APPENDIX A DATA USABILITY SUMMARY REPORT FOURTH QUARTER 2017

HEMPSTEAD INTERSECTION STREET FORMER MGP SITE VILLAGES OF GARDEN CITY AND HEMPSTEAD LONG ISLAND, NEW YORK

Analyses Performed by: PACE ANALYTICAL

Prepared For:

NATIONAL GRID 175 EAST OLD COUNTRY RD. HICKSVILLE, NY 11801

Prepared by:

URS CORPORATION 257 WEST GENESEE STREET, SUITE 400 BUFFALO, NY 14202-2657

February 2018

TABLE OF CONTENTS

I.	INTRODUCTION
II.	ANALYTICAL METHODOLOGIES AND DATA VALIDATIONA-1
III.	DATA DELIVERABLE COMPLETENESS
IV.	SAMPLE RECEIPT/PRESERVATION/HOLDING TIMESA-2
V.	NON-CONFORMANCES
VI.	SAMPLE RESULTS AND REPORTING
VII.	SUMMARY

TABLES

(Following Text)

Table A-1	Validated Groundwater Sample Analytical Results
Table A-2	Validated Field QC Sample Analytical Results

APPENDICES

(Following Tables)

- Attachment A Validated Form 1's
- Attachment B Support Documentation

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and Development of Data Usability Summary Reports*, May 2010.

This DUSR discusses the usability of the analytical data for twenty-nine (29) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and five (5) trip blanks collected by URS personnel on December 18-28, 2017. The groundwater samples were collected as part of the 2017 4th quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

The samples were analyzed by Pace Analytical for the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) USEPA Method SW8260C and
- Polynuclear aromatic hydrocarbons (PAHs) USEPA Method SW8270D.

A limited data validation was performed on the samples in accordance with the guidelines presented in the following USEPA Region II documents:

- Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C, SOP HW-24, Rev. 4, October 2014 and
- Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 4, August 2008.

The limited data validation included a review of completeness of all required deliverables; holding times; quality control (QC) results (instrument tunes, calibration standards, blanks, matrix spike recoveries, field duplicate analyses, laboratory control sample (LCS) recoveries, and surrogate/internal standard

recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

The validated analytical results are presented in Tables A-1 and A-2. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Copies of the chain-of-custodies, case narratives, and documentation supporting the qualification of data are presented in Attachment B. Only problems affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-ofcustody (COC), except for the following instance.

The cooler temperature associated with samples collected on 12/22/17 was above the QC limits of 4° ± 2° C. The samples were received at the laboratory on the same day they were collected, hence, there was insufficient time for the samples to cool down during transit. No further qualification of the data was deemed necessary.

All samples were analyzed within the required holding times.

V. **NON-CONFORMANCES**

The BTEX matrix duplicate analysis associated with sample HIMW-014I exhibited a relative percent difference (RPD) exceedance for benzene. The benzene result for sample HIMW-014I was qualified 'J'. Support documentation (i.e., Form III VOA-1) is presented in Attachment B.

The PAH MS/MSD analyses associated with sample HIMW-08S exhibited RPD exceedances for all PAHs. This may have been a result of the laboratory spiking the MS at 50 ppb and the MSD at 15 ppb. Typically, the MS and MSD are spiked at the same level. Since the percent recoveries for the MS/ MSD and corresponding LCS were within QC limits, no further qualification of the data was deemed necessary.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample size and dilution factors. Results detected below the quantitation limits were qualified 'J' by the laboratory, while results reported from secondary dilution analyses were qualified 'D'.

Field duplicates were collected from monitoring well locations HIMW-013D and HIMW-026D, which exhibited good field and analytical precision.

VII. **SUMMARY**

All sample analyses were found to be compliant with the method and validation criteria, and the data are usable as reported. Those results qualified 'J' (estimated) during the data review are considered conditionally usable. URS does not recommend the re-collection of any samples at this time.

etu R. Fauln **Prepared By:** Peter R. Fairbanks, Senior Chemist **Reviewed By:** George E. Kisluk, Senior Chemist

Date: 3/20/18 Date: 3/20/12

A-3

J/Projects/11175065 00000/WORD/DRAFT/Quarterly&Annual Data Reports/2017 Annual Report/App A - DUSR/Hempstead DUSR -

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D The sample results are reported from a separate secondary dilution analysis.
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Location ID			HIMW-003D		HIMW-003S	HIMW-005D	HIMW-005I HIMW-05I
Sample ID	HIMW-03D	HIMW-03I	HIMW-03S	HIMW-05D			
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (f	-		-	-	-	-	-
Date Sampled			12/20/17	12/20/17	12/20/17	12/27/17	12/27/17
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	3.1	1.0 U
Ethylbenzene	UG/L	-	1.0 U				
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	2.8	1.0 U
Xylene (total)	UG/L	-	2.0 U	2.0 U	2.0 U	57.4	56.4
Total BTEX	UG/L	100	ND	ND	ND	63.3	56.4
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	214 DJ	330 D
Acenaphthene	UG/L	-	5.0 U	5.0 U	5.0 U	4.7 J	14.9
Acenaphthylene	UG/L	-	5.0 U	5.0 U	5.0 U	68.2	297 D
Anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	3.0 J
Benzo(a)anthracene	UG/L	-	5.0 U				
Benzo(a)pyrene	UG/L	-	5.0 U				
Benzo(b)fluoranthene	UG/L	-	5.0 U				
Benzo(g,h,i)perylene	UG/L	-	5.0 U				
Benzo(k)fluoranthene	UG/L	-	5.0 U				
Chrysene	UG/L	-	5.0 U				
Dibenz(a,h)anthracene	UG/L	-	5.0 U				
Fluoranthene	UG/L	-	5.0 U				
Fluorene	UG/L	-	5.0 U	5.0 U	5.0 U	9.3	34.4
Indeno(1,2,3-cd)pyrene	UG/L	-	5.0 U				
Naphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	1,550 D	1,710 D
Phenanthrene	UG/L	-	5.0 U	5.0 U	5.0 U	1.0 J	21.8
Pyrene	UG/L	-	5.0 U				
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	1,847.2	2,411.1

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

 ${\sf J}\,$ - The reported concentration is an estimated value.

U - Not detected above the reported quantitation limit. NA - Not Analyzed ND - not Detected

Location ID			HIMW-005S HIMW-008D	HIMW-008I	HIMW-008S	HIMW-012S	
Sample ID			HIMW-05S	HIMW-08D	HIMW-08I	HIMW-08S	HIMW-12S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (-		-	-	-	-	-
Date Sampled	-		12/27/17	12/26/17	12/26/17	12/26/17	12/22/17
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	25.0	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	2.7	1.0 U
Xylene (total)	UG/L	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	UG/L	100	ND	ND	ND	27.7	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	UG/L	-	5.0 U	5.0 U	5.0 U	1.6 J	5.0 U
Anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	UG/L	-	5.0 U	5.0 U	5.0 U	3.6 J	5.0 U
Pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	5.2	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

 ${\sf J}\,$ - The reported concentration is an estimated value.

U - Not detected above the reported quantitation limit. NA - Not Analyzed ND - not Detected

Location ID Sample ID			HIMW-013D HIMW-013D DUP20171221 HIMW-13D	HIMW-013I	HIMW-013S	HIMW-014D	
				HIMW-13D	HIMW-13I	HIMW-13S	HIMW-14D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (i	-		-	-	-	-	-
Date Sampled		_	12/21/17	12/21/17	12/21/17	12/19/17	12/21/17
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
Benzene	UG/L	-	1.4	1.3	0.43 J	1.0 U	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	UG/L	100	1.4	1.3	0.43	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthene	UG/L	-	4.6 J	4.7 J	5.0 U	5.0 U	5.0 U
Acenaphthylene	UG/L	-	9.9	10	5.0 U	5.0 U	5.0 U
Anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	14.5	14.7	ND	ND	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

 ${\sf J}\,$ - The reported concentration is an estimated value.

U - Not detected above the reported quantitation limit. NA - Not Analyzed ND - not Detected

Location ID			HIMW-014I		HIMW-015I	HIMW-020I	HIMW-020S
Sample ID	HIMW-14I	HIMW-15D	HIMW-15I	HIMW-20I	HIMW-20S		
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (1	-		-	-	-	-	-
Date Sampled	-		12/20/17	12/19/17	12/19/17	12/27/17	12/27/17
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	2.4 J	1.0 U	3.9	3.9	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	28.3	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	2.6	1.0 U
Xylene (total)	UG/L	-	2.0 U	2.0 U	2.0 U	153	2.0 U
Total BTEX	UG/L	100	2.4	ND	3.9	187.8	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	9.8	5.0 U
Acenaphthene	UG/L	-	8.2	5.0 U	5.0 U	13.6	5.0 U
Acenaphthylene	UG/L	-	11.1	5.0 U	5.4	225 D	5.0 U
Anthracene	UG/L	-	0.64 J	5.0 U	5.0 U	3.3 J	5.0 U
Benzo(a)anthracene	UG/L	-	5.0 U				
Benzo(a)pyrene	UG/L	-	5.0 U				
Benzo(b)fluoranthene	UG/L	-	5.0 U				
Benzo(g,h,i)perylene	UG/L	-	5.0 U				
Benzo(k)fluoranthene	UG/L	-	5.0 U				
Chrysene	UG/L	-	5.0 U				
Dibenz(a,h)anthracene	UG/L	-	5.0 U				
Fluoranthene	UG/L	-	5.0 U				
Fluorene	UG/L	-	3.1 J	5.0 U	5.0 U	25.1	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	-	5.0 U				
Naphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	158 D	5.0 U
Phenanthrene	UG/L	-	2.8 J	5.0 U	5.0 U	30.2	5.0 U
Pyrene	UG/L	-	5.0 U				
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	25.84	ND	5.4	465	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

 ${\sf J}\,$ - The reported concentration is an estimated value.

U - Not detected above the reported quantitation limit. NA - Not Analyzed ND - not Detected

Location ID	HIMW-022	HIMW-023	HIMW-024	HIMW-025	HIMW-026D		
Sample ID	HIMW-22	HIMW-23	HIMW-24	HIMW-25	DUP20171228		
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Depth Interval (1	-		-	-	-	-	-
Date Sampled	-		12/19/17	12/18/17	12/22/17	12/22/17	12/28/17
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	591 D	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	17.4	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	3.5	2.2
Xylene (total)	UG/L	-	2.0 U	2.0 U	2.0 U	217	97.1
Total BTEX	UG/L	100	ND	ND	ND	828.9	99.3
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	5.0 U	5.0 U	5.0 U	13.8	299 D
Acenaphthene	UG/L	-	5.0 U	5.0 U	5.0 U	2.6 J	7.0
Acenaphthylene	UG/L	-	5.0 U	5.0 U	5.0 U	27.2	142 DJ
Anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	1.3 J
Benzo(a)anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	UG/L	-	5.0 U	5.0 U	5.0 U 5.0 U	3.1 J	18.3 5.0 U
	UG/L	-	5.0 U	5.0 U		5.0 U	
Naphthalene Phenanthrene	UG/L	-	5.0 U	5.0 U	5.0 U	460 D	1,830 D
	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	16.6
Pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	506.7	2,314.2

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

 ${\sf J}\,$ - The reported concentration is an estimated value.

U - Not detected above the reported quantitation limit. NA - Not Analyzed ND - not Detected

Location ID Sample ID			HIMW-026D		HIMW-027I	HIMW-027S	HIMW-028I HIMW-28I
			HIMW-26D	HIMW-26I	HIMW-27I	HIMW-27S	
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (1	-		-	-	-	-	-
Date Sampled			12/28/17	12/28/17	12/28/17	12/28/17	12/27/17
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	7.2	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	373 D	1.0 U
Toluene	UG/L	-	2.3	1.0 U	1.0 U	8.9	1.0 U
Xylene (total)	UG/L	-	103	2.0 U	2.0 U	408 D	2.0 U
Total BTEX	UG/L	100	105.3	ND	ND	797.1	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	257 D	5.0 U	5.0 U	259 D	5.0 U
Acenaphthene	UG/L	-	7.1	5.0 U	5.0 U	117 DJ	5.0 U
Acenaphthylene	UG/L	-	137 DJ	5.0 U	5.0 U	5.9	5.0 U
Anthracene	UG/L	-	1.2 J	5.0 U	5.0 U	11.9	5.0 U
Benzo(a)anthracene	UG/L	-	5.0 U				
Benzo(a)pyrene	UG/L	-	5.0 U				
Benzo(b)fluoranthene	UG/L	-	5.0 U				
Benzo(g,h,i)perylene	UG/L	-	5.0 U				
Benzo(k)fluoranthene	UG/L	-	5.0 U				
Chrysene	UG/L	-	5.0 U				
Dibenz(a,h)anthracene	UG/L	-	5.0 U				
Fluoranthene	UG/L	-	5.0 U	5.0 U	5.0 U	3.1 J	5.0 U
Fluorene	UG/L	-	18.6	5.0 U	5.0 U	57.3	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	-	5.0 U				
Naphthalene	UG/L	-	1,700 D	5.0 U	5.0 U	1,300 D	5.0 U
Phenanthrene	UG/L	-	16.8	5.0 U	5.0 U	65.8	5.0 U
Pyrene	UG/L	-	5.0 U	5.0 U	5.0 U	4.1 J	5.0 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	2,137.7	ND	ND	1,824.1	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

D - Result reported from a secondary dilution analysis.

 ${\sf J}\,$ - The reported concentration is an estimated value.

U - Not detected above the reported quantitation limit. NA - Not Analyzed ND - not Detected

TABLE A-1 VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS 4TH QUARTER 2017

NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID	HIMW-028S		
Sample ID	HIMW-28S		
Matrix	Groundwater		
Depth Interval (f	-		
Date Sampled	12/27/17		
Parameter			
Volatile Organic Compounds			
Benzene	UG/L	-	2.4
Ethylbenzene	UG/L	-	113
Toluene	UG/L	-	1.2
Xylene (total)	UG/L	-	9.3
Total BTEX	UG/L	100	125.9
Semivolatile Organic Compounds			
2-Methylnaphthalene	UG/L	-	156 D
Acenaphthene	UG/L	-	40.1
Acenaphthylene	UG/L	-	2.0 J
Anthracene	UG/L	-	5.0 J
Benzo(a)anthracene	UG/L	-	5.0 U
Benzo(a)pyrene	UG/L	-	5.0 U
Benzo(b)fluoranthene	UG/L	-	5.0 U
Benzo(g,h,i)perylene	UG/L	-	5.0 U
Benzo(k)fluoranthene	UG/L	-	5.0 U
Chrysene	UG/L	-	5.0 U
Dibenz(a,h)anthracene	UG/L	-	5.0 U
Fluoranthene	UG/L	-	5.0 U
Fluorene	UG/L	-	23.3
Indeno(1,2,3-cd)pyrene	UG/L	-	5.0 U
Naphthalene	UG/L	-	471 D
Phenanthrene	UG/L	-	23.5
Pyrene	UG/L	-	1.1 J
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	722

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

C

D - Result reported from a secondary dilution analysis.

 ${\sf J}\,$ - The reported concentration is an estimated value.

U - Not detected above the reported quantitation limit. NA - Not Analyzed ND - not Detected Made By_PRF 02/15/18_; Checked By_AMK 02/15/18_

Detection Limits shown are PQL

Location ID Sample ID			FIELDQCFIELDQCTB 20171219TB20171221	FIELDQC	FIELDQC	FIELDQC	FIELDQC FB20171228
				TB20171221	TB20171222	TB20171227	
Matrix			Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (1	it)		-	-	-	-	-
Date Sampled			12/19/17	12/21/17	12/22/17	12/27/17	12/28/17
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Field Blank (1-1)
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	UG/L	100	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	5.0 U
Acenaphthene	UG/L	-	NA	NA	NA	NA	5.0 U
Acenaphthylene	UG/L	-	NA	NA	NA	NA	5.0 U
Anthracene	UG/L	-	NA	NA	NA	NA	5.0 U
Benzo(a)anthracene	UG/L	-	NA	NA	NA	NA	5.0 U
Benzo(a)pyrene	UG/L	-	NA	NA	NA	NA	5.0 U
Benzo(b)fluoranthene	UG/L	-	NA	NA	NA	NA	5.0 U
Benzo(g,h,i)perylene	UG/L	-	NA	NA	NA	NA	5.0 U
Benzo(k)fluoranthene	UG/L	-	NA	NA	NA	NA	5.0 U
Chrysene	UG/L	-	NA	NA	NA	NA	5.0 U
Dibenz(a,h)anthracene	UG/L	-	NA	NA	NA	NA	5.0 U
Fluoranthene	UG/L	-	NA	NA	NA	NA	5.0 U
Fluorene	UG/L	-	NA	NA	NA	NA	5.0 U
Indeno(1,2,3-cd)pyrene	UG/L	-	NA	NA	NA	NA	5.0 U
Naphthalene	UG/L	-	NA	NA	NA	NA	5.0 U
Phenanthrene	UG/L	-	NA	NA	NA	NA	5.0 U
Pyrene	UG/L	-	NA	NA	NA	NA	5.0 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA	NA	NA	NA	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

ć

U - Not detected above the reported quantitation limit.

