.2	1	02/25/21 15:42	03/03/21 07:55	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	02/25/21 15:42	03/03/21 07:55	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	02/25/21 15:42	03/03/21 07:55	7440-02-0	
Potassium	**10100**	ug/L	500	72.4	1	02/25/21 15:42	03/03/21 07:55	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	02/25/21 15:42	03/03/21 07:55	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	02/25/21 15:42	03/03/21 07:55	7440-22-4	
Sodium	**25500**	ug/L	1000	423	1	02/25/21 15:42	03/03/21 07:55	7440-23-5	
Thallium	ND	ug/L	10.0	4.0	1	02/25/21 15:42	03/03/21 07:55	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	02/25/21 15:42	03/03/21 07:55	7440-62-2	
Zinc	ND	ug/L	10.0	2.4	1	02/25/21 15:42	03/03/21 07:55	7440-66-6	
6010C MET ICP, Lab Filtered	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Aluminum, Dissolved	ND	ug/L	50.0	20.3	1	03/02/21 12:01	03/03/21 07:25	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	03/02/21 12:01	03/03/21 07:25	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	03/02/21 12:01	03/03/21 07:25	7440-38-2	
Barium, Dissolved	**235**	ug/L	10.0	0.68	1	03/02/21 12:01	03/03/21 07:25	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	03/02/21 12:01	03/03/21 07:25	7440-41-7	
Boron, Dissolved	**386**	ug/L	50.0	2.3	1	03/02/21 12:01	03/03/21 07:25	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	03/02/21 12:01	03/03/21 07:25	7440-43-9	
Calcium, Dissolved	**169000**	ug/L	1000	99.9	1	03/02/21 12:01	03/03/21 07:25	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	03/02/21 12:01	03/03/21 07:25	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	03/02/21 12:01	03/03/21 07:25	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	03/02/21 12:01	03/03/21 07:25	7440-50-8	
Iron, Dissolved	**1110**	ug/L	70.0	40.9	1	03/02/21 12:01	03/03/21 07:25	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	03/02/21 12:01	03/03/21 07:25	7439-92-1	
Magnesium, Dissolved	**23800**	ug/L	200	28.4	1	03/02/21 12:01	03/03/21 07:25	7439-95-4	
Manganese, Dissolved	**5320**	ug/L	5.0	1.2	1	03/02/21 12:01	03/03/21 07:25	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	03/02/21 12:01	03/03/21 07:25	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	03/02/21 12:01	03/03/21 07:25	7440-02-0	
Potassium, Dissolved	**10200**	ug/L	500	72.4	1	03/02/21 12:01	03/03/21 07:25	7440-09-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-32 **Lab ID: 30407305005** Collected: 02/22/21 14:30 Received: 02/24/21 11:30 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 Pace Analytical Services - Greensburg								
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	03/02/21 12:01	03/03/21 07:25	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	03/02/21 12:01	03/03/21 07:25	7440-22-4	
Sodium, Dissolved	**25800**	ug/L	1000	423	1	03/02/21 12:01	03/03/21 07:25	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	03/02/21 12:01	03/03/21 07:25	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	03/02/21 12:01	03/03/21 07:25	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	03/02/21 12:01	03/03/21 07:25	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury	ND	ug/L	0.20	0.030	1	03/02/21 14:05	03/02/21 19:22	7439-97-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Greensburg								
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	03/02/21 14:10	03/02/21 19:55	7439-97-6	
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:22	83-32-9	1c
Acenaphthylene	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:22	208-96-8	1c
Anthracene	ND	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 21:22	120-12-7	1c
Azobenzene	ND	ug/L	1.0	0.65	1	03/01/21 08:20	03/03/21 21:22	103-33-3	1c
Benzo(a)anthracene	ND	ug/L	1.0	0.77	1	03/01/21 08:20	03/03/21 21:22	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 21:22	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	1.0	0.75	1	03/01/21 08:20	03/03/21 21:22	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 21:22	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	1.0	0.72	1	03/01/21 08:20	03/03/21 21:22	207-08-9	1c
Benzoic acid	ND	ug/L	15.0	4.3	1	03/01/21 08:20	03/03/21 21:22	65-85-0	1c
Benzyl alcohol	ND	ug/L	1.0	0.98	1	03/01/21 08:20	03/03/21 21:22	100-51-6	1c
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 21:22	101-55-3	1c
Butylbenzylphthalate	ND	ug/L	2.5	1.6	1	03/01/21 08:20	03/03/21 21:22	85-68-7	1c
Carbazole	ND	ug/L	1.0	0.70	1	03/01/21 08:20	03/03/21 21:22	86-74-8	1c
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.63	1	03/01/21 08:20	03/03/21 21:22	59-50-7	1c
4-Chloroaniline	ND	ug/L	1.0	0.50	1	03/01/21 08:20	03/03/21 21:22	106-47-8	1c
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:22	111-91-1	1c
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.53	1	03/01/21 08:20	03/03/21 21:22	111-44-4	1c
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.62	1	03/01/21 08:20	03/03/21 21:22	108-60-1	1c
2-Chloronaphthalene	ND	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 21:22	91-58-7	1c
2-Chlorophenol	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:22	95-57-8	1c
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:22	7005-72-3	1c
Chrysene	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 21:22	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 21:22	53-70-3	1c
Dibenzofuran	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:22	132-64-9	1c
1,2-Dichlorobenzene	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:22	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/L	1.0	0.56	1	03/01/21 08:20	03/03/21 21:22	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/L	1.0	0.56	1	03/01/21 08:20	03/03/21 21:22	106-46-7	1c