NA - The sample was not analyzed for this parameter. ND - Not detected. Made By_PRF 02/15/18_; Checked By_AMK 02/15/18_

TABLE A-2 VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS 4TH QUARTER 2017

Location ID			FIELDQC
Sample ID	TB20171228		
Matrix	Water Quality		
Depth Interval (ff	-		
Date Sampled	12/28/17		
Parameter	Trip Blank (1-1)		
Volatile Organic Compounds			
Benzene	UG/L	-	1.0 U
Ethylbenzene	UG/L	-	1.0 U
Toluene	UG/L	-	1.0 U
Xylene (total)	UG/L	-	2.0 U
Total BTEX	UG/L	100	ND
Semivolatile Organic Compounds			
2-Methylnaphthalene	UG/L	-	NA
Acenaphthene	UG/L	-	NA
Acenaphthylene	UG/L	-	NA
Anthracene	UG/L	-	NA
Benzo(a)anthracene	UG/L	-	NA
Benzo(a)pyrene	UG/L	-	NA
Benzo(b)fluoranthene	UG/L	-	NA
Benzo(g,h,i)perylene	UG/L	-	NA
Benzo(k)fluoranthene	UG/L	-	NA
Chrysene	UG/L	-	NA
Dibenz(a,h)anthracene	UG/L	-	NA
Fluoranthene	UG/L	-	NA
Fluorene	UG/L	-	NA
Indeno(1,2,3-cd)pyrene	UG/L	-	NA
Naphthalene	UG/L	-	NA
Phenanthrene	UG/L	-	NA
Pyrene	UG/L	-	NA
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

NA - The sample was not analyzed for this parameter. ND - Not detected. Made By_PRF 02/15/18_; Checked By_AMK 02/15/18_

ATTACHMENT A

VALIDATED FORM 1'S



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-03S	Lab ID: 703	8591007	Collected: 12/20/	17 08:35	Received: 12	2/21/17 16:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Met	hod: EPA 82	70D Preparation M	ethod: E	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1		12/27/17 13:56		
Fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	193-39-5	
2-Methyinaphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 13:56	85-01-8	
Pyrene	<5.0	ug/L	5.0	1		12/27/17 13:56		
Surrogates		- 0			3			
Nitrobenzene-d5 (S)	66	%	35-114	1	12/26/17 10:55	12/27/17 13:56	4165-60-0	
2-Fluorobiphenyl (S)	86	%	43-116	1	12/26/17 10:55	12/27/17 13:56	321-60-8	
p-Terphenyl-d14 (S)	65	%	33-141	1	12/26/17 10:55	12/27/17 13:56	1718-51-0	
Phenol-d5 (S)	32	%	10-110	1	12/26/17 10:55	12/27/17 13:56	4165-62-2	
2-Fluorophenol (S)	50	%	21-110	1	12/26/17 10:55	12/27/17 13:56	367-12-4	
2,4,6-Tribromophenol (S)	93	%	10-123	1	12/26/17 10:55	12/27/17 13:56	118-79-6	
2-Chlorophenol-d4 (S)	85	%	33-110	1	12/26/17 10:55	12/27/17 13:56	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	78	%	16-110	1	12/26/17 10:55	12/27/17 13:56	2199-69-1	
8260C Volatile Organics	Analytical Met	hod: EPA 82	60C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/28/17 10:45	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 10:45	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 10:45	108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/28/17 10:45	1330-20-7	
Surrogates	440	0/	60 450	4		40/00/17 40.45	17060 07 0	
1,2-Dichloroethane-d4 (S)	112	%	68-153	1		12/28/17 10:45		
4-Bromofluorobenzene (S)	103	%	79-124	1		12/28/17 10:45		
Toluene-d8 (S)	99	%	69-124	1		12/28/17 10:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Barto MSSV Analytical Method: EPA 8270D Preparation Method: EPA 3510C Acenaphthene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 83-32-9 Acenaphthylene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 208-96-8 Anthracene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 50-32-8 Benzo(a)pyrene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 50-32-8 Benzo(a)pyrene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 50-32-8 Benzo(a)fluoranthene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 181-44-2 Benzo(a)fluoranthene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 180-19 Dibenz(a,h)anthracene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 180-57-6 Negativaline <6.0 ug/L 5.	Sample: HIMW-03I	Lab ID: 7	7038591008	Collected: 12/20/1	17 12:00	Received: 12	2/21/17 16:15	Matrix: Water	
Acenaphthene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 83-32-9 Acenaphthylene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 209-96-8 Anthracene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 50-55-3 Benzo(a)pytene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 50-32-8 Benzo(g)nuonathene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 207-98-9-2 Benzo(g)nuonathene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 207-08-9 Chrysene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 207-08-9 Fluoranthene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 207-08-9 Ademaphthylene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 187-32 Puterot	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Acenaphthylene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 208-96-8 Anthracene <5.0	8270 MSSV	Analytical N	/lethod: EPA 8	270D Preparation Me	ethod: E	PA 3510C			
Anthracene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 12/27/17 Benzo(a)prome <5.0	Acenaphthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	83-32-9	
Benzo(a)anthracene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 56-55-3 Benzo(a)pyrene <6.0	Acenaphthylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	208-96-8	3.M
Benzo(a)pyrene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 50-32-8 Benzo(a)piluoranthene <5.0	Anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	120-12-7	
Benzo(b)fluoranthene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 205-99-2 Benzo(b)fluoranthene <5.0	Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	56-55-3	
Benzo(g,h.i)perylene <5.0	Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	50-32-8	
Benzo(k)fuoranthene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 207-08-9 Chrysene <5.0	Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	205-99-2	
Benzo(k)fluoranthene <5.0	Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	191-24-2	
Chrysene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 218-01-9 Dibenz(a,h)anthracene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 206-44-0 Fluorente <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 206-44-0 Fluorente <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 206-44-0 Fluorente <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-57-6 Aughthalene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-57-6 Naphthalene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-57-6 Surrogates Surrogates Surrogates 1 12/26/17 10:55 12/27/17 14:23 91-57-6 Pitrobenzhened(S) 61 % 35-114 1 12/26/17 10:55 12/27/17 14:23 91-57-6 Surrogates Surrogates Surrogates Surrogates Surrogates 12/26/17 10:55 12/27/17	Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	207-08-9	
Dibenz(a,h)anthracene <6.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 53-70-3 Fluoranthene <6.0	Chrysene	<5.0		5.0	1	12/26/17 10:55	12/27/17 14:23	218-01-9	
Fluoranthene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 206-44-0 Fluorene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 86-73-7 Indeno(1,2,3-cd)pyrene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-39-5 Amethylnaphthalene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-57-6 Naphthalene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-50-3 Surrogates 1 12/26/17 10:55 12/27/17 14:23 91-60-3 Surrogates 1 12/26/17 10:55 12/27/17 14:23 91-60-3 Surrogates 1 12/26/17 10:55 12/27/17 14:23 91-60-3 P-Terphenyl-d14 (S) 68 % 35-114 1 12/26/17 10:55 12/27/17 14:23 91-60-8 P-Terphenyl-d14 (S) 68 % 35-116 1 12/26/17 10:55 12/27/17 14:23 91-60-8 P-Terphenyl-d14 (S) 68 % <t< td=""><td>Dibenz(a,h)anthracene</td><td><5.0</td><td></td><td>5.0</td><td>1</td><td>12/26/17 10:55</td><td>12/27/17 14:23</td><td>53-70-3</td><td></td></t<>	Dibenz(a,h)anthracene	<5.0		5.0	1	12/26/17 10:55	12/27/17 14:23	53-70-3	
Indeno(1,2,3-cd)pyrene <5.0		<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	206-44-0	
Z-Methylnaphthalene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-57-6 Naphthalene <5.0	Fluorene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	86-73-7	
2-Methylnaphthalene <5.0	Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	193-39-5	
Naphthalene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 91-20-3 Phenanthrene <5.0		<5.0		5.0	1	12/26/17 10:55	12/27/17 14:23	91-57-6	
Phenanthrene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 85-01-8 Pyrene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 129-00-0 Surrogates 1 12/26/17 10:55 12/27/17 14:23 36-60-0 Surrogates 3 1 1 12/26/17 10:55 12/27/17 14:23 321-60-8 P-Terphenyl-(14 (S) 68 % 33-111 1 12/26/17 10:55 12/27/17 14:23 31-60-8 P-Terphenyl-(14 (S) 68 % 33-111 1 12/26/17 10:55 12/27/17 14:23 367-62-2 2-Fluorophenol (S) 47 % 21-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2-A-Ghirophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2-Chlorophenol-d4 (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 30951-73-6 3-2-Dichlorobenzene-d4 (S)		<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:23	91-20-3	
Pyrene <5.0 ug/L 5.0 1 12/26/17 10:55 12/27/17 14:23 129-00-0 Surrogates Nitrobenzene-d5 (S) 61 % 35-114 1 12/26/17 10:55 12/27/17 14:23 321-60-8 2-Fluorobiphenyl (S) 77 % 43-116 1 12/26/17 10:55 12/27/17 14:23 321-60-8 P-Terphenyl-d14 (S) 68 % 33-141 1 12/26/17 10:55 12/27/17 14:23 316-62-2 2-Fluorobiphenyl (S) 30 % 10-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2-Fluorophenol (S) 47 % 21-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2-Chlorophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2-Chlorophenol-d4 (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 369-17-3-6 3-2-Dichlorobenzene-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 30951-73-6 8-260C Volatile Organics Analytical Method: EPA 8	•	<5.0		5.0	1	12/26/17 10:55	12/27/17 14:23	85-01-8	
Surrogates Nitrobenzene-d5 (S) 61 % 35-114 1 12/26/17 10:55 12/27/17 14:23 4165-60-0 2-Fluorobiphenyl (S) 77 % 43-116 1 12/26/17 10:55 12/27/17 14:23 321-60-8 p-Terphenyl-d14 (S) 68 % 33-141 1 12/26/17 10:55 12/27/17 14:23 321-60-8 Phenol-d5 (S) 30 % 10-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2-Fluorophenol (S) 47 % 21-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2.4, 6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2.4, 6-Tribromophenol (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 39551-73-6 1,2-Dichlorobenzene-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C 1 12/28/17 11:03 71-43-2 Ethylbenzene <1.0	Pyrene	<5.0		5.0	1	12/26/17 10:55	12/27/17 14:23	129-00-0	
2-Fluorobiphenyl (S) 77 % 43-116 1 12/26/17 10:55 12/27/17 14:23 321-60-8 p-Terphenyl-d14 (S) 68 % 33-141 1 12/26/17 10:55 12/27/17 14:23 1718-51-0 Phenol-d5 (S) 30 % 10-110 1 12/26/17 10:55 12/27/17 14:23 4165-62-2 2-Fluorophenol (S) 47 % 21-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol-44 (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 39951-73-6 1,2-Dichlorobenzene-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C 1 12/28/17 11:03 71-43-2 Ethylbenzene <1.0	•		-						
p-Terphenyl-d14 (S) 68 % 33-141 1 12/26/17 10:55 12/27/17 14:23 1718-51-0 Phenol-d5 (S) 30 % 10-110 1 12/26/17 10:55 12/27/17 14:23 4165-62-2 2-Fluorophenol (S) 47 % 21-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 39351-73-6 2-Chlorophenol-d4 (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C 8 8 8 10-11 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C 8 8 10-41-4 10 1 12/28/17 11:03 100-41-4 Toluene <1.0	Nitrobenzene-d5 (S)	61	%	35-114	1	12/26/17 10:55	12/27/17 14:23	4165-60-0	
Phenol-d5 (S) 30 % 10-110 1 12/26/17 10:55 12/27/17 14:23 4165-62-2 2-Fluorophenol (S) 47 % 21-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 93951-73-6 2-Chlorophenol-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C Benzene <1.0	2-Fluorobiphenyl (S)	77	%	43-116	1	12/26/17 10:55	12/27/17 14:23	321-60-8	
2-Fluorophenol (S) 47 % 21-110 1 12/26/17 10:55 12/27/17 14:23 367-12-4 2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 118-79-6 2-Chlorophenol-d4 (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 93951-73-6 1,2-Dichlorobenzene-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C Benzene <1.0	p-Terphenyl-d14 (S)	68	%	33-141	1	12/26/17 10:55	12/27/17 14:23	1718-51-0	
2,4,6-Tribromophenol (S) 89 % 10-123 1 12/26/17 10:55 12/27/17 14:23 118-79-6 2-Chlorophenol-d4 (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 93951-73-6 1,2-Dichlorobenzene-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C Benzene <1.0	Phenol-d5 (S)	30	%	10-110	1	12/26/17 10:55	12/27/17 14:23	4165-62-2	
2-Chlorophenol-d4 (S) 74 % 33-110 1 12/26/17 10:55 12/27/17 14:23 93951-73-6 1,2-Dichlorobenzene-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C Benzene <1.0	2-Fluorophenol (S)	47	%	21-110	1	12/26/17 10:55	12/27/17 14:23	367-12-4	
1,2-Dichlorobenzene-d4 (S) 71 % 16-110 1 12/26/17 10:55 12/27/17 14:23 2199-69-1 8260C Volatile Organics Analytical Method: EPA 8260C/5030C Benzene <1.0	2,4,6-Tribromophenol (S)	89	%	10-123	1	12/26/17 10:55	12/27/17 14:23	118-79-6	
8260C Volatile Organics Analytical Method: EPA 8260C/5030C Benzene <1.0	2-Chlorophenol-d4 (S)	74	%	33-110	1	12/26/17 10:55	12/27/17 14:23	93951-73-6	
Benzene <1.0 ug/L 1.0 1 12/28/17 11:03 71-43-2 Ethylbenzene <1.0	1,2-Dichlorobenzene-d4 (S)	71	%	16-110	1	12/26/17 10:55	12/27/17 14:23	2199-69-1	
Ethylbenzene <1.0	8260C Volatile Organics	Analytical N	/lethod: EPA 8	260C/5030C					
Toluene <1.0 ug/L 1.0 1 12/28/17 11:03 108-88-3 Xylene (Total) <2.0 ug/L 2.0 1 12/28/17 11:03 1330-20-7 Surrogates 68-153 1 12/28/17 11:03 17060-07-0 4-Bromofluorobenzene (S) 102 % 79-124 1 12/28/17 11:03 460-00-4	Benzene	<1.0	ug/L	1.0	1		12/28/17 11:03	71-43-2	
Xylene (Total) <2.0 ug/L 2.0 1 12/28/17 11:03 1330-20-7 Surrogates 1 1 % 68-153 1 12/28/17 11:03 17060-07-0 1,2-Dichloroethane-d4 (S) 115 % 68-153 1 12/28/17 11:03 17060-07-0 4-Bromofluorobenzene (S) 102 % 79-124 1 12/28/17 11:03 460-00-4	Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 11:03	100-41-4	
Surrogates 1/2-Dichloroethane-d4 (S) 115 % 68-153 1 12/28/17 11:03 17060-07-0 4-Bromofluorobenzene (S) 102 % 79-124 1 12/28/17 11:03 460-00-4	Toluene	<1.0	ug/L	1.0	1		12/28/17 11:03	108-88-3	
1,2-Dichloroethane-d4 (S) 115 % 68-153 1 12/28/17 11:03 17060-07-0 4-Bromofluorobenzene (S) 102 % 79-124 1 12/28/17 11:03 460-00-4		<2.0	ug/L	2.0	1		12/28/17 11:03	1330-20-7	
4-Bromofluorobenzene (S) 102 % 79-124 1 12/28/17 11:03 460-00-4	-	115	%	68-153	1		12/28/17 11.03	17060-07-0	
· -· · · · · · · · · · · · · · · · · ·									
	Toluene-d8 (S)			6 9 -124	1				

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-03D	Lab ID: 70	38591009	Collected: 12/20/1	7 09:35	Received: 12	2/21/17 16:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
B270 MSSV	Analytical Mo	ethod: EPA 8	270D Preparation Me	ethod: E	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 14:51	129-00-0	
Surrogates		-						
Nitrobenzene-d5 (S)	57	%	35-114	1	12/26/17 10:55	12/27/17 14:51	4165-60-0	
2-Fluorobiphenyl (S)	78	%	43-116	1	12/26/17 10:55	12/27/17 14:51	321-60-8	
p-Terphenyl-d14 (S)	74	%	33-141	1	12/26/17 10:55	12/27/17 14:51	1718-51-0	
Phenol-d5 (S)	28	%	10-110	1	12/26/17 10:55	12/27/17 14:51	4165-62-2	
2-Fluorophenol (S)	44	%	21-110	1	12/26/17 10:55	12/27/17 14:51	367-12-4	
2,4,6-Tribromophenol (S)	89	%	10-123	1	12/26/17 10:55	12/27/17 14:51	118-79-6	
2-Chlorophenol-d4 (S)	77	%	33-110	1	12/26/17 10:55	12/27/17 14:51	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	72	%	16-110	1	12/26/17 10:55	12/27/17 14:51	2199-69-1	
8260C Volatile Organics	Analytical Me	ethod: EPA 8	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/28/17 11:21	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 11:21	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 11:21	108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/28/17 11:21	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		12/28/17 11:21	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		12/28/17 11:21	460-00-4	
Toluene-d8 (S)	98	%	69-1 24	1		12/28/17 11:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-05S	Lab ID: 7	039186004	Collected: 12/27/1	7 09:15	Received: 12	2/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical M	ethod: EPA 82	270D Preparation Me	thod: El	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1 8	01/03/18 10:23	01/05/18 12:39	9 191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 206-44-0	
Fluorene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 12:39	9 129-00-0	
Surrogates		-						
Nitrobenzene-d5 (S)	75	%	35-114	1	01/03/18 10:23	01/05/18 12:39	9 4165-60-0	
2-Fluorobiphenyl (S)	78	%	43-116	1	01/03/18 10:23	01/05/18 12:39	321-60-8	
p-Terphenyl-d14 (S)	43	%	33-141	1	01/03/18 10:23	01/05/18 12:39	9 1718-51-0	
Phenol-d5 (S)	32	%	10-110	1	01/03/18 10:23	01/05/18 12:39	4165-62-2	
2-Fluorophenol (S)	45	%	21-110	1	01/03/18 10:23	01/05/18 12:39	367-12-4	
2,4,6-Tribromophenol (S)	111	%	10-123	1	01/03/18 10:23	01/05/18 12:39	9 118-79-6	Е
2-Chlorophenol-d4 (S)	75	%	33-110	1	01/03/18 10:23	01/05/18 12:39	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	72	%	16-110	1	01/03/18 10:23	01/05/18 12:39	2199-69-1	
8260C Volatile Organics	Analytical M	ethod: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 18:47	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 18:47	7 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 18:47	7 108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/31/17 18:47	1330-20-7	
1,2-Dichloroethane-d4 (S)	83	%	68-153	1		12/31/17 18:47	7 17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		12/31/17 18:47		
Toluene-d8 (S)	98	%	69-124	1		12/31/17 18:47		

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-051	Lab ID: 7	039186005	Collected: 12/27/1	7 10:03	Received: 12	2/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical N	lethod: EPA 82	270D Preparation Me	thod: E	PA 3510C			
Acenaphthene	14.9	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	83-32-9	
Acenaphthylene	297	🕡 ug/L	250	50	01/03/18 10:23	01/08/18 17:51	208-96-8	
Anthracene	3.0J	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	206-44-0	
Fluorene	34.4	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	193-39-5	
2-Methylnaphthalene	330	-	250	50	01/03/18 10:23	01/08/18 17:51	91-57-6	
Naphthalene	1710	-	250	50	01/03/18 10:23	01/08/18 17:51	91-20-3	
Phenanthrene	21.8	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 13:35	129-00-0	
Surrogates		5						
Nitrobenzene-d5 (S)	84	%	35-114	1	01/03/18 10:23	01/05/18 13:35	4165-60-0	
2-Fluorobiphenyl (S)	82	%	43-116	1	01/03/18 10:23	01/05/18 13:35	321-60-8	
p-Terphenyl-d14 (S)	60	%	33-141	1	01/03/18 10:23	01/05/18 13:35	1718-51-0	
Phenol-d5 (S)	36	%	10-110	1	01/03/18 10:23	01/05/18 13:35	4165-62-2	
2-Fluorophenol (S)	52	%	21-110	1	01/03/18 10:23	01/05/18 13:35	367-12-4	
2,4,6-Tribromophenol (S)	115	%	10-123	1	01/03/18 10:23	01/05/18 13:35	118-79-6	Е
2-Chlorophenol-d4 (S)	80	%	33-110	1	01/03/18 10:23	01/05/18 13:35	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	72	%	16-110	1	01/03/18 10:23	01/05/18 13:35	2199-69-1	
8260C Volatile Organics	Analytical N	lethod: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 18:26	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 18:26	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 18:26	108-88-3	
Xylene (Total)	56.4	ug/L	2.0	1		12/31/17 18:26		
Surrogates 1,2-Dichloroethane-d4 (S)	79	%	68-153	1		12/31/17 18:26	17060-07.0	
	96	%	79-124	1		12/31/17 18:26		
4-Bromofluorobenzene (S)		%						
Toluene-d8 (S)	94	70	69-124	1		12/31/17 18:26	2037-20-5	

2/15/18

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-05D	Lab D: 70391	86006	Collected: 12/27/1	7 08:40	Received: 12	2/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Metho	d: EPA 82	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	4.7J	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	83-32-9	
Acenaphthylene	68.2	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30) 120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23			
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	206-44-0	
Fluorene	9.3	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:30	193-39-5	
2-Methylnaphthalene	214J 顶	ug/L	250	50	01/03/18 10:23	01/08/18 18:19	91-57-6	
Naphthalene	1550 🏷	ug/L	250	50	01/03/18 10:23			
Phenanthrene	1.0J	ug/L	5.0	1	01/03/18 10:23			
Pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23			
Surrogates								
Nitrobenzene-d5 (S)	87	%	35-114	1	01/03/18 10:23	01/05/18 14:30	4165-60-0	
2-Fluorobiphenyl (S)	85	%	43-116	1	01/03/18 10:23	01/05/18 14:30	321-60-8	
p-Terphenyl-d14 (S)	68	%	33-141	1	01/03/18 10:23	01/05/18 14:30	1718-51-0	
Phenol-d5 (S)	37	%	10-110	1	01/03/18 10:23	01/05/18 14:30	4165-62-2	
2-Fluorophenol (S)	53	%	21-110	1	01/03/18 10:23	01/05/18 14:30	367-12-4	
2,4,6-Tribromophenol (S)	118	%	10-123	1	01/03/18 10:23	01/05/18 14:30	118-79-6	Е
2-Chlorophenol-d4 (S)	84	%	33-110	1	01/03/18 10:23	01/05/18 14:30	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	75	%	16-110	1	01/03/18 10:23	01/05/18 14:30	2199-69-1	
8260C Volatile Organics	Analytical Metho	d: EPA 82	60C/5030C					
Benzene	3.1	ug/L	1.0	1		12/31/17 18:06	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 18:06	100-41-4	
Toluene	2.8	ug/L	1.0	1		12/31/17 18:06	108-88-3	
Xylene (Total)	57.4	ug/L	2.0	1		12/31/17 18:06	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	82	%	68-153	1		12/31/17 18:06		
4-Bromofluorobenzene (S)	94	%	79-124	1		12/31/17 18:06	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		12/31/17 18:06	2037-26-5	

2/10/18

REPORT OF LABORATORY ANALYSIS

Face Analytical www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-08S	Lab ID: 7	039186003	Collected: 12/26/	17 14:15	Received: 12	/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical N	lethod: EPA 8	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	83-32-9	R1
Acenaphthylene	1.6J	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	208-96-8	R1
Anthracene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	120-12-7	R1
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	56-55-3	R1
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	50-32-8	R1
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	205-99-2	R1
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	191-24-2	R1
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	207-08-9	R1
Chrysene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	218-01-9	R1
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	53-70-3	R1
Fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	206-44-0	R1
Fluorene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	86-73-7	R1
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	193-39-5	R1
2-Methylnaphthalene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	91-57-6	R1
Naphthalene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	91-20-3	R1
Phenanthrene	3.6J	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	85-01-8	R1
Pyrene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 21:04	129-00-0	R1
Surrogates		•						
Nitrobenzene-d5 (S)	83	%	35-114	1	01/02/18 16:48	01/03/18 21:04	4165-60-0	
2-Fluorobiphenyl (S)	82	%	43-116	1	01/02/18 16:48	01/03/18 21:04	321-60-8	
p-Terphenyl-d14 (S)	92	%	33-141	1	01/02/18 16:48	01/03/18 21:04	1718-51-0	
Phenol-d5 (S)	25	%	10-110	1	01/02/18 16:48	01/03/18 21:04	4165-62-2	
2-Fluorophenol (S)	36	%	21-110	1	01/02/18 16:48	01/03/18 21:04	367-12-4	
2,4,6-Tribromophenol (S)	105	%	10-123	1	01/02/18 16:48	01/03/18 21:04	118-79-6	
2-Chlorophenol-d4 (S)	72	%	33-110	1	01/02/18 16:48	01/03/18 21:04	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	67	%	16-110	1	01/02/18 16:48	01/03/18 21:04	2199-69-1	
8260C Volatile Organics	Analytical N	lethod: EPA 8	260C/5030C					
Benzene	25.0	ug/L	1.0	1		12/31/17 22:32	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 22:32		
Toluene	2.7	ug/L	1.0	1		12/31/17 22:32	108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/31/17 22:32	1330-20-7	
1,2-Dichloroethane-d4 (S)	80	%	68-153	1		12/31/17 22:32	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-124	1		12/31/17 22:32	460-00-4	
Toluene-d8 (S)	100	%	69-124	1		12/31/17 22:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

ce Analytical www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-081	Lab ID:	7039186002	Collected: 12/26/1	7 12:55	Received: 12	2/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical !	Method: EPA 82	270D Preparation Me	ethod: E	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	83-32-9	
Acenaphthylene	<5.0) ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	208-96-8	
Anthracene	<5.0) ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	120-12-7	
Benzo(a)anthracene	<5.0) ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	91-20-3	
Phenanthrene	<5.0	-	5.0	1	01/02/18 16:48	01/03/18 20:37	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:37	129-00-0	
Surrogates		U						
Nitrobenzene-d5 (S)	83	8 %	35-114	1	01/02/18 16:48	01/03/18 20:37	4165-60-0	
2-Fluorobiphenyl (S)	81	%	43-116	1	01/02/18 16:48	01/03/18 20:37	321-60-8	
p-Terphenyl-d14 (S)	97	′ %	33-141	1	01/02/18 16:48	01/03/18 20:37	1718-51-0	
Phenol-d5 (S)	19) %	10-110	1	01/02/18 16:48	01/03/18 20:37	4165-62-2	
2-Fluorophenol (S)	29) %	21-110	1	01/02/18 16:48	01/03/18 20:37	367-12-4	
2,4,6-Tribromophenol (S)	96	6 %	10-123	1	01/02/18 16:48	01/03/18 20:37	118-79-6	
2-Chlorophenol-d4 (S)	66	i %	33-110	1	01/02/18 16:48	01/03/18 20:37	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	74	%	16-110	1	01/02/18 16:48	01/03/18 20:37	2199-69-1	
8260C Volatile Organics	Analytical !	Method: EPA 82	260C/5030C					
Benzene	<1.0) ug/L	1.0	1		12/31/17 19:07	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 19:07	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 19:07	108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/31/17 19:07	1330-20-7	
1,2-Dichloroethane-d4 (S)	79) %	68-153	1		12/31/17 19:07	17060-07-0	
4-Bromofluorobenzene (S)	95	i %	79-124	1		12/31/17 19:07	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		12/31/17 19:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

Page 8 of 38

ace Analytical www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-08D	Lab ID: 7	039186001	Collected: 12/26/1	7 11:35	Received: 12	2/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical M	lethod: EPA 8	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	207-08-9	
Chrysene	<5.0	ug/L	5.0	1		01/03/18 20:10		
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1		01/03/18 20:10		
Fluoranthene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	01/02/18 16:48	01/03/18 20:10	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1		01/03/18 20:10		
2-Methylnaphthalene	<5.0	ug/L	5.0	1		01/03/18 20:10	-	
Naphthalene	<5.0	ug/L	5.0	1		01/03/18 20:10		
Phenanthrene	<5.0	ug/L	5.0	1		01/03/18 20:10		
Pyrene	<5.0	ug/L	5.0	1		01/03/18 20:10		
Surrogates		-3		•				
Nitrobenzene-d5 (S)	80	%	35-114	1	01/02/18 16:48	01/03/18 20:10	4165-60-0	
2-Fluorobiphenyl (S)	83	%	43-116	1	01/02/18 16:48	01/03/18 20:10	321-60-8	
p-Terphenyl-d14 (S)	95	%	33-141	1	01/02/18 16:48	01/03/18 20:10	1718-51-0	
Phenol-d5 (S)	24	%	10-110	1	01/02/18 16:48	01/03/18 20:10	4165-62-2	
2-Fluorophenol (S)	35	%	21-110	1		01/03/18 20:10		
2,4,6-Tribromophenol (S)	106	%	10-123	1		01/03/18 20:10		
2-Chlorophenol-d4 (S)	68	%	33-110	1		01/03/18 20:10		
1,2-Dichlorobenzene-d4 (S)	66	%	16-110	1		01/03/18 20:10		
8260C Volatile Organics	Analytical M	lethod: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 19:28	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 19:28	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 19:28	108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/31/17 19:28	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	82	%	68-153	1		12/31/17 19:28	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		12/31/17 19:28	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		12/31/17 19:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-12S	Lab ID:	7038591016	Collected: 12/22	/17 09:05	Received: 12	2/22/17 13:48	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical	Method: EPA 82	270D Preparation M	lethod: E	PA 3510C			
Acenaphthene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	i 83-32-9	M1
Acenaphthylene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	5 208-96-8	M1
Anthracene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	i 120-12-7	
Benzo(a)anthracene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	56-55-3	
Benzo(a)pyrene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	50-32-8	
Benzo(b)fluoranthene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	5 205-99-2	
Benzo(g,h,i)perylene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	i 191-24-2	
Benzo(k)fluoranthene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	207-08-9	
Chrysene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	5 218-01-9	
Dibenz(a,h)anthracene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	53-70-3	
Fluoranthene	<5.0) ug/L	5.0	1	12/29/17 14:25	01/03/18 13:25	206-44-0	
Fluorene	<5.0	-	5.0	1	12/29/17 14:25	01/03/18 13:25	6 86-73-7	M1
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1		01/03/18 13:25		
2-Methylnaphthalene	<5.0	-	5.0	1	12/29/17 14:25	01/03/18 13:25	i 91-57-6	
Naphthalene	<5.0	-	5.0	1	12/29/17 14:25	01/03/18 13:25	91-20-3	M1
Phenanthrene	<5.0	-	5.0	1	12/29/17 14:25	01/03/18 13:25	6 85-01-8	
Pyrene	<5.0	•	5.0			01/03/18 13:25		
Surrogates		5						
Nitrobenzene-d5 (S)	78	3 %	35-114	1	12/29/17 14:25	01/03/18 13:25	4165-60-0	
2-Fluorobiphenyl (S)	80) %	43-116	1	12/29/17 14:25	01/03/18 13:25	321-60-8	
p-Terphenyl-d14 (S)	91	I %	33-141	1	12/29/17 14:25	01/03/18 13:25	i 1718-51-0	
Phenol-d5 (S)	1:	5 %	10-110	1	12/29/17 14:25	01/03/18 13:25	4165-62-2	
2-Fluorophenol (S)	25	5 %	21-110	1	12/29/17 14:25	01/03/18 13:25	367-12-4	
2,4,6-Tribromophenol (S)	93	3 %	10-123	1	12/29/17 14:25	01/03/18 13:25	118-79-6	
2-Chlorophenol-d4 (S)	6'	I %	33-110	1	12/29/17 14:25	01/03/18 13:25	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	74	¥ %	16-110	1		01/03/18 13:25		
8260C Volatile Organics	Analytical	Method: EPA 82	260C/5030C					
Benzene	<1.0) ug/L	1.0	1		12/28/17 13:10	71-43-2	
Ethylbenzene	<1.0) ug/L	1.0	1		12/28/17 13:10	100-41-4	
Toluene	<1.() ug/L	1.0	1		12/28/17 13:10	108-88-3	
Xylene (Total) Surrogates	<2.0) ug/L	2.0	1		12/28/17 13:10	1330-20-7	
1,2-Dichloroethane-d4 (S)	118	5 %	68-153	1		12/28/17 13:10	17060-07-0	
4-Bromofluorobenzene (S)	102	2 %	79-124	1		12/28/17 13:10	460-00-4	
Toluene-d8 (S)	99) %	69-124	1		12/28/17 13:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-13S	Lab ID:	7038591004	Collected: 12/19/1	7 12:00	Received: 12	/19/17 16:05	Aatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical M	Method: EPA 82	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:58	129-00-0	
Surrogates		·						
Nitrobenzene-d5 (S)	75	%	35-114	1	12/21/17 13:45	12/22/17 14:58	4165-60-0	
2-Fluorobiphenyl (S)	80	%	43-116	1	12/21/17 13:45	12/22/17 14:58	321-60-8	
p-Terphenyl-d14 (S)	79	%	33-141	1	12/21/17 13:45	12/22/17 14:58	1718-51-0	
Phenol-d5 (S)	33	%	10-110	1	12/21/17 13:45	12/22/17 14:58	4165-62-2	
2-Fluorophenol (S)	49	%	21-110	1	12/21/17 13:45	12/22/17 14:58	367-12-4	
2,4,6-Tribromophenol (S)	93	%	10-123	1	12/21/17 13:45	12/22/17 14:58	118-79-6	
2-Chlorophenol-d4 (S)	77	%	33-110	1	12/21/17 13:45	12/22/17 14:58	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	74	%	16-110	1	12/21/17 13:45	12/22/17 14 58	2199-69-1	
8260C Volatile Organics	Analytical M	Method: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/23/17 00:18	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/23/17 00:18	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/23/17 00:18	108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/23/17 00:18	1330-20-7	
1,2-Dichloroethane-d4 (S)	112	%	68-153	1		12/23/17 00:18	17060-07-0	
4-Bromofluorobenzene (S)	102		79-124	1		12/23/17 00:18		
Toluene-d8 (S)	101		69-124	1		12/23/17 00:18		

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-13I	Lab ID: 703	8591011	Collected: 12/21/1	7 09:10	Received: 12	/21/17 16:15 N	Aatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Met	hod: EPA 8	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 16:44	129-00-0	
Surrogates		-						
Nitrobenzene-d5 (S)	66	%	35-114	1	12/26/17 10:55	12/27/17 16:44	4165-60-0	
2-Fluorobiphenyl (S)	81	%	43-116	1	12/26/17 10:55	12/27/17 16:44	321-60-8	
p-Terphenyl-d14 (S)	78	%	33-141	1	12/26/17 10:55	12/27/17 16:44	1718-51-0	
Phenol-d5 (S)	24	%	10-110	1	12/26/17 10:55	12/27/17 16:44	4165-62-2	
2-Fluorophenol (S)	38	%	21-110	1	12/26/17 10:55	12/27/17 16:44	367-12-4	
2,4,6-Tribromophenol (S)	97	%	10-123	1	12/26/17 10:55	12/27/17 16:44	118-79-6	
2-Chlorophenol-d4 (S)	76	%	33-110	1	12/26/17 10:55	12/27/17 16:44	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	68	%	16-110	1	12/26/17 10:55	12/27/17 16:44	2199-69-1	
8260C Volatile Organics	Analytical Met	nod: EPA 8	260C/5030C					
Benzene	0.43J	ug/L	1.0	1		12/28/17 11:57	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 11:57	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 11:57	108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/28/17 11:57	1330-20-7	
Surrogates	444	0/	60 460	4		10/00/17 14-57	17060 07 0	
1,2-Dichloroethane-d4 (S)	114	%	68-153	1		12/28/17 11:57		
4-Bromofluorobenzene (S)	102	%	79-124	1		12/28/17 11:57		
Toluene-d8 (S)	98	%	69-124	1		12/28/17 11:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

14

ace Analytical[®] www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-13D	Lab ID: 70	38591012	Collected: 12/21/1	7 10:40	Received: 12	2/21/17 16:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV	Analytical Me	thod: EPA 8	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	4.7J	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	83-32-9	
Acenaphthylene	10	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	86-73-7	
ndeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1		12/27/17 17:12		
Naphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	85-01-8	
^{>} yrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 17:12	129-00-0	
Surrogates		•						
Nitrobenzene-d5 (S)	61	%	35-114	1	12/26/17 10:55	12/27/17 17:12	4165-60-0	
2-Fluorobiphenyl (S)	76	%	43-116	1	12/26/17 10:55	12/27/17 17:12	321-60-8	
p-Terphenyl-d14 (S)	74	%	33-141	1	12/26/17 10:55	12/27/17 17:12	1718-51-0	
Phenol-d5 (S)	25	%	10-110	1	12/26/17 10:55	12/27/17 17:12	4165-62-2	
2-Fluorophenol (S)	39	%	21-110	1	12/26/17 10:55	12/27/17 17:12	367-12-4	
2,4,6-Tribromophenol (S)	92	%	10-123	1	12/26/17 10:55	12/27/17 17:12	118-79-6	
2-Chlorophenol-d4 (S)	63	%	33-110	1	12/26/17 10:55	12/27/17 17:12	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	70	%	16-110	1	12/26/17 10:55	12/27/17 17:12	2199-69-1	
8260C Volatile Organics	Analytical Me	thod: EPA 82	260C/5030C					×
Benzene	1.3	ug/L	1.0	1		12/28/17 12:15	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 12:15	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 12:15	108-88-3	
Xylene (Total) S <i>urrogates</i>	<2.0	ug/L	2.0	1		12/28/17 12:15	1330-20-7	
,2-Dichloroethane-d4 (S)	113	%	68-153	1		12/28/17 12:15	17060-07-0	
-Bromofluorobenzene (S)	101	%	79-124	1		12/28/17 12:15		
Toluene-d8 (S)	98	%	69-124	1		12/28/17 12:15		

REPORT OF LABORATORY ANALYSIS



NATIONAL GRID HEMPSTEAD 12/18

Project:

ANALYTICAL RESULTS

Sample: DUP20171221	Lab ID: 703	8591014	Collected: 12/21/17	7 12:00	Received: 12	2/21/17 16:15 N	fatrix: Water	
Parameters Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qu
8270 MSSV	Analytical Met	hod: EPA 82	270D Preparation Met	hod: E	PA 3510C			
Acenaphthene	4.6J	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	83-32-9	
Acenaphthylene	9.9	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1		12/29/17 14:18		
Naphthalene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 14:18	129-00-0	
Surrogates		-						
Nitrobenzene-d5 (S)	47	%	35-114	1	12/28/17 17:18	12/29/17 14:18	4165-60-0	
2-Fluorobiphenyl (S)	69	%	43-116	1	12/28/17 17:18	12/29/17 14:18	321-60-8	
p-Terphenyi-d14 (S)	80	%	33-141	1	12/28/17 17:18	12/29/17 14:18	1718-51-0	
Phenol-d5 (S)	14	%	10-110	1	12/28/17 17:18	12/29/17 14:18	4165-62-2	
2-Fluorophenol (S)	23	%	21-110	1	12/28/17 17:18	12/29/17 14:18	367-12-4	
2,4,6-Tribromophenol (S)	86	%	10-123	1	12/28/17 17:18	12/29/17 14:18	118-79-6	
2-Chiorophenol-d4 (S)	53	%	33-110	1	12/28/17 17:18	12/29/17 14:18	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	52	%	16-110	1	12/28/17 17:18	12/29/17 14:18	2199-69-1	
8260C Volatile Organics	Analytical Met	hod: EPA 82	260C/5030C					
Benzene	1.4	ug/L	1.0	1		12/28/17 12:51	71-43-2	
Ethyibenzene	<1.0	ug/L	1.0	1		12/28/17 12:51	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 12:51	108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/28/17 12:51	1330-20-7	
Surrogates		. .						
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		12/28/17 12:51		
4-Bromofluorobenzene (S)	103	%	79-124	1		12/28/17 12:51		
Toluene-d8 (S)	98	%	69-124	1		12/28/17 12:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-14I	Lab ID: 703	8591010	Collected: 12/20/1	7 14:05	Received: 12	2/21/17 16:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Met	nod: EPA 8	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	8.2	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 83-32-9	
Acenaphthylene	11.1	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 208-96-8	
Anthracene	0.64J	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 206-44-0	
Fluorene	3.1J	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	12/26/17 10:55	12/27/17 15:1	9 91-20-3	
Phenanthrene	2.8J	ug/L	5.0	1	12/26/17 10:55			
Pyrene	<5.0	ug/L	5.0	1	12/26/17 10:55			
Surrogates		-3						
Nitrobenzene-d5 (S)	66	%	35-114	1	12/26/17 10:55	12/27/17 15:19	9 4165-60-0	
2-Fluorobiphenyl (S)	87	%	43-116	1	12/26/17 10:55	12/27/17 15:19	9 321-60-8	
p-Terphenyl-d14 (S)	79	%	33-141	1	12/26/17 10:55	12/27/17 15:19	9 1718-51-0	
Phenol-d5 (S)	27	%	10-110	1	12/26/17 10:55	12/27/17 15:19	9 4165-62-2	
2-Fluorophenol (S)	45	%	21-110	1	12/26/17 10:55	12/27/17 15:19	3 367-12-4	
2,4,6-Tribromophenoi (S)	103	%	10-123	1	12/26/17 10:55	12/27/17 15:19	9 118-79-6	
2-Chlorophenol-d4 (S)	81	%	33-110	1	12/26/17 10:55	12/27/17 15:1	9 93951-73-6	
1,2-Dichlorobenzene-d4 (S)	76	%	16-110	1	12/26/17 10:55	12/27/17 15:1	9 2199-69-1	
8260C Volatile Organics	Analytical Met	nod: EPA 8	260C/5030C					
Benzene	2.4	J ug/L	1.0	1		12/28/17 11:39	71-43-2	D6
Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 11:39	9 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 11:39	9 108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/28/17 11:39	3 1330-20-7	
Surrogates		0 -						
1,2-Dichloroethane-d4 (S)	114	%	68-153	1		12/28/17 11:39	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		12/28/17 11:39		
Toluene-d8 (S)	99	%	69-124	1		12/28/17 11:39	2037-26-5	

2/13/18

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-14D	Lab ID:	7038591013	Collected: 12/21/	17 13:12	Received: 12	2/21/17 16:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical I	Method: EPA 82	270D Preparation M	ethod: E	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	218-01-9	
Dibenz(a,h)anthracene	<5.0		5.0	1	12/28/17 17:18	12/29/17 13:50	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1		12/29/17 13:50		
Fluorene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	91-20-3	
Phenanthrene	<5.0		5.0	1	12/28/17 17:18	12/29/17 13:50	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	12/28/17 17:18	12/29/17 13:50	129-00-0	
Surrogates		-						
Nitrobenzene-d5 (S)	49	%	35-114	1	12/28/17 17:18	12/29/17 13:50	4165-60-0	
2-Fluorobiphenyl (S)	64	%	43-116	1	12/28/17 17:18	12/29/17 13:50	321-60-8	
p-Terphenyl-d14 (S)	64	%	33-141	1	12/28/17 17:18	12/29/17 13:50	1718-51-0	
Phenol-d5 (S)	9	%	10-110	1	12/28/17 17:18	12/29/17 13:50	4165-62-2	S0
2-Fluorophenol (S)	16	%	21-110	1	12/28/17 17:18	12/29/17 13:50	367-12-4	S0
2,4,6-Tribromophenol (S)	77	%	10-123	1	12/28/17 17:18	12/29/17 13:50	118-79-6	
2-Chlorophenol-d4 (S)	40	%	33-110	1	12/28/17 17:18	12/29/17 13:50	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	49	%	16-110	1	12/28/17 17:18	12/29/17 13:50	2199-69-1	
8260C Volatile Organics	Analytical M	Method: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/28/17 12:33	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 12:33	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 12:33	108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/28/17 12:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	113		68-153	1		12/28/17 12:33	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		12/28/17 12:33	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		12/28/17 12:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-15I	Lab ID:	7038591002	Collected: 12/19/	17 08:45	Received: 12	2/19/17 16:05	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical	Method: EPA 8	270D Preparation M	ethod: El	PA 3510C			
Acenaphthene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	83-32-9	
Acenaphthylene	5.4	l ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	208-96-8	
Anthracene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	120-12-7	
Benzo(a)anthracene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	56-55-3	
Benzo(a)pyrene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	50-32-8	
Benzo(b)fluoranthene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	205-99-2	
Benzo(g,h,i)perylene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	191-24-2	
Benzo(k)fluoranthene	<5.0	-	5.0	1		12/22/17 13:34		
Chrysene	<5.0	-	5.0	1	12/21/17 13:45	12/22/17 13:34	218-01-9	
Dibenz(a,h)anthracene	<5.0) ug/L	5.0	1		12/22/17 13:34		
Fluoranthene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	206-44-0	
Fluorene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 13:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	-	5.0	1	12/21/17 13:45	12/22/17 13:34	193-39-5	
2-Methylnaphthalene	<5.0	-	5.0	1	12/21/17 13:45	12/22/17 13:34	91-57-6	
Naphthalene	<5.0	-	5.0	1	12/21/17 13:45	12/22/17 13:34	91-20-3	
Phenanthrene	<5.0	-	5.0	1		12/22/17 13:34		
Pyrene	<5.0	-	5.0	1		12/22/17 13:34		
Surrogates		Ŭ						
Nitrobenzene-d5 (S)	73	8 %	35-114	1	12/21/17 13:45	12/22/17 13:34	4165-60-0	
2-Fluorobiphenyl (S)	76	s %	43-116	1	12/21/17 13:45	12/22/17 13:34	321-60-8	
p-Terphenyl-d14 (S)	67	7 %	33-141	1	12/21/17 13:45	12/22/17 13:34	1718-51-0	
Phenol-d5 (S)	30) %	10-110	1	12/21/17 13:45	12/22/17 13:34	4165-62-2	
2-Fluorophenol (S)	44	ا %	21-110	1	12/21/17 13:45	12/22/17 13:34	367-12-4	
2,4,6-Tribromophenol (S)	91	%	10-123	1	12/21/17 13:45	12/22/17 13:34	118-79-6	
2-Chlorophenol-d4 (S)	72	2 %	33-110	1	12/21/17 13:45	12/22/17 13:34	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	67	* %	16-110	1	12/21/17 13:45	12/22/17 13:34	2199-69-1	
8260C Volatile Organics	Analytical	Method: EPA 82	260C/5030C					
Benzene	3.9	ug/L	1.0	1		12/23/17 01:49	71-43-2	
Ethylbenzene	<1.0) ug/L	1.0	1		12/23/17 01:49	100-41-4	
Toluene	<1.0) ug/L	1.0	1		12/23/17 01:49	108-88-3	
Xylene (Total) Surrogates	<2.0) ug/L	2.0	1		12/23/17 01:49	1330-20-7	
1,2-Dichloroethane-d4 (S)	114	%	68-153	1		12/23/17 01:49	17060-07-0	
4-Bromofluorobenzene (S)	104	%	79-124	1		12/23/17 01:49	460-00-4	
Toluene-d8 (S)	100) %	69-124	1		12/23/17 01:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-15D	Lab ID: 70	38591003	Collected: 12/19/1	7 09:55	Received: 12	/19/17 16:05	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Me	thod: EPA 8	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	12/21/17 13:45	12/22/17 14:30	129-00-0	
Surrogates		0						
Nitrobenzene-d5 (S)	76	%	35-114	1	12/21/17 13:45	12/22/17 14:30	4165-60-0	
2-Fluorobiphenyl (S)	80	%	43-116	1	12/21/17 13:45	12/22/17 14:30	321-60-8	
p-Terphenyl-d14 (S)	76	%	33-141	1	12/21/17 13:45	12/22/17 14:30	1718-51-0	
Phenol-d5 (S)	31	%	10-110	1	12/21/17 13:45	12/22/17 14:30	4165-62-2	
2-Fluorophenol (S)	46	%	21-110	1	12/21/17 13:45	12/22/17 14:30	367-12-4	
2,4,6-Tribromophenol (S)	92	%	10-123	1	12/21/17 13:45	12/22/17 14:30	118-79-6	
2-Chlorophenol-d4 (S)	76	%	33-110	1	12/21/17 13:45	12/22/17 14:30	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	72	%	16-110	1	12/21/17 13:45	12/22/17 14:30	2199-69-1	
8260C Volatile Organics	Analytical Me	thod: EPA 8	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/23/17 00:00	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/23/17 00:00	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/23/17 00:00	108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/23/17 00:00	1330-20-7	
1,2-Dichloroethane-d4 (S)	114	%	68-153	1		12/23/17 00:00	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-124	1		12/23/17 00:00		
Toluene-d8 (S)	99	%	69-124	1		12/23/17 00:00		

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-20S	Lab ID:	7039186007	Collected: 12/27	17 11:50	Received: 12	2/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical	Method: EPA 82	270D Preparation N	lethod: E	PA 3510C			
Acenaphthene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 83-32-9	
Acenaphthylene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 208-96-8	
Anthracene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 120-12-7	
Benzo(a)anthracene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 56-55-3	
Benzo(a)pyrene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 50-32-8	
Benzo(b)fluoranthene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 205-99-2	
Benzo(g,h,i)perylene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 191-24-2	
Benzo(k)fluoranthene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23			
Dibenz(a,h)anthracene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 53-70-3	
Fluoranthene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 206-44-0	
Fluorene	<5.0		5.0	1	01/03/18 10:23	01/05/18 14:57	7 86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 193-39-5	
2-Methylnaphthalene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 91-20-3	
Phenanthrene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 14:57	7 85-01-8	
Pyrene	<5.0) ug/L	5.0	1	01/03/18 10:23			
Surrogates		-						
Nitrobenzene-d5 (S)	84	۱ %	35-114	1	01/03/18 10:23	01/05/18 14:57	4165-60-0	
2-Fluorobiphenyl (S)	83	8 %	43-116	1	01/03/18 10:23	01/05/18 14:57	7 321-60-8	
p-Terphenyl-d14 (S)	71	%	33-141	1	01/03/18 10:23	01/05/18 14:57	7 1718-51-0	
Phenol-d5 (S)	33	8 %	10-110	1	01/03/18 10:23	01/05/18 14:57	4165-62-2	
2-Fluorophenol (S)	48	8 %	21-110	1	01/03/18 10:23	01/05/18 14:57	367-12-4	
2,4,6-Tribromophenol (S)	107	%	10-123	1	01/03/18 10:23	01/05/18 14:57	118-79-6	Е
2-Chiorophenol-d4 (S)	79) %	33-110	1	01/03/18 10:23			
1,2-Dichlorobenzene-d4 (S)	78	8 %	16-110	1	01/03/18 10:23	01/05/18 14:57	2199-69-1	
8260C Volatile Organics	Analytical I	Method: EPA 82	60C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 17:46	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 17:46	i 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 17:46	i 108-88-3	
Xylene (Total) <i>Surrogates</i>	<2.0	ug/L	2.0	1		12/31/17 17:46	6 1330-20-7	
1,2-Dichloroethane-d4 (S)	82	. %	68-153	1		12/31/17 17:46	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		12/31/17 17:46	460-00-4	
Toluene-d8 (S)	92	2 %	69-124	1		12/31/17 17:46		

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-201	Lab ID: 7	039186008	Collected: 12/27/1	7 11:55	Received: 12	2/27/17 16:00 N	fatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical N	lethod: EPA 8	270D Preparation Me	ethod: E	PA 3510C	2		
Acenaphthene	13.6	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	83-32-9	
Acenaphthylene	225	🕖 ug/L	50.0	10	01/03/18 10:23	01/08/18 16:29	208-96-8	
Anthracene	3.3J	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	. 1	01/03/18 10:23	01/05/18 15:25	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	207-08-9	
Chrysene	<5.0	ug/L	5.0	1		01/05/18 15:25		
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	206-44-0	
Fluorene	25.1	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	193-39-5	
2-Methylnaphthalene	9.8	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:25	91-57-6	
Naphthalene	158	-	50.0	10		01/08/18 16:29		
Phenanthrene	30.2	ug/L	5.0	1		01/05/18 15:25		
Pyrene	<5.0	ug/L	5.0	1		01/05/18 15:25		
Surrogates		-0-						
Nitrobenzene-d5 (S)	89	%	35-114	1	01/03/18 10:23	01/05/18 15:25	4165-60-0	
2-Fluorobiphenyl (S)	93	%	43-116	1	01/03/18 10:23	01/05/18 15:25	321-60-8	
p-Terphenyl-d14 (S)	70	%	33-141	1	01/03/18 10:23	01/05/18 15:25	1718-51-0	
Phenoi-d5 (S)	35	%	10-110	1	01/03/18 10:23	01/05/18 15:25	4165-62-2	
2-Fluorophenol (S)	54	%	21-110	1	01/03/18 10:23	01/05/18 15:25	367-12-4	
2,4,6-Tribromophenol (S)	124	%	10-123	1	01/03/18 10:23	01/05/18 15:25	118-79-6	E,S0
2-Chlorophenol-d4 (S)	84	%	33-110	1	01/03/18 10:23	01/05/18 15:25	93951-73-6	228
1,2-Dichlorobenzene-d4 (S)	77	%	16-110	1		01/05/18 15:25		
8260C Volatile Organics	Analytical M	lethod: EPA 82	260C/5030C					
Benzene	3.9	ug/L	1.0	1		12/31/17 17:25	71-43-2	
Ethylbenzene	28.3	ug/L	1.0	1		12/31/17 17:25	100-41-4	
Toluene	2.6	ug/L	1.0	1		12/31/17 17:25	108-88-3	
Xylene (Total) S <i>urrogates</i>	153	ug/L	2.0	1		12/31/17 17:25	1330-20-7	
1,2-Dichloroethane-d4 (S)	81	%	68-153	1		12/31/17 17:25	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		12/31/17 17:25	460-00-4	
Toluene-d8 (S)	99	%	69-124	1		12/31/17 17:25		

2/15/18

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-22	Lab ID:	7038591005	Collected: 12/19	/17 14:25	Received: 12	2/19/17 16:05	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical	Method: EPA 8	270D Preparation M	/lethod: E	PA 3510C			
Acenaphthene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 15:2	5 83-32-9	
Acenaphthylene	<5.0) ug/L	5.0) 1	12/21/17 13:45	12/22/17 15:2	5 208-96-8	
Anthracene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 15:25	5 120-12-7	
Benzo(a)anthracene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 15:25	5 56-55-3	
Benzo(a)pyrene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 15:25	5 50-32-8	
Benzo(b)fluoranthene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 15:25	5 205-99-2	
Benzo(g,h,i)perylene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 15:25	5 191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1		12/22/17 15:25		
Chrysene	<5.0	ug/L	5.0	1		12/22/17 15:25		
Dibenz(a,h)anthracene	<5.0) ug/L	5.0	1	12/21/17 13:45	12/22/17 15:25	5 53-70-3	
Fluoranthene	<5.0	-	5.0	1		12/22/17 15:25		
Fluorene	<5.0) ug/L	5.0	1		12/22/17 15:25		
Indeno(1,2,3-cd)pyrene	<5.0	-	5.0	1		12/22/17 15:25		
2-Methylnaphthalene	<5.0	-	5.0	1		12/22/17 15:25		
Naphthalene	<5.0		5.0			12/22/17 15:25		
Phenanthrene	<5.0	-	5.0			12/22/17 15:25		
Pyrene	<5.0	•	5.0			12/22/17 15:25		
Surrogates		-0						
Nitrobenzene-d5 (S)	79	%	35-114	1	12/21/17 13:45	12/22/17 15:25	5 4165-60-0	
2-Fluorobiphenyl (S)	84	%	43-116	1	12/21/17 13:45	12/22/17 15:25	5 321-60-8	
p-Terphenyl-d14 (S)	84	%	33-141	1		12/22/17 15:25		
Phenol-d5 (S)	30	%	10-110	1	12/21/17 13:45	12/22/17 15:25	5 4165-62-2	
2-Fluorophenol (S)	46		21-110	1		12/22/17 15:25		
2,4,6-Tribromophenol (S)	99	%	10-123	1		12/22/17 15:25		
2-Chlorophenol-d4 (S)	80	%	33-110	1		12/22/17 15:25		
1,2-Dichlorobenzene-d4 (S)	79	%	16-110			12/22/17 15:25		
8260C Volatile Organics	Analytical I	Method: EPA 82	60C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/23/17 00:36	5 71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/23/17 00:36	6 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/23/17 00:36		
Xylene (Total)	<2.0	ug/L	2.0	1		12/23/17 00:36		
Surrogates		-						
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		12/23/17 00:36	17060-07-0	
4-Bromofluorobenzene (S)	103	%	79-124	1		12/23/17 00:36	460-00-4	
Toluene-d8 (S)	101	%	69-124	1		12/23/17 00:36		