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-32 **Lab ID: 30407305005** Collected: 02/22/21 14:30 Received: 02/24/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.81	1	03/01/21 08:20	03/03/21 21:22	91-94-1	1c
2,4-Dichlorophenol	ND	ug/L	1.0	0.61	1	03/01/21 08:20	03/03/21 21:22	120-83-2	1c
Diethylphthalate	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:22	84-66-2	1c
2,4-Dimethylphenol	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:22	105-67-9	1c
Dimethylphthalate	ND	ug/L	1.0	0.64	1	03/01/21 08:20	03/03/21 21:22	131-11-3	1c
Di-n-butylphthalate	ND	ug/L	1.0	0.80	1	03/01/21 08:20	03/03/21 21:22	84-74-2	1c
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.78	1	03/01/21 08:20	03/03/21 21:22	534-52-1	1c
2,4-Dinitrophenol	ND	ug/L	2.5	0.78	1	03/01/21 08:20	03/03/21 21:22	51-28-5	1c
2,4-Dinitrotoluene	ND	ug/L	1.0	0.46	1	03/01/21 08:20	03/03/21 21:22	121-14-2	1c
2,6-Dinitrotoluene	ND	ug/L	1.0	0.55	1	03/01/21 08:20	03/03/21 21:22	606-20-2	1c
Di-n-octylphthalate	ND	ug/L	2.5	1.1	1	03/01/21 08:20	03/03/21 21:22	117-84-0	1c
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.5	1.5	1	03/01/21 08:20	03/03/21 21:22	117-81-7	1c
Fluoranthene	ND	ug/L	1.0	0.71	1	03/01/21 08:20	03/03/21 21:22	206-44-0	1c
Fluorene	ND	ug/L	1.0	0.61	1	03/01/21 08:20	03/03/21 21:22	86-73-7	1c
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:22	87-68-3	1c
Hexachlorobenzene	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 21:22	118-74-1	1c
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.57	1	03/01/21 08:20	03/03/21 21:22	77-47-4	1c
Hexachloroethane	ND	ug/L	1.0	0.57	1	03/01/21 08:20	03/03/21 21:22	67-72-1	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.70	1	03/01/21 08:20	03/03/21 21:22	193-39-5	1c
Isophorone	ND	ug/L	1.0	0.60	1	03/01/21 08:20	03/03/21 21:22	78-59-1	1c
1-Methylnaphthalene	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:22	90-12-0	1c
2-Methylnaphthalene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:22	91-57-6	1c
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.49	1	03/01/21 08:20	03/03/21 21:22	95-48-7	1c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.89	1	03/01/21 08:20	03/03/21 21:22		1c
Naphthalene	ND	ug/L	1.0	0.67	1	03/01/21 08:20	03/03/21 21:22	91-20-3	1c
2-Nitroaniline	ND	ug/L	2.5	1.2	1	03/01/21 08:20	03/03/21 21:22	88-74-4	1c
3-Nitroaniline	ND	ug/L	2.5	1.4	1	03/01/21 08:20	03/03/21 21:22	99-09-2	1c
4-Nitroaniline	ND	ug/L	2.5	1.4	1	03/01/21 08:20	03/03/21 21:22	100-01-6	1c
Nitrobenzene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:22	98-95-3	1c
2-Nitrophenol	ND	ug/L	1.0	0.67	1	03/01/21 08:20	03/03/21 21:22	88-75-5	1c
4-Nitrophenol	ND	ug/L	1.0	0.35	1	03/01/21 08:20	03/03/21 21:22	100-02-7	1c
N-Nitrosodimethylamine	ND	ug/L	1.0	0.34	1	03/01/21 08:20	03/03/21 21:22	62-75-9	1c
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.58	1	03/01/21 08:20	03/03/21 21:22	621-64-7	1c
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.68	1	03/01/21 08:20	03/03/21 21:22	86-30-6	1c
Pentachlorophenol	ND	ug/L	2.5	1.5	1	03/01/21 08:20	03/03/21 21:22	87-86-5	1c
Phenanthrene	ND	ug/L	1.0	0.66	1	03/01/21 08:20	03/03/21 21:22	85-01-8	1c
Phenol	ND	ug/L	1.0	0.25	1	03/01/21 08:20	03/03/21 21:22	108-95-2	1c
Pyrene	ND	ug/L	1.0	0.76	1	03/01/21 08:20	03/03/21 21:22	129-00-0	1c
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:22	120-82-1	1c
2,4,5-Trichlorophenol	ND	ug/L	2.5	1.6	1	03/01/21 08:20	03/03/21 21:22	95-95-4	1c
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.59	1	03/01/21 08:20	03/03/21 21:22	88-06-2	1c
Surrogates									
Nitrobenzene-d5 (S)	87	%.	10-140		1	03/01/21 08:20	03/03/21 21:22	4165-60-0	
2-Fluorobiphenyl (S)	67	%.	10-135		1	03/01/21 08:20	03/03/21 21:22	321-60-8	
Terphenyl-d14 (S)	96	%.	10-128		1	03/01/21 08:20	03/03/21 21:22	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Green Island
Pace Project No.: 30407305

Sample: MW-32 **Lab ID: 30407305005** Collected: 02/22/21 14:30 Received: 02/24/21 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D Organics Reduced Volume	Analytical Method: EPA 8270D Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Surrogates									
Phenol-d6 (S)	36	%.	10-145		1	03/01/21 08:20	03/03/21 21:22	13127-88-3	
2-Fluorophenol (S)	47	%.	10-142		1	03/01/21 08:20	03/03/21 21:22	367-12-4	
2,4,6-Tribromophenol (S)	108	%.	10-140		1	03/01/21 08:20	03/03/21 21:22	118-79-6	

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

QC Batch: 436872
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30407305001, 30407305002, 30407305005

METHOD BLANK: 2108614 Matrix: Water
Associated Lab Samples: 30407305001, 30407305002, 30407305005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.030	03/02/21 19:08	

LABORATORY CONTROL SAMPLE: 2108615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2108617 2108618

Parameter	Units	30407305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.6	102	104	75-125	3	20	

SAMPLE DUPLICATE: 2108616

Parameter	Units	30407305001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

QC Batch: 436873
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30407305001, 30407305002, 30407305005

METHOD BLANK: 2108619 Matrix: Water
Associated Lab Samples: 30407305001, 30407305002, 30407305005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	0.030	03/02/21 19:35	

LABORATORY CONTROL SAMPLE: 2108620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2108622 2108623

Parameter	Units	30407305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	2.5	2.5	2.6	2.7	102	108	75-125	5	20	

SAMPLE DUPLICATE: 2108621

Parameter	Units	30407305001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(724)850-5600

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

QC Batch: 436401
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010C MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30407305001, 30407305002, 30407305005