REPORT OF LABORATORY ANALYSIS

ce Analytical www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-23	Lab ID:	7038591001	Collected: 12/1	3/17 14:22	Received: 12	2/19/17 16:05	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical	Method: EPA 82	270D Preparation	Method: E	PA 3510C			
Acenaphthene	<5.0) ug/L	5.) 1	12/21/17 13:45	12/22/17 13:0	7 83-32-9	
Acenaphthylene	<5.0) ug/L	5.) 1	12/21/17 13:45	12/22/17 13:0	7 208-96-8	
Anthracene	<5.0) ug/L	5.) 1	12/21/17 13:45	12/22/17 13:0	7 120-12-7	
Benzo(a)anthracene	<5.0) ug/L	5.) 1	12/21/17 13:45	12/22/17 13:0	7 56-55-3	
Benzo(a)pyrene	<5.0) ug/L	5.) 1	12/21/17 13:45	12/22/17 13:07	7 50-32-8	
Benzo(b)fluoranthene	<5.0) ug/L	5.) 1	12/21/17 13:45	12/22/17 13:0	7 205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.) 1	12/21/17 13:45	12/22/17 13:07	7 191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.) 1	12/21/17 13:45	12/22/17 13:07	7 207-08-9	
Chrysene	<5.0	ug/L	5.) 1	12/21/17 13:45	12/22/17 13:07	7 218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.) 1	12/21/17 13:45			
Fluoranthene	<5.0	ug/L	5.) 1	12/21/17 13:45	12/22/17 13:07	7 206-44-0	
Fluorene	<5.0	ug/L	5.) 1	12/21/17 13:45	12/22/17 13:07	7 86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	-	5.) 1	12/21/17 13:45			
2-Methylnaphthalene	<5.0	-	5.) 1	12/21/17 13:45			
Naphthalene	<5.0	-	5.) 1		12/22/17 13:07		
Phenanthrene	<5.0	-	5.) 1		12/22/17 13:07		
Pyrene	<5.0	•	5.		12/21/17 13.45			
Surrogates		-0 -						
Nitrobenzene-d5 (S)	77	′ %	35-11-	↓ 1	12/21/17 13:45	12/22/17 13:07	7 4165-60-0	
2-Fluorobiphenyl (S)	80) %	43-11	6 1	12/21/17 13:45	12/22/17 13:07	7 321-60-8	
p-Terphenyl-d14 (S)	79	%	33-14	1	12/21/17 13:45	12/22/17 13:07	7 1718-51-0	
Phenol-d5 (S)	32	. %	10-11) 1	12/21/17 13:45	12/22/17 13:07	7 4165-62-2	
2-Fluorophenol (S)	48	%	21-11) 1	12/21/17 13:45	12/22/17 13:07	7 367-12-4	
2,4,6-Tribromophenol (S)	92	. %	10-12	3 1	12/21/17 13:45			
2-Chlorophenol-d4 (S)	76		33-11) 1	12/21/17 13:45			
1,2-Dichlorobenzene-d4 (S)	72	%	16-11) 1	12/21/17 13:45			
8260C Volatile Organics	Analytical I	Method: EPA 82	60C/5030C					
Benzene	<1.0	ug/L	° 1.0) 1		12/22/17 22:48	3 71-43-2	
Ethylbenzene	<1.0	ug/L	1.0) 1		12/22/17 22:48	3 100-41-4	
Toluene	<1.0	ug/L	1.0) 1		12/22/17 22:48	3 108-88-3	
Xylene (Total) Surrogates	<2.0		2.0) 1		12/22/17 22:48	3 1330-20-7	
1,2-Dichloroethane-d4 (S)	112	%	68-15	3 1		12/22/17 22:48	3 17060-07-0	
4-Bromofluorobenzene (S)	102		79-12			12/22/17 22:48		
Toluene-d8 (S)	101		69-12			12/22/17 22:48		

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-24	Lab ID: 703	8591017	Collected	: 12/22/1	17 10:35	Received: 12	2/22/17 13:48	Matrix: Water	
Parameters	Results	Units	Repo	ort Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Met	hod: EPA 82	70D Prepa	aration Me	ethod: El	PA 3510C			
Acenaphthene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	83-32-9	
Acenaphthylene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	208-96-8	
Anthracene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	120-12-7	
Benzo(a)anthracene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	56-55-3	
Benzo(a)pyrene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	207-08-9	
Chrysene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	53-70-3	
Fluoranthene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	206-44-0	
Fluorene	<5.0	ug/L		5.0	1	12/29/17 14:25	01/03/18 14:19	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L		5.0	1		01/03/18 14:19		
2-Methylnaphthalene	<5.0	ug/L		5.0	1		01/03/18 14:19		
Naphthalene	<5.0	ug/L		5.0	1		01/03/18 14:19		
Phenanthrene	<5.0	ug/L	82	5.0	≍ <u>í</u>		01/03/18 14:19		
Pyrene	<5.0	ug/L		5.0	1		01/03/18 14:19		
Surrogates		-0-							
Nitrobenzene-d5 (S)	76	%		35-114	1	12/29/17 14:25	01/03/18 14:19	4165-60-0	
2-Fluorobiphenyl (S)	76	%		43-116	1	12/29/17 14:25	01/03/18 14:19	321-60-8	
p-Terphenyl-d14 (S)	88	%		33-141	1		01/03/18 14:19		
Phenol-d5 (S)	15	%		10-110	1	12/29/17 14:25	01/03/18 14:19	4165-62-2	
2-Fluorophenol (S)	25	%		21-110	1	12/29/17 14:25	01/03/18 14:19	367-12-4	
2,4,6-Tribromophenol (S)	88	%		10-123	1		01/03/18 14:19		
2-Chlorophenol-d4 (S)	59	%		33-110	1	12/29/17 14:25	01/03/18 14:19	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	68	%		16-110	1		01/03/18 14:19		
8260C Volatile Organics	Analytical Meth	od: EPA 82	60C/5030C	'					
Benzene	<1.0	ug/L		1.0	1		12/28/17 13:27	71-43-2	
Ethylbenzene	<1.0	ug/L		1.0	1		12/28/17 13:27	100-41-4	
Toluene	<1.0	ug/L		1.0	1		12/28/17 13:27	108-88-3	
Xylene (Totai) Surmaatas	<2.0	ug/L		2.0	1		12/28/17 13:27	1330-20-7	
Surrogates 1,2-Dichloroethane-d4 (S)	113	%		60 160	4		10/00/47 40 07	47000 07 0	
4-Bromofluorobenzene (S)	101	%		68-153	1		12/28/17 13:27		
· · ·				79-124	1		12/28/17 13:27		
Toluene-d8 (S)	98	%		69-124	1		12/28/17 13:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: HIMW-25	Lab ID: 7038	591018	Collected: 12/22/1	7 12:20	Received: 12	2/22/17 13:48	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Meth	od: EPA 8	270D Preparation Me	thod: E	PA 3510C			
Acenaphthene	2.6J	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 83-32-9	
Acenaphthylene	27.2	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 208-96-8	
Anthracene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 207-08-9	
Chrysene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 206-44-0	
Fluorene	3.1J	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	4 193-39-5	
2-Methyinaphthalene	13.8	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	91-57-6	
Naphthalene	460 🗋	ug/L	50.0	10	12/29/17 14:25	01/03/18 16:32	2 91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	12/29/17 14:25	01/03/18 15:14	129-00-0	
Surrogates		-						
Nitrobenzene-d5 (S)	66	%	35-114	1	12/29/17 14:25	01/03/18 15:14	4165-60-0	
2-Fluorobipheny! (S)	69	%	43-116	1	12/29/17 14:25	01/03/18 15:14	321-60-8	
p-Terphenyl-d14 (S)	89	%	33-141	1	12/29/17 14:25	01/03/18 15:14	1718-51-0	
Phenol-d5 (S)	17	%	10-110	1	12/29/17 14:25	01/03/18 15:14	4165-62-2	
2-Fluorophenol (S)	26	%	21-110	1	12/29/17 14:25	01/03/18 15:14	367-12-4	
2,4,6-Tribromophenol (S)	96	%	10-123	1	12/29/17 14:25	01/03/18 15:14	118-79-6	
2-Chlorophenol-d4 (S)	55	%	33-110	1	12/29/17 14:25	01/03/18 15:14	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	60	%	16-110	1	12/29/17 14:25	01/03/18 15:14	2199-69-1	
8260C Volatile Organics	Analytical Metho	od: EPA 82	260C/5030C					
Benzene	591 Ӯ	ug/L	10.0	10		12/28/17 14:21	71-43-2	
Ethylbenzene	17.4	ug/L	1.0	1		12/28/17 13:45	5 100-41-4	
Toluene	3.5	ug/L	1.0	1		12/28/17 13:45	5 108-88-3	
Xylene (Total) Surrogates	217	ug/L	2.0	1		12/28/17 13:45		
1,2-Dichloroethane-d4 (S)	121	%	68-153	1		12/28/17 13:45	5 17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-124	1		12/28/17 13:45		
Toluene-d8 (S)	98	%	69-124	1		12/28/17 13:45		



REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-26I	Lab ID: 7	7039186013	Collected: 12/28/	17 09:20	Received: 12	2/28/17 14:11	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical M	lethod: EPA 82	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	208-96-8	
Anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	207-08-9	
Chrysene	<5.0	ug/L	5.0	1		01/05/18 17:14		
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1		01/05/18 17:14		
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	206-44-0	
Fluorene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:14	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1		01/05/18 17:14		
2-Methylnaphthalene	<5.0	ug/L	5.0	1		01/05/18 17:14		
Naphthalene	<5.0	ug/L	5.0	1		01/05/18 17:14		
Phenanthrene	<5.0	ug/L	5.0	1		01/05/18 17:14		
Pyrene	<5.0	ug/L	5.0	1		01/05/18 17:14		
Surrogates		5		-				
Nitrobenzene-d5 (S)	74	%	35-114	1	01/03/18 10:23	01/05/18 17:14	4165-60-0	
2-Fluorobiphenyl (S)	77	%	43-116	1		01/05/18 17:14		
p-Terphenyl-d14 (S)	79	%	33-141	1	01/03/18 10:23	01/05/18 17:14	1718-51-0	
Phenol-d5 (S)	28	%	10-110	1		01/05/18 17:14		
2-Fluorophenol (S)	42	%	21-110	1	01/03/18 10:23	01/05/18 17:14	367-12-4	
2,4,6-Tribromophenol (S)	109	%	10-123	1	01/03/18 10:23	01/05/18 17:14	118-79-6	Е
2-Chlorophenol-d4 (S)	73	%	33-110	1	01/03/18 10:23			
1,2-Dichlorobenzene-d4 (S)	68	%	16-110	1	01/03/18 10:23			
8260C Volatile Organics	Analytical N	lethod: EPA 82	60C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 22:11	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 22:11	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 22:11	108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/31/17 22:11	1330-20-7	
1,2-Dichloroethane-d4 (S)	83	%	68-153	1		12/31/17 22:11	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		12/31/17 22:11		
Toluene-d8 (S)	97	%	69-124	1		12/31/17 22:11		

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-26D	Lab ID: 7039	186012	Collected: 12/28/1	7 08:55	Received: 12	2/28/17 14:11	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Quai
8270 MSSV	Analytical Meth	od: EPA 8	270D Preparation Me	ethod: El	PA 3510C			
Acenaphthene	7.1	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 83-32-9	
Acenaphthylene	137J. 〕	ug/L	250	50	01/03/18 10:23	01/08/18 18:40	5 208-96-8	
Anthracene	1.2J	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23			
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	7 53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	206-44-0	
Fluorene	18.6	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:47	/ 193-39-5	
2-Methylnaphthalene	257 🔊	ug/L	250	50	01/03/18 10:23	01/08/18 18:46	6 91-57-6	
Naphthalene	1700,	ug/L	250	50	01/03/18 10:23	01/08/18 18:46	5 91-20-3	
Phenanthrene	16.8	ug/L	5.0	1	01/03/18 10:23			
Pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23			
Surrogates								
Nitrobenzene-d5 (S)	89	%	35-114	1	01/03/18 10:23	01/05/18 16:47	4165-60-0	
2-Fluorobiphenyl (S)	90	%	43-116	1	01/03/18 10:23	01/05/18 16:47	321-60-8	
p-Terphenyl-d14 (S)	65	%	33-141	1	01/03/18 10:23	01/05/18 16:47	7 1718-51-0	
Phenol-d5 (S)	36	%	10-110	1	01/03/18 10:23	01/05/18 16:47	4165-62-2	
2-Fluorophenol (S)	54	%	21-110	1	01/03/18 10:23	01/05/18 16:47	367-12-4	
2,4,6-Tribromophenol (S)	123	%	10-123	1	01/03/18 10:23	01/05/18 16:47	118-79-6	Е
2-Chlorophenol-d4 (S)	86	%	33-110	1	01/03/18 10:23	01/05/18 16:47	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	77	%	16-110	1	01/03/18 10:23	01/05/18 16:47	2199-69-1	
8260C Volatile Organics	Analytical Meth	od: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 21:51	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 21:51	100-41-4	
Toluene	2.3	ug/L	1.0	1		12/31/17 21:51	108-88-3	
Xylene (Total) Surrogates	103	ug/L	2.0	1		12/31/17 21:51	1330-20-7	
1,2-Dichloroethane-d4 (S)	92	%	68-153	1		12/31/17 21:51	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		12/31/17 21:51	460-00-4	
Toluene-d8 (S)	96	%	69-124	1		12/31/17 21:51		

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: DUP20171228	Lab ID: 7039	186016	Collected: 12/28/1	7 08:00	Received: 12	2/28/17 14:11 N	Aatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Metho	od: EPA 82	270D Preparation Me	thod: E	PA 3510C			
Acenaphthene	7.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	83-32-9	
Acenaphthylene	142J 🗩	ug/L	250	50	01/03/18 10:23	01/08/18 19:42	208-96-8	
Anthracene	1.3J	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	206-44-0	
Fluorene	18.3	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	193-39-5	
2-Methylnaphthalene	299 Ď	ug/L	250	50	01/03/18 10:23	01/08/18 19:42	91-57-6	
Naphthalene	1830 🗩	ug/L	250	50	01/03/18 10:23	01/08/18 19:42	91-20-3	
Phenanthrene	16.6	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	85-01-8	
Pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:37	129-00-0	
Surrogates		-						
Nitrobenzene-d5 (S)	100	%	35-114	1	01/03/18 10:23	01/05/18 18:37	4165-60-0	
2-Fluorobiphenyl (S)	102	%	43-116	1	01/03/18 10:23	01/05/18 18:37	321-60-8	
p-Terphenyl-d14 (S)	56	%	33-141	1	01/03/18 10:23	01/05/18 18:37	1718-51-0	
Phenol-d5 (S)	39	%	10-110	1	01/03/18 10:23	01/05/18 18:37	4165-62-2	
2-Fluorophenol (S)	57	%	21-110	1	01/03/18 10:23	01/05/18 18:37	367-12-4	
2,4,6-Tribromophenol (S)	120	%	10-123	1	01/03/18 10:23	01/05/18 18:37	118-79-6	Е
2-Chlorophenol-d4 (S)	89	%	33-110	1	01/03/18 10:23	01/05/18 18:37	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	73	%	16-110	1	01/03/18 10:23	01/05/18 18:37	2199-69-1	
8260C Volatile Organics	Analytical Metho	od: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		01/02/18 16:46	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		01/02/18 16:46	100-41-4	
Toluene	2.2	ug/L	1.0	1		01/02/18 16:46	108-88-3	
Xyiene (Total)	97.1	ug/L	2.0	1		01/02/18 16:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	84	%	68-153	1		01/02/18 16:46	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		01/02/18 16:46	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		01/02/18 16:46	2037-26-5	

2/15/18

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-27S	Lab ID: 7039	186014	Collected: 12/28/1	7 11:50	Received: 12	2/28/17 14:11	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Meth	od: EPA 8	270D Preparation Me	thod: E	PA 3510C			
Acenaphthene	117J ⊅	ug/L	250	50	01/03/18 10:23	01/08/18 19:14	83-32-9	
Acenaphthylene	5.9	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	208-96-8	
Anthracene	11.9	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	207-08-9	
Chrysene	<5.0	ug/L	5.0	1		01/05/18 17:42		
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	53-70-3	
Fluoranthene	3.1J	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	206-44-0	
Fluorene	57.3	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	193-39-5	
2-Methylnaphthalene	259 D	ug/L	250	50	01/03/18 10:23	01/08/18 19:14	91-57-6	
Naphthalene	1300 🌶		250	50	01/03/18 10:23	01/08/18 19:14	91-20-3	
Phenanthrene	65.8	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	85-01-8	
Pyrene	4.1J	ug/L	5.0	1	01/03/18 10:23	01/05/18 17:42	129-00-0	
Surrogates		-3						
Nitrobenzene-d5 (S)	86	%	35-114	1	01/03/18 10:23	01/05/18 17:42	4165-60-0	
2-Fluorobiphenyl (S)	91	%	43-116	1	01/03/18 10:23	01/05/18 17:42	321-60-8	
p-Terphenyl-d14 (S)	88	%	33-141	1	01/03/18 10:23	01/05/18 17:42	1718-51-0	
Phenol-d5 (S)	34	%	10-110	1	01/03/18 10:23	01/05/18 17:42	4165-62-2	
2-Fluorophenol (S)	57	%	21-110	1	01/03/18 10:23	01/05/18 17:42	367-12-4	
2,4,6-Tribromophenol (S)	115	%	10-123	1	01/03/18 10:23	01/05/18 17:42	118-79-6	Е
2-Chlorophenol-d4 (S)	88	%	33-110	1	01/03/18 10:23	01/05/18 17:42	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	78	%	16-110	1	01/03/18 10:23	01/05/18 17:42	2199-69-1	
8260C Volatile Organics	Analytical Meth	od: EPA 8	260C/5030C					
Benzene	7.2	ug/L	1.0	1		01/02/18 15:41	71-43-2	
Ethylbenzene	373 🕖	ug/L	5.0	5		01/02/18 16:05	100-41-4	
Toluene	8.9	ug/L	ା 1.0	1		01/02/18 15:41	108-88-3	
Xylene (Total)	408 🕖	ug/L	10.0	5		01/02/18 16:05	1330-20-7	
Surrogates		-						
1,2-Dichloroethane-d4 (S)	82	%	68-153	1		01/02/18 15:41	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		01/02/18 15:41	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		01/02/18 15:41	2037-26-5	



REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-271	Lab ID:	7039186015	Collected: 12/28/	17 12:48	Received: 12	2/28/17 14:11	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical	Method: EPA 8	270D Preparation M	ethod: El	PA 3510C			
Acenaphthene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	83-32-9	
Acenaphthylene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	208-96-8	
Anthracene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	120-12-7	
Benzo(a)anthracene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	9 56-55-3	
Benzo(a)pyrene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	9 50-32-8	
Benzo(b)fluoranthene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	205-99-2	
Benzo(g,h,i)perylene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	9 191-24-2	
Benzo(k)fluoranthene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	207-08-9	
Chrysene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	9 53-70-3	
Fluoranthene	<5.(ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	206-44-0	
Fluorene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	9 193-39-5	
2-Methylnaphthalene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	91-57-6	
Naphthalene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	91-20-3	
Phenanthrene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	85-01-8	
Pyrene	<5.0) ug/L	5.0	1	01/03/18 10:23	01/05/18 18:09	129-00-0	
Surrogates		•						
Nitrobenzene-d5 (S)	82	2 %	35-114	1	01/03/18 10:23	01/05/18 18:09	4165-60-0	
2-Fluorobiphenyl (S)	85	5 %	43-116	1	01/03/18 10:23	01/05/18 18:09	321-60-8	
p-Terphenyl-d14 (S)	4() %	33-141	1	01/03/18 10:23	01/05/18 18:09	9 1718-51-0	
Phenol-d5 (S)	42	2 %	10-110	1	01/03/18 10:23	01/05/18 18:09	4165-62-2	
2-Fluorophenol (S)	58	8 %	21-110	1	01/03/18 10:23	01/05/18 18:09	367-12-4	
2,4,6-Tribromophenol (S)	118	5 %	10-123	1	01/03/18 10:23	01/05/18 18:09	118-79-6	Е
2-Chlorophenol-d4 (S)	86	5 %	33-110	1	01/03/18 10:23	01/05/18 18:09	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	81	%	16-110	1	01/03/18 10:23	01/05/18 18:09	2199-69-1	
8260C Volatile Organics	Analytical	Method: EPA 82	260C/5030C					
Benzene	<1.0) ug/L	1.0	1		01/02/18 16:25	5 71-43-2	
Ethylbenzene	<1.0) ug/L	1.0	1		01/02/18 16:25	i 100-41-4	
Toluene	<1.0) ug/L	1.0	1		01/02/18 16:25	5 108-88-3	
Xylene (Total) <i>Surrogates</i>	<2.0) ug/L	2.0	1		01/02/18 16:25	5 1330-20-7	
1,2-Dichloroethane-d4 (S)	79) %	68-153	1		01/02/18 16:25	5 17060-07-0	
4-Bromofluorobenzene (S)	96	\$ %	79-124	1		01/02/18 16:25	6 460-00-4	
Toluene-d8 (S)	100) %	69-124	1		01/02/18 16:25		

REPORT OF LABORATORY ANALYSIS



1

Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-28S	Lab ID: 7039	186011	Collected: 12/27/1	7 15:45	Received: 12	2/28/17 14:11 M	Aatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Metho	od: EPA 82	270D Preparation Me	thod: E	PA 3510C			
Acenaphthene	40.1	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	83-32-9	
Acenaphthylene	2.0J	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	208-96-8	
Anthracene	5.0J	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	206-44-0	
Fluorene	23.3	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1		01/05/18 16:20		
2-Methylnaphthalene	156 💟	ug/L	50.0	10	01/03/18 10:23	01/08/18 16:57	91-57-6	
Naphthalene	471 D	ug/L	50.0	10		01/08/18 16:57		
Phenanthrene	23.5	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	85-01-8	
Pyrene	1.1J	ug/L	5.0	1	01/03/18 10:23	01/05/18 16:20	129-00-0	
Surrogates		-0-						
Nitrobenzene-d5 (S)	95	%	35-114	1	01/03/18 10:23	01/05/18 16:20	4165-60-0	
2-Fluorobiphenyl (S)	80	%	43-116	1	01/03/18 10:23	01/05/18 16:20	321-60-8	
p-Terphenyl-d14 (S)	53	%	33-141	1	01/03/18 10:23	01/05/18 16:20	1718-51-0	
Phenol-d5 (S)	44	%	10-110	1	01/03/18 10:23	01/05/18 16:20	4165-62-2	
2-Fluorophenol (S)	62	%	21-110	1	01/03/18 10:23	01/05/18 16:20	367-12-4	
2,4,6-Tribromophenol (S)	113	%	10-123	1	01/03/18 10:23	01/05/18 16:20	118-79-6	Е
2-Chlorophenol-d4 (S)	98	%	33-110	1	01/03/18 10:23	01/05/18 16:20	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	88	%	16-110	1	01/03/18 10:23	01/05/18 16:20	2199-69-1	
8260C Volatile Organics	Analytical Metho	d: EPA 82	260C/5030C					
Benzene	2.4	ug/L	1.0	1		12/31/17 21:31	71-43-2	
Ethylbenzene	113	ug/L	1.0	1		12/31/17 21:31	100-41-4	
Toluene	1.2	ug/L	1.0	1		12/31/17 21:31	108-88-3	
Xylene (Total) Surrogates	9.3	ug/L	2.0	1		12/31/17 21:31	1330-20-7	
1,2-Dichloroethane-d4 (S)	79	%	68-153	1		12/31/17 21:31	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		12/31/17 21:31		
Toluene-d8 (S)	95	%	69-124	1		12/31/17 21:31		

2/15/18

REPORT OF LABORATORY ANALYSIS



.

ANALYTICAL RESULTS

Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: HIMW-28I	Lab ID: 70	39186009	Collected: 12/27/	17 14:45	Received: 12	2/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical Me	thod: EPA 8	270D Preparation Me	ethod: E	PA 3510C			
Acenaphthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 83-32-9	
Acenaphthylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 208-96-8	
Anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 120-12-7	
Benzo(a)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 56-55-3	
Benzo(a)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 50-32-8	
Benzo(b)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 205-99-2	
Benzo(g,h,i)perylene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 191-24-2	
Benzo(k)fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 207-08-9	
Chrysene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 218-01-9	
Dibenz(a,h)anthracene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 53-70-3	
Fluoranthene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 206-44-0	
Fluorene	<5.0	ug/L	5.0	· 1	01/03/18 10:23	01/05/18 15:52	2 86-73-7	
Indeno(1,2,3-cd)pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 193-39-5	
2-Methylnaphthalene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 91-57-6	
Naphthalene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 91-20-3	
Phenanthrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 85-01-8	
Pyrene	<5.0	ug/L	5.0	1	01/03/18 10:23	01/05/18 15:52	2 129-00-0	
Surrogates		•						
Nitrobenzene-d5 (S)	81	%	35-114	1	01/03/18 10:23	01/05/18 15:52	2 4165-60-0	
2-Fluorobiphenyl (S)	86	%	43-116	1	01/03/18 10:23	01/05/18 15:52	2 321-60-8	
p-Terphenyl-d14 (S)	58	%	33-141	1	01/03/18 10:23	01/05/18 15:52	2 1718-51-0	
Phenol-d5 (S)	35	%	10-110	1	01/03/18 10:23	01/05/18 15:52	2 4165-62-2	
2-Fluorophenol (S)	49	%	21-110	1	01/03/18 10:23	01/05/18 15:52	2 367-12-4	
2,4,6-Tribromophenol (S)	110	%	10-123	1	01/03/18 10:23	01/05/18 15:52	2 118-79-6	E
2-Chlorophenol-d4 (S)	83	%	33-110	1	01/03/18 10:23	01/05/18 15:52	2 93951-73-6	
1,2-Dichlorobenzene-d4 (S)	75	%	16-110	1	01/03/18 10:23	01/05/18 15:52	2 2199-69-1	
8260C Volatile Organics	Analytical Me	thod: EPA 8	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 17:0	5 71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 17:0	5 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 17:0	5 108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/31/17 17:0	5 1330-20-7	
1,2-Dichloroethane-d4 (S)	84	%	68-153	1		12/31/17 17:0	5 17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-124	1		12/31/17 17:0	5 460-00-4	
Toluene-d8 (S)	98	%	69-124	1		12/31/17 17:0	5 2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: TB 20171219	Lab ID: 7	7038591006	Collected: 12/19/1	7 14:45	Received: 12	2/19/17 16:05 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical M	Nethod: EPA 82	60C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/22/17 22:30	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/22/17 22:30	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/22/17 22:30	108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/22/17 22:30	1330-20-7	
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		12/22/17 22:30	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-124	1		12/22/17 22:30	460-00-4	
Toluene-d8 (S)	100	%	69-124	1		12/22/17 22:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS



١

ANALYTICAL RESULTS

Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: TB20171221	Lab ID:	7038591015	Collected: 12/21/	17 14:00	Received: 1	12/21/17 16:15 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical	Method: EPA 82	260C/5030C					
Benzene	<1.0	0 ug/L	1.0	1		12/28/17 10:09	71-43-2	
Ethylbenzene	<1.0	0 ug/L	1.0	1		12/28/17 10:09	100-41-4	
Toluene	<1.	0 ug/L	1.0	1		12/28/17 10:09	108-88-3	
Xylene (Total) <i>Surrogates</i>	<2.0	0 ug/L	2.0	1		12/28/17 10:09	1330-20-7	
1,2-Dichloroethane-d4 (S)	11 [.]	1 %	68-153	1		12/28/17 10:09	17060-07-0	
4-Bromofluorobenzene (S)	10	2%	79-124	1		12/28/17 10:09	460-00-4	
Toluene-d8 (S)	9	8%	69-124	1		12/28/17 10:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/18

Pace Project No.: 7038591

Sample: TB20171222	Lab ID: 703	8591019	Collected: 12/22/1	7 12:20	Received:	12/22/17 13:48	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Met	hod: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/28/17 10:27	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/28/17 10:27	7 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/28/17 10:27	7 108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		12/28/17 10:27	7 1330-20-7	
1,2-Dichloroethane-d4 (S)	113	%	68-153	1		12/28/17 10:27	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-124	1		12/28/17 10:27	460-00-4	
Toluene-d8 (S)	98	%	69-124	1		12/28/17 10:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: TB20171227	Lab ID: 70	39186010	Collected: 12/27/1	7 00:00	Received:	12/27/17 16:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Me	thod: EPA 82	260C/5030C					
Benzene	<1.0	ug/L	1.0	1		12/31/17 16:44	1 71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		12/31/17 16:44	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/31/17 16:44	108-88-3	
Xylene (Total)	<2.0	ug/L	2.0	1		12/31/17 16:44	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	79	%	68-153	1		12/31/17 16:44	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		12/31/17 16:44	460-00-4	
Toluene-d8 (S)	97	%	69-124	1		12/31/17 16:44	4 2037-26-5	

REPORT OF LABORATORY ANALYSIS

Yace Analytical www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: TB20171228	Lab ID: 703	9186017	Collected: 12/28/1	7 13:10	Received: 1	2/28/17 14:11	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Met	nod: EPA 82	60C/5030C					
Benzene	<1.0	ug/L	1.0	1		01/02/18 17:06	71-43-2	
Ethylbenzene	<1.0	ug/L	1.0	1		01/02/18 17:06	100-41-4	
Toluene	<1.0	ug/L	1.0	1		01/02/18 17:06	108-88-3	
Xylene (Total) Surrogates	<2.0	ug/L	2.0	1		01/02/18 17:06	1330-20-7	
1,2-Dichloroethane-d4 (S)	83	%	68-153	1		01/02/18 17:06	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		01/02/18 17:06	460-00-4	
Toluene-d8 (S)	94	%	69-124	1		01/02/18 17:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

Page 23 of 38



Project: NATIONAL GRID HEMPSTEAD 12/27

Pace Project No.: 7039186

Sample: FB20171228	Lab ID:	7039186018	Collected: 12/28/	17 13:10	Received: 12	2/28/17 14:11	Viatrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV	Analytical	Method: EPA 8	270D Preparation N	ethod: E	PA 3510C			
Acenaphthene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	83-32-9	
Acenaphthylene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	208-96-8	
Anthracene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	120-12-7	
Benzo(a)anthracene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	56-55-3	
Benzo(a)pyrene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	50-32-8	
Benzo(b)fluoranthene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	205-99-2	
Benzo(g,h,i)perylene	<5.0	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	191-24-2	
Benzo(k)fluoranthene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	207-08-9	
Chrysene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	218-01-9	
Dibenz(a,h)anthracene	<5.0		5.0	1	01/03/18 10:23	01/05/18 19:04	53-70-3	
Fluoranthene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	206-44-0	
Fluorene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	86-73-7	
Indeno(1,2,3-cd)pyrene	<5.	0 ug/L	5.0	1		01/05/18 19:04		
2-Methylnaphthalene	<5.		5.0	1	01/03/18 10:23	01/05/18 19:04	91-57-6	
Naphthalene	<5.	0 ug/L	5.0	1	01/03/18 10:23	01/05/18 19:04	91-20-3	
Phenanthrene	<5.	•	5.0	1	01/03/18 10:23	01/05/18 19:04	85-01-8	
Pyrene	<5.	-	5.0	1	01/03/18 10:23	01/05/18 19:04	129-00-0	
Surrogates		Ū						
Nitrobenzene-d5 (S)	119	9%	35-114	1	01/03/18 10:23	01/05/18 19:04	4165-60-0	S3
2-Fluorobiphenyl (S)	8	9 %	43-116	1	01/03/18 10:23	01/05/18 19:04	321-60-8	
p-Terphenyl-d14 (S)	7	B %	33-141	1	01/03/18 10:23	01/05/18 19:04	1718-51-0	
Phenol-d5 (S)	4	0 %	10-110	1	01/03/18 10:23	01/05/18 19:04	4165-62-2	
2-Fluorophenol (S)	5	9%	21-110	1	01/03/18 10:23	01/05/18 19:04	367-12-4	
2,4,6-Tribromophenol (S)	114	4 %	10-123	1	01/03/18 10:23	01/05/18 19:04	118-79-6	Е
2-Chlorophenol-d4 (S)	8	9 %	33-110	1	01/03/18 10:23	01/05/18 19:04	93951-73-6	
1,2-Dichlorobenzene-d4 (S)	84	4 %	16-110	1		01/05/18 19:04		
8260C Volatile Organics	Analytical	Method: EPA 82	260C/5030C					
Benzene	<1.0	0 ug/L	1.0	1		01/02/18 17:27	71-43-2	
Ethylbenzene	<1.	0 ug/L	1.0	1		01/02/18 17:27	100-41-4	
Toluene	<1.	0 ug/L	1.0	1		01/02/18 17:27	108-88-3	
Xylene (Total)	<2.	D ug/L	2.0	1		01/02/18 17:27	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	7	9%	6 8-153	1		01/02/18 17:27	17060-07-0	
4-Bromofluorobenzene (S)	90	6 %	79-124	1		01/02/18 17:27	460-00-4	
Toluene-d8 (S)	91	7 %	69-124	1		01/02/18 17:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

ATTACHMENT B

SUPPORT DOCUMENTATION

	Nalytical pacelabs com
0	Pace An

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCI IMENT AIL TO COMPANY

WO#:7038591

Section A Required Client Information.	Section B Required Project Information.	Section C Internet Control Con	
Company AECOM	Report to Peter Frich unles	Attention.	2155209
Address:	COPYTO Jan Sundquist	Company Nai 7038501	REGULATORY AGENCY
		Address:	NPDES F GROUND WATER C DRINKING WATER
Email Perter Fair barker Ercent, Jun	Purchase Order No :	Pace Quote Reference:	UST F RCRA F OTHER
	Nothmallod Henry tal	Pace Project Manager:	Site Location
Requested Due DaterTAT:	Project Number 604(1920	Pace Profile #:	STATE: NY
		Requested	Requested Analysis Filtered (Y/N)