METHOD BLANK: 2106397 Matrix: Water
Associated Lab Samples: 30407305001, 30407305002, 30407305005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	50.0	20.3	03/03/21 07:36	
Antimony	ug/L	ND	6.0	3.3	03/03/21 07:36	
Arsenic	ug/L	ND	5.0	2.0	03/03/21 07:36	
Barium	ug/L	ND	10.0	0.68	03/03/21 07:36	
Beryllium	ug/L	ND	1.0	0.17	03/03/21 07:36	
Boron	ug/L	ND	50.0	2.3	03/03/21 07:36	
Cadmium	ug/L	ND	3.0	0.34	03/03/21 07:36	
Calcium	ug/L	ND	1000	99.9	03/03/21 07:36	
Chromium	ug/L	ND	5.0	0.35	03/03/21 07:36	
Cobalt	ug/L	ND	5.0	0.53	03/03/21 07:36	
Copper	ug/L	ND	5.0	2.7	03/03/21 07:36	
Iron	ug/L	ND	70.0	40.9	03/03/21 07:36	
Lead	ug/L	ND	5.0	4.9	03/03/21 07:36	
Magnesium	ug/L	ND	200	28.4	03/03/21 07:36	
Manganese	ug/L	ND	5.0	1.2	03/03/21 07:36	
Molybdenum	ug/L	ND	20.0	0.85	03/03/21 07:36	
Nickel	ug/L	ND	10.0	1.5	03/03/21 07:36	
Potassium	ug/L	ND	500	72.4	03/03/21 07:36	
Selenium	ug/L	ND	8.0	5.5	03/03/21 07:36	
Silver	ug/L	ND	6.0	1.4	03/03/21 07:36	
Sodium	ug/L	ND	1000	423	03/03/21 07:36	
Thallium	ug/L	ND	10.0	4.0	03/03/21 07:36	
Vanadium	ug/L	ND	5.0	0.57	03/03/21 07:36	
Zinc	ug/L	ND	10.0	2.4	03/03/21 07:36	

LABORATORY CONTROL SAMPLE: 2106398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5760	115	80-120	
Antimony	ug/L	500	522	104	80-120	
Arsenic	ug/L	500	517	103	80-120	
Barium	ug/L	500	580	116	80-120	
Beryllium	ug/L	500	574	115	80-120	
Boron	ug/L	500	529	106	80-120	
Cadmium	ug/L	500	534	107	80-120	
Calcium	ug/L	5000	5830	117	80-120	
Chromium	ug/L	500	542	108	80-120	
Cobalt	ug/L	500	520	104	80-120	
Copper	ug/L	500	592	118	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

LABORATORY CONTROL SAMPLE: 2106398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	5000	5870	117	80-120	
Lead	ug/L	500	508	102	80-120	
Magnesium	ug/L	5000	5570	111	80-120	
Manganese	ug/L	500	566	113	80-120	
Molybdenum	ug/L	500	524	105	80-120	
Nickel	ug/L	500	528	106	80-120	
Potassium	ug/L	5000	5640	113	80-120	
Selenium	ug/L	500	527	105	80-120	
Silver	ug/L	250	276	110	80-120	
Sodium	ug/L	5000	5810	116	80-120	
Thallium	ug/L	500	505	101	80-120	
Vanadium	ug/L	500	521	104	80-120	
Zinc	ug/L	500	532	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2106400 2106401

Parameter	Units	30407305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	171	5000	5000	6750	9430	132	185	75-125	33	20	MH,R1
Antimony	ug/L	ND	500	500	508	482	102	96	75-125	5	20	
Arsenic	ug/L	ND	500	500	518	503	103	100	75-125	3	20	
Barium	ug/L	174	500	500	724	732	110	112	75-125	1	20	
Beryllium	ug/L	ND	500	500	546	530	109	106	75-125	3	20	
Boron	ug/L	314	500	500	843	825	106	102	75-125	2	20	
Cadmium	ug/L	ND	500	500	523	511	104	102	75-125	2	20	
Calcium	ug/L	142000	5000	5000	152000	153000	212	228	75-125	1	20	MH
Chromium	ug/L	ND	500	500	506	509	101	102	75-125	1	20	
Cobalt	ug/L	ND	500	500	520	513	104	102	75-125	1	20	
Copper	ug/L	ND	500	500	562	553	112	111	75-125	1	20	
Iron	ug/L	18100	5000	5000	24000	28000	119	198	75-125	15	20	MH
Lead	ug/L	ND	500	500	505	518	101	104	75-125	2	20	
Magnesium	ug/L	16800	5000	5000	22500	22900	114	122	75-125	2	20	
Manganese	ug/L	2410	500	500	2830	2850	85	89	75-125	1	20	
Molybdenum	ug/L	ND	500	500	540	524	108	105	75-125	3	20	
Nickel	ug/L	ND	500	500	495	486	99	97	75-125	2	20	
Potassium	ug/L	12900	5000	5000	20100	20300	143	147	75-125	1	20	MH
Selenium	ug/L	ND	500	500	517	501	103	100	75-125	3	20	
Silver	ug/L	ND	250	250	263	261	105	104	75-125	1	20	
Sodium	ug/L	37800	5000	5000	45900	47800	162	200	75-125	4	20	MH
Thallium	ug/L	ND	500	500	484	449	97	90	75-125	7	20	
Vanadium	ug/L	ND	500	500	499	504	100	101	75-125	1	20	
Zinc	ug/L	ND	500	500	507	508	101	101	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

SAMPLE DUPLICATE: 2106399

Parameter	Units	30407305001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	171	175	3	20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	174	173	1	20	
Beryllium	ug/L	ND	ND		20	
Boron	ug/L	314	310	1	20	
Cadmium	ug/L	ND	ND		20	
Calcium	ug/L	142000	140000	1	20	
Chromium	ug/L	ND	.69J		20	
Cobalt	ug/L	ND	1.7J		20	
Copper	ug/L	ND	ND		20	
Iron	ug/L	18100	17800	1	20	
Lead	ug/L	ND	ND		20	
Magnesium	ug/L	16800	16600	1	20	
Manganese	ug/L	2410	2380	1	20	
Molybdenum	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Potassium	ug/L	12900	13000	1	20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Sodium	ug/L	37800	37800	0	20	
Thallium	ug/L	ND	ND		20	
Vanadium	ug/L	ND	.64J		20	
Zinc	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

QC Batch: 436862
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010C MET Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30407305001, 30407305002, 30407305005