	Section D Required Client Information	용녌			COLLECTED	Ð	-	_[Presei	Preservatives	N /A								
Респила Оператор Солонности Солонности<		/ater ter		COMPOSITI		COMPOSITE	DOLLECTION	S			1	CL CQ					(N/A)		
3.3 иг (4) !!?и(1/1/1/2) (5/4) (4/2) (2 2 2 XX 1 15.7 шт (4) 1/1/1/1 (4/2) (5/4) (4/2) (2/2) (2/4) (2/2) (2/	Sample IDs MUST BE UNIQU	Wipe Air Tissue Other						Unpreserved	[©] ONH	CO2S26N	Other	LAH ST STEX R						Jaco Drois	
Instruct Ingle Ingle Ingle Ingle Ingle Ingle 13 With With With With With With With 13 With With With With With With Min 13 With With With With With Min Min 13 With With With With Min Min 13 With With With With Min 14 With With With Min Min 12.19 With With With Min Min 12.19 With With Long Min Min 12.19 With With Long Min Min 12.19 With With Long Min Min 12.19 With Min Min Min Min 12.19 Min Min Min Min Min 12.19 Min Min Min Min Min 12.19 Min Min Min Min Min 12.11 Min Min Min <td< td=""><td>CE-MET</td><td></td><td></td><td></td><td>1-1</td><td>1</td><td>アプ</td><td>ト</td><td>2</td><td></td><td></td><td>X X</td><td></td><td></td><td></td><td></td><td></td><td>00</td><td></td></td<>	CE-MET				1-1	1	アプ	ト	2			X X						00	
ITD WTG IT1/1/945577/4/4/2 X XX IT2 QCG 135 WTG 13/1/1/1/94551544 2 2 XX 0.000 222 WTG 13/1/1/1/94551544 2 2 XX 0.000 222 WTG 13/1/1/1/94551544 2 2 XX 0.000 213 WTG 11/1/1/1/1/20014 2 2 XX 0.000 214 N 12/1/1/1/1/20014 2 2 2 2 212 WTG 12/1/1/1/1/2001 XX 0.000 0.000 213 WTG 12/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	ISI - MWH		ی لج		1/11	967034	Ĵ	4 2	~			X.X	_		-			200	
135 Lunt 6 12/10/11/200/19 (4: 22 XX 12/10/11/200/19 (4: 22 222 Lunt 6 12/10/11/200/19 (4: 22 XX 12/10/11/200/19 (4: 22 222 Lunt 6 12/10/11/200/19 (4: 22 XX 12/10/11/200/19 (4: 22 222 Lunt 6 12/10/11/200/19 (4: 22 XX 12/10/11/200/10 (2: 00/10/10) 223 Lunt 6 12/10/11/200/19 (2: 00/10/10) 20/11/200/10/10 12.14 Low 10 12/11/200/10/10 20/11/200/10/10 12.14 Low 10 Low 10 Low 10 12.1	HIMW-15	~	MTG		1/21	117 640	5-44		~			××						8	
Control Winding (#5.515 4) 2 X N Q wr15 0.1[q] 14.45 2	-		シート		μ	9/19/2	00 14		7			××						200	
Mart 4 171/19/17 1/4/17 2 <th2< th=""> <th2< th=""></th2<></th2<>	HIMW -22		wit 6		<u>7</u>	4/14/14:			7									500	
Samples interded inte	121210T. 81	4	ンドメ		21	14 14	4		ト		<u> </u>							000	
Samples initiad Samples initiad Sample	-						_							ļ				2	
SamPles Inter SamPles Inter SamPle									-		1			-		-			
Samples Inter Artilation bate Time samples Inter Countries Inter Countries Samples Inter Countries Sam									-		—	╞							
Samples intact RELINQUISHED BY AFFILATION RELINQUISHED BY AFFILATION RELINQUISHED BY AFFILATION DATE TIME Samples intact Custody Sealed Cooler PRINT Name of SamPLER: SamPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: M. D. M. C. M. D. M							-	-	╞		Ţ.								-
Samples Inlact Image: Samples Inlact ReLINQUISHED BY (AFFILATION DATE Time SAMPLE Sealed Cooler [2/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1						-	-					-		_					
RELINOUISHED BY / AFFILIATION DATE TIME AGCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS RELINOUISHED BY / AFFILIATION DATE TIME AGCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS Received on 2/1/9/17 1/5/02 1/2/19/17 1/5/02 1/2/19/17 1/10/15 SamPLER NAME AND SIGNATURE Received on Custody Custody 1/2/11/11 1/10/17 Relinition SamPLER: M DI S.C.O. 1/2/11/17 1/10/17 1/10/17 SamPLER NAME AND SIGNATURE M DI S.C.O. 1/2/11/17 1/10/17 1/11/17						<u> .</u>	-												
12/19/17 1502 12/19/17 1502 12/19/17 1502 12/19/17 1502 12/19/15 11/07 12/19/16 12/19/16 12/19/15 11/07 12/19/17 1502 12/19/16 12/19/17 1502 1 12/19/15 11/07 1 1 12/19/15 1 1 1 12/19/17 1 1 1 12/19/17 1 1 1 12/19/17 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1	ADDITIONAL COMM	lents	RELINOL	JISHED BY / AF	FILIATION		ATE	TIME		ACCE	PTED BY	AFFILIAT	N	DATI	-	ME		AMPLE CO	NDITIONS
12/14/15/16:05 12/14/15/16:05 12/14/15/16:05 12/14/15/16:05 NAME AND SIGNATURE 12/14/15/16:05 NAME AND SIGNATURE Custody Received on loce (Y/N) Date Source Retrieved on loce (Y/N) Date Source		PA A	129	the Var	X K	1/71	9/17	1502			et.			2/1/		j Š			
ымпеан маме алрые Inlact NAME AND SIGNATURE NAME AND SIGNATURE Custody Custo		Z	5	1. M		12/10	$\langle $	1605	Ą	N.	210	.)		1/2!	17/16.	3			
NAME AND SIGNATURE NAME AND SIGNATURE INT Name of SAMPLER: MD ((YNN) Custody				2				5											
NAME AND SIGNATURE NAME AND SIGNATURE WIT Name of SAMPLER: M D ふ S C C + T C C C C C C C C C C C C C C C C		2							 						-	-			-
MDUSCOL + I CHESAO MDUSCOL + I CHESAO Received Cor Automotioned 12/18/1-1 Automotioned 12/18/1-1				7S		ME AND SK	SNATURE								-		-		
					PRIN	T Name of S ATURE of S	AMPLER:	2C	2500	1	2	DATE St	1 1	21.81	Г			(boteu)	(V/Y)

e la	Sa	ample C	onditi	on Upon Re	eceipt
Face Analytical					
1.2.10 (1.14) 12-10 15	Client			Proje	w0#:7038591
	AE	CIN7			PM: JSA Due Date: 01/04/18
Courior: C Fed Ex UPS USPS C	ient Comm	ercial PP	ace []Dth	ner	CLIENT: AECOM-B
Tracking #:					-2
Custody Seal on Cooler/Box Present:	res 🗌 No			Seals intact:	3
Packing Material: Bubble Wrap	e Bags 🔲 Zip	otoc 🗌 None	. Dther	г	Type of Ice: Wt Blue None
Thermometer Used: TH092	Correct	ion Factor	+0.	0	Samples on ice, cooling process has begun
Cooler Temperature (°C):	Cooler T	emperatur	e Correct	ed (°C): <u>2.7</u>	Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C					
USDA Regulated Soil (CHIA, water samp	le)			Date and Initia	Is of person examining contents: <u>(7</u> / <u>////</u>)
Did samples originate in a quarantine zone within th NM, NY, OK, OR, SC, TN, TX, or VA (check map)?	YES				Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? YesiX No
If Yes to either question,	fill out a Re	gulated So	Checkli	st (F-LI-C-010) an	d include with SCUR/COC paperwork.
					COMINIEN 13.
Chain of Custody Present:	[]Yes	□No		1.	
Chain of Custody Filled Out:	C)Yes			2.	· · · · · · · · · · · · · · · · · · ·
Chain of Custody Relinquished:	Tyes			3.	
Sampler Name & Signature on COC:	CIYes .			4.	
Samples Arrived within Hold Time:	(I)Yes	□No 1		. 5.	······································
Short Hold Time Analysis (<72hr):	□Yes			6.	
Rush Turn Around Time Requested:	□Yes	ŪNo.		7.	
Sufficient Volume: (Triple volume provided for MS/M	SD DYes	□No		8.	
Correct Containers Used:	ElYes	□No		9	
-Pace Containers Used	Yes	□No		-	
Containers Intact:	di¥es	ΠNn		10	
Filtered volume received for Dissolved tests	□Yes	□No	EIFIA	11. Note if s	ediment is visible in the dissolved container.
Somple Labels match COC:	Dres	۵No	~	12	
-Includes date/time/ID/Analysis Matrix SL					
All containers needing preservation have been check	Ves	□No	rjini/^	13. 🗆 HNO	
pH paper Lot #					
All containers needing preservation are found to be i	n			Sample #	
compliance with EPA recommendation? (HNO,, H2SO4, HCI, NaOH>9 Sulfide,	□Yes	□No	ETHA		
MAOH-12 Cyanide)			(
Exceptions NOA), Coliform, TOC/DOC, Oil and Great DRO/6015 (water)	ise,			Initial when compl	eted. Lot # of added preservative: Date/Time preservative added
Per Method, VOA pH is checked after analysis					
Samples checked for dechlorination:	□Yes	□No	LINIA	14.	
Residual chlorine strips Lot #			-	Positive	for Res. Chlorine? Y N
I-leadspace in VOA Vials (>Gmm):	□Yes	Chio ,	⊡N/A	15.	
Trip Blank Prescol:	⊡Yes	GN0	CINIA	16	
Trip Blank Custody Seals Present	□Yes	- ONo	AMA .		
Pace Trip Blank Lot # (if applicable):		· · ·			
Client Notification/ Resolution:	اختلاب بيجيع والنبية			Field Data Requi	red? Y / N
Person Contacted				Date/T	ime
Comments/ Resolution:					
				17	

WO#:7038591

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately.

Page: / of /	193446	REGULATORY AGENCY NAS DE C	NPDES X GROUND WATER DRINKING WATER	UST RCRA OTHER	Site Location	STATE: N	Requested Analysis Filtered (Y/N)		
							Requested	NN	
Section C	Invoice Information: Attention.	Company Name	Address:	Pace Oucte Reference:	Pace Project Manager:	Paue Profile #		Preservatives	
	Reports Deter Fairbanks				med Gird Kungsfrig	2		Codes Codes Collected Collected	
Se Se Se	AELem			Email Tor JON SUND QUISTO AT ALM. (SM	Phone. Fax	Requested Due Daty TAT Project Humber 6041192.0	/	Section D Matrix Codes Required Client Information Matrix / CODE	Drinking Water DW

				CULLEC		-	L.	212	Preservatives	es	2 1	N			_				
	Drnnking Water DW Water WT Waste Water WW Product P Soil/Solid SL	t solios billov oas DD=D_BAAD=	COMPOSITE START	<u>۳</u>	COMPOSITE END GRAB	OFFECTION	S				¢9 1	04			-	(N/A)			
	Wipe Air					D TA 9						75				ənitolr			
		DO XIATAM SAMPLE TYR	DATE	TME	DATE	RAMPLE TEN	# OF CONT	HNO ³ H ⁵ 20 ⁴ Nublezelive	N ⁹ OH HCI	Ofher Methanol Na ₂ S ₂ O ₃	sisylsnAl X ST R	H₩J				IO lsubis9∑	Dare D	roiort No	Dara Droiart No / Lah I D
SED-WWIH		5 13		1-1	11	41 528	4	T	2		X	र							
HIMW-03T				21	1-12	11 0021	÷	7	4		12	x						Name and Provide State Of Contraction of Contractions	00000000000000000000000000000000000000
HIMW-03D				21	11/0	935 14	4-		X		X	×				+			
エイーして				4	1-1-2	1405 14	t t		2		×	×		_					
HCM-12H					11	910 14	t	4	オ		× 	×					and the second se		
HIMW-13D				2	11-11-2	+1 0+01	4	2	よ			X							
HIMW -IFD				r L	オーチ	35 14	4		ಗ		[×	×							
122117102912	(281-)			<u>5</u>	000010117	41 00	5		ょ		×								
					-					_	L				_	-			
122121025+				2	1 4/12	11 00	Ч		7	-	×				-		a de de como e maior esta e de como e ma		
											.[1			
											<u> </u>					-			
ADDITIONAL COMMENTS		RELINQUI	RELINQUISHED BY / AFFILIATION	FFILIATION		DATE	TIME	ш	×.	CCEPTE	DBYIAF	ACCEPTED BY I AFEU IATION		DATE	TIME		SAMPLE	SAMPLE CONDITIONS	NS
	IC AL	Ger	Reia	N.	2	rihut?	20C1	کر ا	15	1	1	N	IP.	11/18	1209				
	1.1		1 St		1	Clipto	1615	A	N.		N		1	MLLLL LI	1(0,15)	ľ.	7	2	5
					×			5	\$				1	5	2)	+))	-
Pa	2	2				•													
je 4				AMPLER A	SAMPLER NAME AND SIGNATURE	SIGNATUR	. u						-			1			126
6 of			4	PR	PRINT Name of SAMPLER	SAMPLER	1.	JOHN (Ce 500	0						ui d	(N\Y)	(N/) PoO p	(N/) ea lui
40				¥S.	SIGNATURE of SAMPLER:	SAMPLER		Lun l	5			DATE Signed (MM/DD/YY):	2	20/1-1		пөТ	90)	else2) dweg

S	Sa	imple C	onditi	ion Upon Receipt
Pace Analytical				
	Client	Name:	2	Proj. WO#:7038591 PM: JSA Due Date: 01/04/18
Courier:] Fed Ex] UPS [USPS]				PM: JSA Due Date: 01/04/00 ner CLIENT: AECOM~B
Tracking #:		,		
Custody Seal on Cooler/Box Present: M	Yes No			Seals intact: 💭 📖 📋 🗤
Packing Material: Bubble Wrap	ble Bags 🔲 Zir	loc Kione	Dther	Type of Ice: Wet Blue None
Thermometer Used: THO92		ion Factor		
Cooler Temperature (°C):	Cooler T	emperatur	Correct	ed (°C): 1 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C				
USDA Regulated Soil (MA, water san	nple)			Date and Initials of person examining contents:
Did samples originate in a quarantine zone within NM, NY, OK, OR, SC, TN, TX, or VA (check map))? 🗌 YES	NO NO		
If Yes to either questio	n, fill out a Reg	gulated So	Спески	st (F-LI-C-010) and include with SCUR/COC paperwork.
Chain of Custody Present:	TYes	□No		1.
Chain of Custody Filled Out;	DYes			2.
Chain of Custody Relinquished:	DYes			3
Sampler Name & Signature on COC: 1	UVes			4.
Samples Arrived within Hold Time:	DYes			5.
Short Hold Time Analysis (<72hr):	 □Yes	EiNo		6.
Rush Turn Around Time Requested:	 			7
Sufficient Volume: (Triple volume provided for MS				8,
Correct Containers Used:		⊡No		9.
-Pace Containers Used:	TYes	□No		
Containers Intact:	Lives	ΠNo		10.
Filtered volume received for Dissolved tests	□Yes		GINÏA	11. Note if sediment is visible in the dissolved container
Sample Labels match COC:	Offes	⊡No		12.
Includes date/time/ID/Analysis Matrix S	SL WTOIL		I	
All containers needing preservation have been che	ecked _Yes	□No	DN/A	
pH paper Lot #				э.
All containers needing preservation are found to be	ein			Sample #
compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCI, NaOH>9 Sulfide,	⊡Yes	□No	EN/A	
NAOH>12 Cyanide)				
Exceptions: VOA, Coliform, TOC/DOC, Oil and Gr DRO/8015 (water).	ease,			Initial when completed: Lot # of added preservative: Date/Time preservative addee
Per Melhod, VOA pH is checked after analysis				
Samples checked for dechlorination:	□Yes	□No	JZKI/A	14
Residual chlorine strips Lot #				Positive for Res Chlorine? Y N
leadspace in VOA Vials (>6mm):	□Yes	ot the	⊡N/A	15
rip Blank Present:	(Tye)	10No	DN/A	16
rip Blank Cuslody Seals Present	EN.	□No	⊡N/A	
ace Trip Blank Lot # (if applicable):				
Client Notification/ Resolution:				Field Data Required? Y / N
Person Contacted:				Date/Time.
Comments/ Resolution:				

2155213	MSDEC WATER F DRINKING WATER		Jual Chlorine (Y/N)	Re Project No/ Lab I.D.	SAMPLE CONDITIONS	FALL Temp in *C Samples Intact (Y/N) Scaled Cooler (Y/N) Custody Scaled Cooler AlL-Q.020reved on (Y/N)
Page:	SENCY N GROUND WATER RCRA	N				J° ni qmaī
ay.	REGULATORY AGENCY NPDES X GROUN	Site Location State:			DATE TME	LIFER
<u> </u>	- Same	Project Number 60419200 Para Prantos Project Number 604119200 Para Prantos	PH 201 PH 20	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	RELINQUISHED BY AFFILIATION DATE THE ACCEPTED BY AFFILIATION	Important Note: By signing this form you are accepting Pace's NET 10 day payment terms and agreeing to late charges of 15% per month for any involces not paid within 30 days
Pace Analytical' www.patelabs.com Section A Required Client Information: Required I Required I Address: A ECOM	. Sundquister AECOM. COM	d Due DaterTAT: 5 12 m Land	Required Clent Information Matrix Codes Required Clent Information Matrix Codes MATRIX . Codes Matrix	11 11 11 12 12 12 12 12 12 12	12 ADDITIONAL COMMENTS	Lans space the full state of the page the of the page the space of the page

,

5	Sa	ample Cond	ition Upon Provint
Face Analytical			WU#:7038504
	Client	Name:	P PM: JSA Due Date: 01/04/18 CLIENT: AECOM-B
	a summer .		CLIENT: AECOM-B
Courier: Fed Ex UPS USPS		nercial [] Pace [Dither ACCOM-B
Tracking #:			2
Custody Seal on Cooler/Bex Present:] Yes _ No		Seals intact: Yes No
Packing Material: Bubble Wrap			ther Type of Ice: Wer Blue None
Thermometer Used: TH092		tion Factor: +	
Cooler Temperature (°C): 17.8		Temperature Corre	
Temp should be above freezing to 0.0°C			
USDA Regulated Soil (HNA, water san	nple)		Date and Initials of person examining contents: $5B/2/22//$
Did samples originate in a quarantine zone within NM. NY. OK. OR. SC. TN. TX, or VA (check map)	the United States	SLI NO	A, ID, LA, MS, NC, Did samples orignate from a foreign source (internationally including Hawaii and Puerto Rico)? Yes No
If Yes to either questio	n, fill out a Re	gulated Soil Cheo	cklist (F-LI-C-010) and include with SCUR/COC paperwork.
			COMMENTS:
Chain of Custody Present:	NYes	□No	1.
Chain of Cuslody Filled Out:	. IYes	[]No	2.
Chain of Cuslody Relinquished:	ΠYes		3
Sampler Name & Signature on COC: '	lÝas		
Samples Arrived within Hold Time:	(DYes		5.
Short Hold Time Analysis (<72hr):	□Yes		6
Rush Turn Around Time Requested:	□Yes	Citio	7.
Sufficient Volume: (Triple volume provided for MS	MSD CIYes		8.
Correct Containers Used:	LiYes	□No	9.
-Pace Containers Used	ElYes	No	
Containers Intact:	DYes		10.
Filtered volume received for Dissolved tests	⊡Yes	Ellio PNI	
Sample Labels match COC;	Taves	□No	12
	SL (W) OIL		
All containers needing preservation have been che	OCKED [Yes		A 13. HNO3 H2SO4 N2OH HCI
pH paper Lot #			0
All containers needing preservation are found to b compliance with EPA recommendation?	e in		Sample #
(HNO ₂ , H ₂ SO ₄ , HCI, NaOH>9 Sulfide,	□Yes		A
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Gr	rease,		
DRO/8015 (water). Per Method, VOA pH is checked after analysis			Initial when completed: Let # of added preservative: Date/Time preservative added
Samples checked for dechlorination:	□Yes	DNO PIN	
Residual chlorine strips Lot #			Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	ClYcs	Ellio Chu	A 15.
Trip Blank Present:	□Yes	CHIG EIMA	
Trip Blank Custody Seals Present	C)Yes		Α
Pace Trip Blank Lot # (if applicable):		سمر ک	
Client Notification/ Resolution.			Field Data Required? Y / N
Person Contacled			Date/Time:
Comments/ Resolution:			

ww.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/18 Pace Project No.: 7038591

Method:EPA 8270DDescription:8270 MSSVClient:AECOMDate:January 03, 2018

General Information:

16 samples were analyzed for EPA 8270D. 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.