METHOD BLANK: 2108576 Matrix: Water
Associated Lab Samples: 30407305001, 30407305002, 30407305005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	20.3	03/03/21 07:06	
Antimony, Dissolved	ug/L	ND	6.0	3.3	03/03/21 07:06	
Arsenic, Dissolved	ug/L	ND	5.0	2.0	03/03/21 07:06	
Barium, Dissolved	ug/L	ND	10.0	0.68	03/03/21 07:06	
Beryllium, Dissolved	ug/L	ND	1.0	0.17	03/03/21 07:06	
Boron, Dissolved	ug/L	ND	50.0	2.3	03/03/21 07:06	
Cadmium, Dissolved	ug/L	ND	3.0	0.34	03/03/21 07:06	
Calcium, Dissolved	ug/L	ND	1000	99.9	03/03/21 07:06	
Chromium, Dissolved	ug/L	ND	5.0	0.35	03/03/21 07:06	
Cobalt, Dissolved	ug/L	ND	5.0	0.53	03/03/21 07:06	
Copper, Dissolved	ug/L	ND	5.0	2.7	03/03/21 07:06	
Iron, Dissolved	ug/L	ND	70.0	40.9	03/03/21 07:06	
Lead, Dissolved	ug/L	ND	5.0	4.9	03/03/21 07:06	
Magnesium, Dissolved	ug/L	ND	200	28.4	03/03/21 07:06	
Manganese, Dissolved	ug/L	ND	5.0	1.2	03/03/21 07:06	
Molybdenum, Dissolved	ug/L	ND	20.0	0.85	03/03/21 07:06	
Nickel, Dissolved	ug/L	ND	10.0	1.5	03/03/21 07:06	
Potassium, Dissolved	ug/L	ND	500	72.4	03/03/21 07:06	
Selenium, Dissolved	ug/L	ND	8.0	5.5	03/03/21 07:06	
Silver, Dissolved	ug/L	ND	6.0	1.4	03/03/21 07:06	
Sodium, Dissolved	ug/L	ND	1000	423	03/03/21 07:06	
Thallium, Dissolved	ug/L	ND	10.0	4.0	03/03/21 07:06	
Vanadium, Dissolved	ug/L	ND	5.0	0.57	03/03/21 07:06	
Zinc, Dissolved	ug/L	ND	10.0	2.4	03/03/21 07:06	

LABORATORY CONTROL SAMPLE: 2108577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4890	98	80-120	
Antimony, Dissolved	ug/L	500	466	93	80-120	
Arsenic, Dissolved	ug/L	500	460	92	80-120	
Barium, Dissolved	ug/L	500	483	97	80-120	
Beryllium, Dissolved	ug/L	500	487	97	80-120	
Boron, Dissolved	ug/L	500	465	93	80-120	
Cadmium, Dissolved	ug/L	500	471	94	80-120	
Calcium, Dissolved	ug/L	5000	4940	99	80-120	
Chromium, Dissolved	ug/L	500	473	95	80-120	
Cobalt, Dissolved	ug/L	500	457	91	80-120	
Copper, Dissolved	ug/L	500	492	98	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

LABORATORY CONTROL SAMPLE: 2108577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4990	100	80-120	
Lead, Dissolved	ug/L	500	450	90	80-120	
Magnesium, Dissolved	ug/L	5000	4820	96	80-120	
Manganese, Dissolved	ug/L	500	482	96	80-120	
Molybdenum, Dissolved	ug/L	500	457	91	80-120	
Nickel, Dissolved	ug/L	500	473	95	80-120	
Potassium, Dissolved	ug/L	5000	4780	96	80-120	
Selenium, Dissolved	ug/L	500	468	94	80-120	
Silver, Dissolved	ug/L	250	238	95	80-120	
Sodium, Dissolved	ug/L	5000	5030	101	80-120	
Thallium, Dissolved	ug/L	500	443	89	80-120	
Vanadium, Dissolved	ug/L	500	462	92	80-120	
Zinc, Dissolved	ug/L	500	464	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2108579 2108580

Parameter	Units	30407305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	5000	5000	5570	5620	111	112	75-125	1	20	
Antimony, Dissolved	ug/L	ND	500	500	518	520	103	104	75-125	0	20	
Arsenic, Dissolved	ug/L	ND	500	500	531	527	106	105	75-125	1	20	
Barium, Dissolved	ug/L	115	500	500	678	685	113	114	75-125	1	20	
Beryllium, Dissolved	ug/L	ND	500	500	561	566	112	113	75-125	1	20	
Boron, Dissolved	ug/L	318	500	500	846	846	106	106	75-125	0	20	
Cadmium, Dissolved	ug/L	ND	500	500	538	535	108	107	75-125	1	20	
Calcium, Dissolved	ug/L	139000	5000	5000	149000	153000	210	278	75-125	2	20	MH
Chromium, Dissolved	ug/L	ND	500	500	527	530	105	106	75-125	0	20	
Cobalt, Dissolved	ug/L	ND	500	500	535	528	107	106	75-125	1	20	
Copper, Dissolved	ug/L	ND	500	500	567	575	113	115	75-125	1	20	
Iron, Dissolved	ug/L	1660	5000	5000	7700	6880	121	104	75-125	11	20	
Lead, Dissolved	ug/L	ND	500	500	522	515	104	103	75-125	1	20	
Magnesium, Dissolved	ug/L	16700	5000	5000	22600	23100	116	127	75-125	2	20	MH
Manganese, Dissolved	ug/L	2320	500	500	2960	3000	130	138	75-125	1	20	MH
Molybdenum, Dissolved	ug/L	ND	500	500	549	545	110	109	75-125	1	20	
Nickel, Dissolved	ug/L	ND	500	500	515	510	103	102	75-125	1	20	
Potassium, Dissolved	ug/L	13200	5000	5000	19000	19800	117	132	75-125	4	20	MH
Selenium, Dissolved	ug/L	ND	500	500	530	528	106	105	75-125	0	20	
Silver, Dissolved	ug/L	ND	250	250	267	273	107	109	75-125	2	20	
Sodium, Dissolved	ug/L	38100	5000	5000	45000	46400	137	167	75-125	3	20	MH
Thallium, Dissolved	ug/L	ND	500	500	503	500	101	100	75-125	1	20	
Vanadium, Dissolved	ug/L	ND	500	500	523	529	104	106	75-125	1	20	
Zinc, Dissolved	ug/L	ND	500	500	516	511	103	102	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

SAMPLE DUPLICATE: 2108578

Parameter	Units	30407305001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	ND	ND		20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	ND	2.2J		20	
Barium, Dissolved	ug/L	115	115	0	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Boron, Dissolved	ug/L	318	314	1	20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Calcium, Dissolved	ug/L	139000	139000	0	20	
Chromium, Dissolved	ug/L	ND	ND		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	ND	ND		20	
Iron, Dissolved	ug/L	1660	1640	1	20	
Lead, Dissolved	ug/L	ND	ND		20	
Magnesium, Dissolved	ug/L	16700	16800	0	20	
Manganese, Dissolved	ug/L	2320	2330	0	20	
Molybdenum, Dissolved	ug/L	ND	ND		20	
Nickel, Dissolved	ug/L	ND	ND		20	
Potassium, Dissolved	ug/L	13200	13000	1	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Sodium, Dissolved	ug/L	38100	38000	0	20	
Thallium, Dissolved	ug/L	ND	ND		20	
Vanadium, Dissolved	ug/L	ND	.87J		20	
Zinc, Dissolved	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

QC Batch: 436607
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270D
Analysis Description: 8270D MSSV RV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30407305001, 30407305002, 30407305005

METHOD BLANK: 2107743 Matrix: Water
Associated Lab Samples: 30407305001, 30407305002, 30407305005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.59	03/03/21 19:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.60	03/03/21 19:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.56	03/03/21 19:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.56	03/03/21 19:21	
1-Methylnaphthalene	ug/L	ND	1.0	0.58	03/03/21 19:21	
2,4,5-Trichlorophenol	ug/L	ND	2.5	1.6	03/03/21 19:21	
2,4,6-Trichlorophenol	ug/L	ND	1.0	0.59	03/03/21 19:21	
2,4-Dichlorophenol	ug/L	ND	1.0	0.61	03/03/21 19:21	
2,4-Dimethylphenol	ug/L	ND	1.0	0.64	03/03/21 19:21	
2,4-Dinitrophenol	ug/L	ND	2.5	0.78	03/03/21 19:21	
2,4-Dinitrotoluene	ug/L	ND	1.0	0.46	03/03/21 19:21	
2,6-Dinitrotoluene	ug/L	ND	1.0	0.55	03/03/21 19:21	
2-Chloronaphthalene	ug/L	ND	1.0	0.66	03/03/21 19:21	
2-Chlorophenol	ug/L	ND	1.0	0.59	03/03/21 19:21	
2-Methylnaphthalene	ug/L	ND	1.0	0.59	03/03/21 19:21	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	0.49	03/03/21 19:21	
2-Nitroaniline	ug/L	ND	2.5	1.2	03/03/21 19:21	
2-Nitrophenol	ug/L	ND	1.0	0.67	03/03/21 19:21	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	0.89	03/03/21 19:21	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	0.81	03/03/21 19:21	
3-Nitroaniline	ug/L	ND	2.5	1.4	03/03/21 19:21	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	0.78	03/03/21 19:21	
4-Bromophenylphenyl ether	ug/L	ND	1.0	0.68	03/03/21 19:21	
4-Chloro-3-methylphenol	ug/L	ND	1.0	0.63	03/03/21 19:21	
4-Chloroaniline	ug/L	ND	1.0	0.50	03/03/21 19:21	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	0.60	03/03/21 19:21	
4-Nitroaniline	ug/L	ND	2.5	1.4	03/03/21 19:21	
4-Nitrophenol	ug/L	ND	1.0	0.35	03/03/21 19:21	
Acenaphthene	ug/L	ND	1.0	0.60	03/03/21 19:21	
Acenaphthylene	ug/L	ND	1.0	0.64	03/03/21 19:21	
Anthracene	ug/L	ND	1.0	0.66	03/03/21 19:21	
Azobenzene	ug/L	ND	1.0	0.65	03/03/21 19:21	
Benzo(a)anthracene	ug/L	ND	1.0	0.77	03/03/21 19:21	
Benzo(a)pyrene	ug/L	ND	1.0	0.76	03/03/21 19:21	
Benzo(b)fluoranthene	ug/L	ND	1.0	0.75	03/03/21 19:21	
Benzo(g,h,i)perylene	ug/L	ND	1.0	0.80	03/03/21 19:21	
Benzo(k)fluoranthene	ug/L	ND	1.0	0.72	03/03/21 19:21	
Benzoic acid	ug/L	ND	15.0	4.3	03/03/21 19:21	
Benzyl alcohol	ug/L	ND	1.0	0.98	03/03/21 19:21	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	0.58	03/03/21 19:21	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

METHOD BLANK: 2107743 Matrix: Water
Associated Lab Samples: 30407305001, 30407305002, 30407305005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	1.0	0.53	03/03/21 19:21	
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	0.62	03/03/21 19:21	
bis(2-Ethylhexyl)phthalate	ug/L	ND	2.5	1.5	03/03/21 19:21	
Butylbenzylphthalate	ug/L	ND	2.5	1.6	03/03/21 19:21	
Carbazole	ug/L	ND	1.0	0.70	03/03/21 19:21	
Chrysene	ug/L	ND	1.0	0.80	03/03/21 19:21	
Di-n-butylphthalate	ug/L	ND	1.0	0.80	03/03/21 19:21	
Di-n-octylphthalate	ug/L	ND	2.5	1.1	03/03/21 19:21	
Dibenz(a,h)anthracene	ug/L	ND	1.0	0.76	03/03/21 19:21	
Dibenzofuran	ug/L	ND	1.0	0.58	03/03/21 19:21	
Diethylphthalate	ug/L	ND	1.0	0.64	03/03/21 19:21	
Dimethylphthalate	ug/L	ND	1.0	0.64	03/03/21 19:21	
Fluoranthene	ug/L	ND	1.0	0.71	03/03/21 19:21	
Fluorene	ug/L	ND	1.0	0.61	03/03/21 19:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.60	03/03/21 19:21	
Hexachlorobenzene	ug/L	ND	1.0	0.68	03/03/21 19:21	
Hexachlorocyclopentadiene	ug/L	ND	1.0	0.57	03/03/21 19:21	
Hexachloroethane	ug/L	ND	1.0	0.57	03/03/21 19:21	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	0.70	03/03/21 19:21	
Isophorone	ug/L	ND	1.0	0.60	03/03/21 19:21	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	0.58	03/03/21 19:21	
N-Nitrosodimethylamine	ug/L	ND	1.0	0.34	03/03/21 19:21	
N-Nitrosodiphenylamine	ug/L	ND	1.0	0.68	03/03/21 19:21	
Naphthalene	ug/L	ND	1.0	0.67	03/03/21 19:21	
Nitrobenzene	ug/L	ND	1.0	0.59	03/03/21 19:21	
Pentachlorophenol	ug/L	ND	2.5	1.5	03/03/21 19:21	
Phenanthrene	ug/L	ND	1.0	0.66	03/03/21 19:21	
Phenol	ug/L	ND	1.0	0.25	03/03/21 19:21	
Pyrene	ug/L	ND	1.0	0.76	03/03/21 19:21	
2,4,6-Tribromophenol (S)	%.	59	10-140		03/03/21 19:21	
2-Fluorobiphenyl (S)	%.	71	10-135		03/03/21 19:21	
2-Fluorophenol (S)	%.	37	10-142		03/03/21 19:21	
Nitrobenzene-d5 (S)	%.	63	10-140		03/03/21 19:21	
Phenol-d6 (S)	%.	22	10-145		03/03/21 19:21	
Terphenyl-d14 (S)	%.	98	10-128		03/03/21 19:21	

LABORATORY CONTROL SAMPLE: 2107744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	10	6.4	64	21-84	
1,2-Dichlorobenzene	ug/L	10	6.1	61	18-89	
1,3-Dichlorobenzene	ug/L	10	5.9	59	18-87	
1,4-Dichlorobenzene	ug/L	10	5.9	59	15-105	
1-Methylnaphthalene	ug/L	10	6.7	67	26-88	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

LABORATORY CONTROL SAMPLE: 2107744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	10	8.6	86	57-113	
2,4,6-Trichlorophenol	ug/L	10	7.0	70	45-122	
2,4-Dichlorophenol	ug/L	10	7.1	71	33-96	
2,4-Dimethylphenol	ug/L	10	6.5	65	19-87	
2,4-Dinitrophenol	ug/L	10	7.3	73	15-119	
2,4-Dinitrotoluene	ug/L	10	7.2	72	40-119	
2,6-Dinitrotoluene	ug/L	10	7.1	71	50-116	
2-Chloronaphthalene	ug/L	10	7.1	71	30-101	
2-Chlorophenol	ug/L	10	6.5	65	27-97	
2-Methylnaphthalene	ug/L	10	6.8	68	24-91	
2-Methylphenol(o-Cresol)	ug/L	10	5.8	58	10-175	
2-Nitroaniline	ug/L	10	7.2	72	48-120	
2-Nitrophenol	ug/L	10	7.0	70	29-96	
3&4-Methylphenol(m&p Cresol)	ug/L	20	11.2	56	21-131	
3,3'-Dichlorobenzidine	ug/L	10	8.0	80	49-117	
3-Nitroaniline	ug/L	10	5.5	55	52-114	
4,6-Dinitro-2-methylphenol	ug/L	10	8.0	80	40-140	
4-Bromophenylphenyl ether	ug/L	10	8.0	80	47-120	
4-Chloro-3-methylphenol	ug/L	10	7.1	71	41-102	
4-Chloroaniline	ug/L	10	5.1	51	22-79	
4-Chlorophenylphenyl ether	ug/L	10	7.1	71	42-112	
4-Nitroaniline	ug/L	10	8.2	82	46-136	
4-Nitrophenol	ug/L	10	4.8	48	17-76	
Acenaphthene	ug/L	10	6.7	67	36-106	
Acenaphthylene	ug/L	10	6.8	68	35-103	
Anthracene	ug/L	10	8.3	83	56-106	
Azobenzene	ug/L	10	8.1	81	43-119	
Benzo(a)anthracene	ug/L	10	9.3	93	65-124	
Benzo(a)pyrene	ug/L	10	9.7	97	61-115	
Benzo(b)fluoranthene	ug/L	10	9.9	99	58-133	
Benzo(g,h,i)perylene	ug/L	10	8.9	89	40-142	
Benzo(k)fluoranthene	ug/L	10	8.7	87	61-121	
Benzoic acid	ug/L	10	4.6J	46	10-98	
Benzyl alcohol	ug/L	10	5.5	55	29-106	
bis(2-Chloroethoxy)methane	ug/L	10	6.9	69	33-96	
bis(2-Chloroethyl) ether	ug/L	10	6.6	66	25-98	
bis(2-Chloroisopropyl) ether	ug/L	10	6.5	65	23-104	
bis(2-Ethylhexyl)phthalate	ug/L	10	10.1	101	65-141	
Butylbenzylphthalate	ug/L	10	12.1	121	64-142	
Carbazole	ug/L	10	9.1	91	59-112	
Chrysene	ug/L	10	8.7	87	63-120	
Di-n-butylphthalate	ug/L	10	10.1	101	69-126	
Di-n-octylphthalate	ug/L	10	10.4	104	61-145	
Dibenz(a,h)anthracene	ug/L	10	9.5	95	52-138	
Dibenzofuran	ug/L	10	7.1	71	39-107	
Diethylphthalate	ug/L	10	8.1	81	61-117	
Dimethylphthalate	ug/L	10	7.3	73	54-114	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

LABORATORY CONTROL SAMPLE: 2107744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/L	10	9.6	96	65-119	
Fluorene	ug/L	10	7.3	73	44-110	
Hexachloro-1,3-butadiene	ug/L	10	6.6	66	13-112	
Hexachlorobenzene	ug/L	10	7.7	77	17-121	
Hexachlorocyclopentadiene	ug/L	10	6.8	68	10-83	
Hexachloroethane	ug/L	10	6.1	61	13-108	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.9	99	48-140	
Isophorone	ug/L	10	6.5	65	34-93	
N-Nitroso-di-n-propylamine	ug/L	10	6.9	69	34-106	
N-Nitrosodimethylamine	ug/L	10	3.9	39	17-82	
N-Nitrosodiphenylamine	ug/L	10	8.3	83	34-97	
Naphthalene	ug/L	10	6.5	65	23-90	
Nitrobenzene	ug/L	10	6.5	65	26-128	
Pentachlorophenol	ug/L	10	10.2	102	37-125	
Phenanthrene	ug/L	10	8.1	81	56-112	
Phenol	ug/L	10	2.8	28	10-58	
Pyrene	ug/L	10	8.9	89	56-128	
2,4,6-Tribromophenol (S)	%.			76	10-140	
2-Fluorobiphenyl (S)	%.			61	10-135	
2-Fluorophenol (S)	%.			37	10-142	
Nitrobenzene-d5 (S)	%.			60	10-140	
Phenol-d6 (S)	%.			25	10-145	
Terphenyl-d14 (S)	%.			82	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2107745 2107746

Parameter	Units	30407305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	10	10	6.2	5.7	62	57	10-77	8	25	
1,2-Dichlorobenzene	ug/L	ND	10	10	4.8	5.6	48	56	10-87	15	25	
1,3-Dichlorobenzene	ug/L	ND	10	10	4.5	5.2	45	52	10-77	15	25	
1,4-Dichlorobenzene	ug/L	ND	10	10	4.7	5.5	47	55	10-92	16	25	
1-Methylnaphthalene	ug/L	ND	10	10	6.6	6.4	66	64	10-83	3	25	
2,4,5-Trichlorophenol	ug/L	ND	10	10	7.7	8.0	77	80	32-129	4	25	
2,4,6-Trichlorophenol	ug/L	ND	10	10	8.3	8.5	83	85	25-130	2	25	
2,4-Dichlorophenol	ug/L	ND	10	10	7.7	7.7	77	77	19-100	0	25	
2,4-Dimethylphenol	ug/L	5.3	10	10	7.7	7.8	24	25	10-93	1	25	
2,4-Dinitrophenol	ug/L	ND	10	10	ND	ND	0	0	10-165		25	ML
2,4-Dinitrotoluene	ug/L	ND	10	10	17.0	16.7	170	167	37-123	2	25	MH
2,6-Dinitrotoluene	ug/L	ND	10	10	11.3	11.0	113	110	30-118	3	25	
2-Chloronaphthalene	ug/L	ND	10	10	7.8	7.5	78	75	14-98	3	25	
2-Chlorophenol	ug/L	ND	10	10	5.6	6.4	56	64	10-99	14	25	
2-Methylnaphthalene	ug/L	ND	10	10	6.1	6.1	61	61	10-89	0	25	
2-Methylphenol(o-Cresol)	ug/L	ND	10	10	5.6	6.3	56	63	10-120	12	25	
2-Nitroaniline	ug/L	ND	10	10	9.0	9.0	90	90	31-120	0	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2107745 2107746

Parameter	Units	30407305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Nitrophenol	ug/L	ND	10	10	6.8	7.7	68	77	14-97	12	25	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20	20	11.1	12.0	56	60	10-132	7	25	
3,3'-Dichlorobenzidine	ug/L	ND	10	10	ND	1.0	-10	0	10-112		25	ML
3-Nitroaniline	ug/L	ND	10	10	5.1	3.8	51	38	10-138	30	25	R1
4,6-Dinitro-2-methylphenol	ug/L	ND	10	10	ND	ND	0	0	14-154		25	ML
4-Bromophenylphenyl ether	ug/L	ND	10	10	9.6	10.1	96	101	32-114	5	25	
4-Chloro-3-methylphenol	ug/L	ND	10	10	8.0	8.4	80	84	11-127	5	25	
4-Chloroaniline	ug/L	8.3	10	10	11.6	10.1	33	18	10-90	14	25	
4-Chlorophenylphenyl ether	ug/L	ND	10	10	8.6	8.3	86	83	24-110	4	25	
4-Nitroaniline	ug/L	ND	10	10	6.4	6.3	64	63	10-168	1	25	
4-Nitrophenol	ug/L	ND	10	10	ND	ND	0	0	10-82		25	ML
Acenaphthene	ug/L	4.6	10	10	11.7	11.2	71	67	19-104	4	25	
Acenaphthylene	ug/L	ND	10	10	8.6	8.4	86	84	15-102	2	25	
Anthracene	ug/L	5.3	10	10	13.8	14.1	85	88	34-108	2	25	
Azobenzene	ug/L	ND	10	10	9.0	9.8	90	98	15-113	9	25	
Benzo(a)anthracene	ug/L	ND	10	10	11.7	11.8	117	118	46-122	0	25	
Benzo(a)pyrene	ug/L	ND	10	10	9.2	10.1	92	101	39-117	9	25	
Benzo(b)fluoranthene	ug/L	ND	10	10	8.5	9.0	85	90	33-147	5	25	
Benzo(g,h,i)perylene	ug/L	ND	10	10	7.9	8.5	78	83	10-124	7	25	
Benzo(k)fluoranthene	ug/L	ND	10	10	7.2	7.9	72	79	44-130	10	25	
Benzoic acid	ug/L	ND	10	10	9J	7.9J	90	79	10-99		25	
Benzyl alcohol	ug/L	ND	10	10	7.1	7.2	71	72	10-136	1	25	
bis(2-Chloroethoxy)methane	ug/L	ND	10	10	8.3	8.6	83	86	10-99	3	25	
bis(2-Chloroethyl) ether	ug/L	ND	10	10	5.6	6.4	56	64	10-108	12	25	
bis(2-Chloroisopropyl) ether	ug/L	ND	10	10	5.8	6.5	58	65	10-110	11	25	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10	10	13.9	14.5	139	145	43-136	5	25	MH
Butylbenzylphthalate	ug/L	ND	10	10	15.0	16.0	150	160	51-134	6	25	MH
Carbazole	ug/L	ND	10	10	9.0	9.7	90	97	50-114	8	25	
Chrysene	ug/L	ND	10	10	9.5	9.9	95	99	44-121	4	25	
Di-n-butylphthalate	ug/L	1.2	10	10	10.9	12.1	97	109	50-123	11	25	
Di-n-octylphthalate	ug/L	ND	10	10	14.2	15.2	142	152	27-164	7	25	
Dibenz(a,h)anthracene	ug/L	ND	10	10	9.0	9.5	89	94	11-127	5	25	
Dibenzofuran	ug/L	3.3	10	10	10.0	9.8	67	65	22-105	3	25	
Diethylphthalate	ug/L	ND	10	10	7.2	7.5	72	75	38-122	4	25	
Dimethylphthalate	ug/L	ND	10	10	6.7	6.6	67	66	30-121	1	25	
Fluoranthene	ug/L	2.0	10	10	11.0	12.1	90	101	39-124	10	25	
Fluorene	ug/L	11.8	10	10	18.2	17.8	64	60	23-111	2	25	
Hexachloro-1,3-butadiene	ug/L	ND	10	10	5.4	5.6	54	56	10-99	4	25	
Hexachlorobenzene	ug/L	ND	10	10	7.4	8.0	74	80	34-114	8	25	
Hexachlorocyclopentadiene	ug/L	ND	10	10	6.4	6.7	64	67	10-65	5	25	MH
Hexachloroethane	ug/L	ND	10	10	5.6	6.5	56	65	10-128	15	25	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	9.5	10.2	94	101	11-126	7	25	
Isophorone	ug/L	4.0	10	10	10	10.2	60	62	10-102	2	25	
N-Nitroso-di-n-propylamine	ug/L	ND	10	10	8.8	9.5	88	95	10-124	7	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Green Island
Pace Project No.: 30407305

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2107745 2107746

Parameter	Units	30407305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
N-Nitrosodimethylamine	ug/L	ND	10	10	3.8	3.6	38	36	10-72	4	25	
N-Nitrosodiphenylamine	ug/L	38.6	10	10	47.0	46.1	84	75	10-110	2	25	
Naphthalene	ug/L	ND	10	10	9.1	8.7	91	87	10-84	5	25	MH
Nitrobenzene	ug/L	ND	10	10	10.8	11.6	108	116	11-114	7	25	MH
Pentachlorophenol	ug/L	ND	10	10	12.3	13.4	123	134	10-175	9	25	
Phenanthrene	ug/L	4.8	10	10	12.0	12.8	72	80	34-117	6	25	
Phenol	ug/L	ND	10	10	3.0	3.4	30	34	10-46	12	25	
Pyrene	ug/L	6.9	10	10	15.1	15.4	82	85	35-127	2	25	
2,4,6-Tribromophenol (S)	%.						95	101	10-140			
2-Fluorobiphenyl (S)	%.						53	70	10-135			
2-Fluorophenol (S)	%.						34	39	10-142			
Nitrobenzene-d5 (S)	%.						135	139	10-140			
Phenol-d6 (S)	%.						28	31	10-145			
Terphenyl-d14 (S)	%.						82	82	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Green Island
Pace Project No.: 30407305

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1c	Sample processed by low volume extraction. The entire 1L container was not processed.
2c	The PDS recovery was outside of the laboratory control limits. Result may be biased high
3c	The PDS recovery was outside of the laboratory control limits. Result may be biased low.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Green Island
Pace Project No.: 30407305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30407305001	**MW-33**	EPA 3005A	436401	EPA 6010C	436441
30407305002	**DUP**	EPA 3005A	436401	EPA 6010C	436441
30407305005	**MW-32**	EPA 3005A	436401	EPA 6010C	436441
30407305001	**MW-33**	EPA 3005A	436862	EPA 6010C	436952
30407305002	**DUP**	EPA 3005A	436862	EPA 6010C	436952
30407305005	**MW-32**	EPA 3005A	436862	EPA 6010C	436952
30407305001	**MW-33**	EPA 7470A	436872	EPA 7470A	436900
30407305002	**DUP**	EPA 7470A	436872	EPA 7470A	436900
30407305005	**MW-32**	EPA 7470A	436872	EPA 7470A	436900
30407305001	**MW-33**	EPA 7470A	436873	EPA 7470A	436901
30407305002	**DUP**	EPA 7470A	436873	EPA 7470A	436901
30407305005	**MW-32**	EPA 7470A	436873	EPA 7470A	436901
30407305001	**MW-33**	EPA 3510C	436607	EPA 8270D	436740
30407305002	**DUP**	EPA 3510C	436607	EPA 8270D	436740
30407305005	**MW-32**	EPA 3510C	436607	EPA 8270D	436740

Pace Analytical®
www.pacelabs.com

To Pittsburgh

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1819759

Section A Required Client Information:

Company: Envirospec Engineering
Address: 349 Northern Blvd. Suite 3
Albany, NY 12204
Email To: RFarnum@envirospec eng.com
Phone: 518-453-2203 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Rachel Farnum
Copy To:
Purchase Order No.:
Project Name: Green Island
Project Number:

Section C Invoice Information:

Attention: Adam Schultz
Company Name: Cosich White
Address: P.O. Box 22222 Albany, NY
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Total Metals 6010/7470	Dissolved Metals 6010/7470	SVOCs by 8270	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-33	WT				2/22/21	13:40		4									X	X	X		001
2	DUP	WT				2/22/21	13:40		4									X	X	X		002
3	MS	WT				2/22/21	13:40		4									X	X	X		003
4	MSD	WT				2/22/21	13:40		4									X	X	X		004
5	MW-32	WT				2/22/21	14:30		4									X	X	X		005
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Requested Analysis Filtered (Y/N)

WO# : 30407305

30407305

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Lab filtration required for dissolved Metals	Thomas Kasseno / Envirospec	2/23/21	13:40	PACE	2-23-21	1340				
	PACE	2-23-21	1600		2-24-21	1130	4.2	Y	N	Y
TO Pittsburgh										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Greensburg Lab -Sample Container Count

Pace Analytical®

Client: Envirospec Engineering

Site: Green Island

Profile Number: 8002

Notes:

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	AG1U
1	WT																1		1										2
2																	1		1										2
3																	1		1										2
4																	1		1										2
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

WO# : 30407305

PM: SMB Due Date: 03/03/21

CLIENT: ENVIROSPEC

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosul
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserve
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

Plastic / Misc.

GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250ml plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag

WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: EnviroSpec   Project # 30407305

Label	MM
LIMS Login	WPT

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other ______

Tracking #: 409499014167

Custody Seal on Cooler/Box Present: ☐ yes ☑ no   Seals intact: ☐ yes ☑ no

Thermometer Used: 9   Type of Ice: Wet Blue None

Cooler Temperature   Observed Temp 4.8 °C   Correction Factor: 0 °C   Final Temp: 4.8 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# 10D11d	Date and Initials of person examining contents: MM 2-24-21
Chain of Custody Present:	✓			1.	
Chain of Custody Filled Out:	✓			2.	
Chain of Custody Relinquished:	✓			3.	
Sampler Name & Signature on COC:		✓		4.	
Sample Labels match COC:	✓			5.	
-Includes date/time/ID Matrix: WT					
Samples Arrived within Hold Time:	✓			6.	
Short Hold Time Analysis (<72hr remaining):		✓		7.	
Rush Turn Around Time Requested:		✓		8.	
Sufficient Volume:	✓			9.	
Correct Containers Used:	✓			10.	
-Pace Containers Used:	✓				
Containers Intact:	✓			11.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous sample field filtered			✓	13.	
Organic Samples checked for dechlorination:	✓			14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed MM / Lot # of added preservative	Date/time of preservation
Headspace in VOA Vials (>6mm):			✓	17.	
Trip Blank Present:		✓		18.	
Trip Blank Custody Seals Present			✓		
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed MM	Date: 2-24-21 / Survey Meter SN:

Client Notification/ Resolution:

Person Contacted: ____________ Date/Time: ____________ Contacted By: ____________

Comments/ Resolution: ____________

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.