QC Batch: 51357

S0: Surrogate recovery outside laboratory control limits.

- DUP (Lab ID: 238175)
 - · 2-Fluorophenol (S)
 - Phenol-d5 (S)
- HIMW-14D (Lab ID: 7038591013)
 - 2-Fluorophenol (S)
 - Phenol-d5 (S)

QC Batch: 51523

S0: Surrogate recovery outside laboratory control limits.

- MS (Lab ID: 238614)
 - 2-Chlorophenol-d4 (S)
 - 2-Fluorobiphenyl (S)
 - · 2-Fluorophenol (S)
 - Phenol-d5 (S)

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.

REPORT OF LABORATORY ANALYSIS

www.pacelabs.com

Project:NATIONAL GRID HEMPSTEAD 12/18Pace Project No.:7038591

Method:EPA 8270DDescription:8270 MSSVClient:AECOMDate:January 03, 2018

Matrix Spikes:

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

QC Batch: 51523

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7038591016

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 238614)
 - Acenaphthene
 - Acenaphthylene
 - Fluorene
 - Naphthalene

Duplicate Sample:

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

QC Batch: 50917

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 236811)
 - Fluorene
 - Phenanthrene
 - Pyrene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

www.pacelabs.con

Project: NATIONAL GRID HEMPSTEAD 12/18 Pace Project No.: 7038591

Method:EPA 8260C/5030CDescription:8260C Volatile OrganicsClient:AECOMDate:January 03, 2018

General Information:

19 samples were analyzed for EPA 8260C/5030C. 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.

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.

Duplicate Sample:

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

QC Batch: 51245

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

• DUP (Lab ID: 238224)

Benzene

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

MSV - FORM III VOA-1 WATER VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York Date Extracted: 12/28/2017 Instrument 70MSV6

Duplicate Sample No: 7038591010DUP

Date Analyzed: <u>12/28/2017</u>

Lab Sample ID: HIMW-14I

Lab File ID: 122817.B\J41949.D SDG No.: 7038591

COMPOUND	SAMPLE CONCENTRATION (ug/L)	DUPLICATE CONCENTRATION (ug/L)	RPD	RPD LIMITS
Benzene	2.4	1.8	(28)	0-20
Ethylbenzene	<1.0	<1.0	\bigcirc	0-20
Toluene	<1.0	<1.0		0-20
Xylene (Total)	<2.0	<2.0		0-20

	2155212	MSDEC	GROUND WATER C DRINKING WATER	OTHER					(N/A)	Pace Project No./ Lab I.D.	ī C	505	603 0	004		0006	3				40	SAMPLE CONDITIONS	> ~ ~ ~ ~	マシュ		s Inlact Cooler Doy M) Bed on Bed on	i qməT Peceive Y) sol Sealed (Y) A(Y) A(Y) A(Y)
accurately.		REGULATORY AGENCY	NPDES C GROUN	- UST - RCRA	Site Location A/X	STATE: //	Requested Analysis Filtered (Y/N)															DATE TIME	Jar 15:05	10/2/14/ 16/2/10/	-		540
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Section C	ř	Company Name.		lie e:	lect		Requested A	Preservatives		Unpreserved H,SQ, HOG, Methanol Other Oth				4 1	2 2 X X		2 X	2 2 X X	× ×			ACCEPTED BY / AFFILIATION	··· // W/ @ (c v	· // ··			Meen Duch + JoHN Cres
The Chain-of-Custody is a LEGAL DC Section C	UST Attention:		Address:	Pace Quole Reference:	601 HENS Feel Manager	-		COLLECTED		В Н Semple Temp At C	14191135-14 4	オキノシュ		141514 8	+ 11/160	1003 12 4	840 12 4	1 2 1 2	++	· · · · · · · · · · · · · · · · · · ·	2 2	ATION DATE TIME	ALON PALLA E	1247		NAME AND SIGNATURE	PRINT Name of SAMPLER: N
	REPORTO: TON SUNCLOU	L L L L		Purchase Order No	Vational	Project Number. 12 0 竹1920		0 (ett.)	MU P P P P P P P P P P P P P P P P P P P	역 중 중 55 년 8) 3000 XIRTAM		المرتاق	WT 6	1-16	5	5		212	2 12			RELINQUISHED BY / AFFILIATION	Welson Word /	1 Land and		SAMPLER	-
Pace, Section A Required Click Info	C.OM			Email To:	Phone: Fax:	Raquested Due Date/TAT:		Section D Matrix Codes Required Cilent Information MATRIX / CODE	Drnking Water Water Waste Water Product Solf/Solid	SAMPLE ID ON (A-Z, 0-9.1 -) Air Sample IDs MUST BE UNIQUE Trissue Other	AMW-08D	1+1MW-08I	1+1MW-085	CISMIZE OSS MS/141	FLMWIH	HIMW-051	- MW	HIMM - 20 S	HINW-JET		1520171227	ADDITIONAL COMMENTS					5 of 38

35 of 1055

Sample Condition Upon Receipt

5)

	Client I	Name:		Proje W	0#:7039	190
	F	RLCM	N	PM	: JSA Due Da	te: 01/11/18
Courier:] Fed Ex] UPS []USPS] C	lient Comm	ercial 🕖 Pa	ice Dth		IENT: AECOM-B	
Fracking #:						
Custody Seal on Cooler/Box Present: 👩	Yes No			Seals intact: 🖉 Yes 🗌	No	
Packing Material: Bubble Wrap			Diher	т	ype of Ice: VVe) Blu	ie None
Thermometer Used: (H0)2		ion Factor:		າ 🗆 s	amples on ice couling	process has begun
Cooler Temperature (°C): $177/7$		emperaturo			ate/Time 5035A kits p	laced in freezer
Temp should be above freezing to 6.0°C		·		- Hor		
JSDA Regulated Soil (N/A, water sam	pie)			Date and Initials of per	son examining conter	nts [//]]
Did samples originate in a quarantine zone within t		AL. AR. CA.	FL GA, ID	LA MS NC D	id samples orignate from a	foreign source (internationally
UM NY OK OR SC TN TX or VA (check map)	? YES	NO		11	ncluding Hawaii and Puerto	
If Yes to either question	n, fill out a Reg	gulated Soi	l Checkli	t (F-LI-C-010) and includ		perwork.
					COMMENTS:	······
Chain of Custody Present:	Ellies					
Chain of Cuslody Filled Out:	<u>∏</u> ¥es	⊡No		2.		
Chain of Custody Relinquished:	Dires	□No		3.		
Sampler Name & Signature on COC:	CIY <u>es</u>	□No	DN/A	4.		
Samples Arrived within Hold Time:	LIYes	DN0		5.		
Short Hold Time Analysis (<72hr):	QYes	ENO		6		
Rush Turn Around Time Requested:	C)Yes	CHIG		/		
Sufficient Volume: (Triple volume provided for MS/	MSD Laves			8.		
Correct Containers Used	Tyes	⊡No		9.		
-Pace Containers Used:	Pres	□No	100			
Containers Intact:	D rfes	N∩		10.		
interce volume received for Dissolved tests	□Yes	ONo	, IINIA		s visible in the dissolved co	ntainer
Sample Labels match COC:	ETYes	□No		12		
-Includes date/time/ID/Analysis Matrix S Il containers needing preservation have been che						
	□Yes	□No	CINA	13 🗆 HNO ₃ 🗖	H₂SO₄ □ NaOH	
H paper Lot #	. 1_		and the second	Sample #		
NI containers needing preservation are found to be compliance with EPA recommendation?	n s			Bample F		
HNO2, H2SO4, HCI, NaOH>9 Sulfide,	□Yes	ΩNo	CIN/A			
dAOH:-12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Gre	ease,		40. L			n i mi
Per Method, VDA pH is checked after analysis				Initial when completed: Lo	ol # of added preservative:	Date/Time preservative adde
Samples checked for dechlorination:	□Yes	□No	UMA	14 Positive for Res. 0	Chlorino2 M N	
Residual chlorine strips Lot #					Jaonney T IN	
leadepace in VOA Vials (>6mm):	□Yes	121710	⊡N/A	15		
Frip Blank Present:	□Yes	Unio	EJN/A	16		
rip Blank Custody Seals Present	DYes	_]I∤o	C2N/A			
Pace Trip Blank Lot # (if applicable):	-	-				
Client Notification/ Resolution:				Field Data Required?	Y / N	
Person Contacled:				Date/Time:		



CHAIN-OF-CUSTODY / Analytical Request Document

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

A C A	Recort Tor		., Information		7		Section Invoice In	Section C Invoice Information: Attention	:uo			ſ			Page:	1932437	
W	Copy To:]	ton sund	いしょう	13t -		E O	Company Name:	4				REGULATORY AGENCY	AGENC	×		
			-		-		Address:	ess.					NPDES	Ø GRO	GROUND WATER	ER DRINKING WATER	ATER
	Purchasi	Purchase Order No					Pace Refer	Pace Quote Reference:					UST	RCRA		OTHER	
Fax	Project N	Jame: N	Project Name: Nahowal	PU T	ter	2 ten	Pace Pru Manager	Pace Pruject Managen					Site Location		-		
Requested Due Date/TAT . Hundre	Project Number:	umber: (02611400)	९			Pace	ace Profile #:					STATE	4			
												Requested Analysis Filtered (Y/N)	alysis Filter	(N/A) pa			
Section D Required Client Information	Matrix Codes MATRIX / CODE		(10)	COLLECTED	CTED			<u>م</u>	Preservatives	ves	1 N /A	2					
	Drinking Water DW Water WT Waste Water WW Product P Soll/Solid SL) зарса ріјил ж	GRAB C=CC	щ	COMPOSITE END GRAB							0L 29			(N/J)		
SAMPLE ID (A-2, 0-9/ -) Sample (Ds MUST BE UNIQUE		e) adod Xirtam	H Sample Type (G=	IME	LATE	T	# OF CONTAINERS	H ⁵ SO ⁴ Jubieserved	NªOH HCI HNO ³	Va _z S _z O ₃ Methanol	Cher Analysis Test	78 H¥8 28 ×2-51			Sesidual Chlorine		
HIMW-285		5 IM		+-	Str Str Str		<u>м</u>	4	A			X					Ī
2632				-	71817	5	3 4	4	N		<u>۲</u>	X				CC27 VR)	5
オーション - 267					70 	0760	3 4	4	2			X				Charles 200	
らにて						1150	34	7	9		r	XX				F	014
HAW - 27 H		_						2	2			X				Cert	OIS
DUP 2017 1228	(CONZ -)				- ->			7	7			××				COR	010
820171228			>	-		1301		<u></u>	7			- 				667	51
1228		÷>			1 728117	0/21	<u>で</u> 4	4	7			X				800	018
							_										
ADDITIONAL COMMENTS		RELIN	RELINQUISHED BY / AFFILIATION	FFILIATIO	7	DATE		TIME	-	ACCEPT	ED BY /	ACCEPTED BY AFFILIATION	DATE	TIME	-	SAMPLE CONDITIONS	
	M	S.	Las l	ć		LIBRA.	71-11-	11					11:41 11/82/21	11:71	1		
		5															
	-				-		-						-		4		

, Ures Do not paid within 30 days. 44 ł SIGNATURE OF SAMPLER: "Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to jate charges of 1 5% per month

PRINT NAME OF SAMPLER: MD LUSCO (1 + J

SAMPLER NAME AND SIGNATURE

Page 37 of 38

samples Intact (V/Y)

Custody' Seeled Cooler (Y/V)

Received on Ice (Y/N)

O' ni qm∋T

122517

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

0	Sa	mple C	onditio	on Upon Re	eceipt
Pace Analytical					W04.7030186
	Client	Name:		Proje	
		AFC	:OM	·	PM: JSA Due Date: 01/11/18
ourier: 🔲 Fed Ex 🗌 UPS 📋 USPS 🕂 🗸	lient Comm	ercial 🗍 Pa	ace Dthe	er	CLIENT: AECOM-B
acking #:					
istody Seal on Cooler/Box Present: 🗌	Yes Tho	/		Seals intact:	
acking Material: Bubble Wrap	le Bags Ezip	loc None	e [_Dther		Type of Ice: (Wet) Blue None
ermometer Used: TH092	Correct	ion Factor	+ 0.0		Samples on ice, cooling process has begun
ooler Temperature (°C): 5.4.1	Cooler To	emperature	e Correcte	d (°C): <u>5, 14</u>	Date/Time 5035A kits placed in freezer
emp should be above freezing to 6:0°C					SR 12/28/1
SDA Regulated Soil (🖂 🗐 🗛, water sam				Date and Initia	Is of person examining contents: $SS \frac{12.28/1}{2.8}$
d samples originate in a quarantine zone within N, NY, OK, OR, SC, TN, TX, or VA (check map)	? YES	LENO			Did samples orignate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
If Yes to either question	n, fill out a Reg	gulated So	II Checklis	t (F-LI-C-010) an	Id include with SCUR/COC paperwork.
		⊡No		1.	
hain of Custody Present:	ElYes			2.	
hain of Custody Filled Out:	.ElYes			3.	
hain of Cuslody Relinquished:	La Yes			4.	
ampler Name & Signature on COC	ElYes			5.	
amples Arrived within Hold Time:	⊡Yes			6.	
nort Hold Time Analysis (<72hr): ush Turn Around Time Requested:	 □Yes	EIÑo		7.1	
Ifficient Volume: (Triple volume provided for MS				8.	
prrect Containers Used:	DYes	□No		9.	
-Pace Containers Used.	Tres	□No			·
ontainers Intact;	Dives	ΠNo		10.	
Itered volume received for Dissolved tests	□Yes	⊡No	DIVA	11. Note if s	sediment is visible in the dissolved container.
ample Labels match COC	Eves	□No		12.	
-Includes date/lime/ID/Analysis Matrix S	sv wt)oi∟				
containers needing preservation have been che	Ves	□No	EINIA	13. 🗆 HN	O ₃ □ H₂SO₄ □ NaOH □ HCI
l paper Lol #			٠		
Il containers needing preservation are found to b	e in		-	Sample #	
ompliance with EPA recommendation? HNO3, H2SO4, HCI, NaOH>9 Sulfide,	□Yes	□No	Carlia		
AOH=12 Cymulde) exceptions(VOA) Coliform, TOC/DOC, Oil and Gi	ease,				
RO/8015 (wetdr). er Method, VOA pH is checked alter analysis				Initial when comp	pleted. Lot # of added preservative: Date/Time preservativo adde
amples checked for dechlorination:	□Yes	[]No	LINIA	14. Decilius	Jas Bon Chloriny? V N
esidual chlorine strips Lot #					e for Res. Chlorine? Y N
eadspace in VOA Vials (>6mm):	⊡Yes	□ No	L'IMÍA	15.	
ip Blank Present:	□Yes	GND -	Editi/A	16	
rip Blank Custody Seals Present	□Yes	□No	E NIA		
ace Trip Blank Lot # (if applicable)	AND AND A VIEW AND A		1. M. L		
lient Notification/ Resolution:				Field Data Requ	
Person Contacted:				Date/	nine.
Comments/ Resolution					

Project:	NATIONAL GRID HEMPSTEAD 12/27
Pace Project No .:	7039186

Method:EPA 8270DDescription:8270 MSSVClient:AECOMDate:January 09, 2018

General Information:

16 samples were analyzed for EPA 8270D. 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.

QC Batch: 51679

S0: Surrogate recovery outside laboratory control limits.

• HIMW-201 (Lab ID: 7039186008)

2,4,6-Tribromophenol (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

• FB20171228 (Lab ID: 7039186018)

Nitrobenzene-d5 (S)

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: 51638

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7039186003

R1: RPD value was outside control limits.

• MSD (Lab ID: 239325)

2-Methylnaphthalene

REPORT OF LABORATORY ANALYSIS

www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/27 Pace Project No.: 7039186

Method: EPA 8270D Description: 8270 MSSV

Client: AECOM Date: January 09, 2018

QC Batch: 51638

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7039186003

R1: RPD value was outside control limits.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- · Benzo(b)fluoranthene
- Benzo(g,h,i)perylene
- Benzo(k)fluoranthene
- Chrysene
- Dibenz(a,h)anthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene
- Naphthalene
- Phenanthrene
- Pyrene

Duplicate Sample:

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

Additional Comments:

Analyte Comments:

QC Batch: 51679

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 239547)
 - 2,4,6-Tribromophenol (S)

DUP20171228 (Lab ID: 7039186016)
2,4,6-Tribromophenol (S)
FB20171228 (Lab ID: 7039186018)
2,4,6-Tribromophenol (S)
HIMW-05D (Lab ID: 7039186006)
2,4,6-Tribromophenol (S)
HIMW-05I (Lab ID: 7039186005)
2,4,6-Tribromophenol (S)

- HIMW-05S (Lab ID: 7039186004)
- 2,4,6-Tribromophenol (S)
- HIMW-201 (Lab ID: 7039186008)
- 2,4,6-Tribromophenol (S)
- HIMW-20S (Lab ID: 7039186007)
 2,4,6-Tribromophenol (S)

REPORT OF LABORATORY ANALYSIS

ce Analytic www.pacelabs.com

Project: NATIONAL GRID HEMPSTEAD 12/27 Pace Project No.: 7039186

Method:EPA 8270DDescription:8270 MSSVClient:AECOMDate:January 09, 2018

Analyte Comments:

QC Batch: 51679

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

• HIMW-26D (Lab ID: 7039186012) 2,4,6-Tribromophenol (S) • HIMW-26I (Lab ID: 7039186013) • 2,4,6-Tribromophenol (S) • HIMW-271 (Lab ID: 7039186015) • 2,4,6-Tribromophenol (S) • HIMW-27S (Lab ID: 7039186014) • 2,4,6-Tribromophenol (S) • HIMW-28I (Lab ID: 7039186009) 2,4,6-Tribromophenol (S) • HIMW-28S (Lab ID: 7039186011) • 2,4,6-Tribromophenol (S) • LCS (Lab ID: 239438) • 2,4,6-Tribromophenol (S) • MS (Lab ID: 239546) • 2,4,6-Tribromophenol (S)

REPORT OF LABORATORY ANALYSIS

www.pacelabs.con

Project: NATIONAL GRID HEMPSTEAD 12/27 Pace Project No.: 7039186

Method: EPA 8260C/5030C

Description:8260C Volatile OrganicsClient:AECOMDate:January 09, 2018

General Information:

18 samples were analyzed for EPA 8260C/5030C. 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.

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.

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS