NRG Potomac River LLC
8301 Professional Place
Suite 230
Landover, MD 20785

April 27, 2015

Mr. Alex Wardle
Virginia Department of Environmental Quality (DEQ)
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Re: **First Quarter 2015 CAP Implementation Monitoring Report**
NRG Potomac River Generating Station
1400 North Royal Street, Alexandria, VA
PC #2013-3154

Dear Mr. Wardle:

NRG Potomac River LLC (PRGS), is pleased to submit the First Quarter 2015 CAP Implementation Monitoring Report (CMR). The following activities were conducted during this monitoring period (February 7, 2015 to March 31, 2015):

- Quarterly groundwater sampling of the monitoring wells;
- Weekly gauging of select wells; and
- Monthly gauging data submittals for February and March.

As requested by the DEQ in the March 17, 2015 CAP approval letter, this CMR includes a summary table of the routine monitoring locations and frequency of sampling to be conducted during CAP implementation and post remediation monitoring (Table 6). Additionally, a list of permits required for CAP implementation is included in the CMR.

If you have any questions or require additional information please contact me at (678) 641-2503 or by email at burt.mccullough@nrg.com.

Sincerely,

Burt McCullough
Director, Environmental Remediation

CLIENT:	Potomac River Generating Station LLC Burt McCullough / Director Environmental Remediation, NRG
CONSULTANT:	Groundwater & Environmental Services, Inc. Gregory Reichart / Senior Project Manager, GES

REGULATORY:

Agency:	Virginia Department of Environmental Quality
Agency Contact:	Mr. Alex Wardle
PC #:	2013-3154
CAP Tracking Number:	513
Project Phase:	CAP Implementation - Sub Phase 1
Reporting Period:	February 7, 2015 to March 31, 2015

ACTIVITIES PERFORMED DURING REPORTING PERIOD:

Quarterly Groundwater Sampling:

Routine groundwater sampling for standard parameters was performed on all monitoring that were accessible, contained enough water for sampling, and did not contain measureable thicknesses of LNAPL.
Dates – February 25, February 26, and March 4, 2015
# of Wells / # Sampled – 50/36

Analytical Laboratory/ Methods:

Standard Parameters – All Wells
- TPH-DRO C10-C28 (SW-846 8015B)

MNA Parameters – Select Wells
- Alkalinity (SM 2320B)
- Nitrate NO3 -1 (EPA 353.2)
- Manganese (Metals 6000 series Mn2+)
- Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)
- Sulfate SO42- (EPA 300.0)
- Methane (RSKSOP-175 modified)

Additional Parameters – Select Wells
- BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B)
- TPH-GRO C6-C10 (SW-846 8015B)
- PAHs by SIM (SW-846 8270C SIM)
- HEM Oil and Grease (EPA 1664A)
- Turbidity (SM 2130B)

*See Appendix A - Reimbursement Verification Documentation for a list of wells that were sampled and the parameters analyzed for each well.

Weekly Gauge & Bail:

February 9, 2015 - select wells
February 18, 2015 - select wells
February 24, 2015 - all wells including headspace readings and down well field parameters
March 4, 2015 - select wells
March 11, 2015 - select wells
March 18, 2015 - select wells
March 25, 2015 - select wells

Monthly Data Submittals:	March 3, 2015 March 30, 2015
EFR Events:	None performed this reporting period per DEQ request
EFR Event Data Submittals:	Not Applicable
Other Activities:	Public Comment CAP Responses DEQ CAP approval was received on March 17, 2015 Ongoing system design and permitting

QUARTERLY DATA SUMMARY:

Depth to Water Range:	2.67 (TW-14) to 27.68 ft (MW-25)
Dissolved Benzene Range:	Non-Detect (ND) <0.5 µg/L (various wells) to 8 µg/L (MW-72)
Dissolved Naphthalene Range:	ND<30 µg/L (various wells) to 8.3 µg/L (MW-27)
Dissolved TPH-DRO Range:	ND<45 µg/L (various wells) to 2,200,000 µg/L (MW-25S)

Maximum LNAPL Thickness per Well:

Well	LNAPL Thickness (ft)
MW-01S	0.15
MW-05	0.10
MW-25S	0.31
MW-25	0.70
MW-51	0.14

Hydraulic Gradient:	0.014 feet/foot Northeast (shallow) 0.028 feet/foot Northeast (deep)

PERMIT SUMMARY:

Special Use	Required for: Recovery well installation and connections on Mt. Vernon Trail. Issued by: National Parks Service Fee: $50 Progress: Permit research completed. Will request an onsite meeting with the National Parks Service Concessions Specialist in 2015 Q2.
Building x 2	Required for: Pre-fabricated systems/enclosures (Building Plan OR Existing Commercial Tenant Improvement OR Industrialized Building/Construction Trailer) Issued by: The City of Alexandria, Permit Center Estimated fee: $1,900 each (includes fees for initial site plan review, zoning review, building plan review, plan revisions if necessary, non-residential tenant improvement or non-residential special construction, and modular/factory-built building) Progress: NA. Application will be submitted immediately after fabricator provides final building plans.

Certificate of Occupancy x 2	Required for: Authorization to occupy building Issued by: The City of Alexandria, Department of Code Administration Estimated fee: $157.50 each (fee for commercial space 1,000 square feet and less) Progress: NA. Will be applied for when the initial building permit and plans are submitted for review.
VPDES	Required for: Discharges of any pollutant into surface waters of the Commonwealth of Virginia, including stormwater discharges. Exclusions include discharges into otherwise permitted treatment systems. *NRG does not intend to discharge effluent to surface waters or stormwater systems.*
Letter of Authorization	Required for: Sanitary sewer discharges less than 25,000 gallons per day with low risk of negatively impacting the sanitary sewer system Issued by: Fairfax County Industrial Waste Section, Alexandria Sanitation Authority/Alexandria Renewal Enterprises Fee: $100 Progress: Discussions and initial coordination with Alexandria Renew Enterprises have begun. The physical condition of the existing sanitary discharge line will be evaluated in 2015 Q2.
Groundwater Withdrawal	Required for: Any person or entity withdrawing 300,000 gallons or more of groundwater in any one month *NRG will withdraw groundwater at a rate below this limit.*
Minor New Source Review	Required for: Non-emergency generators with uncontrolled air emissions above the rates listed in 9VAC5-80-1105 C.1. (e.g. 25 tons per year VOCs) but less than 100 tons per year of any criteria pollutant Issued by: Virginia Department of Environmental Quality Estimated Fee: $1,574 Progress: NA. An air permit applicability determination will be completed in 2015 Q2 when effluent treatment calculations are complete. If exemption criteria is met: written notification will be submitted 30 days prior to commencing the operational period. If permit is required: non-binding applicability determination may be requested (30 day review), followed by permit application (90 day review process), and possible public hearing (additional 90 days).

Noise	Required for: Construction noise occurring Monday-Friday before 7 am or after 6 pm, Saturday before 9 am or after 6 pm, Sunday (any hour), and holidays (any hour). *Noise Control Code Section 11-5-1.* Issued by: The City of Alexandria, Department of Transportation and Environmental Services, Division of Construction and Inspection Fee: $50 Progress: NA. Work days will commence and end within the specified permissible construction hours. Should a permit be required, the permit application will be submitted 10 business days (minimum) prior to the specific activity.

FUTURE ACTIVITES (2Q2015):

- Routine quarterly groundwater sampling for TPH-DRO and MNA and annual VOCs
- Weekly LNAPL gauging and bailing.
- Biweekly HIT Events on select wells containing >0.5 feet of LNAPL
- System designs and bidding
- CAP Implementation permitting and coordination
- Electrical power drop coordination and procurement
- Sanitary sewer discharge location coordination and permitting
- Recovery, sparge, and delineation well installation
- Bulkhead seep sealing
- Monthly submittal of gauging data
- Submittal of CAP Implementation Monitoring Reports

ATTACHMENTS:

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LIST OF APPENDICES

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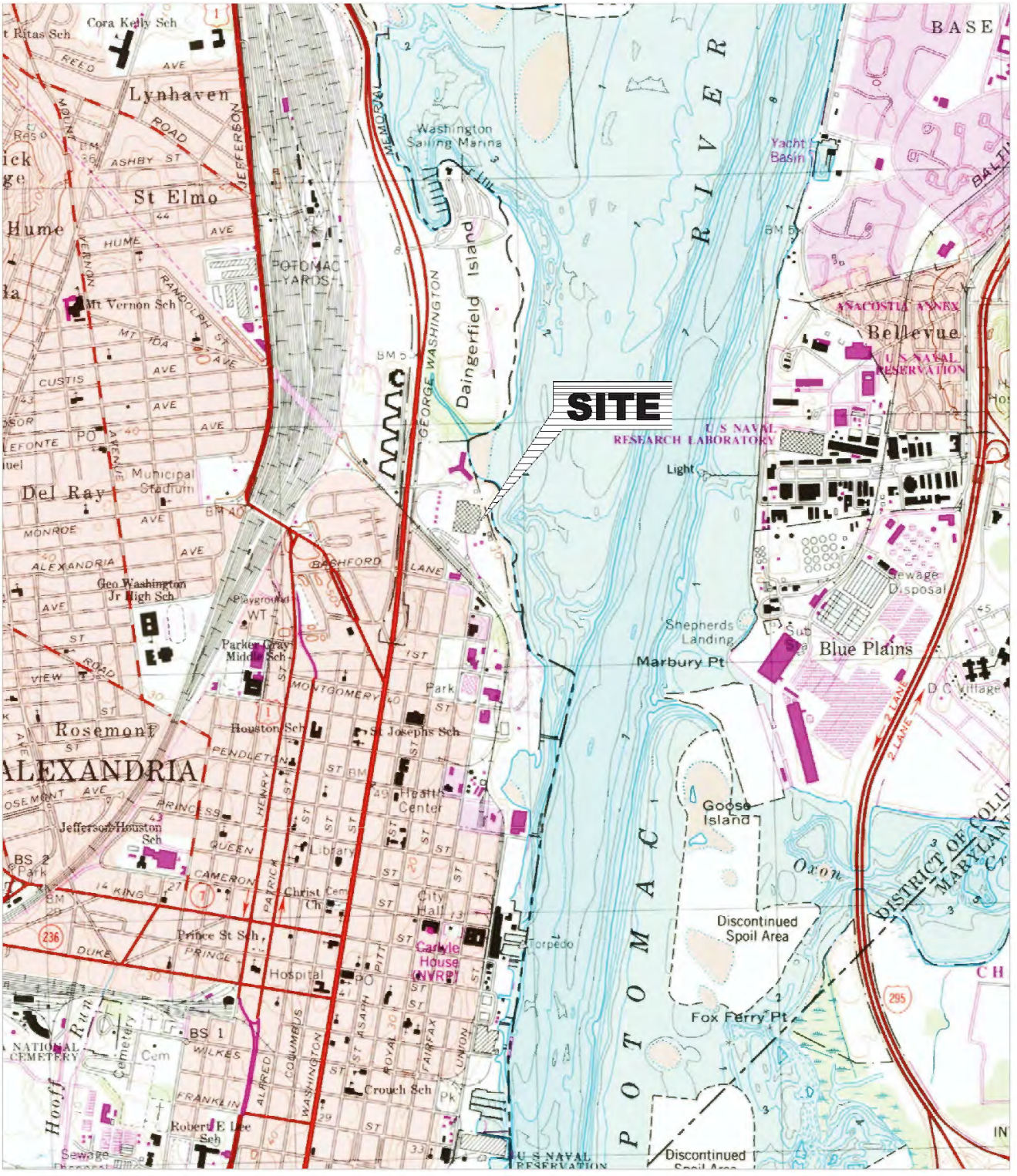
Appendix B	Laboratory Report and Chain of Custody Documentation

FIGURES



REFERENCE: "ALEXANDRIA, VIRGINIA"
7.5' QUADRANGLE, USGS, (1965,
PHOTOREVISED 1983, BATHYMETRY 1982).

QUADRANGLE LOCATION
NO SCALE

SITE LOCATION MAP

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE:	MARCH 2015	DOCUMENT NO.	
PROJECT NO.	MEM1108	FIGURE NO.	1

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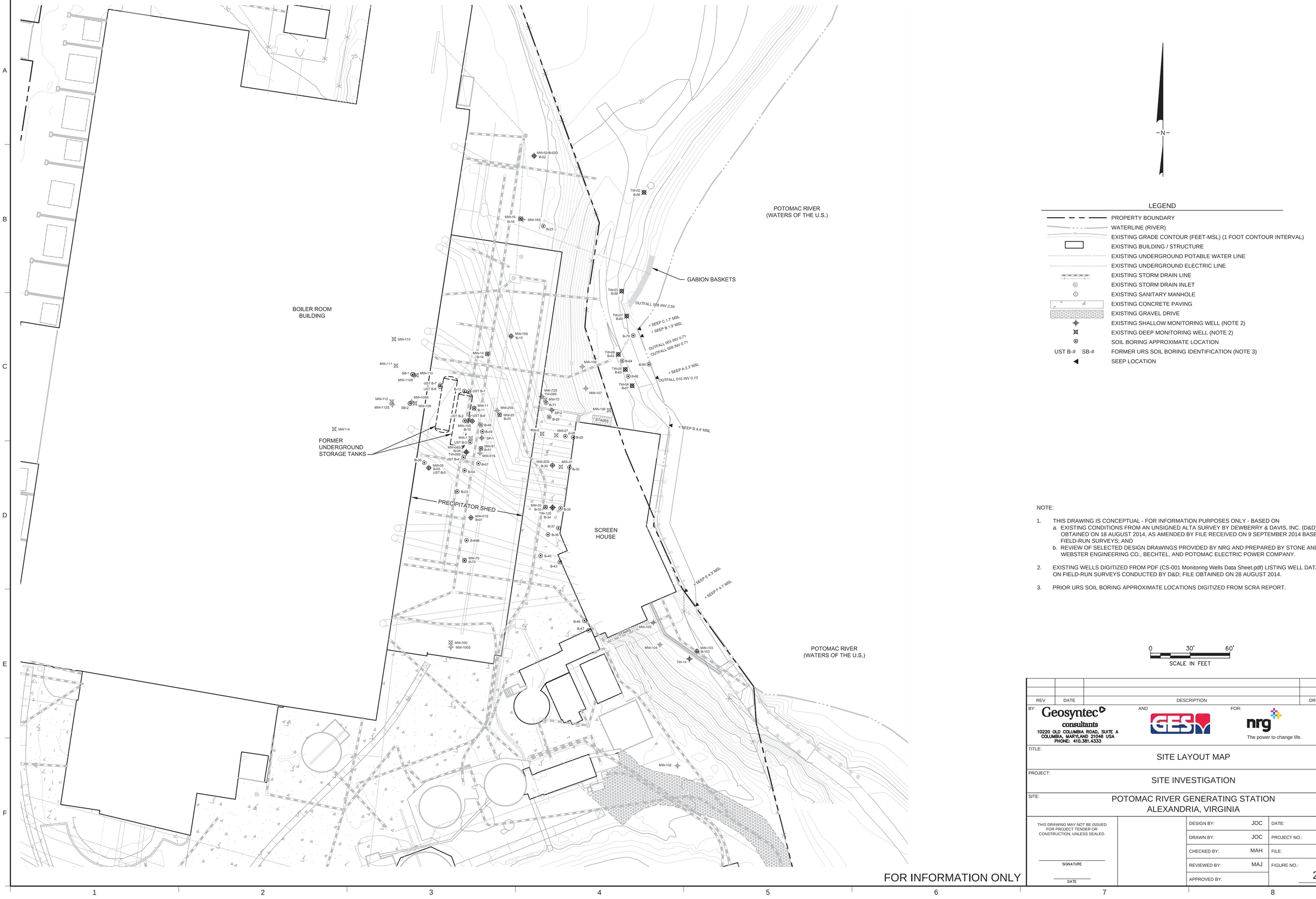


LEGEND

- PROPERTY BOUNDARY
- WATERLINE (RIVER)
- EXISTING GRADE CONTOUR (FEET-MSL) (1 FOOT CONTOUR INTERVAL)
- EXISTING BUILDING / STRUCTURE
- EXISTING UNDERGROUND POTABLE WATER LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORM DRAIN LINE
- EXISTING STORM DRAIN INLET
- EXISTING SANITARY MANHOLE
- EXISTING CONCRETE PAVING
- EXISTING GRAVEL DRIVE
- EXISTING SHALLOW MONITORING WELL (NOTE 2)
- EXISTING DEEP MONITORING WELL (NOTE 2)
- SOIL BORING APPROXIMATE LOCATION
- UST B-# SB-# FORMER URS SOIL BORING IDENTIFICATION (NOTE 3)
- SEEP LOCATION

NOTE:

1. THIS DRAWING IS CONCEPTUAL - FOR INFORMATION PURPOSES ONLY - BASED ON
   a. EXISTING CONDITIONS FROM AN UNSIGNED ALTA SURVEY BY DEWBERRY & DAVIS, INC. (D&D) OBTAINED ON 18 AUGUST 2014, AS AMENDED BY FILE RECEIVED ON 9 SEPTEMBER 2014 BASED ON FIELD-RUN SURVEYS; AND
   b. REVIEW OF SELECTED DESIGN DRAWINGS PROVIDED BY NRG AND PREPARED BY STONE AND WEBSTER ENGINEERING CO., BECHTEL, AND POTOMAC ELECTRIC POWER COMPANY.
2. EXISTING WELLS DIGITIZED FROM PDF (CS-001 Monitoring Wells Data Sheet.pdf) LISTING WELL DATA BASED ON FIELD-RUN SURVEYS CONDUCTED BY D&D; FILE OBTAINED ON 28 AUGUST 2014.
3. PRIOR URS SOIL BORING APPROXIMATE LOCATIONS DIGITIZED FROM SCRA REPORT.

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

BY: Geosyntec consultants
10220 OLD COLUMBIA ROAD, SUITE A
COLUMBIA, MARYLAND 21046 USA
PHONE: 410.381.4333

AND GES

FOR: nrg — The power to change life.

TITLE: SITE LAYOUT MAP

PROJECT: SITE INVESTIGATION

SITE: POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

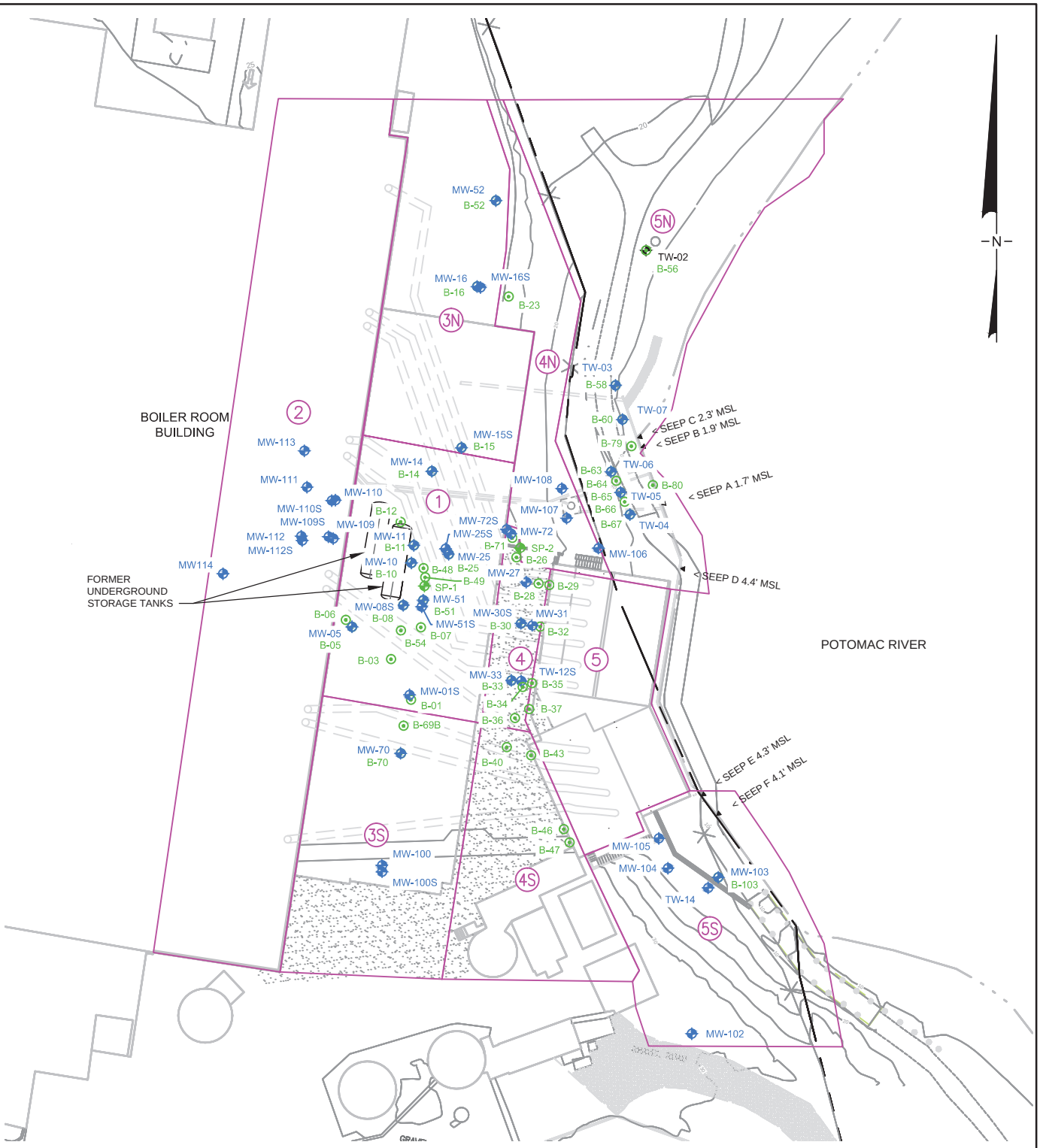
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JOC	DATE:	MARCH 2015
DRAWN BY:	JOC	PROJECT NO.:	MEM1108
CHECKED BY:	MAH	FILE:	1108F702
REVIEWED BY:	MAJ	FIGURE NO.:	2
APPROVED BY:			

FOR INFORMATION ONLY



LEGEND

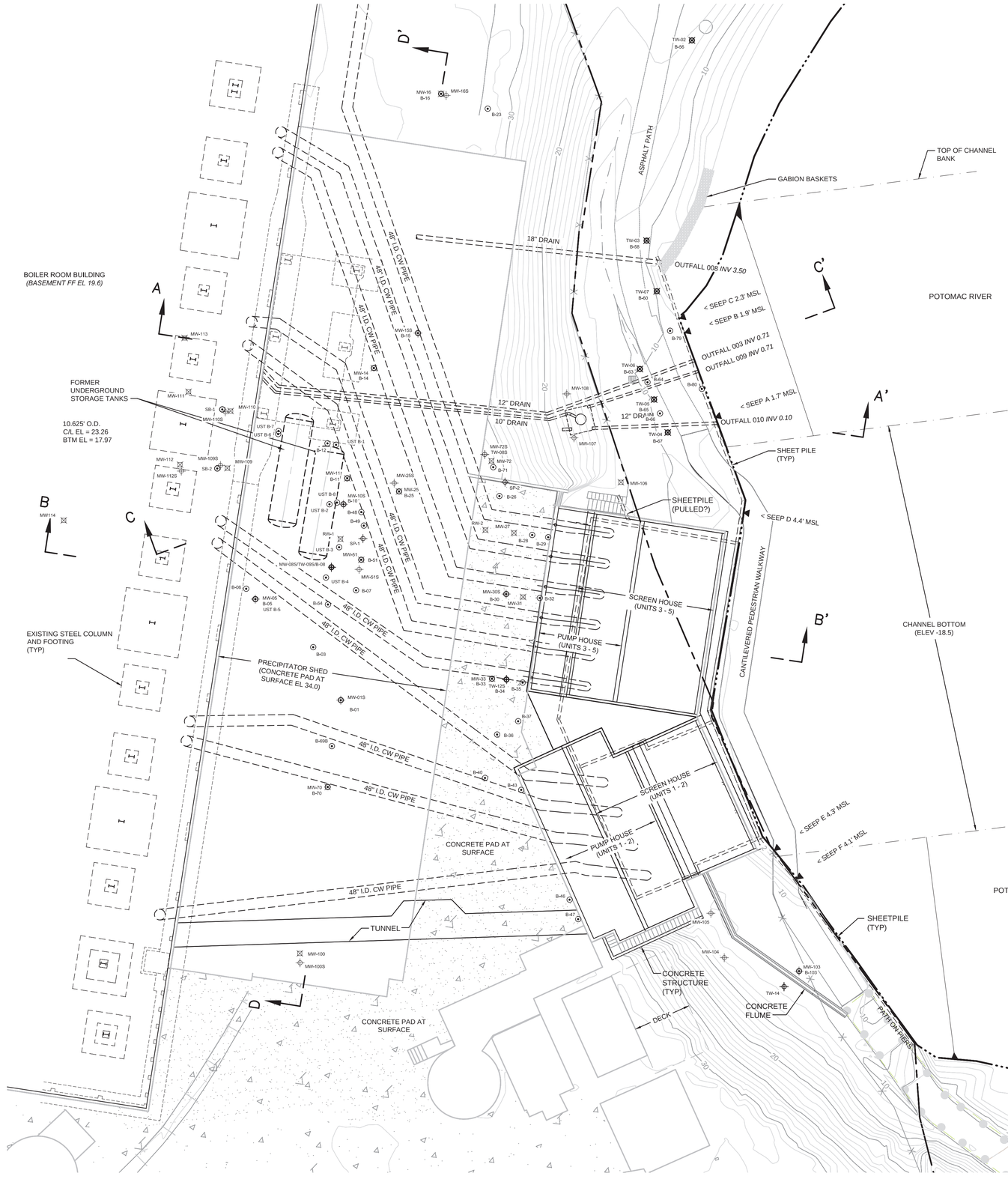
- Property Boundary
- Waterline (river)
- Monitoring Well
- LIF Location
- (1) Study Area Zone Boundary and ID

STUDY AREA MAP

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE: MARCH 2015	DOCUMENT NO.
PROJECT NO. MEM1108	FIGURE NO. 3



LEGEND

- PROPERTY BOUNDARY
- WATERLINE (RIVER)
- EXISTING GRADE CONTOUR (FEET-MSL)
- EXISTING BUILDING / STRUCTURE
- EXISTING UNDERGROUND POTABLE WATER LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORM DRAIN LINE
- EXISTING STORM DRAIN INLET
- EXISTING SHALLOW MONITORING WELL
- EXISTING DEEP MONITORING WELL
- SOIL BORING APPROXIMATE LOCATION
- UST B-# SB-# FORMER URS SOIL BORING IDENTIFICATION (NOTE 3)
- SEEP LOCATION
- EXISTING FOOTING, APPROXIMATE LOCATION, ELEVATIONS UNKNOWN

GENERAL NOTES:

1. THIS DRAWING IS CONCEPTUAL - FOR INFORMATION PURPOSES ONLY - BASED ON:
   a. EXISTING CONDITIONS FROM AN UNSIGNED ALTA SURVEY (NRG ALTA.dwg) BY DEWBERRY & DAVIS, INC. (D&D) OBTAINED ON 18 AUGUST 2014, AS AMENDED BY FILE (NRG Potomac Topo.dwg) RECEIVED ON 9 SEPTEMBER 2014 BASED ON FIELD-RUN SURVEYS; AND
   b. REVIEW OF SELECTED DESIGN DRAWINGS PROVIDED BY NRG AND PREPARED BY STONE AND WEBSTER ENGINEERING CO., BECHTEL, AND POTOMAC ELECTRIC POWER COMPANY.
2. HORIZONTAL LOCATIONS ARE AS-BUILT EXCEPT BELOW GRADE FEATURES. DATA SHOWN IN ITALICS IS AS-BUILT DATA (SEE NOTE 1a ABOVE); DATA NOT IN ITALICS IS DESIGN DATA (SEE NOTE 1b ABOVE).
3. EXISTING WELLS DIGITIZED FROM PDF (CS-001 Monitoring Wells Data Sheet.pdf) LISTING WELL DATA BASED ON FIELD-RUN SURVEYS CONDUCTED BY D&D; FILE OBTAINED ON 28 AUGUST 2014.
4. PRIOR URS SOIL BORING APPROXIMATE LOCATIONS DIGITIZED FROM SCRA REPORT.
5. SEE FIGURES 11A THROUGH 11D FOR SITE CROSS SECTIONS.

0 20' 40'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP

BY: Geosyntec consultants
10220 OLD COLUMBIA ROAD, SUITE A
COLUMBIA, MARYLAND 21046 USA
PHONE: 410.381.4333

AND GES

FOR: nrg
The power to change life.

TITLE: SITE MAP

PROJECT: SITE INVESTIGATION

SITE: POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

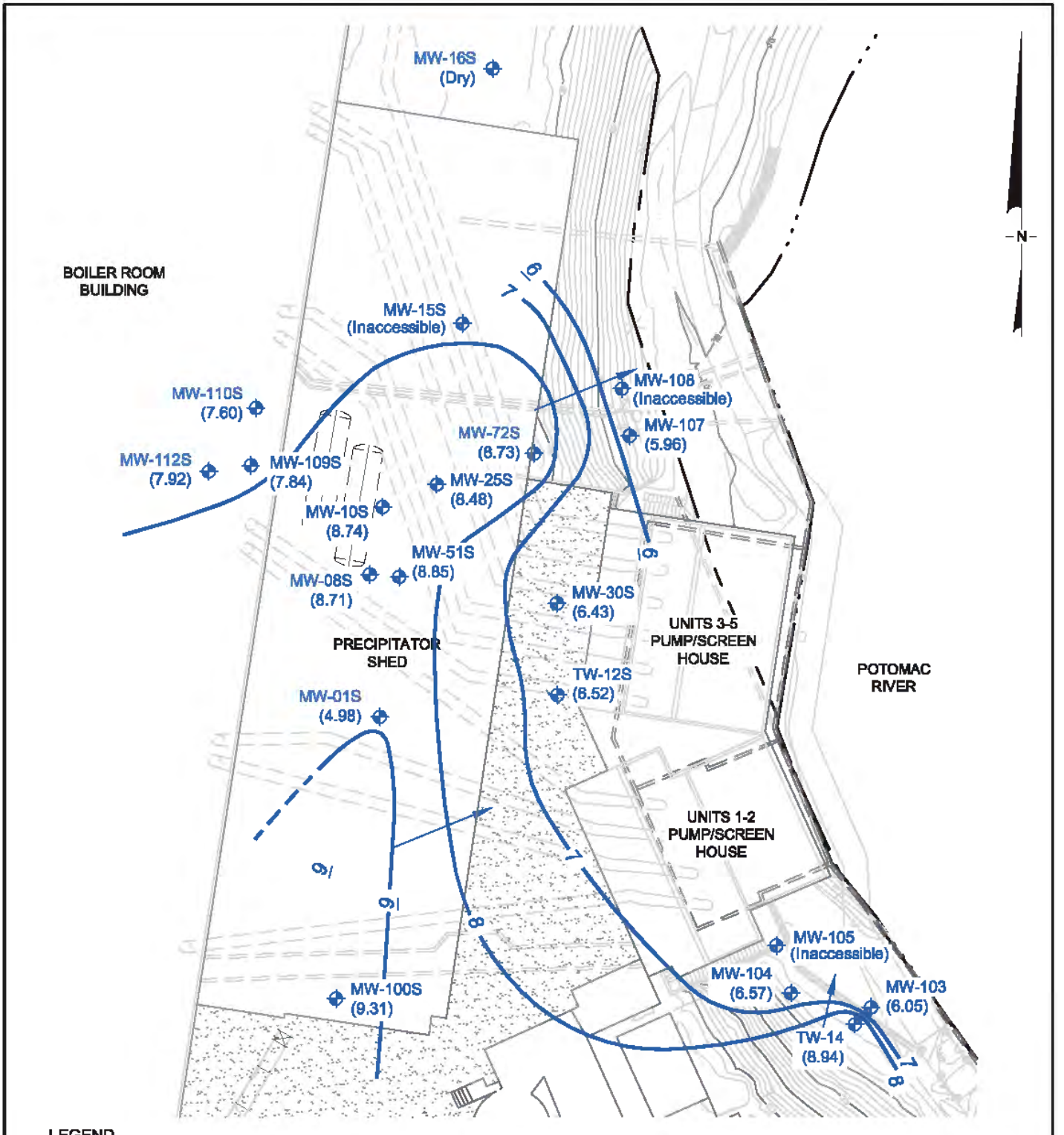
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	JOC	DATE:	MARCH 2015
DRAWN BY:	JOC	PROJECT NO.:	MEM1108
CHECKED BY:	MAH	FILE:	1108F704
REVIEWED BY:	MAJ	FIGURE NO.:	4
APPROVED BY:			

FOR INFORMATION ONLY



NOTES:
Depth to water gauged on 24 February 2015.

MW-01S was not used to generate the groundwater contours.

MW-105, MW-15S, and MW-108 were inaccessible due to snow/ice cover.

POTENTIOMETRIC SURFACE – SHALLOW ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE:	APRIL 2015	DOCUMENT NO.	
PROJECT NO.	MEM1108	FIGURE NO.	5

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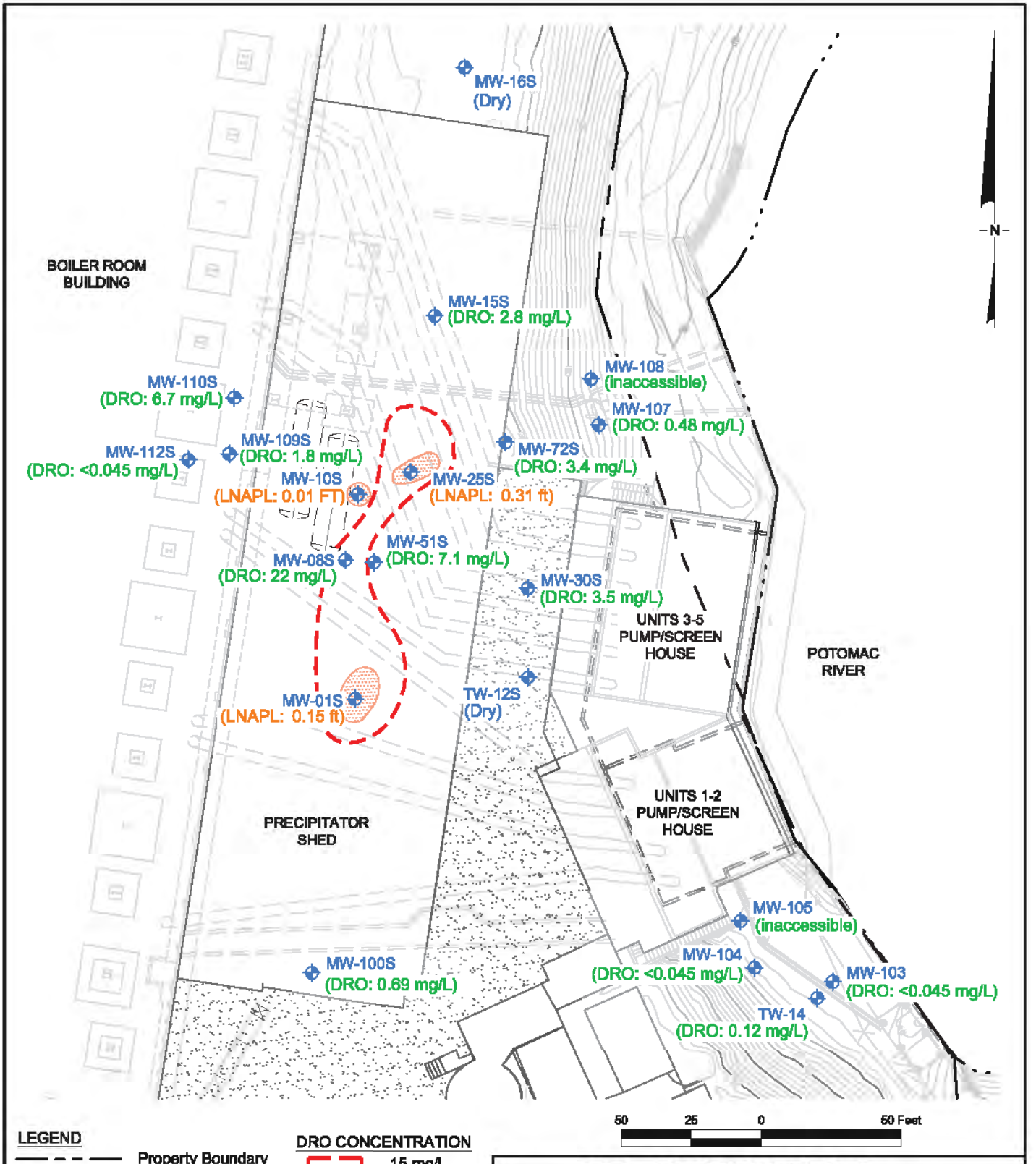

LEGEND

- Property Boundary
- Waterline (river)
- Monitoring Well

DRO CONCENTRATION

- 15 mg/L

LNAPL THICKNESS

- 0.01 ft

NOTES:

DRO - Diesel Range Organics
LNAPL - Light Non-Aqueous Phase Liquid (thickness)
ug/L - micrograms per liter

Samples and measurements taken between 25 February 2015 and 4 March 2015. Data are shown only where samples were collected or LNAPL was observed.

DRO CONCENTRATIONS AND LNAPL THICKNESS – SHALLOW ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE:	MARCH 2015	DOCUMENT NO.	
PROJECT NO.	MEM1108	FIGURE NO.	6

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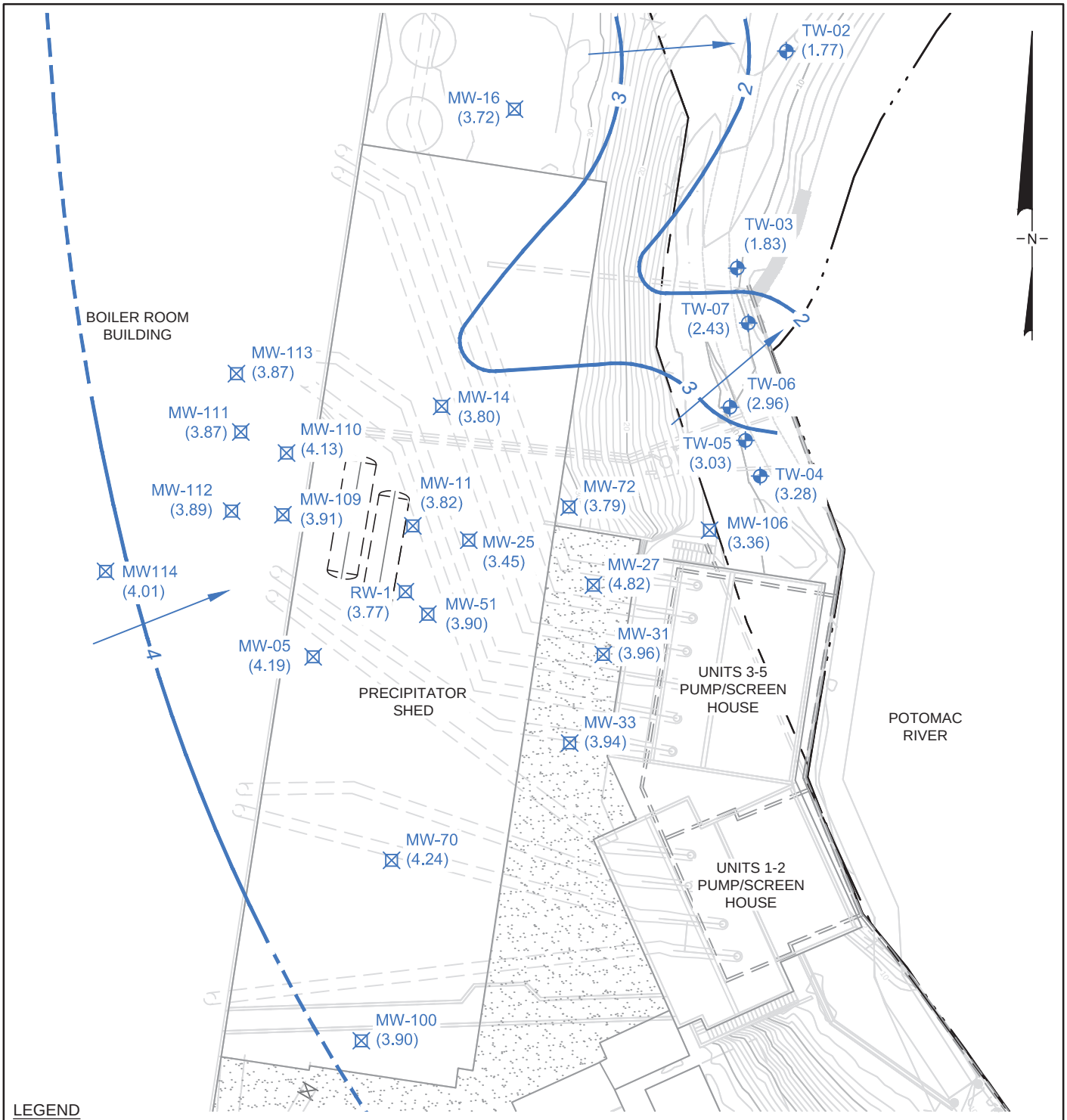


LEGEND

- Property Boundary
- Waterline (river)
- Monitoring Well — Well ID (Water Elevation)
- Groundwater Flow Direction
- Inferred Potentiometric Contour
- Inferred Potentiometric Contour

NOTES:

Depth to water gauged on 24 February 2015.

MW-05, MW-70, MW-110, and MW-111 were not used to generate the potentiometric surface because they appear to be screened across both shallow and deep zones.

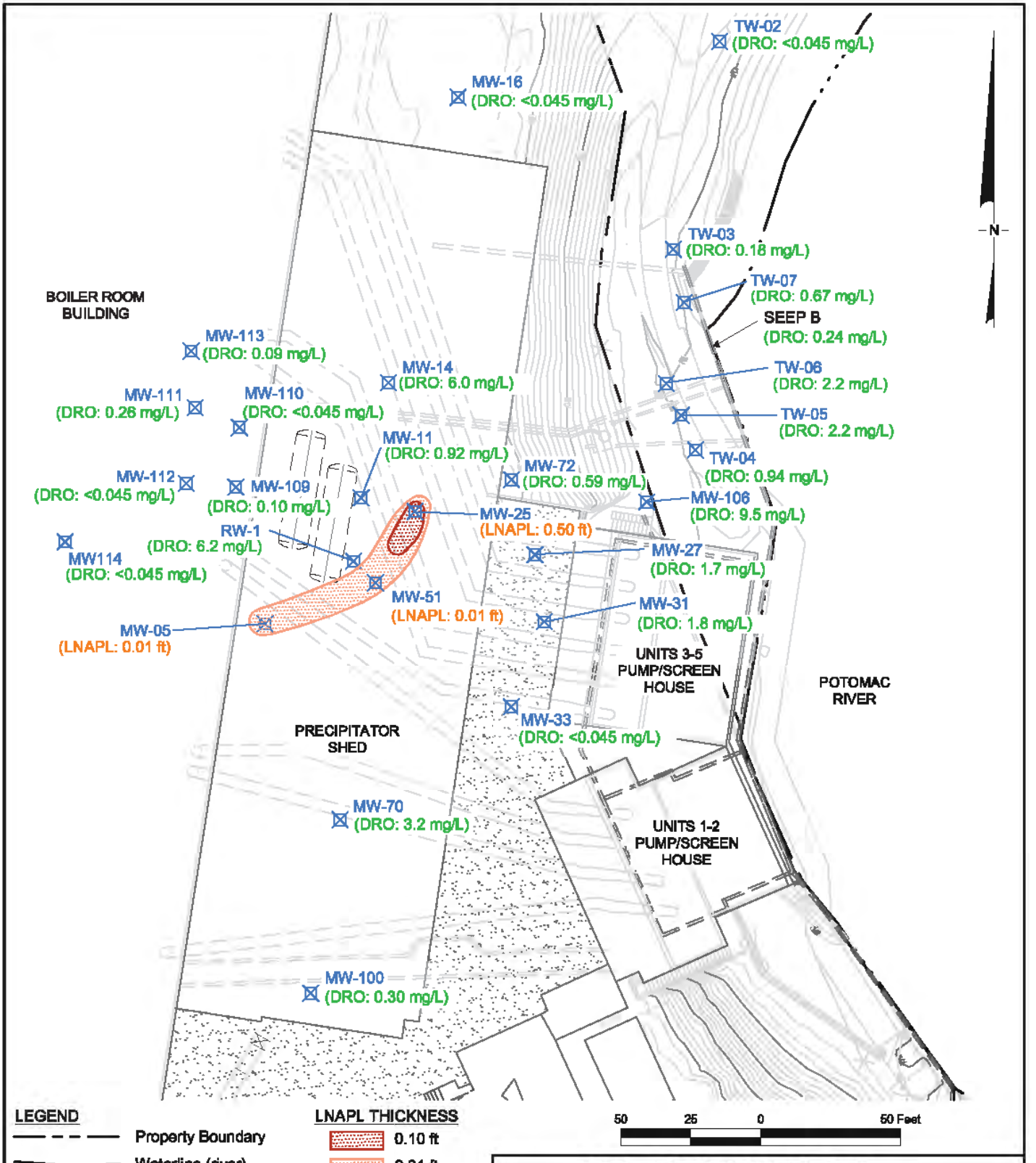
MW-27 was not used to generate the potentiometric surface map because the data appears to be anomalous.

POTENTIOMETRIC SURFACE – DEEP ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE: MARCH 2015	DOCUMENT NO.
PROJECT NO. MEM1108	FIGURE NO. 7



LEGEND

- Property Boundary
- Waterline (river)
- Monitoring Well
- Seep

LNAPL THICKNESS

- 0.10 ft
- 0.01 ft

NOTES:
DRO - Diesel Range Organics (in ppb)
LNAPL - Light Non-Aqueous Phase Liquid (thickness, in feet)
ug/L - micrograms per liter

Samples and measurements taken between 25 February 2015 and 4 March 2015. Data are shown only where samples were collected or LNAPL was observed.

DRO CONCENTRATIONS AND LNAPL THICKNESS – DEEP ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE:	MARCH 2015	DOCUMENT NO.	
PROJECT NO.	MEM1108	FIGURE NO.	8

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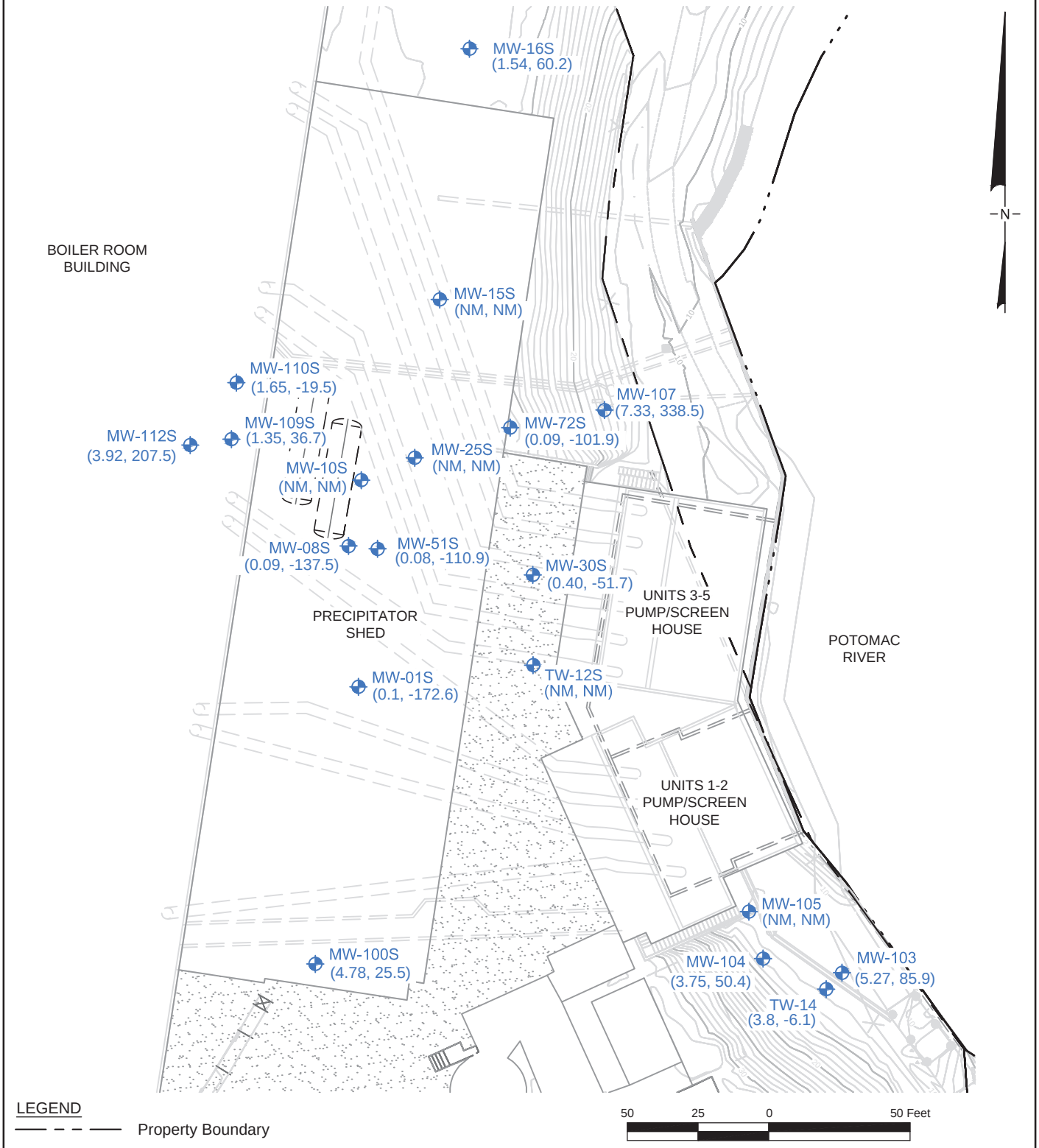


LEGEND

Property Boundary

Waterline (river)

Monitoring Well (DO,ORP)

NOTES:

DO - Dissolved Oxygen in mg/L
ORP - Oxidation-Reduction Potential in mV
NM - Not Measured

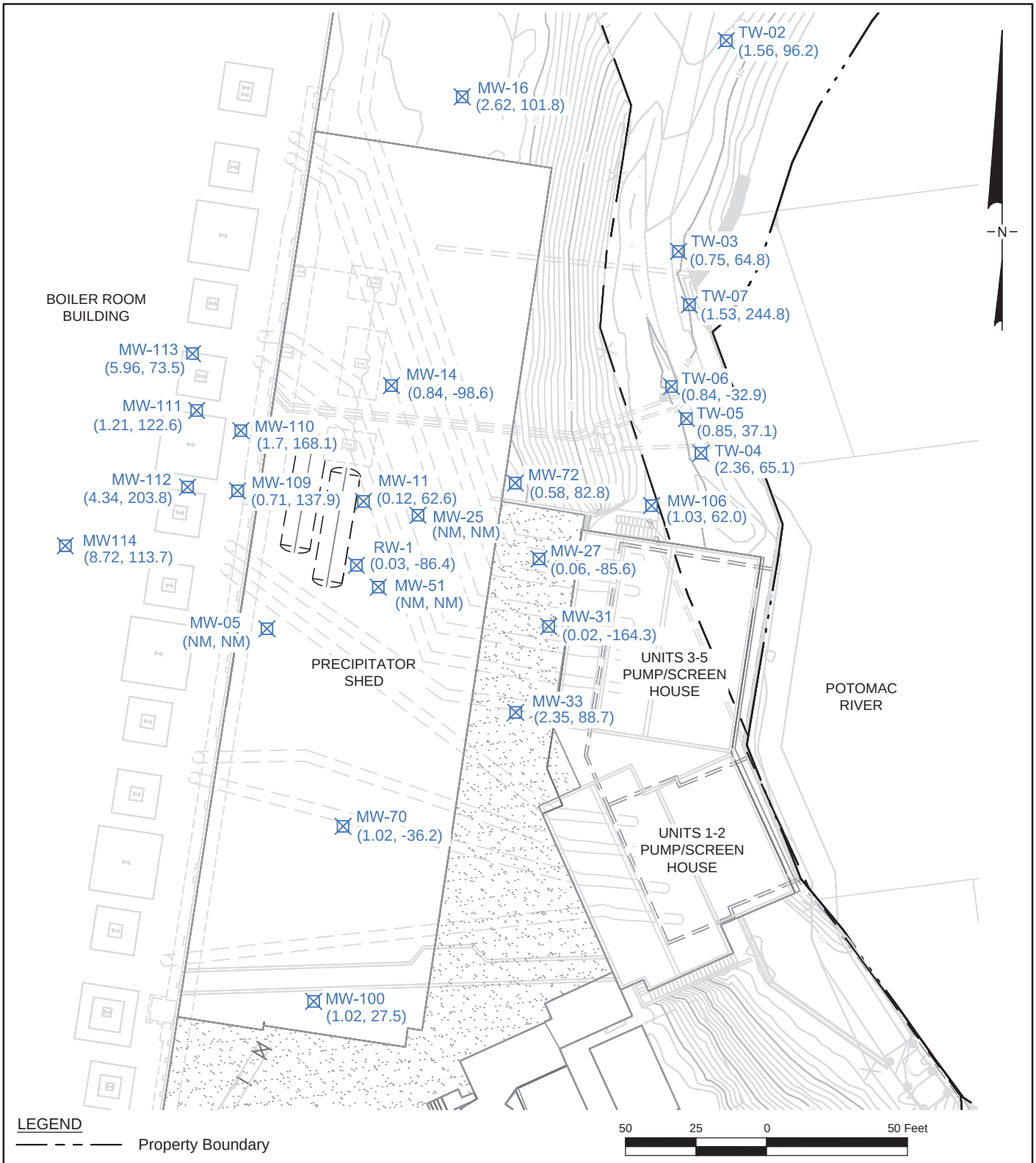
DO and ORP measurements were collected on 24 February 2015. Data are shown only where samples were collected or LNAPL was observed.

DO AND ORP CONCENTRATIONS – SHALLOW ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE:	MARCH 2015	DOCUMENT NO.	
PROJECT NO.	MEM1108	FIGURE NO.	9



LEGEND

- Property Boundary
- Waterline (river)
- Monitoring Well (DO, ORP)

NOTES:

DO - Dissolved Oxygen in mg/L
OPR - Oxidation-Reduction Potential in mV
NM - Not Measured

DO and ORP measurements were collected on 24 February 2015. Data are shown only where samples were collected or LNAPL was observed.

DO AND ORP CONCENTRATIONS – DEEP ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE:	MARCH 2015	DOCUMENT NO.	
PROJECT NO.	MEM1108	FIGURE NO.	10

TABLES

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-01S	08/08/2014	NR	22.67	-	-	-	26.58	-		
MW-01S	08/11/2014	NR	22.62	-	-	-	-	-		
MW-01S	08/15/2014	NR	22.60	-	-	-	-	-		
MW-01S	08/18/2014	NR	22.88	-	-	-	-	-		
MW-01S	08/25/2014	30.87	22.27	-	-	-	-	8.60		
MW-01S	09/02/2014	30.87	22.28	-	-	-	-	8.59		
MW-01S	09/15/2014	30.87	22.61	-	-	-	-	8.26		
MW-01S	09/22/2014	30.87	22.75	-	-	-	-	8.12		
MW-01S	09/24/2014	30.87	22.95	-	-	-	-	7.92		
MW-01S	10/01/2014	30.87	22.94	-	-	-	26.59	7.93		
MW-01S	10/10/2014	30.87	23.06	-	-	-	-	7.81		
MW-01S	10/20/2014	30.87	23.53	-	-	-	26.58	7.34		
MW-01S	02/24/2015	30.87	25.89	25.74	0.15	-	26.65	4.98	15:24	LNAPL not manually bailed
MW-01S	02/26/2015	30.87	25.61	25.51	0.10	-	-	5.26	16:10	LNAPL not manually bailed
MW-01S	03/04/2015	30.87	25.63	25.52	0.11	-	-	5.24	14:21	LNAPL not manually bailed
MW-01S	03/11/2015	30.87	25.51	25.39	0.12	-	-	5.36	13:00	LNAPL not manually bailed
MW-01S	03/18/2015	30.87	25.14	25.03	0.11	-	-	5.73	11:19	LNAPL not manually bailed
MW-01S	03/26/2015	30.87	25.07	24.98	0.09	-	26.60	5.80	10:35	LNAPL not manually bailed
TW-01	12/18/2013	38.31	31.38	-	-	-	-	6.93		
TW-01	01/08/2014	38.31	31.80	31.79	0.01	-	-	6.52		
TW-01	03/07/2014	38.31	30.41	-	-	-	-	7.90		
TW-01	03/13/2014	38.31	31.13	-	-	-	-	7.18		
TW-01	03/20/2014	38.31	30.36	-	-	-	-	7.95		
TW-01	03/27/2014	38.31	31.22	-	-	-	-	7.09		
TW-01	04/03/2014	38.31	30.36	-	-	-	-	7.95		
TW-01	04/08/2014	38.31	30.21	-	-	-	-	8.10		
TW-01	04/17/2014	38.31	31.02	-	-	-	-	7.29		
TW-01	04/22/2014	38.31	30.18	-	-	-	-	8.13		
TW-01	04/29/2014	38.31	30.22	-	-	-	-	8.09		
TW-01	05/05/2014	38.31	30.29	-	-	-	-	8.02		
TW-01	05/12/2014	38.31	30.28	-	-	-	-	8.03		
TW-01	05/19/2014	38.31	30.16	-	-	-	-	8.15		
TW-01	06/02/2014	38.31	30.17	-	-	-	-	8.14		
TW-01	06/09/2014	38.31	30.08	-	-	-	-	8.23		
TW-01	06/16/2014	38.31	30.23	-	-	-	-	8.08		
TW-01	06/23/2014	38.31	30.02	-	-	-	-	8.29		
TW-01	07/02/2014	38.31	29.98	-	-	-	-	8.33		
TW-01	07/07/2014	38.31	30.16	-	-	-	34.52	8.15		
TW-01	07/14/2014	38.31	29.89	-	-	-	-	8.42		
TW-01	07/31/2014	38.31	30.26	-	-	-	34.50	8.05		
TW-01	08/01/2014	Overdrilled and replaced with MW-05								
MW-05	08/08/2014	NR	25.41	-	-	-	33.94	-		
MW-05	08/11/2014	NR	25.16	-	-	-	-	-		
MW-05	08/15/2014	NR	24.98	-	-	-	-	-		
MW-05	08/16/2014	NR	24.84	24.80	0.04	NA	-	-		Transducers in well for pump test
MW-05	08/18/2014	NR	24.88	24.80	0.08	NA	-	-		Transducers in well for pump test
MW-05	08/25/2014	31.57	23.27	22.99	0.28	0.06	-	8.54		
MW-05	09/02/2014	31.57	23.62	23.07	0.55	0.31	-	8.43		
MW-05	09/15/2014	31.57	23.63	23.13	0.50	NR	-	8.38		
MW-05	09/19/2014	31.57	23.72	23.18	0.54	0.17	-	8.32		
MW-05	09/22/2014	31.57	23.25	22.97	0.28	0.06	-	8.56		
MW-05	09/24/2014	31.57	23.33	23.13	0.20	NR	-	8.41		HIT event
MW-05	10/01/2014	31.57	26.67	TRACE	TRACE	TRACE	31.94	4.90		
MW-05	10/10/2014	31.57	26.58	26.57	0.01	TRACE	-	4.99		
MW-05	10/13/2014	31.57	26.73	26.71	0.02	TRACE	-	4.86		
MW-05	10/20/2014	31.57	26.91	26.89	0.02	TRACE	-	4.68		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-05	10/27/2014	31.57	27.07	27.06	0.01	TRACE	-	4.51		
MW-05	11/07/2014	31.57	26.93	26.88	0.05	TRACE	-	4.68		
MW-05	11/12/2014	31.57	26.96	26.94	0.02	TRACE	-	4.63		
MW-05	11/21/2014	31.57	27.74	27.73	0.01	TRACE	-	3.84		
MW-05	11/26/2014	31.57	27.28	27.25	0.03	TRACE	-	4.32		
MW-05	12/05/2014	31.57	27.18	27.16	0.02	TRACE	-	4.41		
MW-05	12/11/2014	31.57	26.93	-	0.00	TRACE	-	4.64		
MW-05	12/16/2014	31.57	26.87	26.82	0.05	TRACE	-	4.74		
MW-05	12/23/2014	31.57	26.95	26.92	0.03	TRACE	-	4.62		
MW-05	12/30/2014	31.57	27.35	27.32	0.03	TRACE	-	4.22		
MW-05	01/09/2015	31.57	27.36	27.32	0.04	TRACE	-	4.21		
MW-05	01/16/2015	31.57	27.06	27.02	0.04	TRACE	-	4.51		
MW-05	01/19/2015	31.57	27.08	27.03	0.05	TRACE	-	4.49		
MW-05	01/26/2015	31.57	26.99	26.95	0.04	TRACE	-	4.58		
MW-05	02/03/2015	31.57	27.73	27.71	0.02	-	32.04	3.84		LNAPL not manually bailed
MW-05	02/09/2015	31.57	27.23	27.17	0.06	-	-	4.34		LNAPL not manually bailed
MW-05	02/18/2015	31.57	27.25	27.21	0.04	-	-	4.32		LNAPL not manually bailed
MW-05	02/24/2015	31.57	27.38	27.37	0.01	TRACE	-	4.19	13:51	
MW-05	03/04/2015	31.57	27.25	27.20	0.05	-	-	4.32	14:18	LNAPL not manually bailed
MW-05	03/11/2015	31.57	27.07	26.97	0.10	-	-	4.50	12:57	LNAPL not manually bailed
MW-05	03/18/2015	31.57	27.11	27.03	0.08	-	-	4.46	11:15	LNAPL not manually bailed
MW-05	03/26/2015	31.57	26.81	26.73	0.08	-	31.90	4.76	12:06	LNAPL not manually bailed
TW-09S	12/18/2013	36.65	DRY	-	-	-	-	-		
TW-09S	01/08/2014	36.65	DRY	25.54	0.46	0.10	-	-		
TW-09S	03/07/2014	36.65	24.71	24.70	0.01	-	-	11.95		
TW-09S	03/13/2014	36.65	25.78	24.71	1.07	0.10	-	11.80		
TW-09S	03/20/2014	36.65	DRY	25.65	0.50	0.10	-	-		
TW-09S	03/27/2014	36.65	DRY	25.58	0.54	0.10	-	-		
TW-09S	04/03/2014	36.65	23.37	23.18	0.19	0.10	-	13.45		
TW-09S	04/08/2014	36.65	23.39	23.23	0.16	0.10	-	13.40		
TW-09S	04/17/2014	36.65	23.72	23.66	0.06	-	-	12.98		
TW-09S	04/22/2014	36.65	23.53	23.40	0.13	0.10	-	13.23		
TW-09S	04/29/2014	36.65	23.76	23.68	0.08	-	-	12.96		
TW-09S	05/05/2014	36.65	23.23	23.17	0.06	-	-	13.47		
TW-09S	05/12/2014	36.65	23.25	23.23	0.02	-	-	13.42		
TW-09S	05/19/2014	36.65	23.17	23.16	0.01	-	-	13.49		
TW-09S	06/02/2014	36.65	23.19	-	-	-	-	13.46		
TW-09S	06/09/2014	36.65	23.17	-	-	-	-	13.48		
TW-09S	06/16/2014	36.65	23.13	-	-	-	-	13.52		
TW-09S	06/23/2014	36.65	23.11	-	-	-	-	13.54		
TW-09S	07/02/2014	36.65	23.03	TRACE	TRACE	-	-	13.62		
TW-09S	07/07/2014	36.65	23.01	-	-	-	26.15	13.64		
TW-09S	07/14/2014	36.65	23.02	-	-	-	-	13.63		
TW-09S	07/23/2014	Overdrilled and replaced with MW-08S								
MW-08S	07/24/2014	NR	26.59	-	-	-	-	-		
MW-08S	07/31/2014	NR	22.08	-	-	-	24.35	-		
MW-08S	08/08/2014	NR	21.33	-	-	-	24.64	-		
MW-08S	08/11/2014	NR	21.42	-	-	-	-	-		
MW-08S	08/15/2014	NR	21.41	-	-	-	-	-		
MW-08S	08/18/2014	NR	21.46	-	-	-	-	-		
MW-08S	08/25/2014	30.86	21.49	-	-	-	-	9.37		
MW-08S	09/02/2014	30.86	21.45	-	-	-	-	9.41		
MW-08S	09/15/2014	30.86	21.58	-	-	-	-	9.28		
MW-08S	09/22/2014	30.86	21.67	-	-	-	-	9.19		
MW-08S	09/24/2014	30.86	21.68	-	-	-	-	9.18		
MW-08S	10/01/2014	30.86	21.67	-	-	-	24.66	9.19		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-08S	10/10/2014	30.86	21.71	-	-	-	-	9.15		
MW-08S	10/13/2014	30.86	21.72	-	-	-	-	9.14		
MW-08S	10/20/2014	30.86	21.80	-	-	-	24.65	9.06		
MW-08S	10/27/2014	30.86	21.88	-	-	-	-	8.98		
MW-08S	11/07/2014	30.86	21.84	-	-	-	-	9.02		
MW-08S	11/12/2014	30.86	21.94	-	-	-	-	8.92		
MW-08S	11/21/2014	30.86	21.99	-	-	-	-	8.87		
MW-08S	11/26/2014	30.86	22.01	-	-	-	-	8.85		
MW-08S	12/05/2014	30.86	22.03	-	-	-	-	8.83		
MW-08S	12/11/2014	30.86	22.03	-	-	-	-	8.83		
MW-08S	12/16/2014	30.86	22.04	-	-	-	-	8.82		
MW-08S	12/23/2014	30.86	22.07	-	-	-	-	8.79		
MW-08S	12/30/2014	30.86	22.10	-	-	-	-	8.76		
MW-08S	01/09/2015	30.86	22.12	-	-	-	-	8.74		
MW-08S	01/16/2015	30.86	22.05	-	-	-	-	8.81		
MW-08S	01/19/2015	30.86	22.01	-	-	-	-	8.85		
MW-08S	01/26/2015	30.86	22.08	-	-	-	-	8.78		
MW-08S	02/03/2015	30.86	22.15	-	-	-	24.72	8.71		
MW-08S	02/09/2015	30.86	22.14	-	-	-	-	8.72		
MW-08S	02/18/2015	30.86	22.15	-	-	-	-	8.71		
MW-08S	02/24/2015	30.86	22.15	-	-	-	24.64	8.71	15:48	
MW-08S	03/04/2015	30.86	21.34	-	-	-	-	9.52	14:15	
MW-08S	03/11/2015	30.86	21.80	-	-	-	-	9.06	12:45	
MW-08S	03/18/2015	30.86	21.88	-	-	-	-	8.98	11:05	
MW-08S	03/26/2015	30.86	22.05	-	-	-	24.70	8.81	11:40	
MW-10S	08/08/2014	NR	22.40	-	-	-	26.51	-		
MW-10S	08/11/2014	NR	22.41	-	-	-	-	-		
MW-10S	08/15/2014	NR	22.02	-	-	-	-	-		
MW-10S	08/18/2014	NR	22.03	-	-	-	-	-		
MW-10S	08/25/2014	31.24	22.06	-	-	-	-	9.18		
MW-10S	09/02/2014	31.24	22.11	-	-	-	-	9.13		
MW-10S	09/15/2014	31.24	22.15	-	-	-	-	9.09		
MW-10S	09/22/2014	31.24	22.18	-	-	-	-	9.06		
MW-10S	09/24/2014	31.24	22.19	-	-	-	-	9.05		HIT event
MW-10S	10/01/2014	31.24	22.22	-	-	-	26.09	9.02		
MW-10S	10/10/2014	31.24	22.18	TRACE	TRACE	-	-	9.06		
MW-10S	10/13/2014	31.24	22.21	-	-	-	-	9.03		
MW-10S	10/20/2014	31.24	22.35	-	-	-	26.10	8.89		
MW-10S	10/27/2014	31.24	22.32	-	-	-	-	8.92		
MW-10S	11/07/2014	31.24	22.30	-	-	-	-	8.94		
MW-10S	11/12/2014	31.24	22.32	-	-	-	-	8.92		
MW-10S	11/21/2014	31.24	22.38	-	-	-	-	8.86		
MW-10S	11/26/2014	31.24	22.35	-	-	-	-	8.89		
MW-10S	12/05/2014	31.24	22.40	22.38	0.02	TRACE	-	8.84		
MW-10S	12/11/2014	31.24	22.33	TRACE	TRACE	-	-	8.91		
MW-10S	12/16/2014	31.24	22.36	TRACE	TRACE	-	-	8.88		
MW-10S	12/23/2014	31.24	22.37	-	-	-	-	8.87		
MW-10S	12/30/2014	31.24	22.42	TRACE	TRACE	-	-	8.82		
MW-10S	01/09/2015	31.24	22.44	22.43	0.01	TRACE	-	8.80		
MW-10S	01/16/2015	31.24	22.41	22.40	0.01	TRACE	-	8.83		
MW-10S	01/19/2015	31.24	22.43	22.42	0.01	TRACE	-	8.81		
MW-10S	01/26/2015	31.24	22.23	22.22	0.01	TRACE	-	9.01		
MW-10S	02/03/2015	31.24	22.50	-	-	-	26.11	8.74		
MW-10S	02/09/2015	31.24	22.43	22.42	0.01	-	-	8.81		LNAPL not manually bailed
MW-10S	02/18/2015	31.24	22.44	22.43	0.01	-	-	8.80		LNAPL not manually bailed
MW-10S	02/24/2015	31.24	22.50	22.49	0.01	-	26.11	8.74	15:44	LNAPL not manually bailed

Table 1

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Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-10S	03/04/2015	31.24	22.50	22.48	0.02	-	-	8.74	14:28	LNAPL not manually bailed
MW-10S	03/11/2015	31.24	22.51	22.48	0.03	-	-	8.73	12:54	LNAPL not manually bailed
MW-10S	03/18/2015	31.24	22.56	22.52	0.04	-	-	8.68	11:23	LNAPL not manually bailed
MW-10S	03/26/2015	31.24	22.53	22.50	0.03	-	26.10	8.71	11:27	LNAPL not manually bailed
MW-11	07/25/2014	NR	26.90	-	-	-	33.40	-		
MW-11	08/08/2014	NR	26.76	-	-	-	34.00	-		
MW-11	08/11/2014	NR	26.57	-	-	-	-	-		
MW-11	08/15/2014	NR	27.15	-	-	-	-	-		
MW-11	08/16/2014	NR	26.81	-	-	-	34.00	-		
MW-11	08/18/2014	NR	26.77	-	-	-	-	-		
MW-11	08/25/2014	30.85	26.43	-	-	-	-	4.42		
MW-11	09/02/2014	30.85	26.83	-	-	-	-	4.02		
MW-11	09/15/2014	30.85	26.75	-	-	-	-	4.10		
MW-11	09/22/2014	30.85	26.64	-	-	-	-	4.21		
MW-11	09/24/2014	30.85	27.08	-	-	-	-	3.77		
MW-11	10/01/2014	30.85	26.87	-	-	-	34.02	3.98		
MW-11	10/13/2014	30.85	26.86	-	-	-	-	3.99		
MW-11	10/20/2014	30.85	26.96	-	-	-	33.99	3.89		
MW-11	02/24/2015	30.85	27.03	-	-	-		3.82	13:39	
MW-11	02/26/2015	30.85	27.07	-	-	-	34.00	3.78	10:18	
MW-11	03/04/2015	30.85	26.95	-	-	-	-	3.90	14:09	
MW-11	03/11/2015	30.85	26.58	-	-	-	-	4.27	12:39	
MW-11	03/18/2015	30.85	26.74	-	-	-	-	4.11	10:59	
MW-11	03/26/2015	30.85	26.56	-	-	-	33.90	4.29	11:22	
TW-13	12/18/2013	36.99	30.09	-	-	-	-	6.90		
TW-13	01/08/2014	36.99	30.45	-	-	-	-	6.54		
TW-13	03/07/2014	36.99	29.11	-	-	-	-	7.88		
TW-13	03/13/2014	36.99	29.91	-	-	-	-	7.08		
TW-13	03/20/2014	36.99	29.09	-	-	-	-	7.90		
TW-13	03/27/2014	36.99	29.98	-	-	-	-	7.01		
TW-13	04/03/2014	36.99	29.05	-	-	-	-	7.94		
TW-13	04/08/2014	36.99	29.98	-	-	-	-	7.01		
TW-13	04/17/2014	36.99	29.62	-	-	-	-	7.37		
TW-13	04/22/2014	36.99	28.93	-	-	-	-	8.06		
TW-13	04/29/2014	36.99	28.90	-	-	-	-	8.09		
TW-13	05/05/2014	36.99	29.95	-	-	-	-	7.04		
TW-13	05/12/2014	36.99	28.91	-	-	-	-	8.08		
TW-13	05/19/2014	36.99	28.87	-	-	-	-	8.12		
TW-13	06/02/2014	36.99	28.86	-	-	-	-	8.13		
TW-13	06/09/2014	36.99	28.73	-	-	-	-	8.26		
TW-13	06/16/2014	36.99	28.88	-	-	-	-	8.11		
TW-13	06/23/2014	36.99	28.65	-	-	-	-	8.34		
TW-13	07/02/2014	36.99	28.69	-	-	-	-	8.30		
TW-13	07/07/2014	36.99	28.91	-	-	-	35.02	8.08		
TW-13	07/14/2014	36.99	28.58	-	-	-	-	8.41		
TW-13	07/29/2014	Overdrilled and replaced with MW-14								
MW-14	07/31/2014	NR	28.04	-	-	-	38.15	-		
MW-14	08/08/2014	NR	28.21	-	-	-	38.14	-		
MW-14	08/11/2014	NR	27.81	-	-	-	-	-		
MW-14	08/15/2014	NR	27.43	-	-	-	-	-		
MW-14	08/18/2014	NR	27.17	-	-	-	-	-		
MW-14	08/25/2014	31.22	26.83	-	-	-	-	4.39		
MW-14	09/02/2014	31.22	27.25	-	-	-	-	3.97		
MW-14	09/15/2014	31.22	27.15	-	-	-	-	4.07		
MW-14	09/22/2014	31.22	27.04	-	-	-	-	4.18		
MW-14	10/01/2014	31.22	27.23	-	-	-	37.28	3.99		

Table 1

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Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-14	10/13/2014	31.22	27.25	TRACE	TRACE	-	-	3.97		
MW-14	10/20/2014	31.22	27.32	-	-	-	37.30	3.90		
MW-14	02/24/2015	31.22	27.42	-	-	-	37.31	3.80	13:40	
MW-14	02/25/2015	31.22	27.46	-	-	-	37.31	3.76	10:47	
MW-14	03/04/2015	31.22	27.39	-	-	-	-	3.83	14:06	
MW-14	03/11/2015	31.22	26.94	-	-	-	-	4.28	12:36	
MW-14	03/18/2015	31.22	27.13	-	-	-	-	4.09	10:56	
MW-14	03/26/2015	31.22	26.92	-	-	-	37.30	4.30	11:19	
MW-15S	08/08/2014	NR	26.11	-	-	-	26.20	-		
MW-15S	08/11/2014	NR	26.11	-	-	-	-	-		
MW-15S	08/15/2014	NR	24.00	-	-	-	-	-		
MW-15S	08/18/2014	NR	24.67	-	-	-	-	-		
MW-15S	08/25/2014	31.03	24.82	-	-	-	-	6.21		
MW-15S	09/02/2014	31.03	24.82	-	-	-	-	6.21		
MW-15S	09/15/2014	31.03	24.96	-	-	-	-	6.07		
MW-15S	09/22/2014	31.03	25.06	-	-	-	-	5.97		
MW-15S	10/01/2014	31.03	25.20	-	-	-	25.88	5.83		
MW-15S	10/13/2014	31.03	26.37	-	-	-	-	4.66		
MW-15S	10/20/2014	31.03	25.45	-	-	-	25.90	5.58		
MW-16S	08/15/2014	31.03	24.13	-	-	-	24.61	-		
MW-16S	08/16/2014	31.03	24.12	-	-	-	24.48	-		
MW-16S	08/18/2014	31.03	24.13	-	-	-	-	-		
MW-16S	08/25/2014	31.03	24.24	-	-	-	-	6.79		
MW-16S	09/02/2014	31.03	DRY	-	-	-	24.65	-		
MW-16S	09/15/2014	31.03	DRY	-	-	-	24.64	-		
MW-16S	09/22/2014	31.03	DRY	-	-	-	-	-		
MW-16S	10/01/2014	31.03	DRY	-	-	-	24.64	-		
MW-16S	10/10/2014	31.03	DRY	-	-	-	-	-		
MW-16S	10/20/2014	31.03	DRY	-	-	-	24.64	-		
MW-16S	02/24/2015	31.03	DRY	-	-	-	24.70	-	15:36	
MW-16	08/15/2014	NR	26.78	-	-	-	35.74	-		
MW-16	08/18/2014	NR	26.73	-	-	-	-	-		
MW-16	08/25/2014	30.97	26.55	-	-	-	-	4.42		
MW-16	09/02/2014	30.97	26.91	-	-	-	-	4.06		
MW-16	09/15/2014	30.97	26.76	-	-	-	-	4.21		
MW-16	09/22/2014	30.97	26.80	-	-	-	-	4.17		
MW-16	10/01/2014	30.97	26.95	-	-	-	35.53	4.02		
MW-16	10/10/2014	30.97	26.85	-	-	-	-	4.12		
MW-16	10/20/2014	30.97	27.19	-	-	-	35.61	3.78		
MW-16	02/24/2015	30.97	27.25	-	-	-	35.61	3.72	13:34	
MW-16	02/25/2015	30.97	27.23	-	-	-	35.62	3.74	11:14	
MW-25S	08/08/2014	NR	23.64	-	-	-	25.80	-		
MW-25S	08/11/2014	NR	22.35	-	-	-	-	-		
MW-25S	08/15/2014	NR	21.94	-	-	-	-	-		
MW-25S	08/18/2014	NR	21.95	-	-	-	-	-		
MW-25S	08/25/2014	31.07	21.98	-	-	-	-	9.09		
MW-25S	09/02/2014	31.07	21.99	-	-	-	-	9.08		
MW-25S	09/15/2014	31.07	22.04	-	-	-	-	9.03		
MW-25S	09/22/2014	31.07	22.50	-	-	-	-	8.57		
MW-25S	09/24/2014	31.07	22.12	TRACE	TRACE	-	-	8.95		
MW-25S	10/01/2014	31.07	22.07	-	-	-	25.47	9.00		
MW-25S	10/10/2014	31.07	22.09	TRACE	TRACE	-	-	8.98		
MW-25S	10/13/2014	31.07	22.13	22.11	0.02	TRACE	-	8.96		
MW-25S	10/20/2014	31.07	22.19	22.18	0.01	TRACE	-	8.89		
MW-25S	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98		
MW-25S	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-25S	11/07/2014	31.07	22.08	22.07	0.01	TRACE	-	9.00		
MW-25S	11/12/2014	31.07	22.28	22.10	0.18	0.06	-	8.95		
MW-25S	11/21/2014	31.07	22.43	22.18	0.25	0.09	-	8.86		
MW-25S	11/26/2014	31.07	22.37	22.17	0.20	0.06	-	8.87		
MW-25S	12/05/2014	31.07	22.57	22.20	0.37	-	25.50	8.50		HIT event
MW-25S	12/11/2014	31.07	22.22	22.21	0.01	TRACE	-	8.85		
MW-25S	12/16/2014	31.07	22.38	22.11	0.27	0.03	-	8.69		
MW-25S	12/23/2014	31.07	22.43	22.13	0.30	0.05	-	8.64		
MW-25S	12/30/2014	31.07	22.50	22.20	0.30	0.04	-	8.83		
MW-25S	01/09/2015	31.07	22.49	22.19	0.30	-	-	8.84		HIT event
MW-25S	01/16/2015	31.07	22.60	22.48	0.12	0.01	-	8.57		
MW-25S	01/19/2015	31.07	22.34	22.25	0.09	0.01	-	8.81		
MW-25S	01/26/2015	31.07	22.30	22.16	0.14	0.02		8.89		
MW-25S	02/03/2015	31.07	22.25	-	-	-	25.50	8.82		
MW-25S	02/09/2015	31.07	22.31	22.14	0.17	-	-	8.76		LNAPL not manually bailed
MW-25S	02/18/2015	31.07	22.37	22.18	0.19	-	-	8.70		LNAPL not manually bailed
MW-25S	02/24/2015	31.07	22.59	22.28	0.31	-	-	8.48	14:03	LNAPL not manually bailed
MW-25S	03/04/2015	31.07	22.48	22.30	0.18	-	-	-	14:31	LNAPL not manually bailed
MW-25S	03/11/2015	31.07	22.50	22.30	0.20	-	-	-	13:04	LNAPL not manually bailed
MW-25S	03/18/2015	31.07	22.46	22.23	0.23	-	-	-	11:26	LNAPL not manually bailed
MW-25S	03/26/2015	31.07	22.35	22.17	0.18	-	25.50	-	11:59	LNAPL not manually bailed
MW-25	08/08/2014	NR	27.97	27.60	0.37	0.08	36.69	-		
MW-25	08/11/2014	NR	27.61	27.37	0.24	NA	-	-		Transducers in well for pump test
MW-25	08/15/2014	NR	28.11	28.05	0.06	NA	-	-		Transducers in well for pump test
MW-25	08/16/2014	NR	27.81	27.75	0.06	NA	-	-		Transducers in well for pump test
MW-25	08/18/2014	NR	27.94	27.71	0.23	NA	-	-		Transducers in well for pump test
MW-25	08/25/2014	31.13	26.89	26.74	0.15	0.05	-	4.37		
MW-25	09/02/2014	31.13	27.77	27.03	0.74	0.50	-	4.00		
MW-25	09/15/2014	31.13	27.69	26.87	0.82	NR	-	4.15		
MW-25	09/19/2014	31.13	28.10	26.95	1.15	0.93	-	4.03		
MW-25	09/22/2014	31.13	27.53	26.91	0.62	0.38	-	4.14		
MW-25	09/24/2014	31.13	27.73	27.23	0.50	NR	-	3.84		HIT event
MW-25	10/01/2014	31.13	27.47	27.02	0.45	0.19	35.90	4.05		
MW-25	10/10/2014	31.13	27.65	26.91	0.74	0.50	-	4.12		
MW-25	10/13/2014	31.13	27.60	27.03	0.57	NR	-	4.03		
MW-25	10/20/2014	31.13	27.49	27.19	0.30	0.13	-	3.90		
MW-25	10/27/2014	31.13	27.87	27.25	0.62	NR	-	3.80		HIT event
MW-25	11/07/2014	31.13	27.53	27.08	0.45	0.19	-	3.99		
MW-25	11/12/2014	31.13	27.50	27.07	0.43	0.19	-	4.00		
MW-25	11/21/2014	31.13	28.53	27.81	0.72	0.16	-	3.23		
MW-25	11/26/2014	31.13	27.70	27.23	0.47	0.19	-	3.84		
MW-25	12/05/2014	31.13	27.63	27.15	0.48	-	35.87	3.50		HIT event
MW-25	12/11/2014	31.13	27.31	26.98	0.33	0.06	-	3.82		
MW-25	12/16/2014	31.13	27.27	27.04	0.23	0.03	-	3.86		
MW-25	12/23/2014	31.13	27.20	26.95	0.25	0.04	-	3.93		
MW-25	12/30/2014	31.13	28.02	27.33	0.69	0.28	-	3.11		
MW-25	01/09/2015	31.13	27.80	27.38	0.42	-	-	3.33		HIT event
MW-25	01/16/2015	31.13	27.24	27.16	0.08	0.00	-	3.89		
MW-25	01/19/2015	31.13	27.28	26.97	0.31	0.06	-	3.85		
MW-25	01/26/2015	31.13	27.27	26.98	0.29	0.05	-	3.86		
MW-25	02/03/2015	31.13	28.10	27.52	0.58	-	35.86	3.03		LNAPL not manually bailed
MW-25	02/09/2015	31.13	27.43	27.06	0.37	-	-	3.70		LNAPL not manually bailed
MW-25	02/18/2015	31.13	27.63	27.24	0.39	-	-	3.50		LNAPL not manually bailed
MW-25	02/24/2015	31.13	27.68	27.18	0.50	-	-	3.45	14:00	LNAPL not manually bailed
MW-25	03/04/2015	31.13	27.85	27.19	0.66	-	-	3.28	14:35	LNAPL not manually bailed
MW-25	03/11/2015	31.13	27.27	26.76	0.51	-	-	3.86	13:08	LNAPL not manually bailed

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-25	03/18/2015	31.13	27.63	26.93	0.70	-	-	3.50	11:30	LNAPL not manually bailed
MW-25	03/26/2015	31.13	27.31	26.70	0.61	-	35.90	3.82	12:03	LNAPL not manually bailed
TW-10	12/18/2013	37.28	30.31	-	-	-	-	6.97		
TW-10	01/08/2014	37.28	30.56	-	-	-	-	6.72		
TW-10	03/07/2014	37.28	29.70	-	-	-	-	7.58		
TW-10	03/13/2014	37.28	30.08	-	-	-	-	7.20		
TW-10	03/20/2014	37.28	29.22	-	-	-	-	8.06		
TW-10	03/27/2014	37.28	30.13	-	-	-	-	7.15		
TW-10	04/03/2014	37.28	29.08	-	-	-	-	8.20		
TW-10	04/08/2014	37.28	29.14	-	-	-	-	8.14		
TW-10	04/17/2014	37.28	29.66	-	-	-	-	7.62		
TW-10	04/22/2014	37.28	29.12	-	-	-	-	8.16		
TW-10	04/29/2014	37.28	28.96	-	-	-	-	8.32		
TW-10	05/05/2014	37.28	29.22	-	-	-	-	8.06		
TW-10	05/12/2014	37.28	29.06	-	-	-	-	8.22		
TW-10	05/19/2014	37.28	29.02	-	-	-	-	8.26		
TW-10	06/02/2014	37.28	28.99	-	-	-	-	8.29		
TW-10	06/09/2014	37.28	28.89	-	-	-	-	8.39		
TW-10	06/16/2014	37.28	29.02	-	-	-	-	8.26		
TW-10	06/23/2014	37.28	28.86	-	-	-	-	8.42		
TW-10	07/02/2014	37.28	28.87	-	-	-	-	8.41		
TW-10	07/07/2014	37.28	29.12	-	-	-	36.47	8.16		
TW-10	07/14/2014	37.28	28.68	-	-	-	-	8.60		
TW-10	07/21/2014	Overdrilled and replaced with MW-27								
MW-27	07/24/2014	NR	27.59	-	-	-	-	-		
MW-27	07/31/2014	NR	27.58	-	-	-	34.47	-		
MW-27	08/08/2014	NR	27.69	-	-	-	34.46	-		
MW-27	08/11/2014	NR	27.33	-	-	-	-	-		
MW-27	08/15/2014	NR	27.90	-	-	-	-	-		
MW-27	08/16/2014	NR	27.65	-	-	-	34.48	-		
MW-27	08/18/2014	NR	27.62	-	-	-	-	-		
MW-27	08/25/2014	31.43	27.09	-	-	-	-	4.34		
MW-27	09/02/2014	31.43	27.52	-	-	-	-	3.91		
MW-27	09/15/2014	31.43	27.38	-	-	-	-	4.05		
MW-27	09/22/2014	31.43	27.24	-	-	-	-	4.19		
MW-27	10/01/2014	31.43	27.44	-	-	-	34.27	3.99		
MW-27	10/10/2014	31.43	27.24	-	-	-	-	4.19		
MW-27	10/20/2014	31.43	27.59	-	-	-	34.13	3.84		
MW-27	10/27/2014	31.43	27.66	-	-	-	-	3.77		
MW-27	11/07/2014	31.43	27.43	-	-	-	-	4.00		
MW-27	11/12/2014	31.43	27.43	-	-	-	-	4.00		
MW-27	11/21/2014	31.43	28.23	-	-	-	-	3.20		
MW-27	11/26/2014	31.43	27.64	-	-	-	-	3.79		
MW-27	12/05/2014	31.43	27.50	-	-	-	-	3.93		
MW-27	12/11/2014	31.43	27.38	-	-	-	-	4.05		
MW-27	12/16/2014	31.43	27.34	-	-	-	-	4.09		
MW-27	12/23/2014	31.43	27.22	-	-	-	-	4.21		
MW-27	12/30/2014	31.43	27.80	-	-	-	-	3.63		
MW-27	01/09/2015	31.43	27.59	-	-	-	-	3.84		
MW-27	01/16/2015	31.43	27.46	-	-	-	-	3.97		
MW-27	01/19/2015	31.43	27.38	-	-	-	-	4.05		
MW-27	01/26/2015	31.43	27.40	-	-	-	-	4.03		
MW-27	02/03/2015	31.43	28.01	-	-	-	34.05	3.42		
MW-27	02/09/2015	31.43	27.43	-	-	-	-	4.00		
MW-27	02/18/2015	31.43	27.52	-	-	-	-	3.91		
MW-27	02/24/2015	31.43	26.61	-	-	-	-	4.82	13:15	

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-27	02/25/2015	31.43	27.45	-	-	-	34.06	3.98	13:38	
MW-27	03/04/2015	31.43	27.63	-	-	-	-	3.80	13:59	
MW-27	03/11/2015	31.43	27.11	-	-	-	-	4.32	12:26	
MW-27	03/18/2015	31.43	27.36	-	-	-	-	4.07	10:49	
MW-27	03/26/2015	31.43	27.20	-	-	-	34.00	4.23	10:50	
MW-30S	08/08/2014	NR	23.31	-	-	-	25.28	-		
MW-30S	08/11/2014	NR	23.33	-	-	-	-	-		
MW-30S	08/15/2014	NR	24.84	-	-	-	-	-		
MW-30S	08/18/2014	NR	24.84	-	-	-	-	-		
MW-30S	08/25/2014	30.67	24.79	-	-	-	-	5.88		
MW-30S	09/02/2014	30.67	24.83	-	-	-	-	5.84		
MW-30S	09/15/2014	30.67	24.85	-	-	-	-	5.82		
MW-30S	09/22/2014	30.67	24.88	-	-	-	-	5.79		
MW-30S	10/01/2014	30.67	24.88	-	-	-	25.28	5.79		
MW-30S	10/10/2014	30.67	24.87	-	-	-	-	5.80		
MW-30S	10/20/2014	30.67	24.77	-	-	-	25.29	5.90		
MW-30S	10/27/2014	30.67	24.78	-	-	-	-	5.89		
MW-30S	11/07/2014	30.67	24.85	-	-	-	-	5.82		
MW-30S	11/12/2014	30.67	24.87	-	-	-	-	5.80		
MW-30S	11/21/2014	30.67	24.94	-	-	-	-	5.73		
MW-30S	11/26/2014	30.67	24.93	-	-	-	-	5.74		
MW-30S	12/05/2014	30.67	24.92	-	-	-	-	5.75		
MW-30S	12/11/2014	30.67	24.72	-	-	-	-	5.95		
MW-30S	12/16/2014	30.67	24.74	-	-	-	-	5.93		
MW-30S	12/23/2014	30.67	24.70	-	-	-	-	5.97		
MW-30S	12/30/2014	30.67	24.68	-	-	-	-	5.99		
MW-30S	01/09/2015	30.67	24.66	-	-	-	-	6.01		
MW-30S	01/16/2015	30.67	24.62	-	-	-	-	6.05		
MW-30S	01/19/2015	30.67	24.60	-	-	-	-	6.07		
MW-30S	01/26/2015	30.67	24.48	-	-	-	-	6.19		
MW-30S	02/03/2015	30.67	24.56	-	-	-	25.34	6.11		
MW-30S	02/09/2015	30.67	24.57	-	-	-	-	6.10		
MW-30S	02/18/2015	30.67	24.63	-	-	-	-	6.04		
MW-30S	02/24/2015	30.67	24.24	-	-	-	25.31	6.43	15:32	
MW-30S	02/25/2015	30.67	24.10	-	-	-	25.31	6.57	13:10	
MW-30S	03/04/2015	30.67	24.20	-	-	-	-	6.47	14:04	
MW-30S	03/11/2015	30.67	24.20	-	-	-	-	6.47	12:32	
MW-30S	03/18/2015	30.67	24.22	-	-	-	-	6.45	10:55	
MW-30S	03/26/2015	30.67	24.32	-	-	-	25.30	6.35	10:42	
TW-11	12/18/2013	37.39	26.40	-	-	-	-	10.99		
TW-11	01/08/2014	37.39	27.73	-	-	-	-	9.66		
TW-11	03/07/2014	37.39	29.17	-	-	-	-	8.22		
TW-11	03/13/2014	37.39	27.56	-	-	-	-	9.83		
TW-11	03/20/2014	37.39	27.15	-	-	-	-	10.24		
TW-11	03/27/2014	37.39	27.40	-	-	-	-	9.99		
TW-11	04/03/2014	37.39	26.28	26.26	0.02	0.10	-	11.12		
TW-11	04/08/2014	37.39	26.52	-	-	-	-	10.87		
TW-11	04/17/2014	37.39	26.85	-	-	-	-	10.54		
TW-11	04/22/2014	37.39	27.09	-	-	-	-	10.30		
TW-11	04/29/2014	37.39	27.39	-	-	-	-	10.00		
TW-11	05/05/2014	37.39	26.26	26.24	0.02	-	-	11.15		
TW-11	05/12/2014	37.39	26.97	-	-	-	-	10.42		
TW-11	05/19/2014	37.39	25.91	25.90	0.01	-	-	11.49		
TW-11	06/02/2014	37.39	26.32	26.31	0.01	-	-	11.08		
TW-11	06/09/2014	37.39	25.23	-	-	-	-	12.16		
TW-11	06/16/2014	37.39	25.35	25.36	0.01	-	-	12.05		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-11	06/23/2014	37.39	26.55	-	-	-	-	10.84		
TW-11	07/02/2014	37.39	26.91	TRACE	TRACE	-	-	10.48		
TW-11	07/07/2014	37.39	27.08	-	-	-	37.10	10.31		
TW-11	07/14/2014	37.39	26.95	TRACE	TRACE	-	-	10.44		
TW-11	07/24/2014	37.39	26.88	-	-	-	-	10.51		
TW-11	07/31/2014	37.39	27.10	-	-	-	37.02	10.29		
TW-11	08/05/2014	Overdrilled and replaced with MW-31								
MW-31	08/08/2014	NR	27.31	-	-	-	36.35	-		
MW-31	08/11/2014	NR	26.88	-	-	-	-	-		
MW-31	08/15/2014	NR	27.00	-	-	-	-	-		
MW-31	08/16/2014	NR	26.92	-	-	-	35.00	-		
MW-31	08/18/2014	NR	27.11	-	-	-	-	-		
MW-31	08/25/2014	31.23	26.90	-	-	-	-	4.33		
MW-31	09/02/2014	31.23	27.31	-	-	-	-	3.92		
MW-31	09/15/2014	31.23	27.18	-	-	-	-	4.05		
MW-31	09/22/2014	31.23	27.05	-	-	-	-	4.18		
MW-31	10/01/2014	31.23	27.21	-	-	-	35.50	4.02		
MW-31	10/10/2014	31.23	27.02	-	-	-	-	4.21		
MW-31	10/20/2014	31.23	27.40	-	-	-	35.50	3.83		
MW-31	10/27/2014	31.23	27.43	-	-	-	-	3.80		
MW-31	11/07/2014	31.23	24.23	-	-	-	-	7.00		
MW-31	11/12/2014	31.23	27.18	-	-	-	-	4.05		
MW-31	11/21/2014	31.23	28.03	-	-	-	-	3.20		
MW-31	11/26/2014	31.23	27.39	-	-	-	-	3.84		
MW-31	12/05/2014	31.23	27.33	-	-	-	-	3.90		
MW-31	12/11/2014	31.23	27.14	-	-	-	-	4.09		
MW-31	12/16/2014	31.23	27.15	-	-	-	-	4.08		
MW-31	12/23/2014	31.23	27.02	-	-	-	-	4.21		
MW-31	12/30/2014	31.23	27.61	-	-	-	-	3.62		
MW-31	01/09/2015	31.23	27.42	-	-	-	-	3.81		
MW-31	01/16/2015	31.23	27.26	-	-	-	-	3.97		
MW-31	01/19/2015	31.23	27.20	-	-	-	-	4.03		
MW-31	01/26/2015	31.23	27.18	-	-	-	-	4.05		
MW-31	02/03/2015	31.23	27.81	-	-	-	35.49	3.42		
MW-31	02/09/2015	31.23	27.18	-	-	-	-	4.05		
MW-31	02/18/2015	31.23	27.34	-	-	-	-	3.89		
MW-31	02/24/2015	31.23	27.27	-	-	-	-	3.96	13:09	
MW-31	02/25/2015	31.23	27.50	-	-	-	35.52	3.73	10:28	
MW-31	03/04/2015	31.23	27.45	-	-	-	-	3.78	14:02	
MW-31	03/11/2015	31.23	26.78	-	-	-	-	4.45	12:29	
MW-31	03/18/2015	31.23	27.13	-	-	-	-	4.10	10:52	
MW-31	03/26/2015	31.23	26.99	-	-	-	35.50	4.24	10:46	
MW-33	08/08/2014	NR	27.91	-	-	-	35.41	-		
MW-33	08/11/2014	NR	27.41	-	-	-	-	-		
MW-33	08/15/2014	NR	26.98	-	-	-	34.45	-		
MW-33	08/18/2014	NR	26.76	-	-	-	-	-		
MW-33	08/25/2014	30.93	26.47	-	-	-	-	4.46		
MW-33	09/02/2014	30.93	26.87	-	-	-	-	4.06		
MW-33	09/15/2014	30.93	26.73	-	-	-	-	4.20		
MW-33	09/22/2014	30.93	26.59	-	-	-	-	4.34		
MW-33	10/01/2014	30.93	26.79	-	-	-	34.47	4.14		
MW-33	10/10/2014	30.93	26.60	-	-	-	-	4.33		
MW-33	10/20/2014	30.93	26.96	-	-	-	34.47	3.97		
MW-33	02/24/2015	30.93	26.99	-	-	-	-	3.94	13:05	
MW-33	02/25/2015	30.93	27.03	-	-	-	34.45	3.90	10:08	

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-51S	08/08/2014	NR	21.15	-	-	-	25.27	-		
MW-51S	08/11/2014	NR	21.27	-	-	-	-	-		
MW-51S	08/15/2014	NR	21.17	-	-	-	25.30	-		
MW-51S	08/18/2014	NR	21.23	-	-	-	-	-		
MW-51S	08/25/2014	30.81	21.34	-	-	-	-	9.47		
MW-51S	09/02/2014	30.81	21.38	-	-	-	-	9.43		
MW-51S	09/15/2014	30.81	21.46	-	-	-	-	9.35		
MW-51S	09/22/2014	30.81	21.48	-	-	-	-	9.33		
MW-51S	09/24/2014	30.81	21.49	-	-	-	-	9.32		
MW-51S	10/01/2014	30.81	21.32	TRACE	TRACE	-	25.30	9.49		
MW-51S	10/10/2014	30.81	21.53	-	-	-	-	9.28		
MW-51S	10/13/2014	30.81	21.52	-	-	-	-	9.29		
MW-51S	10/20/2014	30.81	21.58	-	-	-	25.33	9.23		
MW-51S	10/27/2014	30.81	21.64	-	-	-	-	9.17		
MW-51S	11/07/2014	30.81	21.53	-	-	-	-	9.28		
MW-51S	11/12/2014	30.81	21.66	-	-	-	-	9.15		
MW-51S	11/21/2014	30.81	21.73	-	-	-	-	9.08		
MW-51S	12/05/2014	30.81	21.64	-	-	-	-	9.17		
MW-51S	12/11/2014	30.81	21.72	-	-	-	-	9.09		
MW-51S	12/16/2014	30.81	21.78	-	-	-	-	9.03		
MW-51S	12/23/2014	30.81	21.83	-	-	-	-	8.98		
MW-51S	12/30/2014	30.81	21.87	-	-	-	-	8.94		
MW-51S	01/09/2015	30.81	21.89	-	-	-	-	8.92		
MW-51S	01/16/2015	30.81	21.80	-	-	-	-	9.01		
MW-51S	01/19/2015	30.81	21.87	-	-	-	-	8.94		
MW-51S	01/26/2015	30.81	21.82	-	-	-	-	8.99		
MW-51S	02/03/2015	30.81	22.00	-	-	-	25.21	8.81		
MW-51S	02/09/2015	30.81	21.92	-	-	-	-	8.89		
MW-51S	02/18/2015	30.81	21.92	-	-	-	-	8.89		
MW-51S	02/24/2015	30.81	21.96	-	-	-	25.33	8.85	16:00	
MW-51S	03/11/2015	30.81	21.67	-	-	-	-	9.14	12:48	
MW-51S	03/18/2015	30.81	21.71	-	-	-	-	9.10	11:08	
MW-51S	03/26/2015	30.81	21.76	-	-	-	25.30	9.05	11:45	
MW-51	07/25/2014	NR	27.25	-	-	-	35.95	-		
MW-51	08/08/2014	NR	27.00	TRACE	TRACE	-	36.48	-		
MW-51	08/11/2014	NR	26.70	-	-	-	-	-		
MW-51	08/15/2014	NR	27.30	-	-	-	-	-		
MW-51	08/16/2014	NR	26.99	TRACE	TRACE	-	34.65	-		
MW-51	08/18/2014	NR	26.94	TRACE	TRACE	-	-	-		
MW-51	08/25/2014	30.97	26.59	TRACE	TRACE	-	-	4.38		
MW-51	09/02/2014	30.97	26.93	TRACE	TRACE	-	-	4.04		
MW-51	09/15/2014	30.97	26.88	26.85	0.03	TRACE	-	4.12		
MW-51	09/22/2014	30.97	26.83	26.80	0.03	TRACE	-	4.17		
MW-51	09/24/2014	30.97	27.19	27.15	0.04	-	-	3.81		
MW-51	10/01/2014	30.97	26.93	TRACE	TRACE	-	36.15	4.04		
MW-51	10/10/2014	30.97	26.84	26.81	0.03	-	-	4.16		
MW-51	10/13/2014	30.97	27.01	26.94	0.07	-	-	4.02		
MW-51	10/20/2014	30.97	27.05	27.03	0.02	TRACE	-	3.94		
MW-51	10/27/2014	30.97	27.16	27.12	0.04	TRACE	-	3.84		
MW-51	11/07/2014	30.97	27.11	27.07	0.04	TRACE	-	3.89		
MW-51	11/12/2014	30.97	26.92	26.90	0.02	TRACE	-	4.07		
MW-51	11/21/2014	30.97	27.57	27.50	0.07	TRACE	-	3.46		
MW-51	11/26/2014	30.97	27.20	27.17	0.03	TRACE	-	3.80		
MW-51	12/05/2014	30.97	26.98	26.96	0.02	TRACE	-	3.99		
MW-51	12/11/2014	30.97	26.88	26.87	0.01	TRACE	-	4.09		
MW-51	12/16/2014	30.97	26.83	26.80	0.03	TRACE	-	4.14		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-51	12/23/2014	30.97	26.83	TRACE	TRACE	TRACE	-	4.14		
MW-51	12/30/2014	30.97	27.28	27.22	0.06	TRACE	-	3.69		
MW-51	01/09/2015	30.97	27.20	27.15	0.05	TRACE	-	3.77		
MW-51	01/16/2015	30.97	26.95	26.91	0.04	TRACE	-	4.02		
MW-51	01/19/2015	30.97	26.88	26.83	0.05	TRACE	-	4.09		
MW-51	01/26/2015	30.97	26.98	26.92	0.06	TRACE	-	3.99		
MW-51	02/03/2015	30.97	27.52	27.45	0.07	-	36.15	3.45		LNAPL not manually bailed
MW-51	02/09/2015	30.97	26.93	26.91	0.02	-	-	4.04		LNAPL not manually bailed
MW-51	02/18/2015	30.97	27.07	27.02	0.05	-	-	3.90		LNAPL not manually bailed
MW-51	02/24/2015	30.97	27.07	27.06	0.01	TRACE	-	3.90	13:46	
MW-51	03/04/2015	30.97	27.24	27.17	0.07	-	-	3.73	14:25	LNAPL not manually bailed
MW-51	03/11/2015	30.97	26.68	26.65	0.03	-	-	4.29	12:51	LNAPL not manually bailed
MW-51	03/18/2015	30.97	26.94	26.84	0.10	-	-	4.03	11:11	LNAPL not manually bailed
MW-51	03/26/2015	30.97	26.74	26.60	0.14	-	36.10	4.23	11:50	LNAPL not manually bailed
MW-52	08/15/2014	NR	28.11	-	-	-	35.78	-		
MW-52	08/18/2014	NR	26.07	-	-	-	-	-		
MW-52	08/25/2014	30.17	25.76	-	-	-	-	4.41		
MW-52	09/02/2014	30.17	26.15	-	-	-	-	4.02		
MW-52	09/15/2014	30.17	25.99	-	-	-	-	4.18		
MW-52	09/22/2014	30.17	26.00	-	-	-	-	4.17		
MW-52	10/01/2014	30.17	26.03	-	-	-	35.65	4.14		
MW-52	10/10/2014	30.17	26.07	-	-	-	-	4.10		
MW-52	10/20/2014	30.17	26.24	-	-	-	35.64	3.93		
MW-70	08/15/2014	NR	26.63	-	-	-	34.95	-		
MW-70	08/18/2014	NR	26.61	-	-	-	-	-		
MW-70	08/25/2014	30.86	26.25	-	-	-	-	4.61		
MW-70	09/02/2014	30.86	26.68	-	-	-	-	4.18		
MW-70	09/15/2014	30.86	26.63	-	-	-	-	4.23		
MW-70	09/22/2014	30.86	26.47	-	-	-	-	4.39		
MW-70	10/01/2014	30.86	26.66	-	-	-	34.88	4.20		
MW-70	10/10/2014	30.86	26.57	-	-	-	-	4.29		
MW-70	10/20/2014	30.86	26.79	-	-	-	34.90	4.07		
MW-70	02/24/2015	30.86	26.62	-	-	-	-	4.24	13:00	
TW-08S	12/18/2013	36.75	DRY	-	-	-	-	-		
TW-08S	01/08/2014	36.75	DRY	-	-	-	-	-		
TW-08S	03/07/2014	36.75	24.14	-	-	-	-	12.61		
TW-08S	03/13/2014	36.75	24.06	-	-	-	-	12.69		
TW-08S	03/20/2014	36.75	24.37	-	-	-	-	12.38		
TW-08S	03/27/2014	36.75	24.54	-	-	-	-	12.21		
TW-08S	04/03/2014	36.75	24.26	-	-	-	-	12.49		
TW-08S	04/08/2014	36.75	23.85	-	-	-	-	12.90		
TW-08S	04/17/2014	36.75	24.13	-	-	-	-	12.62		
TW-08S	04/22/2014	36.75	23.92	-	-	-	-	12.83		
TW-08S	04/29/2014	36.75	23.91	-	-	-	-	12.84		
TW-08S	05/05/2014	36.75	22.89	-	-	-	-	13.86		
TW-08S	05/12/2014	36.75	23.02	-	-	-	-	13.73		
TW-08S	05/19/2014	36.75	22.90	-	-	-	-	13.85		
TW-08S	06/02/2014	36.75	23.24	-	-	-	-	13.51		
TW-08S	06/09/2014	36.75	23.21	-	-	-	-	13.54		
TW-08S	06/16/2014	36.75	22.40	-	-	-	-	14.35		
TW-08S	06/23/2014	36.75	22.41	-	-	-	-	14.34		
TW-08S	07/02/2014	36.75	22.40	-	-	-	-	14.35		
TW-08S	07/07/2014	36.75	22.65	-	-	-	25.85	14.10		
TW-08S	07/14/2014	36.75	23.23	-	-	-	-	13.52		
TW-08S	07/24/2014	36.75	23.09	-	-	-	-	13.66		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-08S	07/31/2014	36.75	23.26	-	-	-	25.82	13.49		
TW-08S	08/07/2014	Overdrilled and replaced with MW-72S								
MW-72S	08/08/2014	NR	23.33	-	-	-	25.30	-		
MW-72S	08/11/2014	NR	22.85	-	-	-	-	-		
MW-72S	08/15/2014	NR	21.35	-	-	-	23.90	-		
MW-72S	08/18/2014	NR	21.34	-	-	-	-	-		
MW-72S	08/25/2014	30.63	21.41	-	-	-	-	9.22		
MW-72S	09/02/2014	30.63	21.45	-	-	-	-	9.18		
MW-72S	09/15/2014	30.63	21.54	-	-	-	-	9.09		
MW-72S	09/22/2014	30.63	21.56	-	-	-	-	9.07		
MW-72S	10/01/2014	30.63	21.63	-	-	-	23.90	9.00		
MW-72S	10/10/2014	30.63	21.69	-	-	-	-	8.94		
MW-72S	10/20/2014	30.63	21.73	-	-	-	23.88	8.90		
MW-72S	10/27/2014	30.63	21.80	-	-	-	-	8.83		
MW-72S	11/07/2014	30.63	21.83	-	-	-	-	8.80		
MW-72S	11/12/2014	30.63	21.88	-	-	-	-	8.75		
MW-72S	11/21/2014	30.63	22.04	-	-	-	-	8.59		
MW-72S	11/26/2014	30.63	22.10	-	-	-	-	8.53		
MW-72S	12/05/2014	30.63	22.23	-	-	-	-	8.40		
MW-72S	12/11/2014	30.63	22.11	-	-	-	-	8.52		
MW-72S	12/16/2014	30.63	22.00	-	-	-	-	8.63		
MW-72S	12/23/2014	30.63	21.99	-	-	-	-	8.64		
MW-72S	12/30/2014	30.63	21.98	-	-	-	-	8.65		
MW-72S	01/09/2015	30.63	21.94	-	-	-	-	8.69		
MW-72S	01/16/2015	30.63	21.93	-	-	-	-	8.70		
MW-72S	01/19/2015	30.63	21.88	-	-	-	-	8.75		
MW-72S	01/26/2015	30.63	21.78	-	-	-	-	8.85		
MW-72S	02/03/2015	30.63	21.79	-	-	-	23.93	8.84		
MW-72S	02/09/2015	30.63	21.77	-	-	-	-	8.86		
MW-72S	02/18/2015	30.63	21.85	-	-	-	-	8.78		
MW-72S	02/24/2015	30.63	21.90	-	-	-	23.89	8.73	15:53	
MW-72S	02/25/2015	30.63	21.87	-	-	-	23.75	8.76	14:10	
MW-72S	03/04/2015	30.63	21.79	-	-	-	-	8.84	13:45	
MW-72S	03/11/2015	30.63	21.75	-	-	-	-	8.88	12:12	
MW-72S	03/18/2015	30.63	21.70	-	-	-	-	8.93	10:35	
MW-72S	03/26/2015	30.63	21.73	-	-	-	23.90	8.90	11:10	
MW-72	08/08/2014	NR	26.97	-	-	-	34.55	-		
MW-72	08/11/2014	NR	26.85	-	-	-	-	-		
MW-72	08/15/2014	NR	27.43	-	-	-	-	-		
MW-72	08/16/2014	NR	27.05	-	-	-	34.43	-		
MW-72	08/18/2014	NR	27.00	-	-	-	-	-		
MW-72	08/25/2014	31.06	26.66	-	-	-	-	4.40		
MW-72	09/02/2014	31.06	27.11	-	-	-	-	3.95		
MW-72	09/15/2014	31.06	27.02	-	-	-	-	4.04		
MW-72	09/22/2014	31.06	26.88	-	-	-	-	4.18		
MW-72	10/01/2014	31.06	27.10	-	-	-	34.48	3.96		
MW-72	10/10/2014	31.06	26.94	-	-	-	-	4.12		
MW-72	10/20/2014	31.06	27.19	-	-	-	34.43	3.87		
MW-72	10/27/2014	31.06	27.34	-	-	-	-	3.72		
MW-72	11/07/2014	31.06	27.04	-	-	-	-	4.02		
MW-72	11/12/2014	31.06	27.12	-	-	-	-	3.94		
MW-72	11/21/2014	31.06	27.82	-	-	-	-	3.24		
MW-72	11/26/2014	31.06	27.36	-	-	-	-	3.70		
MW-72	12/05/2014	31.06	27.01	-	-	-	-	4.05		
MW-72	12/11/2014	31.06	27.03	-	-	-	-	4.03		
MW-72	12/16/2014	31.06	26.91	-	-	-	-	4.15		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-72	12/23/2014	31.06	26.89	-	-	-	-	4.17		
MW-72	12/30/2014	31.06	27.36	-	-	-	-	3.70		
MW-72	01/09/2015	31.06	27.27	-	-	-	-	3.79		
MW-72	01/16/2015	31.06	27.03	-	-	-	-	4.03		
MW-72	01/19/2015	31.06	26.98	-	-	-	-	4.08		
MW-72	01/26/2015	31.06	26.96	-	-	-	-	4.10		
MW-72	02/03/2015	31.06	27.65	-	-	-	34.19	3.41		
MW-72	02/09/2015	31.06	27.14	-	-	-	-	3.92		
MW-72	02/18/2015	31.06	27.11	-	-	-	-	3.95		
MW-72	02/24/2015	31.06	27.27	-	-	-	-	3.79	13:35	
MW-72	02/25/2015	31.06	27.33	-	-	-	34.28	3.73	9:50	
MW-72	03/04/2015	31.06	27.17	-	-	-	-	3.89	13:48	
MW-72	03/11/2015	31.06	26.98	-	-	-	-	4.08	12:15	
MW-72	03/18/2015	31.06	26.94	-	-	-	-	4.12	10:38	
MW-72	03/26/2015	31.06	26.78	-	-	-	34.10	4.28	11:13	
MW-100S	08/15/2014	NR	21.32	-	-	-	24.22	-		
MW-100S	08/18/2014	NR	21.28	-	-	-	-	-		
MW-100S	08/25/2014	31.06	21.31	-	-		-	9.75		
MW-100S	09/02/2014	31.06	21.39	-	-	-	-	9.67		
MW-100S	09/15/2014	31.06	21.39	-	-	-	-	9.67		
MW-100S	09/22/2014	31.06	21.52	-	-	-	-	9.54		
MW-100S	10/01/2014	31.06	21.62	-	-	-	24.16	9.44		
MW-100S	10/10/2014	31.06	21.61	-	-	-	-	9.45		
MW-100S	10/20/2014	31.06	21.67	-	-	-	24.17	9.39		
MW-100S	02/24/2015	31.06	21.75	-	-	-	24.18	9.31	15:18	
MW-100	08/15/2014	NR	26.80	-	-	-	36.90	-		
MW-100	08/18/2014	NR	26.66	-	-	-	-	-		
MW-100	08/25/2014	30.78	26.26	-	-	-	-	4.52		
MW-100	09/02/2014	30.78	26.70	-	-	-	-	4.08		
MW-100	09/15/2014	30.78	26.65	-	-	-	-	4.13		
MW-100	09/22/2014	30.78	26.48	-	-	-	-	4.30		
MW-100	10/01/2014	30.78	26.69	-	-	-	36.68	4.09		
MW-100	10/10/2014	30.78	26.60	-	-	-	-	4.18		
MW-100	10/20/2014	30.78	26.86	-	-	-	36.58	3.92		
MW-100	02/24/2015	30.78	26.88	-	-	-	36.61	3.90	13:08	
MW-100	02/25/2015	30.78	26.87	-	-	-	36.62	3.91	11:32	
MW-102	08/15/2014	NR	29.91	-	-	-	36.64	-		
MW-102	08/18/2014	NR	29.81	-	-	-	-	-		
MW-102	08/25/2014	29.72	28.40	-	-	-	-	1.32		
MW-102	09/02/2014	29.72	27.23	-	-	-	-	2.49		
MW-102	09/15/2014	29.72	24.97	-	-	-	-	4.75		
MW-102	09/22/2014	29.72	24.83	-	-	-	-	4.89		
MW-102	10/01/2014	29.72	24.73	-	-	-	36.45	4.99		
MW-102	10/10/2014	29.72	24.66	-	-	-	-	5.06		
MW-102	10/20/2014	29.72	24.78	-	-	-	36.44	4.94		
MW-103	07/24/2014	NR	7.87	-	-	-	-	-		
MW-103	08/08/2014	NR	4.61	-	-	-	15.06	-		
MW-103	08/11/2014	NR	4.63	-	-	-	-	-		
MW-103	08/15/2014	NR	4.26	-	-	-	14.95	-		
MW-103	08/18/2014	NR	4.48	-	-	-	-	-		
MW-103	08/25/2014	11.07	4.45	-	-	-	-	6.62		
MW-103	09/02/2014	11.07	4.50	-	-	-	-	6.57		
MW-103	09/15/2014	11.07	4.63	-	-	-	-	6.44		
MW-103	09/22/2014	11.07	4.76	-	-	-	-	6.31		
MW-103	10/01/2014	11.07	4.85	-	-	-	14.88	6.22		
MW-103	10/10/2014	11.07	4.93	-	-	-	-	6.14		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-103	10/20/2014	11.07	4.70	-	-	-	14.88	6.37		
MW-103	02/24/2015	11.07	5.02	-	-	-	-	6.05	15:27	
MW-103	02/26/2015	11.07	5.21	-	-	-	14.90	5.86	11:53	
MW-104	07/24/2014	NR	5.24	-	-	-	-	-		
MW-104	08/08/2014	NR	4.28	-	-	-	12.05	-		
MW-104	08/11/2014	NR	4.40	-	-	-	-	-		
MW-104	08/15/2014	NR	3.95	-	-	-	12.20	-		
MW-104	08/18/2014	NR	4.22	-	-	-	-	-		
MW-104	08/25/2014	12.00	4.29	-	-	-	-	7.71		
MW-104	09/02/2014	12.00	4.38	-	-	-	-	7.62		
MW-104	09/15/2014	12.00	4.52	-	-	-	-	7.48		
MW-104	09/22/2014	12.00	4.73	-	-	-	-	7.27		
MW-104	10/01/2014	12.00	4.73	-	-	-	11.98	7.27		
MW-104	10/10/2014	12.00	4.77	-	-	-	-	7.23		
MW-104	10/20/2014	12.00	3.98	-	-	-	12.07	8.02		
MW-104	02/24/2015	12.00	5.43	-	-	-	-	6.57	15:38	
MW-104	02/26/2015	12.00	5.70	-	-	-	12.00	6.30	12:07	
MW-105	07/24/2014	NR	2.34	-	-	-	-	-		
MW-105	08/08/2014	NR	2.15	-	-	-	10.06	-		
MW-105	08/11/2014	NR	2.39	-	-	-	-	-		
MW-105	08/15/2014	NR	1.67	-	-	-	9.95	-		
MW-105	08/18/2014	NR	2.06	-	-	-	-	-		
MW-105	08/25/2014	10.94	2.25	-	-	-	-	8.69		
MW-105	09/02/2014	10.94	2.24	-	-	-	-	8.70		
MW-105	09/15/2014	10.94	2.32	-	-	-	-	8.62		
MW-105	09/22/2014	10.94	2.71	-	-	-	-	8.23		
MW-105	10/01/2014	10.94	2.57	-	-	-	9.88	8.37		
MW-105	10/10/2014	10.94	2.70	-	-	-	-	8.24		
MW-105	10/20/2014	10.94	1.70	-	-	-	9.93	9.24		
MW-106	08/08/2014	NR	8.30	-	-	-	10.27	-		
MW-106	08/11/2014	NR	8.27	-	-	-	-	-		
MW-106	08/15/2014	NR	7.63	-	-	-	9.88	-		
MW-106	08/18/2014	NR	7.58	-	-	-	-	-		
MW-106	08/25/2014	11.12	7.52	-	-	-	-	3.60		
MW-106	09/02/2014	11.12	7.79	-	-	-	-	3.33		
MW-106	09/15/2014	11.12	7.90	-	-	-	-	3.22		
MW-106	09/22/2014	11.12	7.87	-	-	-	-	3.25		
MW-106	10/01/2014	11.12	7.93	-	-	-	9.88	3.19		
MW-106	10/10/2014	11.12	7.71	-	-	-	-	3.41		
MW-106	10/13/2014	11.12	7.92	-	-	-	-	3.20		
MW-106	10/20/2014	11.12	7.86	-	-	-	9.88	3.26		
MW-106	10/27/2014	11.12	7.77	-	-	-	-	3.35		
MW-106	11/07/2014	11.12	7.83	-	-	-	-	3.29		
MW-106	11/12/2014	11.12	7.88	-	-	-	-	3.24		
MW-106	11/21/2014	11.12	8.23	-	-	-	-	2.89		
MW-106	11/26/2014	11.12	8.03	-	-	-	-	3.09		
MW-106	12/05/2014	11.12	7.21	-	-	-	-	3.91		
MW-106	12/11/2014	11.12	6.95	-	-	-	-	4.17		
MW-106	12/16/2014	11.12	7.18	-	-	-	-	3.94		
MW-106	12/23/2014	11.12	7.31	-	-	-	-	3.81		
MW-106	12/30/2014	11.12	6.97	-	-	-	-	4.15		
MW-106	01/09/2015	11.12	7.34	-	-	-	-	3.78		
MW-106	01/16/2015	11.12	6.88	-	-	-	-	4.24		
MW-106	01/19/2015	11.12	6.77	-	-	-	-	4.35		
MW-106	01/26/2015	11.12	5.79	-	-	-	-	5.33		
MW-106	02/03/2015	11.12	7.24	-	-	-	9.90	3.88		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-106	02/09/2015	11.12	7.42	-	-	-	-	3.70		
MW-106	02/18/2015	11.12	7.63	-	-	-	-	3.49		
MW-106	02/24/2015	11.12	7.76	-	-	-	9.84	3.36	13:18	
MW-106	02/25/2015	11.12	7.80	-	-	-	9.79	3.32	10:20	
MW-106	03/04/2015	11.12	7.57	-	-	-	-	3.55	13:52	
MW-106	03/11/2015	11.12	5.17	-	-	-	-	5.95	12:19	
MW-106	03/18/2015	11.12	6.39	-	-	-	-	4.73	10:42	
MW-106	03/26/2015	11.12	7.02	-	-	-	9.90	4.10	11:02	
MW-107	08/08/2014	NR	10.62	-	-	-	11.57	-		
MW-107	08/11/2014	NR	9.02	-	-	-	-	-		
MW-107	08/15/2014	NR	8.94	-	-	-	-	-		
MW-107	08/16/2014	NR	8.93	-	-	-	11.57	-		
MW-107	08/18/2014	NR	8.89	-	-	-	-	-		
MW-107	08/25/2014	15.74	8.38	-	-	-	-	7.36		
MW-107	09/02/2014	15.74	8.43	-	-	-	-	7.31		
MW-107	09/15/2014	15.74	9.39	-	-	-	-	6.35		
MW-107	09/22/2014	15.74	9.92	-	-	-	-	5.82		
MW-107	10/01/2014	15.74	10.32	-	-	-	11.03	5.42		
MW-107	10/10/2014	15.74	10.53	-	-	-	-	5.21		
MW-107	10/13/2014	15.74	10.67	-	-	-	-	5.07		
MW-107	10/20/2014	15.74	8.43	-	-	-	11.04	7.31		
MW-107	10/27/2014	15.74	7.97	-	-	-	-	7.77		
MW-107	11/07/2014	15.74	8.32	-	-	-	-	7.42		
MW-107	11/12/2014	15.74	8.63	-	-	-	-	7.11		
MW-107	11/21/2014	15.74	9.38	-	-	-	-	6.36		
MW-107	11/26/2014	15.74	8.93	-	-	-	-	6.81		
MW-107	12/05/2014	15.74	7.47	-	-	-	-	8.27		
MW-107	12/11/2014	15.74	7.43	-	-	-	-	8.31		
MW-107	12/16/2014	15.74	8.28	-	-	-	-	7.46		
MW-107	12/23/2014	15.74	8.35	-	-	-	-	7.39		
MW-107	12/30/2014	15.74	8.20	-	-	-	-	7.54		
MW-107	01/09/2015	15.74	8.03	-	-	-	-	7.71		
MW-107	01/16/2015	15.74	7.68	-	-	-	-	8.06		
MW-107	01/19/2015	15.74	6.76	-	-	-	-	8.98		
MW-107	01/26/2015	15.74	5.84	-	-	-	-	9.90		
MW-107	02/03/2015	15.74	8.63	-	-	-	11.04	7.11		
MW-107	02/09/2015	15.74	8.73	-	-	-	-	7.01		
MW-107	02/18/2015	15.74	9.21	-	-	-	-	6.53		
MW-107	02/24/2015	15.74	9.78	-	-	-	11.00	5.96	13:23	
MW-107	02/25/2015	15.74	9.64	-	-	-	11.00	6.10	11:40	
MW-107	03/04/2015	15.74	9.48	-	-	-	-	6.26	13:55	
MW-107	03/11/2015	15.74	4.08	-	-	-	-	11.66	12:22	
MW-107	03/18/2015	15.74	7.44	-	-	-	-	8.30	10:45	
MW-107	03/26/2015	15.74	8.98	-	-	-	11.00	6.76	11:05	
MW-108	08/08/2014	NR	DRY	-	-	-	9.49	-		
MW-108	08/11/2014	NR	DRY	-	-	-	9.52	-		
MW-108	08/15/2014	NR	9.01	-	-	-	9.22	-		
MW-108	08/18/2014	NR	9.07	-	-	-	-	-		
MW-108	08/25/2014	15.61	DRY	-	-	-	9.23	-		
MW-108	09/02/2014	15.61	DRY	-	-	-	9.23	-		
MW-108	09/15/2014	15.61	DRY	-	-	-	9.22	-		
MW-108	09/22/2014	15.61	DRY	-	-	-	-	-		
MW-108	10/01/2014	15.61	DRY	-	-	-	10.48	-		
MW-108	10/10/2014	15.61	DRY	-	-	-	-	-		
MW-108	10/20/2014	15.61	DRY	-	-	-	10.48	-		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-109S	08/25/2014	19.27	10.06	-	-	-	-	9.21		
MW-109S	09/15/2014	19.27	10.19	-	-	-	-	9.08		
MW-109S	09/22/2014	19.27	10.24	-	-	-	-	9.03		
MW-109S	10/01/2014	19.27	10.33	-	-	-	13.20	8.94		
MW-109S	10/10/2014	19.27	10.47	-	-	-	-	8.80		
MW-109S	10/13/2014	19.27	10.58	-	-	-	-	8.69		
MW-109S	10/20/2014	19.27	10.67	-	-	-	13.20	8.60		
MW-109S	10/27/2014	19.27	10.83	-	-	-	-	8.44		
MW-109S	11/07/2014	19.27	10.76	-	-	-	-	8.51		
MW-109S	11/12/2014	19.27	10.85	-	-	-	-	8.42		
MW-109S	11/21/2014	19.27	11.04	-	-	-	-	8.23		
MW-109S	11/26/2014	19.27	11.02	-	-	-	-	8.25		
MW-109S	02/24/2015	19.27	11.43	-	-	-	13.06	7.84	13:55	
MW-109S	02/26/2015	19.27	11.36	-	-	-	13.06	7.91	10:40	
MW-109	08/25/2014	19.16	14.59	-	-	-	-	4.57		
MW-109	09/15/2014	19.16	14.98	-	-	-	-	4.18		
MW-109	09/22/2014	19.16	14.88	-	-	-	-	4.28		
MW-109	10/01/2014	19.16	15.07	-	-	-	22.79	4.09		
MW-109	10/10/2014	19.16	14.96	-	-	-	-	4.20		
MW-109	10/13/2014	19.16	15.09	-	-	-	-	4.07		
MW-109	10/20/2014	19.16	15.22	-	-	-	22.72	3.94		
MW-109	10/27/2014	19.16	15.27	-	-	-	-	3.89		
MW-109	11/07/2014	19.16	15.07	-	-	-	-	4.09		
MW-109	11/12/2014	19.16	15.13	-	-	-	-	4.03		
MW-109	11/21/2014	19.16	15.81	-	-	-	-	3.35		
MW-109	11/26/2014	19.16	15.33	-	-	-	-	3.83		
MW-109	02/24/2015	19.16	15.25	-	-	-	22.80	3.91	13:58	
MW-109	02/26/2015	19.16	15.25	-	-	-	22.80	3.91	10:44	
MW-110S	08/25/2014	19.13	10.05	-	-	-	12.70	9.08		
MW-110S	09/15/2014	19.13	10.23	-	-	-	-	8.90		
MW-110S	09/22/2014	19.13	10.28	-	-	-	-	8.85		
MW-110S	10/01/2014	19.13	10.33	-	-	-	12.65	8.80		
MW-110S	10/10/2014	19.13	10.41	-	-	-	-	8.72		
MW-110S	10/20/2014	19.13	10.45	-	-	-	12.66	8.68		
MW-110S	10/27/2014	19.13	10.48	-	-	-	-	8.65		
MW-110S	11/07/2014	19.13	10.50	-	-	-	-	8.63		
MW-110S	11/12/2014	19.13	10.53	-	-	-	-	8.60		
MW-110S	11/21/2014	19.13	10.60	-	-	-	-	8.53		
MW-110S	11/26/2014	19.13	10.60	-	-	-	-	8.53		
MW-110S	02/24/2015	19.13	11.53	-	-	-	12.67	7.60	13:49	
MW-110S	02/26/2015	19.13	11.59	-	-	-	12.67	7.54	10:33	
MW-110	08/25/2014	19.51	14.70	-	-	-	24.40	4.81		
MW-110	09/15/2014	19.51	15.11	-	-	-	-	4.40		
MW-110	09/22/2014	19.51	14.98	-	-	-	-	4.53		
MW-110	10/01/2014	19.51	15.18	-	-	-	23.33	4.33		
MW-110	10/10/2014	19.51	15.07	-	-	-	-	4.44		
MW-110	10/20/2014	19.51	14.35	-	-	-	23.34	5.16		
MW-110	10/27/2014	19.51	14.39	-	-	-	-	5.12		
MW-110	11/07/2014	19.51	15.18	-	-	-	-	4.33		
MW-110	11/12/2014	19.51	15.25	-	-	-	-	4.26		
MW-110	11/21/2014	19.51	15.97	-	-	-	-	3.54		
MW-110	11/26/2014	19.51	15.45	-	-	-	-	4.06		
MW-110	02/24/2015	19.51	15.38	-	-	-	23.36	4.13	13:52	
MW-110	02/26/2015	19.51	15.38	-	-	-	23.36	4.13	10:36	
MW-111	10/10/2014	19.17	14.97	-	-	-	-	4.20		
MW-111	10/20/2014	19.17	14.25	-	-	-	21.97	4.92		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-111	02/24/2015	19.17	15.30	-	-	-	21.96	3.87	13:43	
MW-111	02/26/2015	19.17	15.28	-	-	-	21.96	3.89	10:25	
MW-112S	08/15/2014	NR	10.31	-	-	-	12.40	-		
MW-112S	08/18/2014	NR	10.22	-	-	-	12.45	-		
MW-112S	08/25/2014	19.22	10.29	-	-	-	-	8.93		
MW-112S	09/15/2014	19.22	10.43	-	-	-	-	8.79		
MW-112S	09/22/2014	19.22	10.56	-	-	-	-	8.66		
MW-112S	10/01/2014	19.22	10.58	-	-	-	12.46	8.64		
MW-112S	10/10/2014	19.22	10.64	-	-	-	-	8.58		
MW-112S	10/20/2014	19.22	10.75	-	-	-	12.47	8.47		
MW-112S	02/24/2015	19.22	11.30	-	-	-	12.48	7.92	13:37	
MW-112S	02/26/2015	19.22	11.34	-	-	-	12.48	7.88	10:19	
MW-112	08/15/2014	NR	15.11	-	-	-	22.55	-		
MW-112	08/18/2014	NR	14.43	-	-	-	22.31	-		
MW-112	08/25/2014	19.08	14.53	-	-	-	-	4.55		
MW-112	09/02/2014	19.08	NR[3]	-	-	-	-	-		
MW-112	09/15/2014	19.08	14.85	-	-	-	-	4.23		
MW-112	09/22/2014	19.08	14.77	-	-	-	-	4.31		
MW-112	10/01/2014	19.08	14.92	-	-	-	22.83	4.16		
MW-112	10/10/2014	19.08	14.87	-	-	-	-	4.21		
MW-112	10/20/2014	19.08	15.15	-	-	-	22.83	3.93		
MW-112	02/24/2015	19.08	15.19	-	-	-	22.75	3.89	13:40	
MW-112	02/26/2015	19.08	15.15	-	-	-	22.75	3.93	10:22	
MW-113	08/25/2014	19.11	14.49	-	-	-	-	4.62		
MW-113	09/15/2014	19.11	14.96	-	-	-	-	4.15		
MW-113	09/22/2014	19.11	14.83	-	-	-	-	4.28		
MW-113	10/01/2014	19.11	15.04	-	-	-	22.95	4.07		
MW-113	10/10/2014	19.11	14.84	-	-	-	-	4.27		
MW-113	10/20/2014	19.11	15.20	-	-	-	22.95	3.91		
MW-113	02/24/2015	19.11	15.24	-	-	-	22.95	3.87	13:46	
MW-113	02/26/2015	19.11	15.27	-	-	-	22.95	3.84	10:29	
MW-114	08/25/2014	19.26	14.62	-	-	-	22.78	4.64		
MW-114	09/15/2014	19.26	14.89	-	-	-	-	4.37		
MW-114	09/22/2014	19.26	14.87	-	-	-	-	4.39		
MW-114	10/01/2014	19.26	14.96	-	-	-	22.77	4.30		
MW-114	10/10/2014	19.26	15.01	-	-	-	-	4.25		
MW-114	10/20/2014	19.26	15.29	-	-	-	22.77	3.97		
MW-114	02/24/2015	19.26	15.25	-	-	-	22.77	4.01	13:34	
MW-114	02/26/2015	19.26	15.10	-	-	-	22.77	4.16	10:15	
RW-1	10/10/2014	NR	26.93	-	-	-	-	-		
RW-1	10/13/2014	NR	27.09	-	-	-	-	-		
RW-1	10/20/2014	NR	27.27	-	-	-	40.65	-		
RW-1	10/27/2014	31.19	27.35	-	-	-	-	3.84		
RW-1	11/07/2014	31.19	27.10	-	-	-	-	4.09		
RW-1	11/12/2014	31.19	27.15	-	-	-	-	4.04		
RW-1	11/21/2014	31.19	27.83	-	-	-	-	3.36		
RW-1	11/26/2014	31.19	27.42	-	-	-	-	3.77		
RW-1	12/05/2014	31.19	27.25	-	-	-	-	3.94		
RW-1	12/11/2014	31.19	27.09	-	-	-	-	4.10		
RW-1	12/16/2014	31.19	26.98	-	-	-	-	4.21		
RW-1	12/23/2014	31.19	26.98	-	-	-	-	4.21		
RW-1	12/30/2014	31.19	27.38	-	-	-	-	3.81		
RW-1	01/09/2015	31.19	27.37	-	-	-	-	3.82		
RW-1	01/16/2015	31.19	27.08	-	-	-	-	4.11		
RW-1	01/19/2015	31.19	27.07	-	-	-	-	4.12		
RW-1	01/26/2015	31.19	27.03	-	-	-	-	4.16		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
RW-1	02/03/2015	31.19	27.80	-	-	-	40.75	3.39		
RW-1	02/09/2015	31.19	27.18	-	-	-	-	4.01		
RW-1	02/18/2015	31.19	27.22	-	-	-	-	3.97		
RW-1	02/24/2015	31.19	27.42	-	-	-	40.35	3.77	13:49	
RW-1	03/04/2015	31.19	27.27	-	-	-	-	3.92	14:12	
RW-1	03/11/2015	31.19	26.90	-	-	-	-	4.29	12:42	
RW-1	03/18/2015	31.19	27.04	-	-	-	-	4.15	11:02	
RW-1	03/26/2015	31.19	26.87	-	-	-	40.70	4.32	11:35	
SP-1	02/24/2015	30.87	27.08	-	-	-	-	3.79	13:59	
SP-2	10/01/2014	NR	27.23	-	-	-	35.45	-		
SP-2	10/10/2014	NR	27.10	-	-	-	-	-		
TW-02	12/18/2013	20.60	15.52	-	-	-	-	5.08		
TW-02	01/08/2014	20.60	15.08	-	-	-	-	5.52		
TW-02	03/07/2014	20.60	14.81	-	-	-	-	5.79		
TW-02	03/13/2014	20.60	14.22	-	-	-	-	6.38		
TW-02	03/20/2014	20.60	13.39	-	-	-	-	7.21		
TW-02	03/27/2014	20.60	14.31	-	-	-	-	6.29		
TW-02	04/03/2014	20.60	13.25	-	-	-	-	7.35		
TW-02	04/08/2014	20.60	13.74	-	-	-	-	6.86		
TW-02	04/17/2014	20.60	13.70	-	-	-	-	6.90		
TW-02	04/22/2014	20.60	13.62	-	-	-	-	6.98		
TW-02	04/29/2014	20.60	13.96	-	-	-	-	6.64		
TW-02	05/05/2014	20.60	13.55	-	-	-	-	7.05		
TW-02	05/12/2014	20.60	14.25	-	-	-	-	6.35		
TW-02	05/19/2014	20.60	13.63	-	-	-	-	6.97		
TW-02	05/27/2014	20.60	14.31	-	-	-	-	6.29		
TW-02	06/02/2014	20.60	14.34	-	-	-	-	6.26		
TW-02	06/09/2014	20.60	14.71	-	-	-	-	5.89		
TW-02	06/16/2014	20.60	14.30	-	-	-	-	6.30		
TW-02	06/23/2014	20.60	14.48	-	-	-	-	6.12		
TW-02	07/02/2014	20.60	14.77	-	-	-	-	5.83		
TW-02	07/07/2014	20.60	15.08	-	-	-	21.28	5.52		
TW-02	07/14/2014	20.60	15.02	-	-	-	-	5.58		
TW-02	07/31/2014	20.60	15.40	-	-	-	21.22	5.20		
TW-02	08/08/2014	20.60	15.40	-	-	-	-	5.20		
TW-02	08/11/2014	20.60	15.28	-	-	-	-	5.32		
TW-02	08/15/2014	20.60	14.84	-	-	-	21.15	5.76		
TW-02	08/18/2014	20.60	15.06	-	-	-	-	5.54		
TW-02	08/25/2014	NR	14.71	-	-	-	-	-		
TW-02	09/02/2014	NR	15.18	-	-	-	-	-		
TW-02	09/15/2014	NR	14.90	-	-	-	-	-		
TW-02	09/22/2014	NR	15.00	-	-	-	-	-		
TW-02	10/01/2014	NR	15.22	-	-	-	21.12	-		
TW-02	10/13/2014	NR	14.92	-	-	-	-	-		
TW-02	10/20/2014	NR	15.10	-	-	-	20.99	-		
TW-02	02/24/2015	16.11	14.34	-	-	-	-	1.77	15:01	
TW-03	12/18/2013	14.87	9.08	-	-	-	-	5.79		
TW-03	01/08/2014	14.87	9.42	-	-	-	-	5.45		
TW-03	03/07/2014	14.87	7.66	-	-	-	-	7.21		
TW-03	03/13/2014	14.87	8.09	-	-	-	-	6.78		
TW-03	03/20/2014	14.87	7.50	-	-	-	-	7.37		
TW-03	03/27/2014	14.87	8.47	-	-	-	-	6.40		
TW-03	04/03/2014	14.87	6.99	-	-	-	-	7.88		
TW-03	04/08/2014	14.87	7.64	-	-	-	-	7.23		
TW-03	04/17/2014	14.87	7.33	-	-	-	-	7.54		
TW-03	04/22/2014	14.87	7.64	-	-	-	-	7.23		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-03	04/29/2014	14.87	7.36	-	-	-	-	7.51		
TW-03	05/05/2014	14.87	7.58	-	-	-	-	7.29		
TW-03	05/12/2014	14.87	7.93	-	-	-	-	6.94		
TW-03	05/19/2014	14.87	8.42	-	-	-	-	6.45		
TW-03	05/27/2014	14.87	7.69	-	-	-	-	7.18		
TW-03	06/02/2014	14.87	8.00	-	-	-	-	6.87		
TW-03	06/09/2014	14.87	7.77	-	-	-	-	7.10		
TW-03	06/16/2014	14.87	7.60	-	-	-	-	7.27		
TW-03	06/23/2014	14.87	7.68	-	-	-	-	7.19		
TW-03	07/02/2014	14.87	7.97	-	-	-	-	6.90		
TW-03	07/07/2014	14.87	8.31	-	-	-	13.45	6.56		
TW-03	07/14/2014	14.87	7.55	-	-	-	-	7.32		
TW-03	07/25/2014	14.87	8.45	-	-	-	13.30	6.42		
TW-03	07/31/2014	14.87	8.14	-	-	-	13.35	6.73		
TW-03	08/08/2014	14.87	8.39	-	-	-	-	6.48		
TW-03	08/11/2014	14.87	8.12	-	-	-	-	6.75		
TW-03	08/15/2014	14.87	8.10	-	-	-	13.40	6.77		
TW-03	08/18/2014	14.87	8.25	-	-	-	-	6.62		
TW-03	08/25/2014	10.40	7.85	-	-	-	-	2.55		
TW-03	09/02/2014	10.40	8.52	-	-	-	-	1.88		
TW-03	09/15/2014	10.40	8.33	-	-	-	-	2.07		
TW-03	09/22/2014	10.40	8.26	-	-	-	-	2.14		
TW-03	10/01/2014	10.40	8.35	-	-	-	13.15	2.05		
TW-03	10/13/2014	10.40	8.18	-	-	-	-	2.22		
TW-03	10/20/2014	10.40	8.50	-	-	-	13.14	1.90		
TW-03	02/24/2015	10.40	8.57	-	-	-	-	1.83	14:49	
TW-04	12/18/2013	13.26	6.25	-	-	-	-	7.01		
TW-04	01/08/2014	13.26	6.71	-	-	-	-	6.55		
TW-04	03/07/2014	13.26	6.06	-	-	-	-	7.20		
TW-04	03/13/2014	13.26	6.26	-	-	-	-	7.00		
TW-04	03/20/2014	13.26	6.17	-	-	-	-	7.09		
TW-04	03/27/2014	13.26	6.55	-	-	-	-	6.71		
TW-04	04/03/2014	13.26	4.64	-	-	-	-	8.62		
TW-04	04/08/2014	13.26	5.38	-	-	-	-	7.88		
TW-04	04/17/2014	13.26	5.60	-	-	-	-	7.66		
TW-04	04/22/2014	13.26	5.56	-	-	-	-	7.70		
TW-04	04/29/2014	13.26	5.91	-	-	-	-	7.35		
TW-04	05/05/2014	13.26	5.06	-	-	-	-	8.20		
TW-04	05/12/2014	13.26	5.82	-	-	-	-	7.44		
TW-04	05/19/2014	13.26	4.61	-	-	-	-	8.65		
TW-04	05/27/2014	13.26	5.66	-	-	-	-	7.60		
TW-04	06/02/2014	13.26	5.83	-	-	-	-	7.43		
TW-04	06/09/2014	13.26	5.87	-	-	-	-	7.39		
TW-04	06/16/2014	13.26	5.21	-	-	-	-	8.05		
TW-04	06/23/2014	13.26	5.68	-	-	-	-	7.58		
TW-04	07/02/2014	13.26	5.96	-	-	-	-	7.30		
TW-04	07/07/2014	13.26	6.18	-	-	-	13.77	7.08		
TW-04	07/14/2014	13.26	5.80	-	-	-	-	7.46		
TW-04	07/25/2014	13.26	6.20	-	-	-	13.70	7.06		
TW-04	07/31/2014	13.26	6.08	-	-	-	13.76	7.18		
TW-04	08/08/2014	13.26	6.21	-	-	-	-	7.05		
TW-04	08/11/2014	13.26	6.19	-	-	-	-	7.07		
TW-04	08/15/2014	13.26	5.99	-	-	-	13.75	7.27		
TW-04	08/18/2014	13.26	5.92	-	-	-	-	7.34		
TW-04	08/25/2014	9.49	5.87	-	-	-	-	3.62		
TW-04	09/02/2014	9.49	6.25	-	-	-	-	3.24		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-04	09/15/2014	9.49	6.17	-	-	-	-	3.32		
TW-04	09/22/2014	9.49	6.20	-	-	-	-	3.29		
TW-04	10/01/2014	9.49	6.23	-	-	-	13.55	3.26		
TW-04	10/10/2014	9.49	6.18	-	-	-	-	3.31		
TW-04	10/13/2014	9.49	6.19	-	-	-	-	3.30		
TW-04	10/20/2014	9.49	6.28	-	-	-	13.40	3.21		
TW-04	10/27/2014	9.49	6.04	-	-	-	-	3.45		
TW-04	11/07/2014	9.49	6.27	-	-	-	-	3.22		
TW-04	11/12/2014	9.49	6.19	-	-	-	-	3.30		
TW-04	11/21/2014	9.49	6.78	-	-	-	-	2.71		
TW-04	11/26/2014	9.49	6.33	-	-	-	-	3.16		
TW-04	12/05/2014	9.49	5.75	-	-	-	-	3.74		
TW-04	12/11/2014	9.49	5.60	-	-	-	-	3.89		
TW-04	12/16/2014	9.49	5.83	-	-	-	-	3.66		
TW-04	12/23/2014	9.49	5.82	-	-	-	-	3.67		
TW-04	12/30/2014	9.49	5.73	-	-	-	-	3.76		
TW-04	01/09/2015	9.49	6.06	-	-	-	-	3.43		
TW-04	01/16/2015	9.49	5.64	-	-	-	-	3.85		
TW-04	01/19/2015	9.49	5.37	-	-	-	-	4.12		
TW-04	01/26/2015	9.49	4.78	-	-	-	-	4.71		
TW-04	02/03/2015	9.49	6.06	-	-	-	13.21	3.43		
TW-04	02/09/2015	9.49	6.08	-	-	-	-	3.41		
TW-04	02/18/2015	9.49	6.19	-	-	-	-	3.30		
TW-04	02/24/2015	9.49	6.21	-	-	-	-	3.28	15:00	
TW-04	03/04/2015	9.49	6.11	-	-	-	-	3.38	11:45	
TW-04	03/11/2015	9.49	3.93	-	-	-	-	5.56	12:00	
TW-04	03/18/2015	9.49	5.40	-	-	-	-	4.09	10:23	
TW-04	03/26/2015	9.49	5.75	-	-	-	13.20	3.74	12:21	
TW-05	12/18/2013	13.73	6.45	-	-	-	-	7.28		
TW-05	01/08/2014	13.73	6.98	-	-	-	-	6.75		
TW-05	03/07/2014	13.73	6.34	-	-	-	-	7.39		
TW-05	03/13/2014	13.73	6.49	-	-	-	-	7.24		
TW-05	03/20/2014	13.73	6.04	-	-	-	-	7.69		
TW-05	03/27/2014	13.73	6.68	-	-	-	-	7.05		
TW-05	04/03/2014	13.73	4.29	-	-	-	-	9.44		
TW-05	04/08/2014	13.73	5.36	-	-	-	-	8.37		
TW-05	04/17/2014	13.73	5.33	-	-	-	-	8.40		
TW-05	04/22/2014	13.73	5.65	-	-	-	-	8.08		
TW-05	04/29/2014	13.73	6.06	-	-	-	-	7.67		
TW-05	05/05/2014	13.73	4.91	-	-	-	-	8.82		
TW-05	05/12/2014	13.73	6.01	-	-	-	-	7.72		
TW-05	05/19/2014	13.73	4.65	-	-	-	-	9.08		
TW-05	05/27/2014	13.73	5.91	-	-	-	-	7.82		
TW-05	06/02/2014	13.73	6.07	-	-	-	-	7.66		
TW-05	06/09/2014	13.73	6.11	-	-	-	-	7.62		
TW-05	06/16/2014	13.73	5.28	-	-	-	-	8.45		
TW-05	06/23/2014	13.73	5.95	-	-	-	-	7.78		
TW-05	07/02/2014	13.73	6.28	-	-	-	-	7.45		
TW-05	07/07/2014	13.73	6.49	-	-	-	12.06	7.24		
TW-05	07/14/2014	13.73	6.06	-	-	-	-	7.67		
TW-05	07/25/2014	13.73	5.43	-	-	-	12.08	8.30		
TW-05	07/31/2014	13.73	6.50	-	-	-	12.10	7.23		
TW-05	08/08/2014	13.73	6.56	-	-	-	-	7.17		
TW-05	08/11/2014	13.73	6.51	-	-	-	-	7.22		
TW-05	08/15/2014	13.73	5.91	-	-	-	11.95	7.82		
TW-05	08/18/2014	13.73	6.14	-	-	-	-	7.59		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-05	08/25/2014	9.64	6.13	-	-	-	-	3.51		
TW-05	09/02/2014	9.64	6.59	-	-	-	-	3.05		
TW-05	09/15/2014	9.64	6.57	-	-	-	-	3.07		
TW-05	09/22/2014	9.64	6.58	-	-	-	-	3.06		
TW-05	10/01/2014	9.64	6.63	-	-	-	11.74	3.01		
TW-05	10/10/2014	9.64	6.52	-	-	-	-	3.12		
TW-05	10/13/2014	9.64	6.58	-	-	-	-	3.06		
TW-05	10/20/2014	9.64	6.60	-	-	-	12.63	3.04		
TW-05	10/27/2014	9.64	6.23	-	-	-	-	3.41		
TW-05	11/07/2014	9.64	6.58	-	-	-	-	3.06		
TW-05	11/12/2014	9.64	6.56	-	-	-	-	3.08		
TW-05	11/21/2014	9.64	7.07	-	-	-	-	2.57		
TW-05	11/26/2014	9.64	6.67	-	-	-	-	2.97		
TW-05	12/05/2014	9.64	5.57	-	-	-	-	4.07		
TW-05	12/11/2014	9.64	5.38	-	-	-	-	4.26		
TW-05	12/16/2014	9.64	5.86	-	-	-	-	3.78		
TW-05	12/23/2014	9.64	6.08	-	-	-	-	3.56		
TW-05	12/30/2014	9.64	5.50	-	-	-	-	4.14		
TW-05	01/09/2015	9.64	6.27	-	-	-	-	3.37		
TW-05	01/16/2015	9.64	5.48	-	-	-	-	4.16		
TW-05	01/19/2015	9.64	5.08	-	-	-	-	4.56		
TW-05	01/26/2015	9.64	4.30	-	-	-	-	5.34		
TW-05	02/03/2015	9.64	6.20	-	-	-	11.88	3.44		
TW-05	02/09/2015	9.64	6.38	-	-	-	-	3.26		
TW-05	02/18/2015	9.64	6.64	-	-	-	-	3.00		
TW-05	02/24/2015	9.64	6.61	-	-	-	-	3.03	14:57	
TW-05	03/04/2015	9.64	6.27	-	-	-	-	3.37	12:15	
TW-05	03/11/2015	9.64	3.15	-	-	-	-	6.49	12:03	
TW-05	03/18/2015	9.64	4.61	-	-	-	-	5.03	10:26	
TW-05	03/26/2015	9.64	5.94	-	-	-	12.10	3.70	12:25	
TW-06	12/18/2013	13.97	6.21	-	-	-	-	7.76		
TW-06	01/08/2014	13.97	6.98	-	-	-	-	6.99		
TW-06	03/07/2014	13.97	6.40	-	-	-	-	7.57		
TW-06	03/13/2014	13.97	6.62	-	-	-	-	7.35		
TW-06	03/20/2014	13.97	6.26	-	-	-	-	7.71		
TW-06	03/27/2014	13.97	6.88	-	-	-	-	7.09		
TW-06	04/03/2014	13.97	4.81	-	-	-	-	9.16		
TW-06	04/08/2014	13.97	5.82	-	-	-	-	8.15		
TW-06	04/17/2014	13.97	5.41	-	-	-	-	8.56		
TW-06	04/22/2014	13.97	5.90	-	-	-	-	8.07		
TW-06	04/29/2014	13.97	6.30	-	-	-	-	7.67		
TW-06	05/05/2014	13.97	4.98	-	-	-	-	8.99		
TW-06	05/12/2014	13.97	6.18	-	-	-	-	7.79		
TW-06	05/19/2014	13.97	4.63	-	-	-	-	9.34		
TW-06	05/27/2014	13.97	6.79	-	-	-	-	7.18		
TW-06	06/02/2014	13.97	6.24	-	-	-	-	7.73		
TW-06	06/09/2014	13.97	6.31	-	-	-	-	7.66		
TW-06	06/16/2014	13.97	5.33	-	-	-	-	8.64		
TW-06	06/23/2014	13.97	6.12	-	-	-	-	7.85		
TW-06	07/02/2014	13.97	6.52	-	-	-	-	7.45		
TW-06	07/07/2014	13.97	6.70	-	-	-	12.60	7.27		
TW-06	07/14/2014	13.97	6.24	-	-	-	-	7.73		
TW-06	07/25/2014	13.97	6.65	-	-	-	12.60	7.32		
TW-06	08/08/2014	13.97	6.81	-	-	-	-	7.16		
TW-06	08/11/2014	13.97	6.71	-	-	-	-	7.26		
TW-06	08/15/2014	13.97	6.01	-	-	-	12.70	7.96		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-06	08/18/2014	13.97	6.33	-	-	-	-	7.64		
TW-06	08/25/2014	9.86	6.37	-	-	-	-	3.49		
TW-06	09/02/2014	9.86	6.80	-	-	-	-	3.06		
TW-06	09/15/2014	9.86	6.79	-	-	-	-	3.07		
TW-06	09/22/2014	9.86	6.77	-	-	-	-	3.09		
TW-06	10/01/2014	9.86	6.88	-	-	-	12.60	2.98		
TW-06	10/10/2014	9.86	6.77	-	-	-	-	3.09		
TW-06	10/13/2014	9.86	6.85	-	-	-	-	3.01		
TW-06	10/20/2014	9.86	6.76	-	-	-	12.63	3.10		
TW-06	10/27/2014	9.86	6.39	-	-	-	-	3.47		
TW-06	11/07/2014	9.86	6.83	-	-	-	-	3.03		
TW-06	11/12/2014	9.86	6.85	-	-	-	-	3.01		
TW-06	11/21/2014	9.86	7.28	-	-	-	-	2.58		
TW-06	11/26/2014	9.86	7.02	-	-	-	-	2.84		
TW-06	12/05/2014	9.86	5.85	-	-	-	-	4.01		
TW-06	12/11/2014	9.86	5.75	-	-	-	-	4.11		
TW-06	12/16/2014	9.86	6.18	-	-	-	-	3.68		
TW-06	12/23/2014	9.86	6.36	-	-	-	-	3.50		
TW-06	12/30/2014	9.86	5.85	-	-	-	-	4.01		
TW-06	01/09/2015	9.86	6.52	-	-	-	-	3.34		
TW-06	01/16/2015	9.86	5.77	-	-	-	-	4.09		
TW-06	01/19/2015	9.86	5.46	-	-	-	-	4.40		
TW-06	01/26/2015	9.86	4.69	-	-	-	-	5.17		
TW-06	02/03/2015	9.86	6.39	-	-	-	12.58	3.47		
TW-06	02/09/2015	9.86	6.62	-	-	-	-	3.24		
TW-06	02/18/2015	9.86	6.89	-	-	-	-	2.97		
TW-06	02/24/2015	9.86	6.90	-	-	-	-	2.96	14:54	
TW-06	03/04/2015	9.86	6.43	-	-	-	-	3.43	13:00	
TW-06	03/11/2015	9.86	4.47	-	-	-	-	5.39	12:06	
TW-06	03/18/2015	9.86	5.33	-	-	-	-	4.53	10:29	
TW-06	03/26/2015	9.86	6.13	-	-	-	12.60	3.73	12:27	
TW-07	12/18/2013	14.00	7.56	-	-	-	-	6.44		
TW-07	01/08/2014	14.00	7.91	-	-	-	-	6.09		
TW-07	03/07/2014	14.00	6.91	-	-	-	-	7.09		
TW-07	03/13/2014	14.00	7.40	-	-	-	-	6.60		
TW-07	03/20/2014	14.00	6.78	-	-	-	-	7.22		
TW-07	03/27/2014	14.00	7.56	-	-	-	-	6.44		
TW-07	04/03/2014	14.00	5.67	-	-	-	-	8.33		
TW-07	04/08/2014	14.00	6.77	-	-	-	-	7.23		
TW-07	04/17/2014	14.00	5.51	-	-	-	-	8.49		
TW-07	04/22/2014	14.00	6.75	-	-	-	-	7.25		
TW-07	04/29/2014	14.00	6.60	-	-	-	-	7.40		
TW-07	05/05/2014	14.00	5.41	-	-	-	-	8.59		
TW-07	05/12/2014	14.00	6.89	-	-	-	-	7.11		
TW-07	05/19/2014	14.00	6.16	-	-	-	-	7.84		
TW-07	05/27/2014	14.00	6.70	-	-	-	-	7.30		
TW-07	06/02/2014	14.00	6.94	-	-	-	-	7.06		
TW-07	06/09/2014	14.00	7.81	-	-	-	-	6.19		
TW-07	06/16/2014	14.00	6.47	-	-	-	-	7.53		
TW-07	06/23/2014	14.00	6.69	-	-	-	-	7.31		
TW-07	07/02/2014	14.00	7.00	-	-	-	-	7.00		
TW-07	07/07/2014	14.00	7.27	-	-	-	13.42	6.73		
TW-07	07/14/2014	14.00	6.70	-	-	-	-	7.30		
TW-07	07/25/2014	14.00	7.33	-	-	-	13.30	6.67		
TW-07	07/31/2014	14.00	7.22	-	-	-	13.30	6.78		
TW-07	08/08/2014	14.00	7.39	-	-	-	-	6.61		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-07	08/11/2014	14.00	7.17	-	-	-	13.20	6.83		
TW-07	08/15/2014	14.00	7.05	-	-	-	-	6.95		
TW-07	08/18/2014	14.00	7.14	-	-	-	-	6.86		
TW-07	08/25/2014	9.88	6.87	-	-	-	-	3.01		
TW-07	09/02/2014	9.88	7.43	-	-	-	-	2.45		
TW-07	09/15/2014	9.88	7.33	-	-	-	-	2.55		
TW-07	09/22/2014	9.88	7.28	-	-	-	-	2.60		
TW-07	10/01/2014	9.88	7.38	-	-	-	12.98	2.50		
TW-07	10/13/2014	9.88	7.30	-	-	-	-	2.58		
TW-07	10/20/2014	9.88	7.49	-	-	-	12.97	2.39		
TW-07	02/24/2015	9.88	7.45	-	-	-	-	2.43	14:52	
TW-12S	12/18/2013	38.01	DRY	-	-	-	-	-		
TW-12S	01/08/2014	38.01	DRY	-	-	-	-	-		
TW-12S	03/07/2014	38.01	DRY	-	-	-	-	-		
TW-12S	03/13/2014	38.01	DRY	-	-	-	-	-		
TW-12S	03/20/2014	38.01	DRY	-	-	-	-	-		
TW-12S	03/27/2014	38.01	DRY	-	-	-	-	-		
TW-12S	04/03/2014	38.01	DRY	-	-	-	-	-		
TW-12S	04/08/2014	38.01	DRY	-	-	-	-	-		
TW-12S	04/17/2014	38.01	DRY	-	-	-	-	-		
TW-12S	04/22/2014	38.01	DRY	-	-	-	-	-		
TW-12S	04/29/2014	38.01	DRY	-	-	-	-	-		
TW-12S	05/05/2014	38.01	DRY	-	-	-	-	-		
TW-12S	05/12/2014	38.01	DRY	-	-	-	-	-		
TW-12S	05/19/2014	38.01	DRY	-	-	-	-	-		
TW-12S	06/02/2014	38.01	DRY	-	-	-	-	-		
TW-12S	06/09/2014	38.01	DRY	-	-	-	-	-		
TW-12S	06/16/2014	38.01	26.37	-	-	-	-	11.64		
TW-12S	06/23/2014	38.01	26.37	-	-	-	-	11.64		
TW-12S	07/02/2014	38.01	26.40	-	-	-	-	11.61		
TW-12S	07/07/2014	38.01	26.40	-	-	-	26.60	11.61		
TW-12S	07/14/2014	38.01	26.48	-	-	-	-	11.53		
TW-12S	07/24/2014	38.01	26.48	-	-	-	-	11.53		
TW-12S	07/31/2014	38.01	26.48	-	-	-	26.56	11.53		
TW-12S	08/08/2014	38.01	26.49	-	-	-	26.60	11.52		
TW-12S	08/11/2014	38.01	26.47	-	-	-	-	11.54		
TW-12S	08/15/2014	38.01	26.47	-	-	-	26.58	11.54		
TW-12S	08/18/2014	38.01	26.47	-	-	-	-	11.54		
TW-12S	08/25/2014	NR	26.47	-	-	-	-	-		
TW-12S	09/02/2014	NR	24.84	-	-	-	24.97	-		
TW-12S	09/15/2014	NR	24.82	-	-	-	-	-		
TW-12S	09/22/2014	NR	24.83	-	-	-	-	-		
TW-12S	10/01/2014	NR	24.81	-	-	-	24.91	-		
TW-12S	10/10/2014	NR	24.82	-	-	-	-	-		
TW-12S	10/20/2014	NR	24.82	-	-	-	24.92	-		
TW-12S	02/24/2015	31.33	24.81	-	-	-	-	6.52	15:47	
TW-14	01/17/2014	15.55	2.48	-	-	-	-	13.07		
TW-14	03/07/2014	15.55	2.29	-	-	-	-	13.26		
TW-14	03/13/2014	15.55	2.55	-	-	-	-	13.00		
TW-14	03/20/2014	15.55	2.25	-	-	-	-	13.30		
TW-14	03/27/2014	15.55	2.42	-	-	-	-	13.13		
TW-14	04/03/2014	15.55	2.31	-	-	-	-	13.24		
TW-14	04/08/2014	15.55	2.27	-	-	-	-	13.28		
TW-14	04/17/2014	15.55	2.26	-	-	-	-	13.29		
TW-14	04/22/2014	15.55	2.48	-	-	-	-	13.07		
TW-14	04/29/2014	15.55	2.66	-	-	-	-	12.89		

Table 1

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-14	05/05/2014	15.55	2.56	-	-	-	-	12.99		
TW-14	05/12/2014	15.55	2.58	-	-	-	-	12.97		
TW-14	05/19/2014	15.55	2.38	-	-	-	-	13.17		
TW-14	06/02/2014	15.55	2.52	-	-	-	-	13.03		
TW-14	06/09/2014	15.55	2.50	-	-	-	-	13.05		
TW-14	06/16/2014	15.55	2.31	-	-	-	-	13.24		
TW-14	06/23/2014	15.55	2.44	-	-	-	-	13.11		
TW-14	07/02/2014	15.55	4.63	-	-	-	-	10.92		
TW-14	07/07/2014	15.55	4.65	-	-	-	7.27	10.90		
TW-14	07/14/2014	15.55	4.40	-	-	-	-	11.15		
TW-14	07/24/2014	15.55	4.46	-	-	-	-	11.09		
TW-14	07/31/2014	15.55	4.63	-	-	-	7.39	10.92		
TW-14	08/08/2014	15.55	4.43	-	-	-	7.39	11.12		
TW-14	08/11/2014	15.55	4.57	-	-	-	-	10.98		
TW-14	08/15/2014	15.55	4.36	-	-	-	7.39	11.19		
TW-14	08/18/2014	15.55	4.49	-	-	-	-	11.06		
TW-14	08/25/2014	11.61	3.01	-	-	-	-	8.60		
TW-14	09/02/2014	11.61	3.03	-	-	-	-	8.58		
TW-14	09/15/2014	11.61	3.19	-	-	-	-	8.42		
TW-14	09/22/2014	11.61	3.38	-	-	-	-	8.23		
TW-14	10/01/2014	11.61	3.50	-	-	-	5.90	8.11		
TW-14	10/10/2014	11.61	3.67	-	-	-	-	7.94		
TW-14	10/20/2014	11.61	3.02	-	-	-	5.90	8.59		
TW-14	02/24/2015	11.61	2.67	-	-	-	-	8.94	15:29	
TW-14	02/26/2015	11.61	2.68	-	-	-	5.90	8.93	12:00	

Note: Specific gravity was tested from MW-05 and MW-25, and the average specific gravity was used.

- = Not available
ft = Feet
gal = gallons
DRY = No / Insufficient water
LNAPL = Light Non-Aqueous Phase Liquid
NA = Not applicable
NR = Not recorded
TRACE = LNAPL thickness is less than 0.01 feet

Table 2

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-01S	8/15/2014	-	-	-	-	-	-	-	-	-	-	2,670	-
MW-01S	10/22/2014	-	-	-	-	-	-	-	-	-	-	23,000	-
MW-08S	8/15/2014	-	-	-	-	-	-	-	-	-	-	7,540	-
MW-08S	10/22/2014	-	-	-	-	-	-	-	-	-	-	52,000	-
MW-08S	2/26/2015	-	-	-	-	-	-	-	-	-	-	22,000	-
MW-10S	8/15/2014	-	-	-	-	-	-	-	-	-	-	36,000	-
MW-10S	10/22/2014	-	-	-	-	-	-	-	-	-	-	100,000	-
MW-11	8/16/2014	-	-	-	-	-	-	-	-	-	-	423	-
MW-11	10/22/2014	-	-	-	-	-	-	-	-	-	-	840	-
MW-11	2/26/2015	-	-	-	-	-	-	-	-	-	-	920	-
MW-14	8/15/2014	-	-	-	-	-	-	-	-	-	-	305	-
MW-14	10/22/2014	-	-	-	-	-	-	-	-	-	-	2,100	-
MW-14	2/25/2015	-	-	-	-	-	-	-	-	-	-	6,000	-
MW-15S	8/15/2014	-	-	-	-	-	-	-	-	-	-	909	-
MW-15S	10/22/2014	-	-	-	-	-	-	-	-	-	-	2,800	-
MW-15S	2/26/2015	-	-	-	-	-	-	-	-	-	-	2,800	-
MW-16S	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,720	-
MW-16	8/15/2014	-	-	-	-	-	-	-	-	-	-	<300	-
MW-16	10/22/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	<45	1,700
MW-16	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45	<1,400
MW-25S	8/15/2014	-	-	-	-	-	-	-	-	-	-	49,000	-
MW-25S	12/5/2014	-	-	-	-	-	-	-	-	-	-	840,000	-
MW-25S	1/9/2015	-	-	-	-	-	-	-	-	-	-	2,200,000	-
MW-25	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,280	-
MW-25	12/5/2014	-	-	-	-	-	-	-	-	-	-	50,000	-
MW-25	1/9/2015	-	-	-	-	-	-	-	-	-	-	56,000	-
MW-27	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,490	-
MW-27	10/23/2014	0.5	<0.5	2	2	<0.5	2	<0.5	<0.5	6	100	1,900	<1,400
MW-27	2/25/2015	<0.5	<0.5	1	0.5 J	<0.5	<2	<0.5	<0.5	8.3	120	1,700	16,800
MW-30S	8/15/2014	-	-	-	-	-	-	-	-	-	-	7,040	-
MW-30S	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	-	25	2,900	-
MW-30S	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3.9	22 J	3,500	3,600 J
MW-31	8/16/2014	-	-	-	-	-	-	-	-	-	-	27,200	-
MW-31	10/23/2014	<0.5	<0.5	0.6	0.6	<0.5	<2	<0.5	<0.5	4	140	7,200	<1,400
MW-31	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.7	97	1,800	1,800 J
MW-33	8/15/2014	-	-	-	-	-	-	-	-	-	-	440	-
MW-33	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	<45	<1,400
MW-33	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45	1,600 J
MW-51S	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,590	-
MW-51S	10/22/2014	-	-	-	-	-	-	-	-	-	-	8,400	-
MW-51S	2/26/2015	-	-	-	-	-	-	-	-	-	-	7,100	-
MW-51	8/11/2014	-	-	-	-	-	-	-	-	-	-	1,180	-
MW-51	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,650	-
MW-51	8/16/2014	-	-	-	-	-	-	-	-	-	-	281,000	-
MW-52	8/15/2014	-	-	-	-	-	-	-	-	-	-	<600	-
MW-52	10/22/2014	-	-	-	-	-	-	-	-	-	-	120	-
MW-70	8/15/2014	-	-	-	-	-	-	-	-	-	-	<153	-
MW-70	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45	-
MW-70	2/26/2015	-	-	-	-	-	-	-	-	-	-	3,200	-

Table 2

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-72S	8/15/2014	-	-	-	-	-	-	-	-	-	-	5,980	-
MW-72S	10/22/2014	-	-	-	-	-	-	-	-	-	-	3,300	-
MW-72S	2/25/2015	-	-	-	-	-	-	-	-	-	-	3,400	-
MW-72	8/11/2014	-	-	-	-	-	-	-	-	-	-	<300	-
MW-72	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,100	-
MW-72	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,340	-
MW-72	10/22/2014	41	<0.5	1	66	0.6	2	<0.5	<0.5	61	480	2,000	1,800
MW-72	2/25/2015	8	<0.5	<0.5	3	<0.5	<2	<0.5	<0.5	<0.030	65	590	2,300 J
MW-100S	8/15/2014	-	-	-	-	-	-	-	-	-	-	<300	-
MW-100S	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45	-
MW-100S	2/26/2015	-	-	-	-	-	-	-	-	-	-	690	-
MW-100	8/15/2014	-	-	-	-	-	-	-	-	-	-	<152	-
MW-100	10/21/2014	-	-	-	-	-	-	-	-	-	-	60	-
MW-100	2/25/2015	-	-	-	-	-	-	-	-	-	-	300	-
MW-102	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
MW-102	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45	-
MW-103	8/15/2014	-	-	-	-	-	-	-	-	-	-	479	-
MW-103	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	26	54	-
MW-103	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.033	<20	<45	<1,400
MW-104	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,630	-
MW-104	10/21/2014	<0.5	<0.5	0.7	2	<0.5	<2	<0.5	<0.5	1	59	150	<1,400
MW-104	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45	<1,400
MW-105	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
MW-105	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.06	<20	<45	<1,400
MW-106	8/15/2014	-	-	-	-	-	-	-	-	-	-	89,200	-
MW-106	10/22/2014	<0.5	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	23	230	2,000	-
MW-106	2/25/2015	<0.5	<0.5	2	<0.5	<0.5	<2	<0.5	<0.5	4.1	130	9,500	5,300
MW-107	8/16/2014	-	-	-	-	-	-	-	-	-	-	8,540	-
MW-107	10/22/2014	<0.5	<0.5	2	2	<0.5	<2	<0.5	<0.5	0.9	49	840	-
MW-107	2/25/2015	1	<0.5	0.7 J	0.7 J	<0.5	<2	<0.5	<0.5	-	37 J	480	-
MW-109S	8/21/2014	-	-	-	-	-	-	-	-	-	-	7,500	-
MW-109S	10/20/2014	-	-	-	-	-	-	-	-	-	-	12,000	-
MW-109S	2/26/2015	-	-	-	-	-	-	-	-	-	-	1,800	-
MW-109	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600	-
MW-109	10/20/2014	-	-	-	-	-	-	-	-	-	-	200	-
MW-109	2/26/2015	-	-	-	-	-	-	-	-	-	-	100 J	-
MW-110S	8/25/2014	-	-	-	-	-	-	-	-	-	-	6,630	-
MW-110S	10/20/2014	-	-	-	-	-	-	-	-	-	-	8,500	-
MW-110S	2/26/2015	-	-	-	-	-	-	-	-	-	-	6,700	-
MW-110	8/25/2014	-	-	-	-	-	-	-	-	-	-	<153	-
MW-110	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
MW-110	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-111	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600	-
MW-111	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
MW-111	2/26/2015	-	-	-	-	-	-	-	-	-	-	260	-
MW-112S	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
MW-112S	10/20/2014	-	-	-	-	-	-	-	-	-	-	380	-
MW-112S	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-

Table 2

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-112	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
MW-112	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
MW-112	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-113	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600	-
MW-113	10/20/2014	-	-	-	-	-	-	-	-	-	-	61	-
MW-113	2/26/2015	-	-	-	-	-	-	-	-	-	-	90 J	-
MW-114	8/25/2014	-	-	-	-	-	-	-	-	-	-	<600	-
MW-114	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
MW-114	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-
RW-1	10/22/2014	-	-	-	-	-	-	-	-	-	-	30,000	-
RW-1	2/26/2015	-	-	-	-	-	-	-	-	-	-	6,200	-
TW-01	12/16/2013	14.3	ND	13.1	63.5	1.55	-	-	-	119	-	14,100	-
TW-01	7/7/2014	-	-	-	-	-	-	-	-	-	-	27,400	-
TW-02	12/16/2013	ND	ND	ND	ND	0.791	-	-	-	ND	-	584	-
TW-02	7/7/2014	-	-	-	-	-	-	-	-	-	-	<1,160	-
TW-02	8/15/2014	-	-	-	-	-	-	-	-	-	-	<600	-
TW-02	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	60	-
TW-02	3/4/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	<45	2,000 J
TW-03	12/16/2013	ND	ND	ND	ND	ND	-	-	-	ND	-	351	-
TW-03	7/7/2014	-	-	-	-	-	-	-	-	-	-	<1,160	-
TW-03	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
TW-03	10/23/2014	0.7	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	49	-
TW-03	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	180	3,100 J
TW-04	12/16/2013	2.2	ND	3.45	7.11	ND	-	-	-	27.7	-	2,000	-
TW-04	7/7/2014	-	-	-	-	-	-	-	-	-	-	1,270	-
TW-04	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,610	-
TW-04	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	<20	160	-
TW-04	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1	27 J	940	3,800 J
TW-05	12/16/2013	7.68	ND	62.8	40.3	ND	-	-	-	240	-	136,000	-
TW-05	7/7/2014	-	-	-	-	-	-	-	-	-	-	66,300	-
TW-05	8/15/2014	-	-	-	-	-	-	-	-	-	-	271,000	-
TW-05	10/23/2014	4	<0.5	14	<0.5	<0.5	<2	<0.5	<0.5	21	140	29,000	-
TW-05	3/4/2015	2	<0.50	1	<0.5	<0.5	<2	<0.5	<0.5	3	130	2,200	2,800 J
TW-06	12/16/2013	1.09	ND	20.3	7.86	ND	-	-	-	174	-	47,000	-
TW-06	7/7/2014	-	-	-	-	-	-	-	-	-	-	113,000	-
TW-06	8/15/2014	-	-	-	-	-	-	-	-	-	-	147,000	-
TW-06	10/23/2014	0.8	<0.5	11	1	<0.5	<2	<0.5	<0.5	5	230	16,000	-
TW-06	3/4/2015	2	<0.5	6	<0.5	<0.5	<2	<0.5	<0.5	2.2	170	2,200	1,900 J
TW-07	12/16/2013	2.38	ND	0.969	ND	ND	-	-	-	34	-	3,290	-
TW-07	7/7/2014	-	-	-	-	-	-	-	-	-	-	41,500	-
TW-07	8/15/2014	-	-	-	-	-	-	-	-	-	-	19,600	-
TW-07	10/23/2014	2	<0.5	0.6	<0.5	<0.5	<2	<0.5	<0.5	6	29	4,700	-
TW-07	3/4/2015	9	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	46 J	670	3,300 J
TW-08S	7/7/2014	-	-	-	-	-	-	-	-	-	-	29,500	-
TW-09S	7/7/2014	-	-	-	-	-	-	-	-	-	-	2,330,000	-
TW-10	12/18/2013	2.51	ND	19.7	4.99	ND	-	-	-	131	-	3,040	-
TW-10	7/7/2014	-	-	-	-	-	-	-	-	-	-	23,400	-
TW-11	12/18/2013	1.55	0.664	8.3	9.67	0.578	-	-	-	263	-	170,000	-
TW-11	7/7/2014	-	-	-	-	-	-	-	-	-	-	117,000	-

Table 2

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
TW-13	12/18/2013	6.06	ND	44.5	137	ND	-	-	-	239	-	3,580	-
TW-13	7/7/2014	-	-	-	-	-	-	-	-	-	-	17,500	-
TW-14	1/17/2014	ND	ND	ND	ND	0.536	-	-	-	ND	-	2,290	-
TW-14	7/7/2014	-	-	-	-	-	-	-	-	-	-	16,000	-
TW-14	8/15/2014	-	-	-	-	-	-	-	-	-	-	3,900	-
TW-14	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	100	670	-
TW-14	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	73	120	1,800 J

Note: MW-01, MW-05, MW-10S, MW-25S, MW-25, and MW-51 were not sampled during the 2015 first quarter sampling event for TPH-DRO due to the detection of LNAPL in the well. MW-52 and MW-102 were not sampled for TPH-DRO because the wells were inaccessible. MW-16S, MW-108, and TW-12S were not analzed for TPH-DRO, VOCs, or oil and grease due to an insufficient volume of water or the well was inaccessible.

- = Not available
<# = Less than the method detection limit
µg/L = Micrograms per liter
J = Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.
ND = Non-detect
TPH-DRO = Total Petroleum Hydrocarbons, Diesel Range Organics C10-C28
TPH-GRO = Total Petroleum Hydrocarbons, Gasoline Range Organics C6-C10

Table 3

HISTORICAL GROUNDWATER MNA ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO4 (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as caco3)	Ferrous Iron (mg/L)	Manganese (mg/L)
MW-01S	10/22/2014	4,200	130	0.044 J	0.037 J	306	31.4	-
MW-10S	10/22/2014	1,100	33.1	<0.040	0.037 J	461	62.8	-
MW-11	10/22/2014	120	71.9	<0.040	<0.015	55	0.06	-
MW-11	2/26/2015	200	79.8	<0.040	<0.015	39	0.37	1.64
MW-14	2/25/2015	230	51.4	0.7	<0.015	63	2.5	8.66
MW-31	10/23/2014	4,300	57.2	<0.040	<0.015	416	2.6	-
MW-31	2/25/2015	5,000	69.7	<0.040	<0.015	487	9.3	9.84
MW-33	10/23/2014	43	253	1.9	<0.015	119	0.07	-
MW-33	2/25/2015	9.80	235	2.5	<0.015	55.6	0.030 J	1.23
MW-51S	10/22/2014	7100	36.3	0.047 J	<0.015	564	28.7	-
MW-51S	2/26/2015	8900	6.2	<0.040	0.12	518	82.4	4.49
MW-70	2/26/2015	<3.0	361.00	0.71	<0.015	35.1	0.048 J	2.62
MW-72S	10/22/2014	4400	80.30	0.093 J	0.019 J	328	9.1	-
MW-72S	2/25/2015	3600	64.50	<0.040	<0.015	615	16.7	8.49
MW-72	10/22/2014	2200	389.00	<0.040	<0.015	66	0.33	-
MW-72	2/25/2015	490	396.00	<0.040	<0.015	73	4.8	18.8
MW-106	2/25/2015	260	1,600.00	<0.040	0.021 J	<7.0	122	2.23
MW-109S	10/20/2014	1000	18.80	<0.040	0.037 J	368	8	-
MW-109S	2/26/2015	140	55.40	<0.040	<0.015	196	3.1	2.64
MW-112S	10/20/2014	4.1 J	99	0.71	<0.015	25	0.13	-
MW-112S	2/26/2015	<3.0	86.7	2.3	<0.015	13.30	0.029 J	0.649
MW-114	10/20/2014	16	40.5	1.5	0.16	66.70	0.07	-
MW-114	2/26/2015	<3.0	42.7	1.7	<0.015	68.00	0.016 J	0.102
TW-03	3/4/2015	2500	269	<0.040	0.083	49.7	29.7	5.24
TW-05	3/4/2015	2800	367	<0.040	0.13	89.4	72.6	5.28
TW-07	3/4/2015	1300	258	<0.040	0.034 J	1.6 J	14.1	4.30

Note: MW-01S and MW-10S were not sampled for MNA parameters during the 2015 first quarter sampling event due to a detection of LNAPL in the wells.

MNA = Monitored Natural Attenuation

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.

<# = Less than the method detection limit of #

µg/L = Micrograms per liter

mg/L = Milligrams per liter

Table 4

GROUNDWATER SVOCS AND PAHS ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Analyte Date	Units	MW-16 2/25/2015	MW-27 2/25/2015	MW-30S 2/25/2015	MW-31 2/25/2015	MW-33 2/25/2015	MW-72 2/25/2015	MW-103 2/26/2015	MW-104 2/26/2015	MW-106 2/25/2015	TW-02 3/4/2015	TW-03 3/4/2015	TW-04 3/4/2015	TW-05 3/4/2015	TW-06 3/4/2015	TW-07 3/4/2015	TW-14 2/26/2015
1-Methylnaphthalene	µg/l	0.047 J	19	9.4	12	0.052	0.053	0.031 J	0.034 J	9.5	0.045 J	0.14	2.2	5.3	28	0.43	0.011 J
2-Methylnaphthalene	µg/l	0.048 J	9.3	7.9	2.8	0.04 J	0.078	0.025 J	0.032 J	7.3	0.043 J	0.049	0.15	0.65	<0.010	0.38	<0.010
Acenaphthene	µg/l	<0.010	1.8	1.3	2.6	0.012 J	<0.010	0.014 J	0.13	1.9	0.17	0.18	1.3	0.63	3.1	0.056	0.012 J
Acenaphthylene	µg/l	<0.010	<0.010	0.4 J	<0.010	<0.010	<0.010	<0.011	<0.010	0.42 J	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.013 J
Anthracene	µg/l	<0.010	0.76	1.5	1	0.018 J	<0.010	<0.011	<0.010	2.1	0.038 J	0.028	0.37	0.23	0.32	0.015 J	<0.010
Benzo(b)fluoranthene	µg/l	0.014 J	0.35	1.7	0.56	<0.010	0.02 J	0.041 J	<0.010	0.67	0.014 J	0.021	0.017 J	0.024 J	<0.010	<0.010	<0.010
Benzo[a]anthracene	µg/l	0.011 J	0.44	0.99	0.71	<0.010	0.016J	0.023 J	<0.010	0.9	0.018 J	0.019	0.018 J	0.034 J	0.011 J	<0.010	<0.010
Benzo[a]pyrene	µg/l	<0.010	0.27	1.7	0.45	<0.010	0.013 J	0.02 J	<0.010	0.5 J	0.011 J	0.016	<0.010	0.017 J	<0.010	<0.010	<0.010
Benzo[g,h,i]perylene	µg/l	<0.010	0.11	1.1	0.18	<0.010	0.011 J	0.021 J	<0.010	0.39 J	0.011 J	0.013	<0.010	0.014 J	<0.010	<0.010	<0.010
Benzo[k]fluoranthene	µg/l	<0.010	0.12	0.53	0.2	<0.010	<0.010	0.015 J	<0.010	0.27 J	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	µg/l	0.075	0.37	0.93	0.59	<0.010	0.018 J	0.032 J	<0.010	1.1	0.015 J	0.016	0.021 J	0.05 J	<0.010	0.014 J	<0.010
Dibenz[a,h]anthracene	µg/l	<0.010	0.034 J	0.28 J	0.053	<0.010	<0.010	<0.011	<0.010	<0.11	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoranthene	µg/l	0.037 J	1.2	1.4	2.6	0.022 J	0.023 J	0.055 J	0.012 J	3.2	0.15	0.037	0.66	0.11	0.094	0.028 J	0.022 J
Fluorene	µg/l	0.023 J	2.8	2.7	5.3	0.035 J	0.016 J	0.019 J	0.024 J	3.1	0.065	0.36	0.53	0.65	4.5	0.053	0.014 J
Indeno[1,2,3-cd]pyrene	µg/l	<0.010	0.11	1.1	0.17	<0.010	0.011 J	0.021 J	<0.010	0.34 J	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	µg/l	0.044 J	2.8	3.2	2.5	0.042 J	<0.030	0.039 J	<0.030	3.8	0.14	0.14	1.2	0.52	2.8	0.060 J	<0.030
Pyrene	µg/l	0.026 J	1.1	4.2	2.7	0.036 J	0.041 J	0.052 J	0.018 J	5.1	0.13	0.047 J	0.24	0.29	0.18	0.077	0.022 J

Note: MW-16S, MW-105, MW-107, MW-108, and TW-12S were not analyzed for SVOCs and PAHs during the 2015 first quarter sampling event due to an insufficient volume of water or was innaccesible.

<# = Less than the method detection limit
µg/L = Micrograms per liter
J = Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.
PAHs = Polycyclic Aromatic Hydrocarbons
SVOCs = Semi-Volatile Organic Compounds

Table 5

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Photo Ionization Detector (ppm)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-01S	10/10/2014	6.3	-	10.2	-	0.53	6.68	17.69	-95	880	-
MW-01S	10/20/2014	6.3	10.1	1.0	10.3	-	-	-	-	-	-
MW-01S	10/22/2014	-	-	-	-	0.8	6.63	17.81	-91.6	369	-
MW-01S	2/24/2015	3.0	12.2	8.4	26.6	0.1	6.53	16.31	-172.6	723.6	-
MW-05	10/13/2014	13.0	-	15.9	-	-	-	-	-	-	-
MW-05	10/15/2014	9.6	-	137.0	-	-	-	-	-	-	-
MW-05	2/24/2015	1.0	15.9	11.4	25.3	-	-	-	-	-	-
MW-08S	10/13/2014	14.5	-	21.0	-	0.89	6.68	18.18	-123.6	1,488	-
MW-08S	10/13/2014	-	-	-	-	0.81	6.7	18.26	-108	1,386	-
MW-08S	10/14/2014	-	-	-	-	0.16	6.77	18.18	-129	1,424	-
MW-08S	10/15/2014	20.4	-	8.7	-	0.83	6.68	18.29	-105.8	1,325	-
MW-08S	10/15/2014	-	-	-	-	0.28	6.66	18.23	-113.1	1,408	-
MW-08S	10/20/2014	10.9	6.2	15.9	1.9	-	-	-	-	-	-
MW-08S	10/22/2014	-	-	-	-	1.24	6.59	18.27	-98.8	1,276	-
MW-08S	2/24/2015	0.4	13.8	49.3	15.4	-	-	-	-	-	-
MW-08S	2/25/2015	-	-	-	-	0.09	6.69	16.81	-137.5	1,236.3	-
MW-10S	10/13/2014	17.0	-	23.1	-	0.75	6.59	18.17	-117.6	1,202	-
MW-10S	10/13/2014	-	-	-	-	0.6	6.6	18.2	-113	1,185	-
MW-10S	10/15/2014	20.4	-	8.3	-	0.41	6.54	18.23	-118.5	1,185	-
MW-10S	10/15/2014	-	-	-	-	0.6	6.56	18.3	-104.5	1,189	-
MW-10S	10/16/2014	20.9	-	18.5	-	-	-	-	-	-	-
MW-10S	10/20/2014	15.2	3.7	25.2	0.2	-	-	-	-	-	-
MW-10S	10/22/2014	-	-	-	-	1.3	6.48	18.44	-72.7	1,002	-
MW-10S	2/24/2015	1.0	14.7	54.5	3.4	-	-	-	-	-	-
MW-11	10/13/2014	19.0	-	5.4	-	2.3	6.27	18.16	56.2	324	-
MW-11	10/13/2014	-	-	-	-	3.23	6.14	18.29	48.6	349	-
MW-11	10/15/2014	15.3	-	23.6	-	-	-	-	-	-	-
MW-11	10/20/2014	11.6	6.3	22.0	1.9	-	-	-	-	-	-
MW-11	10/22/2014	-	-	-	-	0.38	5.73	18.38	160.2	323	-
MW-11	2/24/2015	19.3	3.7	3.2	0.1	-	-	-	-	-	-
MW-11	2/25/2015	-	-	-	-	0.12	5.60	17.83	62.6	370	-
MW-14	10/13/2014	17.2	-	15.9	-	2.79	6.00	18.13	68	368	-
MW-14	10/20/2014	14.4	3.7	82.4	1.3	-	-	-	-	-	-
MW-14	10/22/2014	-	-	-	-	0.26	5.79	18.43	216.2	310	-
MW-14	2/24/2015	14.4	0.9	188.0	0.4	-	-	-	-	-	-
MW-14	2/25/2015	-	-	-	-	0.84	6.25	17.90	-98.6	460.3	-
MW-15S	10/13/2014	12.4	-	34.0	-	0.84	6.32	18.03	-17.1	647	-
MW-15S	10/20/2014	2.2	11.6	18.2	0.0	-	-	-	-	-	-
MW-15S	10/22/2014	-	-	-	-	0.88	6.48	17.61	-37.4	989	-
MW-16S	10/10/2014	7.2	-	9.0	-	-	-	-	-	-	-
MW-16S	2/24/2015	5.5	12.4	0.0	0.1	1.54	6.11	14.50	60.2	1.6	-
MW-16	10/10/2014	6.9	-	11.1	-	0.46	5.88	17.5	162.4	707	-
MW-16	10/22/2014	-	-	-	-	0.87	5.79	17.75	211	681	30,200
MW-16	2/24/2015	20.9	0.3	0.0	0.1	2.62	5.92	17.57	101.8	1,009.6	
MW-25S	10/13/2014	-	-	-	-	0.96	6.46	18.51	-84	914	-
MW-25S	10/13/2014	20.3	-	13.0	-	-	-	-	-	-	-
MW-25S	10/15/2014	19.3	-	192.0	-	-	-	-	-	-	-
MW-25S	10/16/2014	20.9	-	34.4	-	-	-	-	-	-	-
MW-25S	10/20/2014	16.6	3.4	30.2	0.3	-	-	-	-	-	-
MW-25S	2/24/2015	3.6	12.7	127.0	2.3	-	-	-	-	-	-

Table 5

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Photo Ionization Detector (ppm)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-25	10/13/2014	19.2	-	139.0	-	-	-	-	-	-	-
MW-25	10/14/2014	17.5	-	79.0	-	-	-	-	-	-	-
MW-25	10/15/2014	20.9	-	8.4	-	-	-	-	-	-	-
MW-25	10/16/2014	14.3	-	28.2	-	-	-	-	-	-	-
MW-25	2/24/2015	15.4	5.5	121.0	1.3	-	-	-	-	-	-
MW-27	10/10/2014	17.7	-	41.5	-	0.28	6.55	17.74	-79.8	1,075	-
MW-27	10/15/2014	20.9	-	7.3	-	0.02	6.51	17.97	-36.3	1,057	-
MW-27	10/15/2014	16.1	-	21.9	-	1.67	6.37	18.18	44.5	831	-
MW-27	10/16/2014	16.1	-	21.9	-	-	-	-	-	-	-
MW-27	10/20/2014	14.3	6.5	25.3	8.6	-	-	-	-	-	-
MW-27	10/23/2014	-	-	-	-	0.54	6.46	17.97	743	153	1,540
MW-27	2/24/2015	2.3	12.2	21.1	13.6	-	-	-	-	-	-
MW-27	2/25/2015	-	-	-	-	0.06	6.61	15.83	-85.6	1,228.0	-
MW-30S	10/10/2014	7.6	-	6.8	-	0.31	6.64	18.5	-59.9	1,155	-
MW-30S	10/15/2014	17.2	-	15.5	-	-0.01	6.69	19.02	-114.8	1,084	-
MW-30S	10/15/2014	10.5	-	74.4	-	0.69	6.61	19.43	-60	1,030	-
MW-30S	10/20/2014	11.5	4.0	2.8	0.0	-	-	-	-	-	-
MW-30S	2/24/2015	12.8	0.3	16.5	0.2	0.40	6.74	14.15	-51.7	742.2	-
MW-31	10/10/2014	6.2	-	120.5	-	0.39	6.97	18.62	-119.7	899	-
MW-31	10/15/2014	15.0	-	62.5	-	0.59	6.83	19.04	-119.9	848	-
MW-31	10/15/2014	20.9	-	0.0	-	0.9	6.61	19.57	-47.6	541	-
MW-31	10/20/2014	17.4	1.1	11.8	0.3	-	-	-	-	-	-
MW-31	10/23/2014	-	-	-	-	0.41	6.98	18.69	-15.9	791	728
MW-31	2/24/2015	2.1	0.2	179.0	0.3	0.02	7.08	14.47	-164.3	927	
MW-33	10/10/2014	9.7	-	1.4	-	0.68	5.81	17.97	157.4	654	-
MW-33	10/15/2014	19.0	-	0.5	-	0.09	5.84	18.3	64.9	633	-
MW-33	10/15/2014	20.9	-	0.0	-	0.42	5.86	18.3	92.6	658	-
MW-33	10/20/2014	12.0	5.4	1.0	0.0	-	-	-	-	-	-
MW-33	10/23/2014	-	-	-	-	2.37	6.05	18.24	186.7	698	1,120
MW-33	2/24/2015	20.6	0.1	0.0	0.1	2.35	5.51	15.51	88.7	647.9	
MW-51S	10/13/2014	5.7	-	23.0	-	0.64	6.72	18.32	-120	1,457	-
MW-51S	10/13/2014	-	-	1.0	-	0.75	6.65	18.35	-78.8	1,000	-
MW-51S	10/14/2014	-	-	-	-	0.33	6.64	18.46	-71.8	1,047	-
MW-51S	10/15/2014	20.0	-	1.2	-	1.62	6.6	18.43	1.5	566	-
MW-51S	10/15/2014	-	-	-	-	0.74	6.62	18.45	-84.6	1,122	-
MW-51S	10/20/2014	10.6	6.3	22.3	1.5	-	-	-	-	-	-
MW-51S	10/22/2014	-	-	-	-	0.81	6.67	18.47	-93.7	1,153	-
MW-51S	2/24/2015	0.9	13.5	9.9	27.2	-	-	-	-	-	-
MW-51S	2/25/2015	-	-	-	-	0.08	6.70	16.75	-110.9	1,968.2	-
MW-51	10/13/2014	18.0	-	135.0	-	-	-	-	-	-	-
MW-51	10/15/2014	14.0	-	100.8	-	0.33	6.6	18.57	-86.9	1,014	-
MW-51	10/20/2014	11.6	4.9	31.5	3.2	-	-	-	-	-	-
MW-51	2/24/2015	4.7	11.4	35.1	6.0	-	-	-	-	-	-
MW-52	10/10/2014	16.3	-	5.4	-	1.15	5.87	17.51	45.9	465	-
MW-70	10/10/2014	16.2	-	0.3	-	2.12	5.76	17.3	98.7	843	-
MW-70	2/24/2015	17.8	1.3	0.0	0.2	1.02	5.53	16.71	-36.2	9.0	-
MW-72S	10/10/2014	5.8	-	21.7	-	0.55	6.42	18.41	-98.2	1,331	-
MW-72S	10/15/2014	14.0	-	14.5	-	0.04	6.4	18.56	-85.4	1,340	-
MW-72S	10/15/2014	-	-	-	-	1.7	6.47	18.7	-53	1,246	-
MW-72S	10/16/2014	7.8	-	95.0	-	-	-	-	-	-	-
MW-72S	10/20/2014	9.3	7.4	38.8	4.2	-	-	-	-	-	-

Table 5

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Photo Ionization Detector (ppm)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-72S	10/22/2014	-	-	-	-	1.92	6.39	17.99	-21.2	904	-
MW-72S	2/24/2015	5.4	11.5	30.6	1.6	0.09	6.54	16.13	-101.9	1,324.9	-
MW-72	10/10/2014	6.6	-	12.2	-	0.48	5.47	17.86	32.6	743	-
MW-72	10/15/2014	16.8	-	14.8	-	0.14	5.41	18.04	110.3	733	-
MW-72	10/15/2014	-	-	-	-	2.99	5.75	18.09	108.9	739	-
MW-72	10/16/2014	5.2	-	6.9	-	-	-	-	-	-	-
MW-72	10/20/2014	2.0	16.8	10.5	13.0	-	-	-	-	-	-
MW-72	10/22/2014	-	-	-	-	1.77	5.86	17.73	146.2	533	29,800
MW-72	2/24/2015	14.2	6.9	13.3	0.1	0.58	5.48	17.43	82.8	876.5	
MW-100S	10/10/2014	6.8	-	6.5	-	0.4	5.62	18.36	11.8	915	-
MW-100S	2/24/2015	17.2	3.5	0.0	0.2	4.78	5.79	16.07	25.5	1.6	-
MW-100	10/10/2014	20.4	-	0.3	-	2.23	5.38	17.6	148.8	531	-
MW-100	2/24/2015	20.4	0.6	0.0	0.2	1.02	5.53	16.8	27.5	309	-
MW-102	10/10/2014	17.7	-	0.6	-	2.44	6.1	17.15	68.2	295	-
MW-103	10/10/2014	19.4	-	8.5	-	1.72	6.41	19.9	71.6	610	-
MW-103	10/23/2014	-	-	-	-	7.32	6.15	19.14	149.3	598	-
MW-103	2/24/2015	19.5	2.4	0	0.3	-	-	-	-	-	-
MW-103	2/25/2015	-	-	-	-	5.27	6.17	5.08	85.9	719.6	-
MW-104	10/10/2014	18.9	-	5.8	-	1.98	6.9	19.47	6.1	452	-
MW-104	10/21/2014	-	-	-	-	2.17	6.93	18.83	102.6	526	3,250
MW-104	2/24/2015	15.1	1.1	0	0.3	-	-	-	-	-	-
MW-104	2/25/2015	-	-	-	-	3.75	7.07	9.30	50.4	495.6	
MW-105	10/10/2014	19.0	-	11.5	-	3.96	6.9	19.03	56.8	427	-
MW-105	10/21/2014	-	-	-	-	4.47	6.89	19.2	155.1	393	2,520
MW-106	10/10/2014	17.1	-	9.2	-	1.2	4.66	18.99	122.5	2,231	-
MW-106	10/14/2014	18.3	-	4.3	-	-	-	-	-	-	-
MW-106	10/20/2014	15.5	3.8	0.2	0.0	-	-	-	-	-	-
MW-106	10/23/2014	-	-	-	-	1.29	5.2	18.35	97.7	1,529	-
MW-106	2/24/2015	7.1	5.4	0.0	0.1	1.03	4.63	9.81	62	2,155.8	-
MW-107	10/10/2014	11.8	-	10.5	-	0.62	3.51	18.9	348.4	2,063	-
MW-107	10/15/2014	13.7	-	7.3	-	1.51	3.63	19.54	393	1,047	-
MW-107	10/15/2014	-	-	-	-	2.52	3.76	19.36	428.9	1,117	-
MW-107	10/20/2014	7.3	9.4	0.3	0.0	-	-	-	-	-	-
MW-107	10/23/2014	-	-	-	-	3.4	2.9	19.05	480.1	1,462	-
MW-107	2/24/2015	19.3	1.5	0.0	0.1	7.33	3.01	11.73	338.5	15.4	-
MW-108	10/10/2014	11.6	-	9.5	-	-	-	-	-	-	-
MW-109S	10/10/2014	11.3	-	50.0	-	1.43	6.35	18.2	-83.5	827	-
MW-109S	10/20/2014	3.9	13.2	13.8	0.0	-	-	-	-	-	-
MW-109S	10/21/2014	-	-	-	-	0.35	6.03	18.29	59.2	769	-
MW-109S	2/24/2015	1.3	14.9	12.9	0.3	-	-	-	-	-	-
MW-109S	2/25/2015	-	-	-	-	1.35	6.19	13.93	36.7	606.5	-
MW-109	10/10/2014	19.1	-	11.8	-	1.65	6.03	17.98	35	247	-
MW-109	10/20/2014	20.8	0.6	0.2	0.0	-	-	-	-	-	-
MW-109	10/21/2014	-	-	-	-	0.86	5.81	18.04	133.5	261	-
MW-109	2/24/2015	18.5	3.2	6.2	0.3	-	-	-	-	-	-
MW-109	2/25/2015	-	-	-	-	0.71	5.74	15.75	137.9	247.9	-
MW-110S	10/10/2014	14.4	-	9.9	-	0.5	6.32	18.38	-87.8	651	-
MW-110S	2/24/2015	4.3	12.8	12.7	0.3	-	-	-	-	-	-
MW-110S	2/25/2015	-	-	-	-	1.65	6.39	13.79	-19.5	848.9	-

Table 5

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Photo Ionization Detector (ppm)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-110	10/10/2014	16.4	-	13.1	-	1.3	5.39	17.98	117.8	215	-
MW-110	2/24/2015	19.4	1.0	5.8	0.4	-	-	-	-	-	-
MW-110	2/25/2015	-	-	-	-	1.7	5.48	15.49	168.1	245	-
MW-111	10/10/2014	16.9	-	7.3	-	1.7	5.82	17.98	75.9	247	-
MW-111	2/24/2015	18.7	1.7	0.0	0.2	-	-	-	-	-	-
MW-111	2/25/2015	-	-	-	-	1.21	6.05	15.24	122.6	368.4	-
MW-112S	10/10/2014	14.7	-	25.0	-	1.95	5.46	18.26	148.5	369	-
MW-112S	10/20/2014	12.0	7.9	0.0	0.0	-	-	-	-	-	-
MW-112S	10/21/2014	-	-	-	-	2.5	5.38	18.27	172.9	333	-
MW-112S	2/24/2015	6.6	9.7	16.8	0.3	-	-	-	-	-	-
MW-112S	2/25/2015	-	-	-	-	3.92	5.41	13.06	207.5	346.7	-
MW-112	10/10/2014	16.3	-	14.8	-	2.14	5.56	17.93	157.3	162	-
MW-112	2/24/2015	19.2	1.3	12.3	0.3	-	-	-	-	-	-
MW-112	2/25/2015	-	-	-	-	4.34	5.54	15.13	203.8	170.5	-
MW-113	10/10/2014	19.2	-	6.3	-	6.17	6.35	17.97	83.2	352	-
MW-113	2/24/2015	19.9	1.6	0.0	0.2	-	-	-	-	-	-
MW-113	2/25/2015	-	-	-	-	5.96	6.73	14.72	73.5	428.1	-
MW-114	10/10/2014	6.3	-	9.0	-	1.5	5.83	17.65	78	310	-
MW-114	10/20/2014	16.0	2.1	0.1	0.1	-	-	-	-	-	-
MW-114	10/21/2014	-	-	-	-	1.23	6.04	17.81	154.1	262	-
MW-114	2/24/2015	20.6	0.3	0	0.3	-	-	-	-	-	-
MW-114	2/25/2015	-	-	-	-	8.72	6.1	12.05	113.7	326.2	-
RW-1	10/13/2014	19.0	-	130.0	-	1.34	6.92	18.45	136.4	495	-
RW-1	10/13/2014	18.9	-	79.0	-	3.41	6.41	18.31	158	473	-
RW-1	10/14/2014	18.9	-	55.0	-	0.53	6.49	18.46	129.6	475	-
RW-1	10/15/2014	19.3	-	80.7	-	1.99	6.29	18.43	60.4	292	-
RW-1	10/15/2014	-	-	-	-	1.06	6.31	18.49	96.9	314	-
RW-1	10/20/2014	16.4	3.2	29.2	2.4	-	-	-	-	-	-
RW-1	10/22/2014	-	-	-	-	2.14	6.50	18.07	85.5	311	-
RW-1	2/24/2015	3.2	4.2	178.0	0.2	-	-	-	-	-	-
RW-1	2/25/2015	-	-	-	-	0.03	6.76	17.88	-86.4	899.9	-
TW-02	10/13/2014	17.4	-	0.3	-	1.01	6.43	18.32	-	523	-
TW-02	10/23/2014	-	-	-	-	0.65	6.7	17.24	-63.8	1,189	-
TW-02	2/24/2015	19.9	0.3	0.0	0.3	-	-	-	-	-	-
TW-02	2/25/2015	-	-	-	-	1.56	6.24	8.82	96.2	990.6	-
TW-03	10/13/2014	19.5	-	0.3	-	1.86	5.73	19.23	-	503	-
TW-03	10/23/2014	-	-	-	-	0.71	6.12	18.54	38.1	489	-
TW-03	2/24/2015	3.1	10.4	0.0	0.3	-	-	-	-	-	-
TW-03	2/25/2015	-	-	-	-	0.75	6.21	8.92	64.8	609.4	-
TW-04	10/13/2014	19.2	-	2.0	-	1.67	5.73	19.08	-	1,344	-
TW-04	10/23/2014	-	-	-	-	0.7	5.76	18.95	35	1,232	-
TW-04	2/24/2015	15.7	4.4	1.2	0.3	-	-	-	-	-	-
TW-04	2/25/2015	-	-	-	-	2.36	5.86	6.96	65.1	1,862.2	-
TW-05	10/13/2014	17.0	-	129.3	-	1.26	5.23	18.64	61.2	1,204	-
TW-05	10/15/2014	20.5	-	8.7	-	-	-	-	-	-	-
TW-05	10/20/2014	20.6	0.1	16.0	0.0	-	-	-	-	-	-
TW-05	10/23/2014	-	-	-	-	0.85	5.73	19.04	49.2	1,121	-
TW-05	2/24/2015	11.1	8.6	16.0	0.7	-	-	-	-	-	-
TW-05	2/25/2015	-	-	-	-	0.85	6.19	7.42	37.1	991.6	-
TW-06	10/13/2014	14.4	-	39.8	-	1.31	6.42	18.99	-	983	-
TW-06	10/15/2014	11.0	-	78.9	-	1.33	6.54	21.65	-65	873	-

Table 5

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Photo Ionization Detector (ppm)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-06	10/15/2014	-	-	-	-	0.31	6.28	19.79	-46.8	986	-
TW-06	10/20/2014	5.4	12.0	0.8	0.0	-	-	-	-	-	-
TW-06	10/23/2014	-	-	-	-	0.84	6.51	18.95	-68.8	823	-
TW-06	2/24/2015	5.0	8.9	0.7	0.3	-	-	-	-	-	-
TW-06	2/25/2015	-	-	-	-	0.84	6.75	7.20	-32.9	882.2	-
TW-07	10/13/2014	16.4	-	33.5	-	1.4	4.96	19.08	-	580	-
TW-07	10/15/2014	15.4	-	15.6	-	0.4	4.94	20.81	97.9	569	-
TW-07	10/20/2014	14.6	5.0	0.0	0.0	-	-	-	-	-	-
TW-07	10/23/2014	-	-	-	-	0.41	4.99	19.04	139.5	415	-
TW-07	2/24/2015	14.4	7.2	0.0	0.3	-	-	-	-	-	-
TW-07	2/25/2015	-	-	-	-	1.53	5.07	7.15	244.8	640.1	-
TW-12S	10/10/2014	18.5	-	0.8	-	-	-	-	-	-	-
TW-12S	2/24/2015	15.0	2.8	0.0	0.3	-	-	-	-	-	-
TW-14	10/10/2014	19.5	-	2.3	-	-	-	-	-	-	-
TW-14	10/20/2014	20.0	0.7	0.0	0.0	-	-	-	-	-	-
TW-14	10/23/2014	-	-	-	-	1.99	7.48	19.13	-47.2	562	-
TW-14	2/24/2015	20.3	0.3	0.0	0.3	-	-	-	-	-	-
TW-14	2/25/2015	-	-	-	-	3.8	7.18	3.96	-6.1	465.3	-

- = Not available
% = Percent
µS/cm = Microsiemens per centimeter
deg C = Degrees Celsius
mg/L = Milligrams per liter
mV = Millivolts
ORP = Oxidation-Reduction Potential
ppm = Parts per million

Table 6

WELL NETWORK SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Location Details										Sample Frequency			Comments
Location ID	Location Type	Aquifer Zone Designation	Date Installed	Former Location ID	Former Soil Boring Location ID	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)	TPH DRO	BTEX, MTBE,TBA, EDC, EDB and Napth.	MNA Paramters	
MW-01S	MW	Shallow	7/29/2014	-	B-01	4	27	17	10	Qrt.		Qrt.	
RW-05	P&T	Deep	8/1/2014	MW-05/TW-01	B-05	4	35	25	10	Qrt.			Convert to P&T well
MW-08S	MW	Shallow	7/23/2014	TW-09S	B-08	4	25	15	10	Qrt.			
MW-10S	MW	Shallow	7/28/2014	-	B-10	4	27	17	10	Qrt.	Annual	Qrt.	
MW-11	MW	Deep	7/24/2014	-	B-11	4	35	25	10	Qrt.	Annual	Qrt.	
MW-14	MW	Deep	7/29/2014	TW-13	B-14	4	38.5	28.5	10	Qrt.		Qrt.	
MW-15S	MW	Shallow	7/31/2014	-	B-15	4	26	16	10	Qrt.			
MW-16S	MW	Shallow	8/13/2014	-	-	2	25	15	10	Qrt.			
MW-16	MW	Deep	8/14/2014	-	B-16	2	36	26	10	Qrt.			
MW-25S	MW	Shallow	8/5/2014	-	-	4	26	16	10	Qrt.			
RW-25	P&T	Deep	7/24/2014	MW-25	B-25	4	35	25	10	Qrt.			Convert to P&T well
MW-27	MW	Deep	7/21/2014	TW-10	B-27	4	35	25	10	Qrt.	Annual		
MW-30S	MW	Shallow	8/7/2014	-	B-30	4	26	16	10	Qrt.	Annual		
RW-31	P&T	Deep	8/5/2014	MW-31/TW-11	B-31	4	36	26	10	Qrt.	Annual	Qrt.	Convert to P&T well
MW-33	MW	Deep	8/5/2014	-	B-33	4	35	25	10	Qrt.		Qrt.	
MW-51S	MW	Shallow	8/6/2014	-	-	4	25.5	15.5	10	Qrt.		Qrt.	
RW-51	P&T	Deep	7/22/2014	MW-51	B-51	4	37	27	10	Qrt.			Convert to P&T well
MW-52	MW	Deep	8/14/2014	-	B-52	2	36	26	10	Qrt.			
MW-70	MW	Deep	8/13/2014	-	B-70	2	36	26	10	Qrt.		Qrt.	
MW-72S	MW	Shallow	8/7/2014	TW-08S	B-72	4	25	15	10	Qrt.	Annual	Qrt.	
RW-72	P&T	Deep	7/30/2014	MW-72	B-71	4	35	25	10	Qrt.	Annual	Qrt.	Convert to P&T well
MW-100S	MW	Shallow	8/12/2014	-	-	2	24.5	14.5	10	Qrt.			
MW-100	MW	Deep	8/12/2014	-	-	2	37.5	27.5	10	Qrt.			
MW-102	MW	Deep	8/11/2014	-	-	2	37	27	10	Qrt.			
MW-103	MW	Shallow	7/23/2014	-	-	2	15	5	10	Qrt.			
MW-104	MW	Shallow	7/24/2014	-	-	2	12	2	10	Qrt.			
MW-105	MW	Shallow	7/24/2014	-	-	2	10	1	9	Qrt.			
MW-106	MW	Deep	7/22/2014	-	-	2	10	3	7	Qrt.	Annual	Qrt.	
MW-107	MW	Deep	7/22/2014	-	-	2	11	3	8	Qrt.			
MW-108	MW	Deep	7/23/2014	-	-	2	10	4	6	Qrt.			
MW-109S	MW	Shallow	8/20/2014	-	-	4	13.5	3.5	10	Qrt.	Annual	Qrt.	
MW-109	MW	Deep	8/19/2014	-	SB-2	4	24	14	10	Qrt.			
MW-110S	MW	Shallow	8/20/2014	-	-	4	13	3	10	Qrt.			
MW-110	MW	Deep	8/20/2014	-	SB-1	4	24	14	10	Qrt.			
MW-111	MW	Deep	8/18/2014	-	-	2	22	12	10	Qrt.			
MW-112S	MW	Shallow	8/12/2014	-	-	4	13	3	10	Qrt.		Qrt.	
MW-112	MW	Deep	8/12/2014	-	-	4	24	14	10	Qrt.			

Table 6

WELL NETWORK SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Location Details										Sample Frequency			Comments
Location ID	Location Type	Aquifer Zone Designation	Date Installed	Former Location ID	Former Soil Boring Location ID	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)	TPH DRO	BTEX, MTBE,TBA, EDC, EDB and Napth.	MNA Paramters	
MW-113	MW	Deep	8/19/2014	-	-	2	23	13	10	Qrt.			
MW-114	MW	Deep	8/21/2014	-	-	2	23	13	10	Qrt.		Qrt.	
TW-02	MW	Deep	12/12/2013	TW-02	B-56	1	24	14	10	Qrt.			
TW-03	MW	Deep	12/12/2013	TW-03	B-58	1	15	5	10	Qrt.	Annual	Qrt.	
TW-04	MW	Deep	12/13/2013	TW-04	B-67	1	15	5	10	Qrt.			
TW-05	MW	Deep	12/13/2013	TW-05	B-65	1	10	0	10	Qrt.	Annual	Qrt.	
TW-06	MW	Deep	12/13/2013	TW-06	B-63	1	15	5	10	Qrt.			
TW-07	MW	Deep	12/13/2013	TW-07	B-60	1	15	5	10	Qrt.	Annual	Qrt.	
TW-12S	MW	Shallow	12/18/2013	TW-12S	B-34	1	25	15	10	Qrt.			
TW-14	MW	Shallow	1/15/2014	TW-14	B-73	1	5.5	0.5	5	Qrt.			
RW-1	MW	Deep	10/2/2014	-	-	4	41	26	15	Qrt			
SP-01	SP	Deep	10/2/2014	-	-	2	35	32	3				
SP-02	SP	Deep	9/30/2014	-	-	2	36	33	3				
SEEP B	Seep	Deep	NA	NA	NA	NA	NA	NA	NA				Seeps to be sealed
SEEP D	Seep	Deep	NA	NA	NA	NA	NA	NA	NA				Seeps to be sealed
RW-01S	TPE	Shallow	Pending	MW-01S	B-01	4	25	20	5	Replaces MW-01S			Redrill existing MW
RW-10S	TPE	Shallow	Pending	MW-10S	B-10	4	25	20	5	Replaces MW-10S			Redrill existing MW
RW-25S	TPE	Shallow	Pending	MW-25S	-	4	25	20	5	Replaces MW-25S			Redrill existing MW
RW-30S	TPE	Shallow	Pending	MW-30S	B-30	4	25	20	5	Replaces MW-30S			Redrill existing MW
RW-51S	TPE	Shallow	Pending	MW-51S	-	4	25	20	5	Replaces MW-51S			Redrill existing MW
RW-72S	TPE	Shallow	Pending	MW-72S/TW-08S	B-72	4	25	20	5	Same As MW-72S			Redrill existing MW
PMW-1	TPE	Shallow	Pending	-	-	4	25	20	5	Qrt.			New TPE Well
PMW-2	TPE	Shallow	Pending	-	-	4	25	20	5	Qrt.			New TPE Well
PMW-3	TPE	Shallow	Pending	-	-	4	25	20	5	Qrt.			New TPE Well
PMW-4	TPE	Shallow	Pending	-	-	4	25	20	5	Qrt.			New TPE Well
PMW-5	TPE	Shallow	Pending	-	-	4	25	20	5	Qrt.			New TPE Well
PMW-6	MW	Deep	Pending	-	-	4	35	25	10	Qrt.			Compliance well near MW-25
PMW-7	MW	Deep	Pending	-	-	4	35	25	10	Qrt.			Compliance well near MW-51
PMW-8	MW	Deep	Pending			4	35	25	10	Qrt.			Compliance well near MW-05
PMW-9	MW	Deep	Pending			2	35	25	10	Qrt.			Delineation south screenhouse
PMW-10	MW	Shallow	Pending			4	25	20	5	Qrt.			Delineation well near MW-01S
PMW-11	MW	Shallow	Pending			4	25	20	5	Qrt.			Delineation well near MW-01S
PMW-12	MW	Shallow	Pending			4	25	20	5	Qrt.			Delineation well near MW-01S
SP-03	SP	Deep	Pending	-	-	2	36	3	33				
SP-04	SP	Deep	Pending	-	-	2	36	3	33				
SP-05	SP	Deep	Pending	-	-	2	36	3	33				
SP-06	SP	Deep	Pending	-	-	2	36	3	33				

Table 6

WELL NETWORK SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Location Details										Sample Frequency			Comments
Location ID	Location Type	Aquifer Zone Designation	Date Installed	Former Location ID	Former Soil Boring Location ID	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)	TPH DRO	BTEX, MTBE,TBA, EDC, EDB and Napth.	MNA Paramters	
SP-07	SP	Deep	Pending	-	-	2	36	3	33				
SP-08	SP	Deep	Pending	-	-	2	36	3	33				
SP-09	SP	Deep	Pending	-	-	2	36	3	33				
SP-10	SP	Deep	Pending	-	-	2	15	3	12				
SP-11	SP	Deep	Pending	-	-	2	15	3	12				
SP-12	SP	Deep	Pending	-	-	2	15	3	12				
SP-13	SP	Deep	Pending	-	-	2	15	3	12				
SP-14	SP	Deep	Pending	-	-	2	15	3	12				
SP-15	SP	Deep	Pending	-	-	2	20	3	17				
SP-16	SP	Deep	Pending	-	-	2	20	3	17				

- = Not available
ft = Feet
in = Inches

APPENDIX A

Reimbursement Verification Documentation

SUMMARY OF FIELD WORK PERFORMED

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Date	Activity
February 13, 2015:	Weekly gauging of select wells (22 wells)
February 18, 2015:	Weekly gauging of select wells (22 wells)
February 24, 2015:	Three persons on site to gauge all wells, collect field parameter readings, bail LNAPL, and collect headspace reading from all wells during low tide
February 25, 2015:	Three persons on site for quarterly groundwater sampling event to collect samples from the monitoring wells
February 26, 2015:	Three persons on site for quarterly groundwater sampling event to collect samples from the monitoring wells
March 4, 2015:	One person on site to collect samples from monitoring wells for the quarterly groundwater sampling event and also to conduct weekly gauging of select wells (25 wells)
March 4, 2015:	Weekly gauging of select wells (25 wells)
March 13, 2015:	Weekly gauging of select wells (25 wells)
March 20, 2015:	Weekly gauging of select wells (25 wells)
March 27, 2015:	Weekly gauging of select wells (25 wells)

GROUNDWATER SAMPLING SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well Diameter (in)	T117 (1" well)	T118 (2" well)	T119 (4" well)	Lab Invoice Number	Lab Number	Sample Date(s)	Sampler Initials	M1366 (DRO Method 8015B)	M0105 (Meth 305.1 Acd/Alky)	M1011 (Metals 6000 Series - Manganese)	M1456 (Nitrite by Method 353.2)	M1679 (Sulfate EPA 300)	X0005 (Methane RSKSOP-175 modified)	X0006 (Ferrous Iron SM 3500-Fe B)	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B)	TPH-GRO C6-C10 (SW-846 8015B)	PAHs by SIM (SW-846 8270C SIM)	HEM Oil and Grease (EPA 1664A)	Turbidity (SM 2130B)
									Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
MW-01S	4					LNAPL														
MW-05	4					LNAPL														
MW-08S	4			1	IV10398940	1512614	2/26/15	DR	1											
MW-10S	4					LNAPL														
MW-11	4			1	IV10398776	1541816	2/26/15	LK	1	1	1	1	1	1	1					
MW-14	4			1	IV10398878	1512948	2/25/15	JP	1											
MW-15S	4			1	IV10398940	1512614	2/26/15	DR	1											
MW-16S	2					IA														
MW-16	2		1		IV10398878	1512948	2/25/15	JP	1							1	1	1	1	1
MW-25S	4					LNAPL														
MW-25	4					LNAPL														
MW-27	4			1	IV10398879	1512951	2/25/15	DR	1							1	1	1	1	1
MW-30S	4			1	IV10398879	1512951	2/25/15	DR	1							1	1	1	1	1
MW-31	4			1	IV10398881	1513702	2/25/15	LK	1							1	1	1	1	1
MW-33	4			1	IV10398881	1513702	2/25/15	LK	1	1	1	1	1	1	1	1	1	1	1	1
MW-51S	4			1	IV10398940	1512614	2/26/15	DR	1	1	1	1	1	1	1					
MW-51	4					LNAPL														
MW-52	2					IA														
MW-70	2		1		IV10398776	1541816	2/26/15	LK	1	1	1	1	1	1	1					
MW-72S	4			1	IV10398879	1512951	2/25/15	DR	1	1	1	1	1	1	1					
MW-72	4			1	IV10398881	1513702	2/25/15	LK	1	1	1	1	1	1	1	1	1	1	1	1
MW-100S	2		1		IV10398940	1512614	2/26/15	DR	1											
MW-100	2		1		IV10398879	1512951	2/25/15	DR	1											
MW-102	2					IA														
MW-103	2		1		IV10398940	1512614	2/26/15	DR	1							1	1	1	1	1
MW-104	2		1		IV10398776	1541816	2/26/15	LK	1							1	1	1	1	1
MW-105	2					IA														
MW-106	2		1		IV10398879	1512951	2/25/15	DR	1	1	1	1	1	1	1					

GROUNDWATER SAMPLING SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well Diameter (in)	T117 (1" well)	T118 (2" well)	T119 (4" well)	Lab Invoice Number	Lab Number	Sample Date(s)	Sampler Initials	M1366 (DRO Method 8015B)	M0105 (Meth 305.1 Acd/Alky)	M1011 (Metals 6000 Series - Manganese)	M1456 (Nitrite by Method 353.2)	M1679 (Sulfate EPA 300)	X0005 (Methane RSKSOP-175 modified)	X0006 (Ferrous Iron SM 3500-Fe B)	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B)	TPH-GRO C6-C10 (SW-846 8015B)	PAHs by SIM (SW-846 8270C SIM)	HEM Oil and Grease (EPA 1664A)	Turbidity (SM 2130B)
									Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
MW-107	2		1		IV10398879	1512951	2/25/15	DR	1							1	1			
MW-108	2					DRY														
MW-109S	4			1	IV10398939	1513701	2/26/15	JP	1	1	1	1	1	1	1	1	1	1	1	1
MW-109	4			1	IV10398939	1513701	2/26/15	JP	1											
MW-110S	4			1	IV10398939	1513701	2/26/15	JP	1											
MW-110	4			1	IV10398939	1513701	2/26/15	JP	1											
MW-111	2		1		IV10398939	1513701	2/26/15	JP	1											
MW-112S	4			1	IV10398939	1513701	2/26/15	JP	1	1	1	1	1	1	1					
MW-112	4			1	IV10398939	1513701	2/26/15	JP	1											
MW-113	2		1		IV10398939	1513701	2/26/15	JP	1											
MW-114	2		1		IV10398939	1513701	2/26/15	JP	1	1	1	1	1	1	1					
TW-02	1	1			IV10399307	1513324	3/4/15	JP	1							1	1	1	1	1
TW-03	1	1			IV10399307	1513324	3/4/15	JP	1	1	1	1	1	1	1	1	1	1	1	1
TW-04	1	1			IV10399307	1513324	3/4/15	JP	1							1	1	1	1	1
TW-05	1	1			IV10399307	1513324	3/4/15	JP	1	1	1	1	1	1	1	1	1	1	1	1
TW-06	1	1			IV10399307	1513324	3/4/15	JP	1							1	1	1	1	1
TW-07	1	1			IV10399307	1513324	3/4/15	JP	1	1	1	1	1	1	1	1	1	1	1	1
TW-12S	1					DRY														
TW-14	1	1			IV10398776	1541816	2/26/14	LK	1							1	1	1	1	1
RW-1	4			1	IV10398940	1512614	2/26/15	DR	1											
SP-1	2					NS														
SP-2	2					NS														
Totals		**7**	**11**	**18**				**Total**	**36**	**13**	**13**	**13**	**13**	**13**	**13**	**17**	**17**	**16**	**16**	**16**

APPENDIX B

Laboratory Report and Chain of Custody Documentation

Lancaster Laboratories ID Numbers:

1530551
1530552
1541474
1541475
1541476
1541816
1541817
1541818
1542804

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

March 18, 2015

Project: NRG PRGS

Submittal Date: 03/04/2015
Group Number: 1542804
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-02 Grab Groundwater	7792457
TW-03 Grab Groundwater	7792458
TB1-3415 Water	7792459
TW-07 Grab Groundwater	7792460
TW-04 Grab Groundwater	7792461
TB2-3415 Water	7792462
TW-05 Grab Groundwater	7792463
TW-06 Grab Groundwater	7792464
TW-06 MS Grab Groundwater	7792465
TW-06 MSD Grab Groundwater	7792466
Rinsate-3415 Grab Groundwater	7792467
TB3-3415 Water	7792468
TB4-3415 Water	7792469

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution
ELECTRONIC COPY TO	GES	Attn: Greg Reichart

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: TW-02 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792457
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 10:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.17		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.038	J	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.018	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.011	J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.014	J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.015	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.15		0.010	1
08357	Fluorene	86-73-7	0.065		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.045	J	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.043	J	0.010	1
08357	Naphthalene	91-20-3	0.20		0.030	1
08357	Phenanthrene	85-01-8	0.14		0.030	1
08357	Pyrene	129-00-0	0.13		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	N.D.		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	2.0	J	1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	32.9		0.14	1
	The holding time was not met.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: TW-02 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792457
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 10:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 14:06	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 14:06	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 12:53	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 16:05	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 16:05	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150680005A	03/11/2015 21:19	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150680005A	03/09/2015 19:35	David V Hershey Jr	1
08079	HEM (oil & grease)	EPA 1664A	1	15065807901A	03/06/2015 17:31	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15065121451A	03/06/2015 18:15	Luz M Groff	1

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792458
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 10:30 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	1		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.18		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.028	J	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.019	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.016	J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.021	J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.013	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.016	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.037	J	0.010	1
08357	Fluorene	86-73-7	0.36		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.14		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.049	J	0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	0.14		0.030	1
08357	Pyrene	129-00-0	0.047	J	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	2,500		30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	180		45	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	5.24		0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	
00228	Sulfate	14808-79-8	269		30.0	100
	EPA 353.2		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	1

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792458
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 10:30 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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Odenton MD 21113

PRG03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00219	Nitrite Nitrogen	14797-65-0	0.083	0.015	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	3.1 J	1.4	1
	SM 2130 B-2001		**N T U**	**N T U**	
12145	Turbidity The holding time was not met.	n.a.	36.6	0.14	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	49.7	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	29.7	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 14:28	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 14:28	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 13:20	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 16:32	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 16:32	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	150720001A	03/17/2015 12:15	Matthew S Listner	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 14:39	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1
07058	Manganese	SW-846 6010B	1	150651848002	03/09/2015 02:03	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150651848002	03/07/2015 13:15	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15064987151B	03/06/2015 02:24	Clinton M Wilson	100
00220	Nitrate Nitrogen	EPA 353.2	1	15067106102A	03/08/2015 23:30	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15064105101A	03/05/2015 02:26	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15065807901A	03/06/2015 17:31	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15065121451A	03/06/2015 18:15	Luz M Groff	1

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792458
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 10:30 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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PRG03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15065005101A	03/06/2015 17:44	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15069834401A	03/10/2015 19:25	Daniel S Smith	100

Sample Description: TB1-3415 Water
NRG - PRGS

LL Sample # WW 7792459
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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PRGT1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 14:50	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 14:50	Anita M Dale	1

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792460
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 11:10 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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Odenton MD 21113

PRG07

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	9		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.056		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.015	J	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.014	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.028	J	0.010	1
08357	Fluorene	86-73-7	0.053		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.43		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.38		0.010	1
08357	Naphthalene	91-20-3	2.2		0.031	1
08357	Phenanthrene	85-01-8	0.060	J	0.031	1
08357	Pyrene	129-00-0	0.077		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	46	J	20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	1,300		30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	670		45	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	4.30		0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	
00228	Sulfate	14808-79-8	258		30.0	100
	EPA 353.2		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	1

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792460
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 11:10 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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Odenton MD 21113

PRG07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00219	Nitrite Nitrogen	14797-65-0	0.034 J	0.015	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	3.3 J	1.4	1
	SM 2130 B-2001		**N T U**	**N T U**	
12145	Turbidity The holding time was not met.	n.a.	173	1.4	10
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	1.6 J	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	14.1	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 15:12	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 15:12	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 13:48	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 17:27	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 17:27	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	150720001A	03/17/2015 12:34	Matthew S Listner	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 15:02	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1
07058	Manganese	SW-846 6010B	1	150651848002	03/09/2015 02:06	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150651848002	03/07/2015 13:15	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15064987151B	03/06/2015 02:39	Clinton M Wilson	100
00220	Nitrate Nitrogen	EPA 353.2	1	15067106102A	03/08/2015 23:32	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15064105101A	03/05/2015 02:27	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15065807901A	03/06/2015 17:31	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15065121451A	03/06/2015 18:15	Luz M Groff	10

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792460
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 11:10 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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PRG07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15065005101A	03/06/2015 17:32	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15069834401A	03/10/2015 19:25	Daniel S Smith	100

Sample Description: TW-04 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792461
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 11:45 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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PRG04

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	1		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	1.3		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.37		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.018	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.017	J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.021	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.66		0.010	1
08357	Fluorene	86-73-7	0.53		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	2.2		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.15		0.010	1
08357	Naphthalene	91-20-3	1.0		0.030	1
08357	Phenanthrene	85-01-8	1.2		0.030	1
08357	Pyrene	129-00-0	0.24		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	27	J	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	940		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	3.8	J	1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	212		1.4	10
	The holding time was not met.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: TW-04 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792461
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 11:45 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

PRG04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 15:33	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 15:33	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 14:16	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 17:55	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 17:55	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 15:25	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1
08079	HEM (oil & grease)	EPA 1664A	1	15065807901A	03/06/2015 17:31	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15065121451A	03/06/2015 18:15	Luz M Groff	10

Sample Description: TB2-3415 Water
NRG - PRGS

LL Sample # WW 7792462
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

PRGT2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 15:55	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 15:55	Anita M Dale	1

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792463
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 12:15 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

PRG05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	2		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	1		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.63		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.23		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.034	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.017	J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.024	J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.014	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.050	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.11		0.010	1
08357	Fluorene	86-73-7	0.65		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	5.3		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.65		0.010	1
08357	Naphthalene	91-20-3	3.0		0.031	1
08357	Phenanthrene	85-01-8	0.52		0.031	1
08357	Pyrene	129-00-0	0.29		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	130		20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	2,800		30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	2,200		45	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	5.28		0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	
00228	Sulfate	14808-79-8	367		30.0	100
	EPA 353.2		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	1

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792463
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 12:15 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00219	Nitrite Nitrogen	14797-65-0	0.13	0.015	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	2.8 J	1.4	1
	SM 2130 B-2001		**N T U**	**N T U**	
12145	Turbidity The holding time was not met.	n.a.	95.2	0.56	4
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	89.4	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	72.6	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 16:17	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 16:17	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 14:43	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 18:23	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 18:23	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	150720001A	03/17/2015 12:53	Matthew S Listner	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 15:48	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1
07058	Manganese	SW-846 6010B	1	150651848002	03/09/2015 02:10	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150651848002	03/07/2015 13:15	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15064987151B	03/06/2015 03:25	Clinton M Wilson	100
00220	Nitrate Nitrogen	EPA 353.2	1	15067106102A	03/08/2015 23:33	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15064105101A	03/05/2015 02:28	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15065807901A	03/06/2015 17:31	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15065121451A	03/06/2015 18:15	Luz M Groff	4

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792463
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 12:15 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

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PRG05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15065005101A	03/06/2015 17:38	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15069834401A	03/10/2015 19:25	Daniel S Smith	100

Sample Description: TW-06 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792464
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
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Odenton MD 21113

PRG06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	2		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	6		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	3.1		0.10	10
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.32		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.011	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.094		0.010	1
08357	Fluorene	86-73-7	4.5		0.10	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	28		0.10	10
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	2.8		0.030	1
08357	Pyrene	129-00-0	0.18		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	170		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	2,200		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	1.9	J	1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	182		1.4	10
	The holding time was not met.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: TW-06 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792464
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
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1350 Blair Dr
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PRG06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 11:55	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 11:55	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 15:11	Holly B Ziegler	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 17:57	Holly B Ziegler	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 12:51	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 12:51	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 13:31	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1
08079	HEM (oil & grease)	EPA 1664A	1	15069807901A	03/10/2015 17:50	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15065121451A	03/06/2015 18:15	Luz M Groff	10

Sample Description: TW-06 MS Grab Groundwater
NRG - PRGS

LL Sample # WW 7792465
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	21		0.5	1
10945	t-Butyl alcohol	75-65-0	190		2	1
10945	1,2-Dibromoethane	106-93-4	18		0.5	1
10945	1,2-Dichloroethane	107-06-2	19		0.5	1
10945	Ethylbenzene	100-41-4	25		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	19		0.5	1
10945	Toluene	108-88-3	19		0.5	1
10945	Xylene (Total)	1330-20-7	55		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.70		0.010	1
08357	Acenaphthylene	208-96-8	0.25		0.010	1
08357	Anthracene	120-12-7	1.3		0.010	1
08357	Benzo(a)anthracene	56-55-3	1.0		0.010	1
08357	Benzo(a)pyrene	50-32-8	0.84		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.93		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.84		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.82		0.010	1
08357	Chrysene	218-01-9	0.90		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.86		0.010	1
08357	Fluoranthene	206-44-0	1.1		0.010	1
08357	Fluorene	86-73-7	0.80		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.87		0.010	1
08357	1-Methylnaphthalene	90-12-0	28	E	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.93		0.010	1
08357	Naphthalene	91-20-3	3.4		0.030	1
08357	Phenanthrene	85-01-8	3.6		0.030	1
08357	Pyrene	129-00-0	0.86		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,400		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	4,300		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	38.7		1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: TW-06 MS Grab Groundwater
NRG - PRGS

LL Sample # WW 7792465
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 12:17	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 12:17	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 15:39	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 13:19	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 13:19	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 13:54	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1
08079	HEM (oil & grease)	EPA 1664A	1	15069807901A	03/10/2015 17:50	Michelle L Lalli	1

Sample Description: TW-06 MSD Grab Groundwater
NRG - PRGS

LL Sample # WW 7792466
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	21		0.5	1
10945	t-Butyl alcohol	75-65-0	200		2	1
10945	1,2-Dibromoethane	106-93-4	19		0.5	1
10945	1,2-Dichloroethane	107-06-2	19		0.5	1
10945	Ethylbenzene	100-41-4	25		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	19		0.5	1
10945	Toluene	108-88-3	19		0.5	1
10945	Xylene (Total)	1330-20-7	55		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	1.3		0.010	1
08357	Acenaphthylene	208-96-8	0.44		0.010	1
08357	Anthracene	120-12-7	1.4		0.010	1
08357	Benzo(a)anthracene	56-55-3	1.0		0.010	1
08357	Benzo(a)pyrene	50-32-8	0.86		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.94		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.84		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.84		0.010	1
08357	Chrysene	218-01-9	0.90		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.89		0.010	1
08357	Fluoranthene	206-44-0	1.2		0.010	1
08357	Fluorene	86-73-7	1.4		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.89		0.010	1
08357	1-Methylnaphthalene	90-12-0	27	E	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.89		0.010	1
08357	Naphthalene	91-20-3	3.4		0.030	1
08357	Phenanthrene	85-01-8	3.9		0.030	1
08357	Pyrene	129-00-0	0.85		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,400		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	4,400		45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 12:38	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 12:38	Anita M Dale	1

Sample Description: TW-06 MSD Grab Groundwater
NRG - PRGS

LL Sample # WW 7792466
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:00 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRG06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 16:06	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 13:46	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 13:46	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 14:16	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1

Sample Description: Rinsate-3415 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792467
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:35 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRGRB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: Rinsate-3415 Grab Groundwater
NRG - PRGS

LL Sample # WW 7792467
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015 13:35 by JP

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRGRB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 13:00	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 13:00	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15068WAC026	03/10/2015 16:34	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15068WAC026	03/09/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15071A53A	03/13/2015 12:23	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15071A53A	03/13/2015 12:23	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150720011A	03/16/2015 16:11	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150720011A	03/14/2015 23:30	David V Hershey Jr	1
08079	HEM (oil & grease)	EPA 1664A	1	15069807901A	03/10/2015 17:50	Michelle L Lalli	1

Sample Description: TB3-3415 Water
NRG - PRGS

LL Sample # WW 7792468
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRGT3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 13:22	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 13:22	Anita M Dale	1

Sample Description: TB4-3415 Water
NRG - PRGS

LL Sample # WW 7792469
LL Group # 1542804
Account # 08390

Project Name: NRG PRGS

Collected: 03/04/2015

Submitted: 03/04/2015 19:50
Reported: 03/18/2015 16:31

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRGT4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150651AA	03/06/2015 13:44	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150651AA	03/06/2015 13:44	Anita M Dale	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1542804
Reported: 03/18/2015 16:31

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F150651AA	Sample number(s): 7792457-7792469							
Benzene	N.D.	0.5	ug/l	92		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	98		78-121		
1,2-Dibromoethane	N.D.	0.5	ug/l	92		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	93		72-127		
Ethylbenzene	N.D.	0.5	ug/l	90		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		75-120		
Toluene	N.D.	0.5	ug/l	92		80-120		
Xylene (Total)	N.D.	0.5	ug/l	87		80-120		
Batch number: 15068WAC026	Sample number(s): 7792457-7792458,7792460-7792461,7792463-7792467							
Acenaphthene	N.D.	0.010	ug/l	90		76-139		
Acenaphthylene	N.D.	0.010	ug/l	86		67-120		
Anthracene	N.D.	0.010	ug/l	97		72-128		
Benzo(a)anthracene	N.D.	0.010	ug/l	97		71-127		
Benzo(a)pyrene	N.D.	0.010	ug/l	90		64-132		
Benzo(b)fluoranthene	N.D.	0.010	ug/l	97		71-139		
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	84		49-140		
Benzo(k)fluoranthene	N.D.	0.010	ug/l	92		63-136		
Chrysene	N.D.	0.010	ug/l	91		72-132		
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	72		37-142		
Fluoranthene	N.D.	0.010	ug/l	102		76-121		
Fluorene	N.D.	0.010	ug/l	91		71-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	83		45-136		
1-Methylnaphthalene	N.D.	0.010	ug/l	93		65-122		
2-Methylnaphthalene	N.D.	0.010	ug/l	92		59-124		
Naphthalene	N.D.	0.030	ug/l	96		69-119		
Phenanthrene	N.D.	0.030	ug/l	94		75-121		
Pyrene	N.D.	0.010	ug/l	89		70-124		
Batch number: 15071A53A	Sample number(s): 7792457-7792458,7792460-7792461,7792463-7792467							
TPH-GRO water C6-C10	N.D.	20.	ug/l	98		80-129		
Batch number: 150720001A	Sample number(s): 7792458,7792460,7792463							
Methane	N.D.	3.0	ug/l	99		85-115		
Batch number: 150680005A	Sample number(s): 7792457							
DRO C10-C28	N.D.	45.	ug/l	117*	124*	69-115	4	20
Batch number: 150720011A	Sample number(s): 7792458,7792460-7792461,7792463-7792467							
DRO C10-C28	N.D.	45.	ug/l	77		69-115		
Batch number: 150651848002	Sample number(s): 7792458,7792460,7792463							
Manganese	N.D.	0.00083	mg/l	104		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1542804
Reported: 03/18/2015 16:31

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15064105101A	Sample number(s): 7792458,7792460,7792463							
Nitrite Nitrogen	N.D.	0.015	mg/l	105		90-110		
Batch number: 15064987151B	Sample number(s): 7792458,7792460,7792463							
Sulfate	N.D.	0.30	mg/l	96	96	90-110	0	20
Batch number: 15067106102A	Sample number(s): 7792458,7792460,7792463							
Nitrate Nitrogen	N.D.	0.040	mg/l	105		90-110		
Batch number: 15065005101A	Sample number(s): 7792458,7792460,7792463							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	97		90-110		
Batch number: 15065121451A	Sample number(s): 7792457-7792458,7792460-7792461,7792463-7792464							
Turbidity	0.16 J	0.14	N T U	98		90-110		
Batch number: 15065807901A	Sample number(s): 7792457-7792458,7792460-7792461,7792463							
HEM (oil & grease)	1.9 J	1.4	mg/l	89	87	78-114	2	16
Batch number: 15069807901A	Sample number(s): 7792464-7792465,7792467							
HEM (oil & grease)	N.D.	1.4	mg/l	93	95	78-114	2	16
Batch number: 15069834401A	Sample number(s): 7792458,7792460,7792463							
Ferrous Iron	N.D.	0.010	mg/l	101		93-105		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F150651AA	Sample number(s): 7792457-7792469 UNSPK: 7792464								
Benzene	95	98	72-134	3	30				
t-Butyl alcohol	97	102	67-119	4	30				
1,2-Dibromoethane	90	93	77-116	4	30				
1,2-Dichloroethane	94	94	63-142	0	30				
Ethylbenzene	95	96	71-134	1	30				
Methyl Tertiary Butyl Ether	96	97	72-126	1	30				
Toluene	94	97	80-125	3	30				
Xylene (Total)	91	92	79-125	1	30				
Batch number: 15068WAC026	Sample number(s): 7792457-7792458,7792460-7792461,7792463-7792467 UNSPK: 7792464								
Acenaphthene	11*	73	69-134	62*	30				
Acenaphthylene	25*	44*	66-132	55*	30				
Anthracene	94	108	64-129	11	30				
Benzo(a)anthracene	98	99	32-151	1	30				
Benzo(a)pyrene	83	85	32-137	1	30				
Benzo(b)fluoranthene	92	93	41-137	1	30				
Benzo(g,h,i)perylene	83	83	21-127	1	30				
Benzo(k)fluoranthene	81	83	36-139	3	30				
Chrysene	89	89	51-129	0	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1542804
Reported: 03/18/2015 16:31

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenz(a,h)anthracene	85	88	17-134	4	30				
Fluoranthene	103	109	49-138	6	30				
Fluorene	0*	59	59-137	54*	30				
Indeno(1,2,3-cd)pyrene	86	88	26-130	2	30				
1-Methylnaphthalene	9 (2)	-179 (2)	47-136	7	30				
2-Methylnaphthalene	92	87	66-120	5	30				
Naphthalene	334*	340*	58-131	2	30				
Phenanthrene	81	112	66-126	9	30				
Pyrene	67	66	37-142	1	30				
Batch number: 15071A53A	Sample number(s): 7792457-7792458,7792460-7792461,7792463-7792467 UNSPK: 7792464								
TPH-GRO water C6-C10	116	110	75-135	4	30				
Batch number: 150720001A	Sample number(s): 7792458,7792460,7792463 UNSPK: P790896								
Methane	-11468 (2)	-12802 (2)	46-129	6	20				
Batch number: 150680005A	Sample number(s): 7792457 UNSPK: P792464								
DRO C10-C28	111	109	47-129	1	20				
Batch number: 150720011A	Sample number(s): 7792458,7792460-7792461,7792463-7792467 UNSPK: 7792464								
DRO C10-C28	77	82	47-129	3	20				
Batch number: 150651848002	Sample number(s): 7792458,7792460,7792463 UNSPK: P791113 BKG: P791113								
Manganese	97 (2)	140 (2)	75-125	7	20	2.63	2.60	1	20
Batch number: 15064105101A	Sample number(s): 7792458,7792460,7792463 UNSPK: P791677 BKG: P791677								
Nitrite Nitrogen	101		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15064987151B	Sample number(s): 7792458,7792460,7792463 UNSPK: P792266 BKG: P792266								
Sulfate	89*		90-110			64.4	64.3	0	20
Batch number: 15067106102A	Sample number(s): 7792458,7792460,7792463 UNSPK: P787878 BKG: P787878								
Nitrate Nitrogen	101		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15065005101A	Sample number(s): 7792458,7792460,7792463 UNSPK: P793935 BKG: P793935								
Total Alkalinity to pH 4.5	86		17-146			177	178	1	5
Batch number: 15065121451A	Sample number(s): 7792457-7792458,7792460-7792461,7792463-7792464 BKG: P798457								
Turbidity						32.9	33.3	1	8
Batch number: 15065807901A	Sample number(s): 7792457-7792458,7792460-7792461,7792463 UNSPK: 7792457								
HEM (oil & grease)	74*		78-114						
Batch number: 15069807901A	Sample number(s): 7792464-7792465,7792467 UNSPK: 7792464								
HEM (oil & grease)	87		78-114						
Batch number: 15069834401A	Sample number(s): 7792458,7792460,7792463 UNSPK: P793296 BKG: P793296								
Ferrous Iron	90	93	73-111	2	6	11.3	11.7	3 (1)	5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1542804
Reported: 03/18/2015 16:31

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC
Batch number: F150651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7792457	101	97	105	97
7792458	99	98	106	97
7792459	99	99	106	97
7792460	99	100	107	101
7792461	98	97	107	100
7792462	98	98	107	99
7792463	99	99	106	99
7792464	97	97	103	101
7792465	98	97	104	102
7792466	97	98	105	102
7792467	97	96	104	98
7792468	98	97	103	99
7792469	98	97	105	96
Blank	101	97	104	98
LCS	97	97	105	101
MS	98	97	104	102
MSD	97	98	105	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15068WAC026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7792457	105	104	89
7792458	86	111	96
7792460	101	94	86
7792461	129	94	100
7792463	97	108	99
7792464	109	111	102
7792465	115	113	110
7792466	123	116	106
7792467	106	107	81
Blank	110	111	85
LCS	109	115	95
MS	115	113	110
MSD	123	116	106
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15071A53A

	Trifluorotoluene-F
7792457	94
7792458	93
7792460	95
7792461	95
7792463	95
7792464	103

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1542804
Reported: 03/18/2015 16:31

Surrogate Quality Control

7792465	115
7792466	110
7792467	94
Blank	93
LCS	109
MS	115
MSD	110
Limits:	63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 150680005A

	Orthoterphenyl
7792457	121
Blank	132
LCS	136
LCSD	121
MS	111
MSD	129
Limits:	42-160

Analysis Name: Methane
Batch number: 150720001A

	Propene
7792458	84
7792460	79
7792463	80
Blank	94
LCS	96
MS	67
MSD	60
Limits:	47-116

Analysis Name: DRO micro-ext 8015B
Batch number: 150720011A

	Orthoterphenyl
7792458	108
7792460	88
7792461	110
7792463	95
7792464	122
7792465	89
7792466	88
7792467	119
Blank	110
LCS	88
MS	89
MSD	88
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1542804 Sample # 779245769 ORIGINAL

Client: **Groundwater & Env. Services, Inc.**	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: **1400 North Royal St., Alexandria, VA**	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Potable Water	Ground	Surface	NPDES	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) H	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B) H	TPH-GRO C6-C10 (SW-846 8015B) H	PAHs by SIM (SW-846 8270C SIM) None	HEM Oil and Grease (EPA 1664A) N	Turbidity (SM 2130B) None	Alkalinity (SM 2320B) None	Nitrate NO3 -1 (EPA 353.2) S	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997) H	Sulfate SO42- (EPA 300.0) None	Manganese Mn2+ (EPA 6010B) N	Methane (RSKSOP-175 modified) H	Remarks
TW-02	3-4-15	1000	X				X					12	X	X	X	X	X	X								Cooler #1
TW-03		1030										20	X	X	X	X	X	X	X	X	X	X	X	X	Cooler #1
TB1-3415		—										2		X											Cooler #1
TW-07		1110										20	X	X	X	X	X	X	X	X	X	X	X	X	Cooler #2
TW-04		1145										12	X	X	X	X	X	X							Cooler #2
TB2-3415		—										2		X											Cooler #2
TW-05		1215										20	X	X	X	X	X	X	X	X	X	X	X	X	Cooler #3
TW-06		1300										12	X	X	X	X	X	X							Cooler #4
TW-06 MS		1300										11	X	X	X	X	X								Cooler #4
TW-06 MSD		1300										11	X	X	X	X	X								Cooler #4
Rinsate-3415		1335										11	X	X	X	X	X								Cooler #3
TB3-3415	↓	—	↓				↓					2		X											Cooler #3
TB4-3415	3-4-15	—	X				X					2		X											Cooler #4

Analyses Requested — Preservation Codes

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	3-4-15	1610			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				3/4/15	1950

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.2-0.7 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 58930

Group Number(s): 1542804

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	03/04/2015 19:50
Number of Packages:	4	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	Yes
Samples Chilled:	Yes	VOA IDs (≥ 6mm):	See Below
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	8
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

VOA Vial IDs (Headspace ≥ 6mm): 1 Vial TB1-3415

Unpacked by Patrick Engle (3472) at 20:17 on 03/04/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.4	DT	Wet	Y	Loose	N
2	DT121	0.2	DT	Wet	Y	Loose	N
3	DT121	0.2	DT	Wet	Y	Loose	N
4	DT121	0.7	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.co

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

March 13, 2015

Project: NRG PRGS

Submittal Date: 02/27/2015
Group Number: 1541818
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-51S Grab Groundwater	7787841
TB2-22615 Water	7787842
MW-08S Grab Groundwater	7787843
MW-15S Grab Groundwater	7787844
MW-100S Grab Groundwater	7787845
RW-1 Grab Groundwater	7787846
MW-103 Grab Groundwater	7787847

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution
ELECTRONIC COPY TO	GES	Attn: Greg Reichart

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: MW-51S Grab Groundwater
NRG PRGS

LL Sample # WW 7787841
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 12:40 by DR

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP51S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	8,900	150	50
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	7,100	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	4.49	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	6.2	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.12	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	518	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	82.4	2.0	200

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150700031A	03/12/2015 10:11	Matthew S Listner	50
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/05/2015 01:21	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150621848002	03/06/2015 14:56	Katlin N Cataldi	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150621848002	03/04/2015 21:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15059667901A	02/28/2015 13:01	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15067106101A	03/08/2015 22:53	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105103B	02/27/2015 20:35	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004203A	03/03/2015 20:22	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15059834401A	02/28/2015 07:05	Daniel S Smith	200

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Analysis Report

Sample Description: TB2-22615 Water
NRG PRGS

LL Sample # WW 7787842
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

T2226

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 15:51	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 15:51	Anita M Dale	1

Sample Description: MW-08S Grab Groundwater
NRG PRGS

LL Sample # WW 7787843
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 14:50 by DR

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP08S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	22,000	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/05/2015 01:44	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-15S Grab Groundwater
NRG PRGS

LL Sample # WW 7787844
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:00 by DR

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP15S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,800	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150700009A	03/12/2015 16:34	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150700009A	03/11/2015 22:00	David V Hershey Jr	1

Sample Description: MW-100S Grab Groundwater
NRG PRGS

LL Sample # WW 7787845
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:10 by DR

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

N100S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	690	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150700009A	03/12/2015 16:57	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150700009A	03/11/2015 22:00	David V Hershey Jr	1

Sample Description: RW-1 Grab Groundwater
NRG PRGS

LL Sample # WW 7787846
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:20 by DR

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPRW1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	6,200	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/05/2015 02:53	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-103 Grab Groundwater
NRG PRGS

LL Sample # WW 7787847
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:50 by DR

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP103

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.014	J	0.011	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	1
08357	Anthracene	120-12-7	N.D.		0.011	1
08357	Benzo(a)anthracene	56-55-3	0.023	J	0.011	1
08357	Benzo(a)pyrene	50-32-8	0.020	J	0.011	1
08357	Benzo(b)fluoranthene	205-99-2	0.041	J	0.011	1
08357	Benzo(g,h,i)perylene	191-24-2	0.021	J	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	0.015	J	0.011	1
08357	Chrysene	218-01-9	0.032	J	0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	1
08357	Fluoranthene	206-44-0	0.055	J	0.011	1
08357	Fluorene	86-73-7	0.019	J	0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.021	J	0.011	1
08357	1-Methylnaphthalene	90-12-0	0.031	J	0.011	1
08357	2-Methylnaphthalene	91-57-6	0.025	J	0.011	1
08357	Naphthalene	91-20-3	N.D.		0.033	1
08357	Phenanthrene	85-01-8	0.039	J	0.033	1
08357	Pyrene	129-00-0	0.052	J	0.011	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	N.D.		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.		1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	98.0		0.56	4

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-103 Grab Groundwater
NRG PRGS

LL Sample # WW 7787847
LL Group # 1541818
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:50 by DR

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP103

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 16:13	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 16:13	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15063WAA026	03/05/2015 18:49	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15063WAA026	03/04/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15062A20A	03/04/2015 15:13	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15062A20A	03/04/2015 15:13	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/05/2015 03:16	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15062807901A	03/03/2015 09:15	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15058121453B	02/27/2015 19:30	Luz M Groff	4

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541818
Reported: 03/13/2015 17:06

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F150611AA	Sample number(s): 7787842,7787847							
Benzene	N.D.	0.5	ug/l	93	92	78-120	1	30
t-Butyl alcohol	N.D.	2.	ug/l	98	97	78-121	1	30
1,2-Dibromoethane	N.D.	0.5	ug/l	95	90	80-120	5	30
1,2-Dichloroethane	N.D.	0.5	ug/l	95	93	72-127	3	30
Ethylbenzene	N.D.	0.5	ug/l	92	91	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96	96	75-120	0	30
Toluene	N.D.	0.5	ug/l	96	96	80-120	0	30
Xylene (Total)	N.D.	0.5	ug/l	91	91	80-120	1	30
Batch number: 15063WAA026	Sample number(s): 7787847							
Acenaphthene	N.D.	0.010	ug/l	88	91	76-139	3	30
Acenaphthylene	N.D.	0.010	ug/l	88	90	67-120	3	30
Anthracene	N.D.	0.010	ug/l	95	100	72-128	5	30
Benzo(a)anthracene	N.D.	0.010	ug/l	90	96	71-127	7	30
Benzo(a)pyrene	N.D.	0.010	ug/l	77	95	64-132	21	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	84	102	71-139	19	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	55	94	49-140	53*	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	74	99	63-136	30	30
Chrysene	N.D.	0.010	ug/l	78	94	72-132	19	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	48	85	37-142	55*	30
Fluoranthene	N.D.	0.010	ug/l	96	102	76-121	6	30
Fluorene	N.D.	0.010	ug/l	90	94	71-124	5	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	59	92	45-136	43*	30
1-Methylnaphthalene	N.D.	0.010	ug/l	79	79	65-122	0	30
2-Methylnaphthalene	N.D.	0.010	ug/l	78	78	59-124	0	30
Naphthalene	N.D.	0.030	ug/l	82	81	69-119	1	30
Phenanthrene	N.D.	0.030	ug/l	90	96	75-121	7	30
Pyrene	N.D.	0.010	ug/l	85	93	70-124	9	30
Batch number: 15062A20A	Sample number(s): 7787847							
TPH-GRO water C6-C10	N.D.	20.	ug/l	112	113	80-129	1	30
Batch number: 150700031A	Sample number(s): 7787841							
Methane	N.D.	3.0	ug/l	99		85-115		
Batch number: 150620003A	Sample number(s): 7787841,7787843,7787846-7787847							
DRO C10-C28	89 J	45.	ug/l	87	88	69-115	0	20
Batch number: 150700009A	Sample number(s): 7787844-7787845							
DRO C10-C28	N.D.	45.	ug/l	84	90	69-115	9	20
Batch number: 150621848002	Sample number(s): 7787841							
Manganese	N.D.	0.00083	mg/l	98		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541818
Reported: 03/13/2015 17:06

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15058105103B	Sample number(s): 7787841							
Nitrite Nitrogen	N.D.	0.015	mg/l	107		90-110		
Batch number: 15059667901A	Sample number(s): 7787841							
Sulfate	N.D.	0.30	mg/l	99	100	90-110	1	20
Batch number: 15067106101A	Sample number(s): 7787841							
Nitrate Nitrogen	N.D.	0.040	mg/l	102		90-110		
Batch number: 15058121453B	Sample number(s): 7787847							
Turbidity	0.15 J	0.14	N T U	96		90-110		
Batch number: 15059834401A	Sample number(s): 7787841							
Ferrous Iron	N.D.	0.010	mg/l	99		93-105		
Batch number: 15062004203A	Sample number(s): 7787841							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		
Batch number: 15062807901A	Sample number(s): 7787847							
HEM (oil & grease)	N.D.	1.4	mg/l	87	87	78-114	1	16

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 150700031A	Sample number(s): 7787841 UNSPK: P798294								
Methane	89	77	46-129	13	20				
Batch number: 150621848002	Sample number(s): 7787841 UNSPK: P787878 BKG: P787878								
Manganese	87	86	75-125	0	20	1.39	1.38	1	20
Batch number: 15058105103B	Sample number(s): 7787841 UNSPK: 7787841 BKG: 7787841								
Nitrite Nitrogen	104		90-110			0.12	0.13	6 (1)	20
Batch number: 15059667901A	Sample number(s): 7787841 UNSPK: P787824 BKG: P787824								
Sulfate	101		90-110			79.8	82.1	3	20
Batch number: 15067106101A	Sample number(s): 7787841 UNSPK: P787465 BKG: P787465								
Nitrate Nitrogen	103		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15058121453B	Sample number(s): 7787847 BKG: P787031								
Turbidity						35.6	34.9	2	8
Batch number: 15059834401A	Sample number(s): 7787841 UNSPK: P787838 BKG: P787838								
Ferrous Iron	122*	120*	73-111	1	6	3.1	3.1	1 (1)	5
Batch number: 15062004203A	Sample number(s): 7787841 UNSPK: P788660 BKG: P788660								
Total Alkalinity to pH 4.5	95		17-146			64.6	65.4	1	5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541818
Reported: 03/13/2015 17:06

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15062807901A	Sample number(s): 7787847 UNSPK: P784598								
HEM (oil & grease)	75*		78-114						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC
Batch number: F150611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7787842	99	101	105	96
7787847	99	98	109	100
Blank	99	100	107	98
LCS	101	101	107	101
LCSD	98	100	107	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15063WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7787847	81	53	68
Blank	105	107	89
LCS	103	100	84
LCSD	106	119	83
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15062A20A

	Trifluorotoluene-F
7787847	86
Blank	87
LCS	92
LCSD	93
Limits:	63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 150620003A

	Orthoterphenyl
7787841	109
7787843	125
7787846	108
7787847	110
Blank	112
LCS	98
LCSD	96

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541818
Reported: 03/13/2015 17:06

Surrogate Quality Control

Limits: 42-160

Analysis Name: DRO micro-ext 8015B
Batch number: 150700009A

	Orthoterphenyl
7787844	62
7787845	87
Blank	125
LCS	100
LCSD	112
Limits:	42-160

Analysis Name: Methane
Batch number: 150700031A

	Propene
7787841	104
Blank	100
LCS	104
MS	72
MSD	61
Limits:	47-116

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 154818 Sample # 7787841-47

Client: **Groundwater & Env. Services, Inc.**	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Danielle Bice	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: **1400 North Royal St., Alexandria, VA**	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Potable Water	Ground	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B)	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B)	TPH-GRO C6-C10 (SW-846 8015B)	PAHs by SIM (SW-846 8270C SIM)	HEM Oil and Grease (EPA 1664A)	Turbidity (SM 2130B)	Alkalinity (SM 2320B)	Nitrate NO3 -1 (EPA 353.2)	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997)	Sulfate SO42- (EPA 300.0)	Manganese Mn2+ (EPA 6010B)	Methane (RSKSOP-175 modified)	Remarks
													Analyses Requested / Preservation Codes: H	H	H	None	N	None	None	S	H	None	N	H	
MW-51S	2/26/15	1240	✓				✓					11	✓						✓	✓	✓	✓	✓	✓	Cooler #2
~~FBT~~ TBZ-226/15	2/26/15		✓				✓					1		✓											Cooler #2
MW-08S	2/26/15	1450	✓				✓					2	✓												Cooler #2
MW-15S	2/26/15	1500	✓				✓					2	✓												Cooler #2
MW-100S	2/26/15	1510	✓				✓					2	✓												Cooler #2
BW-1	2/26/15	1520	✓				✓					2	✓												Cooler #2
MW-103	2/26/15	1550	✓				✓					12	✓	✓	✓	✓	✓	✓							Cooler #2

For Lab Use Only: SF #: _____ SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Danielle Rice	2/26/15	1550			
			Received by:	2/27/15	1627

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.3-7.6 °C

See Attached COC "COPY" for more signature records. LF 3/2/15

Environmental Analysis Request/Chain of Custody

COPY

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1541818 Sample # 7787841-47

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Daniell Rice	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: **1400 North Royal St., Alexandria, VA**	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Matrix: Sediment	Matrix: Potable Water	Matrix: Ground Water	Matrix: NPDES	Matrix: Surface Water	Matrix: Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B)	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B)	TPH-GRO C6-C10 (SW-846 8015B)	PAHs by SIM (SW-846 8270C SIM)	HEM Oil and Grease (EPA 1664A)	Turbidity (SM 2130B)	Alkalinity (SM 2320B)	Nitrate NO3 -1 (EPA 353.2)	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997)	Sulfate SO42- (EPA 300.0)	Manganese Mn2+ (EPA 6010B)	Methane (RSKSOP-175 modified)	Remarks
													H	H	H	None	N	None	None	S	H	None	N	H	
MW-51S	2/26/15	1240	✓	✓			✓					11	✓						✓	✓	✓	✓	✓	✓	Cooler #2
~~FBT~~ TB2-22615	2/26/15		✓	✓			✓					1		✓											Cooler #2
MW-08S	2/26/15	1450	✓	✓			✓					2	✓												Cooler #2
MW-15S	2/26/15	1500	✓	✓			✓					2	✓												Cooler #2
MW-10DS	2/26/15	1510	✓	✓			✓					2	✓												Cooler #2
BW-1	2/26/15	1520	✓	✓			✓					2	✓												Cooler #2
MW-103	2/26/15	1550	✓	✓			✓					12	✓	✓	✓	✓	✓	✓							Cooler #2

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Daniell Rice	2/26/15	1550	Denise Woodring	2-27-15	0930
Denise Woodring	2-27-15	10:05		2-27-15	1005
	2-27-15	1627			
			See Original COC LF 3/2/15		

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/27/2015 16:27
Number of Packages:	4	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 18:13 on 02/27/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.6	DT	Wet	Y	Loose	N
2	DT121	3.6	DT	Wet	Y	Bagged	N
3	DT121	0.7	DT	Wet	Y	Loose	N
4	DT121	0.3	DT	Wet	Y	Loose/Bag	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.co

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

March 13, 2015

Project: NRG PRGS

Submittal Date: 02/27/2015
Group Number: 1541817
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-113 Grab Groundwater	7787830
MW-111 Grab Groundwater	7787831
MW-112 Grab Groundwater	7787832
MW-110S Grab Groundwater	7787833
MW-110 Grab Groundwater	7787834
MW-109 Grab Groundwater	7787835
MW-114 Grab Groundwater	7787836
MW-112S Grab Groundwater	7787837
MW-109S Grab Groundwater	7787838
Rinsate-22615 Grab Water	7787839
TB3-22615 Water	7787840

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution
ELECTRONIC COPY TO	GES	Attn: Greg Reichart

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: MW-113 Grab Groundwater
NRG PRGS

LL Sample # WW 7787830
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 13:00 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP113

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	90	J	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620002A	03/05/2015 07:06	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620002A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-111 Grab Groundwater
NRG PRGS

LL Sample # WW 7787831
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 13:20 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP111

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	260	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620002A	03/05/2015 07:29	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620002A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-112 Grab Groundwater
NRG PRGS

LL Sample # WW 7787832
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 13:35 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP112

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620002A	03/05/2015 07:52	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620002A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-110S Grab Groundwater
NRG PRGS

LL Sample # WW 7787833
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 13:50 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

N110S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	6,700	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620002A	03/05/2015 08:15	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620002A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-110 Grab Groundwater
NRG PRGS

LL Sample # WW 7787834
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 14:00 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP110

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/04/2015 23:03	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-109 Grab Groundwater
NRG PRGS

LL Sample # WW 7787835
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 14:15 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP109

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	100	J	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150700009A	03/12/2015 16:11	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	150700009A	03/11/2015 22:00	David V Hershey Jr	1

Sample Description: MW-114 Grab Groundwater
NRG PRGS

LL Sample # WW 7787836
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 14:30 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
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Odenton MD 21113

NP114

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	0.102	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	42.7	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	1.7	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	68.0	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	0.016 J	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150700031A	03/12/2015 00:42	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/04/2015 23:49	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150621848002	03/06/2015 14:45	Katlin N Cataldi	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150621848002	03/04/2015 21:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15059667901A	02/28/2015 11:50	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15067106101A	03/08/2015 22:49	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105103A	02/27/2015 20:26	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004203A	03/03/2015 20:34	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15059834401A	02/28/2015 07:05	Daniel S Smith	1

Sample Description: MW-112S Grab Groundwater
NRG PRGS

LL Sample # WW 7787837
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 14:50 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

N112S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	0.649	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	86.7	3.0	10
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	2.3	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	13.3	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	0.029 J	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150700031A	03/12/2015 01:01	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/05/2015 00:12	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150621848002	03/06/2015 14:49	Katlin N Cataldi	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150621848002	03/04/2015 21:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15059667901A	02/28/2015 12:19	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15067106101A	03/08/2015 22:50	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105103A	02/27/2015 20:30	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004202A	03/03/2015 17:07	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15059834401A	02/28/2015 07:05	Daniel S Smith	1

Sample Description: MW-109S Grab Groundwater
NRG PRGS

LL Sample # WW 7787838
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:15 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

N109S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	140	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,800	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	2.64	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	55.4	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	196	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	3.1	0.20	20

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150700031A	03/12/2015 01:21	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/05/2015 00:35	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150621848002	03/06/2015 14:52	Katlin N Cataldi	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150621848002	03/04/2015 21:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15059667901A	02/28/2015 12:04	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15067106101A	03/08/2015 22:52	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105103A	02/27/2015 20:31	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004202A	03/03/2015 18:11	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15059834401A	02/28/2015 07:05	Daniel S Smith	20

Sample Description: Rinsate-22615 Grab Water
NRG PRGS

LL Sample # WW 7787839
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:55 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

R2261

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: Rinsate-22615 Grab Water
NRG PRGS

LL Sample # WW 7787839
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:55 by JP

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

R2261

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 15:07	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 15:07	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15063WAA026	03/05/2015 18:22	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15063WAA026	03/04/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15062A20A	03/04/2015 11:27	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15062A20A	03/04/2015 11:27	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620003A	03/05/2015 00:58	Lisa A Reinert	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620003A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15062807901A	03/03/2015 09:15	Yolunder Y Bunch	1

Sample Description: TB3-22615 Water
NRG PRGS

LL Sample # WW 7787840
LL Group # 1541817
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015

Submitted: 02/27/2015 16:27
Reported: 03/13/2015 17:06

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

T2216

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 15:29	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 15:29	Anita M Dale	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541817
Reported: 03/13/2015 17:06

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F150611AA	Sample number(s): 7787839-7787840							
Benzene	N.D.	0.5	ug/l	93	92	78-120	1	30
t-Butyl alcohol	N.D.	2.	ug/l	98	97	78-121	1	30
1,2-Dibromoethane	N.D.	0.5	ug/l	95	90	80-120	5	30
1,2-Dichloroethane	N.D.	0.5	ug/l	95	93	72-127	3	30
Ethylbenzene	N.D.	0.5	ug/l	92	91	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96	96	75-120	0	30
Toluene	N.D.	0.5	ug/l	96	96	80-120	0	30
Xylene (Total)	N.D.	0.5	ug/l	91	91	80-120	1	30
Batch number: 15063WAA026	Sample number(s): 7787839							
Acenaphthene	N.D.	0.010	ug/l	88	91	76-139	3	30
Acenaphthylene	N.D.	0.010	ug/l	88	90	67-120	3	30
Anthracene	N.D.	0.010	ug/l	95	100	72-128	5	30
Benzo(a)anthracene	N.D.	0.010	ug/l	90	96	71-127	7	30
Benzo(a)pyrene	N.D.	0.010	ug/l	77	95	64-132	21	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	84	102	71-139	19	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	55	94	49-140	53*	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	74	99	63-136	30	30
Chrysene	N.D.	0.010	ug/l	78	94	72-132	19	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	48	85	37-142	55*	30
Fluoranthene	N.D.	0.010	ug/l	96	102	76-121	6	30
Fluorene	N.D.	0.010	ug/l	90	94	71-124	5	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	59	92	45-136	43*	30
1-Methylnaphthalene	N.D.	0.010	ug/l	79	79	65-122	0	30
2-Methylnaphthalene	N.D.	0.010	ug/l	78	78	59-124	0	30
Naphthalene	N.D.	0.030	ug/l	82	81	69-119	1	30
Phenanthrene	N.D.	0.030	ug/l	90	96	75-121	7	30
Pyrene	N.D.	0.010	ug/l	85	93	70-124	9	30
Batch number: 15062A20A	Sample number(s): 7787839							
TPH-GRO water C6-C10	N.D.	20.	ug/l	112	113	80-129	1	30
Batch number: 150700031A	Sample number(s): 7787836-7787838							
Methane	N.D.	3.0	ug/l	99		85-115		
Batch number: 150620002A	Sample number(s): 7787830-7787833							
DRO C10-C28	N.D.	45.	ug/l	79	81	69-115	3	20
Batch number: 150620003A	Sample number(s): 7787834,7787836-7787839							
DRO C10-C28	89 J	45.	ug/l	87	88	69-115	0	20
Batch number: 150700009A	Sample number(s): 7787835							
DRO C10-C28	N.D.	45.	ug/l	84	90	69-115	9	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541817
Reported: 03/13/2015 17:06

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 150621848002	Sample number(s): 7787836-7787838							
Manganese	N.D.	0.00083	mg/l	98		80-120		
Batch number: 15058105103A	Sample number(s): 7787836-7787838							
Nitrite Nitrogen	N.D.	0.015	mg/l	107		90-110		
Batch number: 15059667901A	Sample number(s): 7787836-7787838							
Sulfate	N.D.	0.30	mg/l	99	100	90-110	1	20
Batch number: 15067106101A	Sample number(s): 7787836-7787838							
Nitrate Nitrogen	N.D.	0.040	mg/l	102		90-110		
Batch number: 15059834401A	Sample number(s): 7787836-7787838							
Ferrous Iron	N.D.	0.010	mg/l	99		93-105		
Batch number: 15062004202A	Sample number(s): 7787837-7787838							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		
Batch number: 15062004203A	Sample number(s): 7787836							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		
Batch number: 15062807901A	Sample number(s): 7787839							
HEM (oil & grease)	N.D.	1.4	mg/l	87	87	78-114	1	16

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 150700031A	Sample number(s): 7787836-7787838 UNSPK: P798294								
Methane	89	77	46-129	13	20				
Batch number: 150621848002	Sample number(s): 7787836-7787838 UNSPK: P787878 BKG: P787878								
Manganese	87	86	75-125	0	20	1.39	1.38	1	20
Batch number: 15058105103A	Sample number(s): 7787836-7787838 UNSPK: 7787838 BKG: 7787838								
Nitrite Nitrogen	102		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15059667901A	Sample number(s): 7787836-7787838 UNSPK: P787824 BKG: P787824								
Sulfate	101		90-110			79.8	82.1	3	20
Batch number: 15067106101A	Sample number(s): 7787836-7787838 UNSPK: P787465 BKG: P787465								
Nitrate Nitrogen	103		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15059834401A	Sample number(s): 7787836-7787838 UNSPK: 7787838 BKG: 7787838								
Ferrous Iron	122*	120*	73-111	1	6	3.1	3.1	1 (1)	5
Batch number: 15062004202A	Sample number(s): 7787837-7787838 UNSPK: P788656 BKG: P788656								

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541817
Reported: 03/13/2015 17:06

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Total Alkalinity to pH 4.5	87	89	17-146	1	5	156	157	1	5
Batch number: 15062004203A	Sample number(s): 7787836 UNSPK: P788660 BKG: P788660								
Total Alkalinity to pH 4.5	95		17-146			64.6	65.4	1	5
Batch number: 15062807901A	Sample number(s): 7787839 UNSPK: P784598								
HEM (oil & grease)	75*		78-114						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC
Batch number: F150611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7787839	100	99	107	98
7787840	100	100	107	100
Blank	99	100	107	98
LCS	101	101	107	101
LCSD	98	100	107	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15063WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7787839	97	104	76
Blank	105	107	89
LCS	103	100	84
LCSD	106	119	83
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15062A20A

	Trifluorotoluene-F
7787839	88
Blank	87
LCS	92
LCSD	93
Limits:	63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 150620002A

	Orthoterphenyl
7787830	111
7787831	117
7787832	109

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541817
Reported: 03/13/2015 17:06

Surrogate Quality Control

7787833	119
Blank	115
LCS	107
LCSD	108
Limits:	42-160

Analysis Name: DRO micro-ext 8015B
Batch number: 150620003A

	Orthoterphenyl
7787834	113
7787836	112
7787837	112
7787838	91
7787839	114
Blank	112
LCS	98
LCSD	96
Limits:	42-160

Analysis Name: DRO micro-ext 8015B
Batch number: 150700009A

	Orthoterphenyl
7787835	102
Blank	125
LCS	100
LCSD	112
Limits:	42-160

Analysis Name: Methane
Batch number: 150700031A

	Propene
7787836	76
7787837	78
7787838	74
Blank	100
LCS	104
MS	72
MSD	61
Limits:	47-116

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Cooler #3

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1541817 Sample # 7787830-40

ORIGINAL

| | | |

Cooler #3

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 154/817 Sample # 7787830-40 COPY

Client: **Groundwater & Env. Services, Inc.**	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: **1400 North Royal St., Alexandria, VA**	

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water (Ground / Potable / Surface / NPDES)	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) H	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B) H	TPH-GRO C6-C10 (SW-846 8015B) H	PAHs by SIM (SW-846 8270C SIM) None	HEM Oil and Grease (EPA 1664A) N	Turbidity (SM 2130B) None	Alkalinity (SM 2320B) None	Nitrate NO3 -1 (EPA 353.2) S	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997) H	Sulfate SO42- (EPA 300.0) None	Manganese Mn2+ (EPA 6010B) N	Methane (RSKSOP-175 modified) H	Remarks
MW-113	2-26-15	1300	X				X		2	X												
MW-111		1320																				
MW-112		1335																				
MW-110S		1350																				
MW-110		1400							↓													
MW-109		1415							2													
MW-114		1430							11							X	X	X	X	X	X	
MW-112S		1450							11							X	X	X	X	X	X	
MW-109S		1515							11	↓						X	X	X	X	X	X	
Rinsate-22615	↓	1555	↓				↓		11	X	X	X	X	X		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+JP
TB3-22615	2-26-15	—	X				X		2		X											

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	2-27-15	0930	Denise Woodring	2-27-15	0930
Denise Woodring	2-27-15	10:05	[signature]	2-27-15	1005
[signature]	2-27-15	1627			
			See "Original" COC		

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

LF 3/3/15

Temperature upon receipt _____ °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 58211

Group Number(s): 1541817

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/27/2015 16:27
Number of Packages:	4	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 18:13 on 02/27/2015

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.6	DT	Wet	Y	Loose	N
2	DT121	3.6	DT	Wet	Y	Bagged	N
3	DT121	0.7	DT	Wet	Y	Loose	N
4	DT121	0.3	DT	Wet	Y	Loose/Bag	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

March 12, 2015

Project: NRG PRGS

Submittal Date: 02/27/2015
Group Number: 1541816
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TB1-022615 Water	7787823
MW-11 Grab Groundwater	7787824
MW-70 Grab Groundwater	7787825
TW-14 Grab Groundwater	7787826
MW-104 Grab Groundwater	7787827
DUP-1 Grab Groundwater	7787828
TB4-022615 Water	7787829

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution
ELECTRONIC COPY TO	GES	Attn: Greg Reichart

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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Analysis Report

Sample Description: TB1-022615 Water
NRG PRGS

LL Sample # WW 7787823
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 13:18	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 13:18	Anita M Dale	1

Sample Description: MW-11 Grab Groundwater
NRG PRGS

LL Sample # WW 7787824
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 12:35 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	200	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	920	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	1.64	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	79.8	3.0	10
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	39.0	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	0.37	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150700031A	03/12/2015 00:03	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 19:35	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150621848002	03/06/2015 14:38	Katlin N Cataldi	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150621848002	03/04/2015 21:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15059667901A	02/28/2015 15:24	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15067106101A	03/08/2015 22:47	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105103A	02/27/2015 20:23	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004203A	03/03/2015 20:28	Michele L Graham	1

Sample Description: MW-11 Grab Groundwater
NRG PRGS

LL Sample # WW 7787824
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 12:35 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15059834401A	02/28/2015 07:05	Daniel S Smith	1

Sample Description: MW-70 Grab Groundwater
NRG PRGS

LL Sample # WW 7787825
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 13:25 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,200	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	2.62	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	361	15.0	50
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.71	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	35.1	7.0	10
	Reporting limits were raised due to interference from the sample matrix.				
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	0.048 J	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150700031A	03/12/2015 00:22	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 19:58	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150621848002	03/06/2015 14:41	Katlin N Cataldi	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150621848002	03/04/2015 21:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15059667901A	02/28/2015 16:49	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	15067106101A	03/08/2015 22:48	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105103A	02/27/2015 20:25	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004202A	03/03/2015 17:02	Michele L Graham	10

Sample Description: MW-70 Grab Groundwater
NRG PRGS

LL Sample # WW 7787825
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 13:25 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

NRG03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15059834401A	02/28/2015 07:05	Daniel S Smith	1

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 7787826
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 14:40 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG04

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.012	J	0.010	1
08357	Acenaphthylene	208-96-8	0.013	J	0.010	1
08357	Anthracene	120-12-7	N.D.		0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.022	J	0.010	1
08357	Fluorene	86-73-7	0.014	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.011	J	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	N.D.		0.030	1
08357	Pyrene	129-00-0	0.022	J	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	73		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	120		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	1.8	J	1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	3,060		14.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 7787826
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 14:40 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

NRG04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 13:39	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 13:39	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15063WAA026	03/05/2015 16:59	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15063WAA026	03/04/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15062A20A	03/04/2015 13:49	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15062A20A	03/04/2015 13:49	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 20:22	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15062807901A	03/03/2015 09:15	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15058121453B	02/27/2015 19:30	Luz M Groff	100

Sample Description: MW-104 Grab Groundwater
NRG PRGS

LL Sample # WW 7787827
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:50 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.13		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	N.D.		0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.012	J	0.010	1
08357	Fluorene	86-73-7	0.024	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.034	J	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.032	J	0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	N.D.		0.030	1
08357	Pyrene	129-00-0	0.018	J	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	N.D.		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.		1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	410		2.8	20

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-104 Grab Groundwater
NRG PRGS

LL Sample # WW 7787827
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 15:50 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 14:01	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 14:01	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15063WAA026	03/05/2015 17:26	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15063WAA026	03/04/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15062A20A	03/04/2015 14:17	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15062A20A	03/04/2015 14:17	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 20:45	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15062807901A	03/03/2015 09:15	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15058121453B	02/27/2015 19:30	Luz M Groff	20

Sample Description: DUP-1 Grab Groundwater
NRG PRGS

LL Sample # WW 7787828
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 16:10 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.11		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	N.D.		0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	N.D.		0.010	1
08357	Fluorene	86-73-7	0.012	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.015	J	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.019	J	0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	N.D.		0.030	1
08357	Pyrene	129-00-0	0.016	J	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	N.D.		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.		1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: DUP-1 Grab Groundwater
NRG PRGS

LL Sample # WW 7787828
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015 16:10 by LK

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 14:23	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 14:23	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15063WAA026	03/05/2015 17:54	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15063WAA026	03/04/2015 18:30	Nicholas W Shroyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15062A20A	03/04/2015 14:45	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15062A20A	03/04/2015 14:45	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620002A	03/05/2015 06:43	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620002A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15062807901A	03/03/2015 09:15	Yolunder Y Bunch	1

Sample Description: TB4-022615 Water
NRG PRGS

LL Sample # WW 7787829
LL Group # 1541816
Account # 08390

Project Name: NRG PRGS

Collected: 02/26/2015

Submitted: 02/27/2015 16:27
Reported: 03/12/2015 15:17

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	F150611AA	03/02/2015 14:45	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F150611AA	03/02/2015 14:45	Anita M Dale	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541816
Reported: 03/12/2015 15:17

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F150611AA	Sample number(s): 7787823,7787826-7787829							
Benzene	N.D.	0.5	ug/l	93	92	78-120	1	30
t-Butyl alcohol	N.D.	2.	ug/l	98	97	78-121	1	30
1,2-Dibromoethane	N.D.	0.5	ug/l	95	90	80-120	5	30
1,2-Dichloroethane	N.D.	0.5	ug/l	95	93	72-127	3	30
Ethylbenzene	N.D.	0.5	ug/l	92	91	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96	96	75-120	0	30
Toluene	N.D.	0.5	ug/l	96	96	80-120	0	30
Xylene (Total)	N.D.	0.5	ug/l	91	91	80-120	1	30
Batch number: 15063WAA026	Sample number(s): 7787826-7787828							
Acenaphthene	N.D.	0.010	ug/l	88	91	76-139	3	30
Acenaphthylene	N.D.	0.010	ug/l	88	90	67-120	3	30
Anthracene	N.D.	0.010	ug/l	95	100	72-128	5	30
Benzo(a)anthracene	N.D.	0.010	ug/l	90	96	71-127	7	30
Benzo(a)pyrene	N.D.	0.010	ug/l	77	95	64-132	21	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	84	102	71-139	19	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	55	94	49-140	53*	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	74	99	63-136	30	30
Chrysene	N.D.	0.010	ug/l	78	94	72-132	19	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	48	85	37-142	55*	30
Fluoranthene	N.D.	0.010	ug/l	96	102	76-121	6	30
Fluorene	N.D.	0.010	ug/l	90	94	71-124	5	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	59	92	45-136	43*	30
1-Methylnaphthalene	N.D.	0.010	ug/l	79	79	65-122	0	30
2-Methylnaphthalene	N.D.	0.010	ug/l	78	78	59-124	0	30
Naphthalene	N.D.	0.030	ug/l	82	81	69-119	1	30
Phenanthrene	N.D.	0.030	ug/l	90	96	75-121	7	30
Pyrene	N.D.	0.010	ug/l	85	93	70-124	9	30
Batch number: 15062A20A	Sample number(s): 7787826-7787828							
TPH-GRO water C6-C10	N.D.	20.	ug/l	112	113	80-129	1	30
Batch number: 150700031A	Sample number(s): 7787824-7787825							
Methane	N.D.	3.0	ug/l	99		85-115		
Batch number: 150620001A	Sample number(s): 7787824-7787827							
DRO C10-C28	N.D.	45.	ug/l	75		69-115		
Batch number: 150620002A	Sample number(s): 7787828							
DRO C10-C28	N.D.	45.	ug/l	79	81	69-115	3	20
Batch number: 150621848002	Sample number(s): 7787824-7787825							
Manganese	N.D.	0.00083	mg/l	98		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541816
Reported: 03/12/2015 15:17

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15058105103A	Sample number(s): 7787824-7787825							
Nitrite Nitrogen	N.D.	0.015	mg/l	107		90-110		
Batch number: 15059667901A	Sample number(s): 7787824-7787825							
Sulfate	N.D.	0.30	mg/l	99	100	90-110	1	20
Batch number: 15067106101A	Sample number(s): 7787824-7787825							
Nitrate Nitrogen	N.D.	0.040	mg/l	102		90-110		
Batch number: 15058121453B	Sample number(s): 7787826-7787827							
Turbidity	0.15 J	0.14	N T U	96		90-110		
Batch number: 15059834401A	Sample number(s): 7787824-7787825							
Ferrous Iron	N.D.	0.010	mg/l	99		93-105		
Batch number: 15062004202A	Sample number(s): 7787825							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		
Batch number: 15062004203A	Sample number(s): 7787824							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		
Batch number: 15062807901A	Sample number(s): 7787826-7787828							
HEM (oil & grease)	N.D.	1.4	mg/l	87	87	78-114	1	16

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 150700031A	Sample number(s): 7787824-7787825 UNSPK: P798294								
Methane	89	77	46-129	13	20				
Batch number: 150620001A	Sample number(s): 7787824-7787827 UNSPK: P786543								
DRO C10-C28	251*	193*	47-129	21*	20				
Batch number: 150621848002	Sample number(s): 7787824-7787825 UNSPK: P787878 BKG: P787878								
Manganese	87	86	75-125	0	20	1.39	1.38	1	20
Batch number: 15058105103A	Sample number(s): 7787824-7787825 UNSPK: P787838 BKG: P787838								
Nitrite Nitrogen	102		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15059667901A	Sample number(s): 7787824-7787825 UNSPK: 7787824 BKG: 7787824								
Sulfate	101		90-110			79.8	82.1	3	20
Batch number: 15067106101A	Sample number(s): 7787824-7787825 UNSPK: P787465 BKG: P787465								
Nitrate Nitrogen	103		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15058121453B	Sample number(s): 7787826-7787827 BKG: P787031								

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541816
Reported: 03/12/2015 15:17

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Turbidity						35.6	34.9	2	8
Batch number: 15059834401A	Sample number(s): 7787824-7787825 UNSPK: P787838 BKG: P787838								
Ferrous Iron	122*	120*	73-111	1	6	3.1	3.1	1 (1)	5
Batch number: 15062004202A	Sample number(s): 7787825 UNSPK: P788656 BKG: P788656								
Total Alkalinity to pH 4.5	87	89	17-146	1	5	156	157	1	5
Batch number: 15062004203A	Sample number(s): 7787824 UNSPK: P788660 BKG: P788660								
Total Alkalinity to pH 4.5	95		17-146			64.6	65.4	1	5
Batch number: 15062807901A	Sample number(s): 7787826-7787828 UNSPK: P784598								
HEM (oil & grease)	75*		78-114						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC
Batch number: F150611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7787823	99	96	106	97
7787826	101	101	107	100
7787827	100	100	107	98
7787828	102	98	106	100
7787829	100	99	107	100
Blank	99	100	107	98
LCS	101	101	107	101
LCSD	98	100	107	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15063WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7787826	95	69	92
7787827	93	63	75
7787828	87	43	76
Blank	105	107	89
LCS	103	100	84
LCSD	106	119	83
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15062A20A

	Trifluorotoluene-F
7787826	88

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541816
Reported: 03/12/2015 15:17

Surrogate Quality Control

7787827	84
7787828	85
Blank	87
LCS	92
LCSD	93
Limits:	63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 150620001A

	Orthoterphenyl
7787824	116
7787825	77
7787826	65
7787827	112
Blank	104
LCS	107
MS	103
MSD	108
Limits:	42-160

Analysis Name: DRO micro-ext 8015B
Batch number: 150620002A

	Orthoterphenyl
7787828	107
Blank	115
LCS	107
LCSD	108
Limits:	42-160

Analysis Name: Methane
Batch number: 150700031A

	Propene
7787824	77
7787825	75
Blank	100
LCS	104
MS	72
MSD	61
Limits:	47-116

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

ORIGINAL

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 154816 Sample # 787823-29

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Lindsay Keeney	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other: Trip Blank	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) H	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B) H	TPH-GRO C6-C10 (SW-846 8015B) H	PAHs by SIM (SW-846 8270C SIM) None	HEM Oil and Grease (EPA 1664A) N	Turbidity (SM 2130B) None	Alkalinity (SM 2320B) None	Nitrate NO3 -1 (EPA 353.2) S	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997) H	Sulfate SO42- (EPA 300.0) None	Manganese Mn2+ (EPA 6010B) N	Methane (RSKSOP-175 modified) H	Remarks
TB1-022615	2-26-15										X	1		X											Cooler 1
MW-11	2-26-15	1235	X				X					11	*						X	X	X	X	X	X	Cooler 1
MW-70	2-26-15	1325	X				X					11	*						X	X	X	X	X	X	Cooler 1
TW-14	2-26-15	1440	X				X					12	X	X	X	X	X	X							Cooler 1
MW-104	2-26-15	1550	X				X					12	X	X	X	X	X	X							Cooler 1
DUP-1	2-26-15	1610	X				X					12	X	X	X	X	X								Cooler 4
TB4-022615	2-26-15										X	1		X											Cooler 4

Analyses Requested — Preservation Codes

For Lab Use Only: SF #: _____ SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Remarks: out of total of 4 coolers 2/26/15

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS, *Lab report* #.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
	2-27-15	0800			
				2/27/15	1627

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.3-3.6 °C

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7045 0614

* DRO added to MW-11 and MW-70 per G. Reichart. LF 3/2/15

See Attached "COPY" for other signatures. LF 3/2/15

COPY

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1541816 Sample # 787823-29

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Lindsay Keeney	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other: Trip Blank	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) H	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B) H	TPH-GRO C6-C10 (SW-846 8015B) H	PAHs by SIM (SW-846 8270C SIM) None	HEM Oil and Grease (EPA 1664A) N	Turbidity (SM 2130B) None	Alkalinity (SM 2320B) None	Nitrate NO3 -1 (EPA 353.2) S	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997) H	Sulfate SO42- (EPA 300.0) None	Manganese Mn2+ (EPA 6010B) N	Methane (RSKSOP-175 modified) H	Remarks
TB1-022615	2-26-15										X	1		X											Cooler 1
MW-11	2-26-15	1235	X				X					11	*						X	X	X	X	X	X	Cooler 1
MW-70	2-26-15	1325	X				X					11	*						X	X	X	X	X	X	Cooler 1
TW-14	2-26-15	1440	X				X					12	X	X	X	X	X	X							Cooler 1
MW-104	2-26-15	1550	X				X					12	X	X	X	X	X	X							Cooler 1
DUP-1	2-26-15	1610	X				X					12	X	X	X	X	X								Cooler 4
TB4-022615	2-26-15										X	1		X											Cooler 4
																									out of
																									total of
																									4 coolers
																									2/26/15

Analyses Requested — Preservation Codes

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	2-27-15	0800	Denise Woodring	2-27-15	0800
Denise Woodring	2-27-15	10:05	[signature]	2-27-15	1005
[signature]	2-27-15	1627			
Relinquished by Commercial Carrier:			See original. LF 3/2/15		

UPS _____ FedEx _____ Other _____

Temperature upon receipt _____ °C

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7045 0614

* DRO added to MW-11 and MW-70 per G. Reichart. LF 3/2/15

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Sample Administration Receipt Documentation Log

Doc Log ID: 58211

Group Number(s): 1541816

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/27/2015 16:27
Number of Packages:	4	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 18:13 on 02/27/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.6	DT	Wet	Y	Loose	N
2	DT121	3.6	DT	Wet	Y	Bagged	N
3	DT121	0.7	DT	Wet	Y	Loose	N
4	DT121	0.3	DT	Wet	Y	Loose/Bag	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.co

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

March 13, 2015

Project: NRG PRGS

Submittal Date: 02/26/2015
Group Number: 1541476
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-72 Grab Groundwater	7786541
MW-33 Grab Groundwater	7786542
MW-31 Grab Groundwater	7786543
MW-31 MS Grab Groundwater	7786544
MW-31 MSD Grab Groundwater	7786545
TB2-022515 Water	7786546
TB4-022515 Water	7786547

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution
ELECTRONIC COPY TO	GES	Attn: Greg Reichart

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: MW-72 Grab Groundwater
NRG PRGS

LL Sample # WW 7786541
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 12:38 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP072

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	8		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	3		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	N.D.		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.016	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.013	J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.020	J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.018	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.023	J	0.010	1
08357	Fluorene	86-73-7	0.016	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.053		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.078		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	N.D.		0.030	1
08357	Pyrene	129-00-0	0.041	J	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	65		20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	490		3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	590		45	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	18.8		0.0042	5
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	
00228	Sulfate	14808-79-8	396		15.0	50
	EPA 353.2		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	1

Sample Description: MW-72 Grab Groundwater
NRG PRGS

LL Sample # WW 7786541
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 12:38 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP072

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	2.3 J	1.4	1
	SM 2130 B-2001		**N T U**	**N T U**	
12145	Turbidity	n.a.	224	1.4	10
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	72.7	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	4.8	0.50	50

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 14:12	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 14:12	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/04/2015 20:42	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 16:08	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 16:08	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	150680021A	03/09/2015 16:17	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 17:40	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150611848001	03/03/2015 16:50	Suzanne M Will	5
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150611848001	03/02/2015 22:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15058667601B	02/27/2015 17:16	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	15058106102A	02/27/2015 19:12	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105102A	02/27/2015 03:34	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15058807901A	02/27/2015 17:24	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15057121452A	02/26/2015 20:40	Luz M Groff	10

Sample Description: MW-72 Grab Groundwater
NRG PRGS

LL Sample # WW 7786541
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 12:38 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP072

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004203A	03/03/2015 21:29	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15057834401A	02/26/2015 19:35	Daniel S Smith	50

Sample Description: MW-33 Grab Groundwater
NRG PRGS

LL Sample # WW 7786542
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 13:40 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP033

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	0.012	J	0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.018	J	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	N.D.		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.022	J	0.010	1
08357	Fluorene	86-73-7	0.035	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.052		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.040	J	0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	0.042	J	0.030	1
08357	Pyrene	129-00-0	0.036	J	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	9.8		3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	N.D.		45	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	1.23		0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	
00228	Sulfate	14808-79-8	235		15.0	50
	EPA 353.2		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	2.5		0.040	1

Sample Description: MW-33 Grab Groundwater
NRG PRGS

LL Sample # WW 7786542
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 13:40 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP033

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.6 J	1.4	1
	SM 2130 B-2001		**N T U**	**N T U**	
12145	Turbidity	n.a.	268	1.4	10
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	55.6	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	0.030 J	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 14:36	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 14:36	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/04/2015 21:09	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 16:36	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 16:36	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	150680021A	03/09/2015 16:35	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 18:03	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150611848001	03/03/2015 06:33	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150611848001	03/02/2015 22:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15058667601B	02/27/2015 17:32	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	15058106102A	02/27/2015 19:13	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105102A	02/27/2015 03:27	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15058807901A	02/27/2015 17:24	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15057121452A	02/26/2015 20:40	Luz M Groff	10

Sample Description: MW-33 Grab Groundwater
NRG PRGS

LL Sample # WW 7786542
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 13:40 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP033

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004203A	03/03/2015 21:43	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15057834401A	02/26/2015 19:35	Daniel S Smith	1

Sample Description: MW-31 Grab Groundwater
NRG PRGS

LL Sample # WW 7786543
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 15:25 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP031

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	2.6	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	1.0	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.71	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.45	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.56	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.18	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.20	0.010	1
08357	Chrysene	218-01-9	0.59	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.053	0.010	1
08357	Fluoranthene	206-44-0	2.6	0.010	1
08357	Fluorene	86-73-7	5.3	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.17	0.010	1
08357	1-Methylnaphthalene	90-12-0	12	0.052	5
08357	2-Methylnaphthalene	91-57-6	2.8	0.010	1
08357	Naphthalene	91-20-3	2.7	0.031	1
08357	Phenanthrene	85-01-8	2.5	0.031	1
08357	Pyrene	129-00-0	2.7	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	97	20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	5,000	60	20
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,800	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	9.84	0.0017	2
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	69.7	3.0	10
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1

Sample Description: MW-31 Grab Groundwater
NRG PRGS

LL Sample # WW 7786543
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 15:25 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP031

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 353.2**		**mg/l**	**mg/l**	
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.8 J	1.4	1
	SM 2130 B-2001		**N T U**	**N T U**	
12145	Turbidity	n.a.	175	0.70	5
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	487	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	9.3	0.50	50

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 09:01	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 09:01	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/04/2015 21:37	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/05/2015 16:31	Holly B Ziegler	5
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 12:25	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 12:25	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	150680021A	03/10/2015 17:57	Matthew S Listner	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 18:27	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150611848001	03/03/2015 16:54	Suzanne M Will	2
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150611848001	03/02/2015 22:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15058667601B	02/28/2015 08:27	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15058106102A	02/27/2015 19:14	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105102A	02/27/2015 03:28	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15058807901A	02/27/2015 17:24	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15057121452A	02/26/2015 20:40	Luz M Groff	5

Sample Description: MW-31 Grab Groundwater
NRG PRGS

LL Sample # WW 7786543
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 15:25 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP031

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004203A	03/03/2015 21:37	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15057834401A	02/26/2015 19:35	Daniel S Smith	50

Sample Description: MW-31 MS Grab Groundwater
NRG PRGS

LL Sample # WW 7786544
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:10 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP031

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	20	0.5	1
10945	t-Butyl alcohol	75-65-0	200	2	1
10945	1,2-Dibromoethane	106-93-4	19	0.5	1
10945	1,2-Dichloroethane	107-06-2	20	0.5	1
10945	Ethylbenzene	100-41-4	20	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	19	0.5	1
10945	Toluene	108-88-3	20	0.5	1
10945	Xylene (Total)	1330-20-7	59	0.5	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,100	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	8,600	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 09:25	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 09:25	Anita M Dale	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 12:53	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 12:53	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 18:50	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-31 MSD Grab Groundwater
NRG PRGS

LL Sample # WW 7786545
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:10 by LK

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP031

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	21	0.5	1
10945	t-Butyl alcohol	75-65-0	210	2	1
10945	1,2-Dibromoethane	106-93-4	19	0.5	1
10945	1,2-Dichloroethane	107-06-2	20	0.5	1
10945	Ethylbenzene	100-41-4	21	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	19	0.5	1
10945	Toluene	108-88-3	20	0.5	1
10945	Xylene (Total)	1330-20-7	62	0.5	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,300	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	7,000	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 09:49	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 09:49	Anita M Dale	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 13:21	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 13:21	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 19:13	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: TB2-022515 Water
NRG PRGS

LL Sample # WW 7786546
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 12:20

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

TB222

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 11:48	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 11:48	Anita M Dale	1

Sample Description: TB4-022515 Water
NRG PRGS

LL Sample # WW 7786547
LL Group # 1541476
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 14:20

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:23

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

TB422

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 08:37	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 08:37	Anita M Dale	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541476
Reported: 03/13/2015 12:23

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z150611AA	Sample number(s): 7786541-7786547							
Benzene	N.D.	0.5	ug/l	99		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	105		78-121		
1,2-Dibromoethane	N.D.	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	98		72-127		
Ethylbenzene	N.D.	0.5	ug/l	101		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97		75-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
Xylene (Total)	N.D.	0.5	ug/l	102		80-120		
Batch number: 15061WAL026	Sample number(s): 7786541-7786543							
Acenaphthene	N.D.	0.010	ug/l	93	84	76-139	9	30
Acenaphthylene	N.D.	0.010	ug/l	94	86	67-120	8	30
Anthracene	N.D.	0.010	ug/l	100	93	72-128	8	30
Benzo(a)anthracene	N.D.	0.010	ug/l	94	89	71-127	6	30
Benzo(a)pyrene	N.D.	0.010	ug/l	93	88	64-132	5	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	101	98	71-139	3	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	99	95	49-140	3	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	93	88	63-136	5	30
Chrysene	N.D.	0.010	ug/l	94	90	72-132	5	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	90	83	37-142	8	30
Fluoranthene	N.D.	0.010	ug/l	97	91	76-121	6	30
Fluorene	N.D.	0.010	ug/l	96	89	71-124	7	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	93	89	45-136	4	30
1-Methylnaphthalene	N.D.	0.010	ug/l	83	75	65-122	10	30
2-Methylnaphthalene	N.D.	0.010	ug/l	84	77	59-124	9	30
Naphthalene	N.D.	0.030	ug/l	86	78	69-119	9	30
Phenanthrene	N.D.	0.030	ug/l	95	89	75-121	7	30
Pyrene	N.D.	0.010	ug/l	92	86	70-124	7	30
Batch number: 15061A20A	Sample number(s): 7786541-7786545							
TPH-GRO water C6-C10	N.D.	20.	ug/l	116		80-129		
Batch number: 150680021A	Sample number(s): 7786541-7786543							
Methane	N.D.	3.0	ug/l	104		85-115		
Batch number: 150620001A	Sample number(s): 7786541-7786545							
DRO C10-C28	N.D.	45.	ug/l	75		69-115		
Batch number: 150611848001	Sample number(s): 7786541-7786543							
Manganese	N.D.	0.00083	mg/l	101		80-120		
Batch number: 15058105102A	Sample number(s): 7786541-7786543							
Nitrite Nitrogen	N.D.	0.015	mg/l	108		90-110		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541476
Reported: 03/13/2015 12:23

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15058106102A	Sample number(s): 7786541-7786543							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		90-110		
Batch number: 15058667601B	Sample number(s): 7786541-7786543							
Sulfate	N.D.	0.30	mg/l	96	98	90-110	1	20
Batch number: 15057121452A	Sample number(s): 7786541-7786543							
Turbidity	N.D.	0.14	N T U	93		90-110		
Batch number: 15057834401A	Sample number(s): 7786541-7786543							
Ferrous Iron	N.D.	0.010	mg/l	99		93-105		
Batch number: 15058807901A	Sample number(s): 7786541-7786543							
HEM (oil & grease)	N.D.	1.4	mg/l	80	84	78-114	4	16
Batch number: 15062004203A	Sample number(s): 7786541-7786543							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z150611AA	Sample number(s): 7786541-7786547 UNSPK: 7786543								
Benzene	102	103	72-134	1	30				
t-Butyl alcohol	101	103	67-119	2	30				
1,2-Dibromoethane	96	97	77-116	1	30				
1,2-Dichloroethane	98	99	63-142	1	30				
Ethylbenzene	101	104	71-134	3	30				
Methyl Tertiary Butyl Ether	96	96	72-126	0	30				
Toluene	100	102	80-125	2	30				
Xylene (Total)	99	103	79-125	4	30				
Batch number: 15061A20A	Sample number(s): 7786541-7786545 UNSPK: 7786543								
TPH-GRO water C6-C10	92	110	75-135	17	30				
Batch number: 150680021A	Sample number(s): 7786541-7786543 UNSPK: 7786543								
Methane	-1173 (2)	-799 (2)	46-129	5	20				
Batch number: 150620001A	Sample number(s): 7786541-7786545 UNSPK: 7786543								
DRO C10-C28	251*	193*	47-129	21*	20				
Batch number: 150611848001	Sample number(s): 7786541-7786543 UNSPK: P788267 BKG: P788267								
Manganese	101	100	75-125	0	20	0.233	0.238	2	20
Batch number: 15058105102A	Sample number(s): 7786541-7786543 UNSPK: 7786543 BKG: 7786543								
Nitrite Nitrogen	110		90-110			N.D.	N.D.	0 (1)	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541476
Reported: 03/13/2015 12:23

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15058106102A	Sample number(s): 7786541-7786543 UNSPK: 7786543 BKG: 7786543								
Nitrate Nitrogen	97		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15058667601B	Sample number(s): 7786541-7786543 UNSPK: 7786543 BKG: 7786543								
Sulfate	94		90-110			69.7	68.9	1	20
Batch number: 15057121452A	Sample number(s): 7786541-7786543 BKG: 7786541								
Turbidity						224	222	1	8
Batch number: 15057834401A	Sample number(s): 7786541-7786543 UNSPK: P786531 BKG: P786531								
Ferrous Iron	96	98	73-111	1	6	2.5	2.6	4	5
Batch number: 15058807901A	Sample number(s): 7786541-7786543 UNSPK: P786579								
HEM (oil & grease)	77*		78-114						
Batch number: 15062004203A	Sample number(s): 7786541-7786543 UNSPK: P788660 BKG: P788660								
Total Alkalinity to pH 4.5	95		17-146			64.6	65.4	1	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC
Batch number: Z150611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7786541	100	97	99	98
7786542	101	97	100	97
7786543	102	99	99	98
7786544	101	100	99	99
7786545	100	101	100	99
7786546	102	99	99	96
7786547	102	98	100	97
Blank	102	99	99	97
LCS	101	99	100	100
MS	101	100	99	99
MSD	100	101	100	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15061WAL026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7786541	74	72	81
7786542	93	35	78
7786543	120	86	102
Blank	100	108	86
LCS	98	112	85

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541476
Reported: 03/13/2015 12:23

Surrogate Quality Control

LCSD	92	105	77
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15061A20A

	Trifluorotoluene-F
7786541	87
7786542	86
7786543	87
7786544	90
7786545	91
Blank	87
LCS	92
MS	90
MSD	91
Limits:	63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 150620001A

	Orthoterphenyl
7786541	113
7786542	112
7786543	120
7786544	103
7786545	108
Blank	104
LCS	107
MS	103
MSD	108
Limits:	42-160

Analysis Name: Methane
Batch number: 150680021A

	Propene
7786541	74
7786542	82
7786543	77
Blank	101
LCS	103
MS	72
MSD	76
Limits:	47-116

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

ORIGINAL

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 154/476 Sample # 7786541-47

Client: **Groundwater & Env. Services, Inc.**	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Lindsay Keeney	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: **1400 North Royal St., Alexandria, VA**	

Matrix: Soil ☐ Sediment ☐ Water ☒ (Potable ☐ Ground ☒ NPDES ☐ Surface ☐) Other: Trip Blank

Sample Identification	Collection Date	Collection Time	Grab	Composite	Total # of Containers
MW-72	2-25-15	1238	X		20
MW-33	2-25-15	1340	X		20
MW-31	2-25-15	1525	X		20
MS/MSD *	2-25-15	1610	X		21
TB2-022515	2-25-15	1220			1
TB4-022515	2-25-15	1420			1
* MS/MSD were collected from MW-31 per D. Drennan. LF 3/2/15					

Analyses Requested — Preservation Codes

TPH-DRO C10-C28 (SW-846 8015B)	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B)	TPH-GRO C6-C10 (SW-846 8015B)	PAHs by SIM (SW-846 8270C SIM)	HEM Oil and Grease (EPA 1664A)	Turbidity (SM 2130B)	Alkalinity (SM 2320B)	Nitrate NO3 -1 (EPA 353.2)	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997)	Sulfate SO42- (EPA 300.0)	Manganese Mn2+ (EPA 6010B)	Methane (RSKSOP-175 modified)
H	H	H	None	N	None	None	S	H	None	N	H

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Remarks:
Cooler 2 2/25/15
Cooler 2 2/25/15
Cooler 4 2/25/15
Cooler 4 2/25/15
Cooler 2 2/25/15
Cooler H 2/25/15
Out @
5 coolers for day 2-25-15

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report* #.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	2-26-15	0800			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	2/26/15	1615

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.2 0.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 57933

Group Number(s): 1541476

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/26/2015 16:15
Number of Packages:	5	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:03 on 02/26/2015

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.9	DT	Wet	Y	Loose	N
2	DT121	0.3	DT	Wet	Y	Loose	N
3	DT121	0.2	DT	Wet	Y	Loose	N
4	DT121	0.9	DT	Wet	Y	Loose	N
5	DT121	0.2	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

March 13, 2015

Project: NRG PRGS

Submittal Date: 02/26/2015
Group Number: 1541475
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TB1-22515 Water	7786533
MW-106 Grab Groundwater	7786534
MW-107 Grab Groundwater	7786535
MW-30S Grab Groundwater	7786536
MW-72S Grab Groundwater	7786537
TB3-22515 Water	7786538
MW-100 Grab Groundwater	7786539
MW-27 Grab Groundwater	7786540

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution
ELECTRONIC COPY TO	GES	Attn: Greg Reichart

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: TB1-22515 Water
NRG PRGS

LL Sample # WW 7786533
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
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Odenton MD 21113

TB122

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 11:01	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 11:01	Anita M Dale	1

Sample Description: MW-106 Grab Groundwater
NRG PRGS

LL Sample # WW 7786534
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 10:20 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP106

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	2		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	1.9		0.11	10
08357	Acenaphthylene	208-96-8	0.42	J	0.11	10
08357	Anthracene	120-12-7	2.1		0.11	10
08357	Benzo(a)anthracene	56-55-3	0.90		0.11	10
08357	Benzo(a)pyrene	50-32-8	0.50	J	0.11	10
08357	Benzo(b)fluoranthene	205-99-2	0.67		0.11	10
08357	Benzo(g,h,i)perylene	191-24-2	0.39	J	0.11	10
08357	Benzo(k)fluoranthene	207-08-9	0.27	J	0.11	10
08357	Chrysene	218-01-9	1.1		0.11	10
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.11	10
08357	Fluoranthene	206-44-0	3.2		0.11	10
08357	Fluorene	86-73-7	3.1		0.11	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.34	J	0.11	10
08357	1-Methylnaphthalene	90-12-0	9.5		0.11	10
08357	2-Methylnaphthalene	91-57-6	7.3		0.11	10
08357	Naphthalene	91-20-3	4.1		0.32	10
08357	Phenanthrene	85-01-8	3.8		0.32	10
08357	Pyrene	129-00-0	5.1		0.11	10
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	130		20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	260		3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	9,500		45	1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	2.23		0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	
00228	Sulfate	14808-79-8	1,600		60.0	200
	EPA 353.2		**mg/l**		**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	1

Sample Description: MW-106 Grab Groundwater
NRG PRGS

LL Sample # WW 7786534
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 10:20 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP106

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 353.2**		**mg/l**	**mg/l**	
00219	Nitrite Nitrogen		14797-65-0	0.021 J	0.015	1
		EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)		n.a.	5.3	1.4	1
		SM 2130 B-2001		**N T U**	**N T U**	
12145	Turbidity		n.a.	6,120	28.0	200
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	7.0	10
	Reporting limits were raised due to interference from the sample matrix.					
		SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	122	2.0	200

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 12:36	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 12:36	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/05/2015 15:08	Holly B Ziegler	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 14:16	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 14:16	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	150680021A	03/09/2015 15:40	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 14:34	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150611848001	03/03/2015 06:14	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150611848001	03/02/2015 22:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15058667601B	02/28/2015 08:44	Drew M Gerhart	200
00220	Nitrate Nitrogen	EPA 353.2	1	15058106102A	02/27/2015 19:09	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105102A	02/27/2015 03:32	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15062807901A	03/03/2015 09:15	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15057121452A	02/26/2015 20:40	Luz M Groff	200

Sample Description: MW-106 Grab Groundwater
NRG PRGS

LL Sample # WW 7786534
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 10:20 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

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Odenton MD 21113

NP106

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15062004203A	03/03/2015 21:23	Michele L Graham	10
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15057834401A	02/26/2015 19:35	Daniel S Smith	200

Sample Description: MW-107 Grab Groundwater
NRG PRGS

LL Sample # WW 7786535
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 11:40 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

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NP107

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	1		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	0.7	J	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	0.7	J	0.5	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	37	J	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	480		45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 13:00	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 13:00	Anita M Dale	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 14:44	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 14:44	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 14:57	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-30S Grab Groundwater
NRG PRGS

LL Sample # WW 7786536
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 13:10 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP30S

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	1.3		0.11	10
08357	Acenaphthylene	208-96-8	0.40	J	0.11	10
08357	Anthracene	120-12-7	1.5		0.11	10
08357	Benzo(a)anthracene	56-55-3	0.99		0.11	10
08357	Benzo(a)pyrene	50-32-8	1.7		0.11	10
08357	Benzo(b)fluoranthene	205-99-2	1.7		0.11	10
08357	Benzo(g,h,i)perylene	191-24-2	1.1		0.11	10
08357	Benzo(k)fluoranthene	207-08-9	0.53		0.11	10
08357	Chrysene	218-01-9	0.93		0.11	10
08357	Dibenz(a,h)anthracene	53-70-3	0.28	J	0.11	10
08357	Fluoranthene	206-44-0	1.4		0.11	10
08357	Fluorene	86-73-7	2.7		0.11	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.1		0.11	10
08357	1-Methylnaphthalene	90-12-0	9.4		0.11	10
08357	2-Methylnaphthalene	91-57-6	7.9		0.11	10
08357	Naphthalene	91-20-3	3.9		0.32	10
08357	Phenanthrene	85-01-8	3.2		0.32	10
08357	Pyrene	129-00-0	4.2		0.11	10
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	22	J	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	3,500		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	3.6	J	1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	1,600		7.0	50

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-30S Grab Groundwater
NRG PRGS

LL Sample # WW 7786536
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 13:10 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

NP30S

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 13:25	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 13:25	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/05/2015 15:36	Holly B Ziegler	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 15:12	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 15:12	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 15:20	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15058807901A	02/27/2015 17:24	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15057121452A	02/26/2015 20:40	Luz M Groff	50

Sample Description: MW-72S Grab Groundwater
NRG PRGS

LL Sample # WW 7786537
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 14:10 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP72S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	3,600	60	20
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,400	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	8.49	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	64.5	3.0	10
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	615	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	16.7	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150680021A	03/10/2015 17:39	Matthew S Listner	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 15:44	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150611848001	03/03/2015 06:26	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150611848001	03/02/2015 22:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15058667601B	02/27/2015 17:00	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15058106102A	02/27/2015 19:19	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105102A	02/27/2015 03:33	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15058003203A	02/27/2015 22:10	Yolunder Y Bunch	1

Sample Description: MW-72S Grab Groundwater
NRG PRGS

LL Sample # WW 7786537
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 14:10 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP72S

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15057834401A	02/26/2015 19:35	Daniel S Smith	100

Sample Description: TB3-22515 Water
NRG PRGS

LL Sample # WW 7786538
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

TB322

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 11:24	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 11:24	Anita M Dale	1

Sample Description: MW-100 Grab Groundwater
NRG PRGS

LL Sample # WW 7786539
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 15:10 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP100

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	300	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 16:07	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1

Sample Description: MW-27 Grab Groundwater
NRG PRGS

LL Sample # WW 7786540
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:10 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP027

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	1		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	0.5	J	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	1.8		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.76		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.44		0.010	1
08357	Benzo(a)pyrene	50-32-8	0.27		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.35		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.11		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.12		0.010	1
08357	Chrysene	218-01-9	0.37		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.034	J	0.010	1
08357	Fluoranthene	206-44-0	1.2		0.010	1
08357	Fluorene	86-73-7	2.8		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.11		0.010	1
08357	1-Methylnaphthalene	90-12-0	19		0.10	10
08357	2-Methylnaphthalene	91-57-6	9.3		0.010	1
08357	Naphthalene	91-20-3	8.3		0.030	1
08357	Phenanthrene	85-01-8	2.8		0.030	1
08357	Pyrene	129-00-0	1.1		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	120		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	1,700		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	16.8		1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	77.6		0.28	2

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-27 Grab Groundwater
NRG PRGS

LL Sample # WW 7786540
LL Group # 1541475
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:10 by DR

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NP027

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 13:49	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 13:49	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/04/2015 20:14	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/05/2015 16:03	Holly B Ziegler	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15061A20A	03/02/2015 15:40	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15061A20A	03/02/2015 15:40	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 17:17	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15058807901A	02/27/2015 17:24	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15057121452A	02/26/2015 20:40	Luz M Groff	2

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541475
Reported: 03/13/2015 12:21

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z150611AA	Sample number(s): 7786533-7786536,7786538,7786540							
Benzene	N.D.	0.5	ug/l	99		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	105		78-121		
1,2-Dibromoethane	N.D.	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	98		72-127		
Ethylbenzene	N.D.	0.5	ug/l	101		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97		75-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
Xylene (Total)	N.D.	0.5	ug/l	102		80-120		
Batch number: 15061WAL026	Sample number(s): 7786534,7786536,7786540							
Acenaphthene	N.D.	0.010	ug/l	93	84	76-139	9	30
Acenaphthylene	N.D.	0.010	ug/l	94	86	67-120	8	30
Anthracene	N.D.	0.010	ug/l	100	93	72-128	8	30
Benzo(a)anthracene	N.D.	0.010	ug/l	94	89	71-127	6	30
Benzo(a)pyrene	N.D.	0.010	ug/l	93	88	64-132	5	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	101	98	71-139	3	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	99	95	49-140	3	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	93	88	63-136	5	30
Chrysene	N.D.	0.010	ug/l	94	90	72-132	5	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	90	83	37-142	8	30
Fluoranthene	N.D.	0.010	ug/l	97	91	76-121	6	30
Fluorene	N.D.	0.010	ug/l	96	89	71-124	7	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	93	89	45-136	4	30
1-Methylnaphthalene	N.D.	0.010	ug/l	83	75	65-122	10	30
2-Methylnaphthalene	N.D.	0.010	ug/l	84	77	59-124	9	30
Naphthalene	N.D.	0.030	ug/l	86	78	69-119	9	30
Phenanthrene	N.D.	0.030	ug/l	95	89	75-121	7	30
Pyrene	N.D.	0.010	ug/l	92	86	70-124	7	30
Batch number: 15061A20A	Sample number(s): 7786534-7786536,7786540							
TPH-GRO water C6-C10	N.D.	20.	ug/l	116		80-129		
Batch number: 150680021A	Sample number(s): 7786534,7786537							
Methane	N.D.	3.0	ug/l	104		85-115		
Batch number: 150620001A	Sample number(s): 7786534-7786537,7786539-7786540							
DRO C10-C28	N.D.	45.	ug/l	75		69-115		
Batch number: 150611848001	Sample number(s): 7786534,7786537							
Manganese	N.D.	0.00083	mg/l	101		80-120		
Batch number: 15058105102A	Sample number(s): 7786534,7786537							
Nitrite Nitrogen	N.D.	0.015	mg/l	108		90-110		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541475
Reported: 03/13/2015 12:21

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15058106102A	Sample number(s): 7786534,7786537							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		90-110		
Batch number: 15058667601B	Sample number(s): 7786534,7786537							
Sulfate	N.D.	0.30	mg/l	96	98	90-110	1	20
Batch number: 15057121452A	Sample number(s): 7786534,7786536,7786540							
Turbidity	N.D.	0.14	N T U	93		90-110		
Batch number: 15057834401A	Sample number(s): 7786534,7786537							
Ferrous Iron	N.D.	0.010	mg/l	99		93-105		
Batch number: 15058003203A	Sample number(s): 7786537							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	100		90-110		
Batch number: 15058807901A	Sample number(s): 7786536,7786540							
HEM (oil & grease)	N.D.	1.4	mg/l	80	84	78-114	4	16
Batch number: 15062004203A	Sample number(s): 7786534							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	99		90-110		
Batch number: 15062807901A	Sample number(s): 7786534							
HEM (oil & grease)	N.D.	1.4	mg/l	87	87	78-114	1	16

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z150611AA	Sample number(s): 7786533-7786536,7786538,7786540 UNSPK: P786543								
Benzene	102	103	72-134	1	30				
t-Butyl alcohol	101	103	67-119	2	30				
1,2-Dibromoethane	96	97	77-116	1	30				
1,2-Dichloroethane	98	99	63-142	1	30				
Ethylbenzene	101	104	71-134	3	30				
Methyl Tertiary Butyl Ether	96	96	72-126	0	30				
Toluene	100	102	80-125	2	30				
Xylene (Total)	99	103	79-125	4	30				
Batch number: 15061A20A	Sample number(s): 7786534-7786536,7786540 UNSPK: P786543								
TPH-GRO water C6-C10	92	110	75-135	17	30				
Batch number: 150680021A	Sample number(s): 7786534,7786537 UNSPK: P786543								
Methane	-1173 (2)	-799 (2)	46-129	5	20				
Batch number: 150620001A	Sample number(s): 7786534-7786537,7786539-7786540 UNSPK: P786543								
DRO C10-C28	251*	193*	47-129	21*	20				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541475
Reported: 03/13/2015 12:21

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 150611848001	Sample number(s): 7786534,7786537 UNSPK: P788267 BKG: P788267								
Manganese	101	100	75-125	0	20	0.233	0.238	2	20
Batch number: 15058105102A	Sample number(s): 7786534,7786537 UNSPK: P786543 BKG: P786543								
Nitrite Nitrogen	110		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15058106102A	Sample number(s): 7786534,7786537 UNSPK: P786543 BKG: P786543								
Nitrate Nitrogen	97		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15058667601B	Sample number(s): 7786534,7786537 UNSPK: P786543 BKG: P786543								
Sulfate	94		90-110			69.7	68.9	1	20
Batch number: 15057121452A	Sample number(s): 7786534,7786536,7786540 BKG: P786541								
Turbidity						224	222	1	8
Batch number: 15057834401A	Sample number(s): 7786534,7786537 UNSPK: P786531 BKG: P786531								
Ferrous Iron	96	98	73-111	1	6	2.5	2.6	4	5
Batch number: 15058003203A	Sample number(s): 7786537 UNSPK: P785841 BKG: P785841								
Total Alkalinity to pH 4.5	79	78	17-146	1	5	58.7	59.0	1	5
Batch number: 15058807901A	Sample number(s): 7786536,7786540 UNSPK: P786579								
HEM (oil & grease)	77*		78-114						
Batch number: 15062004203A	Sample number(s): 7786534 UNSPK: P788660 BKG: P788660								
Total Alkalinity to pH 4.5	95		17-146			64.6	65.4	1	5
Batch number: 15062807901A	Sample number(s): 7786534 UNSPK: P784598								
HEM (oil & grease)	75*		78-114						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC
Batch number: Z150611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7786533	102	99	100	97
7786534	101	97	100	98
7786535	102	99	100	97
7786536	101	99	100	98
7786538	101	97	100	98
7786540	101	98	100	98
Blank	102	99	99	97
LCS	101	99	100	100
MS	101	100	99	99
MSD	100	101	100	99

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541475
Reported: 03/13/2015 12:21

Surrogate Quality Control

Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15061WAL026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7786534	142*	43	113
7786536	87	37	96
7786540	132	99	92
Blank	100	108	86
LCS	98	112	85
LCSD	92	105	77
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15061A20A

	Trifluorotoluene-F
7786534	85
7786535	86
7786536	85
7786540	86
Blank	87
LCS	92
MS	90
MSD	91
Limits:	63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 150620001A

	Orthoterphenyl
7786534	79
7786535	95
7786536	123
7786537	119
7786539	82
7786540	124
Blank	104
LCS	107
MS	103
MSD	108
Limits:	42-160

Analysis Name: Methane
Batch number: 150680021A

	Propene
7786534	82
7786537	76
Blank	101
LCS	103
MS	72
MSD	76
Limits:	47-116

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541475
Reported: 03/13/2015 12:21

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 154475 Sample # 7786533-40

| | | |

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 57933

Group Number(s): 1541475

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/26/2015 16:15
Number of Packages:	5	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:03 on 02/26/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.9	DT	Wet	Y	Loose	N
2	DT121	0.3	DT	Wet	Y	Loose	N
3	DT121	0.2	DT	Wet	Y	Loose	N
4	DT121	0.9	DT	Wet	Y	Loose	N
5	DT121	0.2	DT	Wet	Y	Loose	N

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

March 13, 2015

Project: NRG PRGS

Submittal Date: 02/26/2015
Group Number: 1541474
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TB5-22515 Water	7786529
MW-16 Grab Groundwater	7786530
MW-14 Grab Groundwater	7786531
Rinsate-22515 Grab Water	7786532

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Data Distribution
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Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: TB5-22515 Water
NRG PRGS

LL Sample # WW 7786529
LL Group # 1541474
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

TB522

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 10:37	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 10:37	Anita M Dale	1

Sample Description: MW-16 Grab Groundwater
NRG PRGS

LL Sample # WW 7786530
LL Group # 1541474
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:15 by JP

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG16

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	N.D.		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.011	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.014	J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	1
08357	Chrysene	218-01-9	0.075		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.037	J	0.010	1
08357	Fluorene	86-73-7	0.023	J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.047	J	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.048	J	0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	0.044	J	0.030	1
08357	Pyrene	129-00-0	0.026	J	0.010	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	N.D.		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.		1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	2,280		14.0	100

Sample Description: MW-16 Grab Groundwater
NRG PRGS

LL Sample # WW 7786530
LL Group # 1541474
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:15 by JP

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG16

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 17:24	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 17:24	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/04/2015 18:22	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15057A20A	02/27/2015 19:15	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15057A20A	02/27/2015 19:15	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 13:24	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15058807901A	02/27/2015 17:24	Michelle L Lalli	1
12145	Turbidity	SM 2130 B-2001	1	15057121452A	02/26/2015 20:40	Luz M Groff	100

Sample Description: MW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 7786531
LL Group # 1541474
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:40 by JP

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG14

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	230	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	6,000	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	8.66	0.00083	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	51.4	1.5	5
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.70	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	63.0	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	2.5	0.10	10

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	150680021A	03/09/2015 15:22	Matthew S Listner	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 13:47	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	150611848001	03/03/2015 06:11	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	150611848001	03/02/2015 22:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	15058667601B	02/27/2015 16:27	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15058106102A	02/27/2015 19:08	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15058105102A	02/27/2015 03:19	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15058003203A	02/27/2015 20:24	Yolunder Y Bunch	1

Sample Description: MW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 7786531
LL Group # 1541474
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 16:40 by JP

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

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NRG14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15057834401A	02/26/2015 19:35	Daniel S Smith	10

Sample Description: Rinsate-22515 Grab Water
NRG PRGS

LL Sample # WW 7786532
LL Group # 1541474
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 17:00 by JP

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGRB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	N.D.	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.031	1
08357	Phenanthrene	85-01-8	N.D.	0.031	1
08357	Pyrene	129-00-0	N.D.	0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: Rinsate-22515 Grab Water
NRG PRGS

LL Sample # WW 7786532
LL Group # 1541474
Account # 08390

Project Name: NRG PRGS

Collected: 02/25/2015 17:00 by JP

Submitted: 02/26/2015 16:15
Reported: 03/13/2015 12:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGRB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC	SW-846 8260B	1	Z150611AA	03/02/2015 12:12	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z150611AA	03/02/2015 12:12	Anita M Dale	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15061WAL026	03/04/2015 18:50	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15061WAL026	03/03/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15057A20A	02/27/2015 13:12	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15057A20A	02/27/2015 13:12	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	150620001A	03/04/2015 14:10	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150620001A	03/03/2015 11:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15058807901A	02/27/2015 17:24	Michelle L Lalli	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541474
Reported: 03/13/2015 12:21

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z150611AA	Sample number(s): 7786529-7786530,7786532							
Benzene	N.D.	0.5	ug/l	99		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	105		78-121		
1,2-Dibromoethane	N.D.	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	98		72-127		
Ethylbenzene	N.D.	0.5	ug/l	101		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	97		75-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
Xylene (Total)	N.D.	0.5	ug/l	102		80-120		
Batch number: 15061WAL026	Sample number(s): 7786530,7786532							
Acenaphthene	N.D.	0.010	ug/l	93	84	76-139	9	30
Acenaphthylene	N.D.	0.010	ug/l	94	86	67-120	8	30
Anthracene	N.D.	0.010	ug/l	100	93	72-128	8	30
Benzo(a)anthracene	N.D.	0.010	ug/l	94	89	71-127	6	30
Benzo(a)pyrene	N.D.	0.010	ug/l	93	88	64-132	5	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	101	98	71-139	3	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	99	95	49-140	3	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	93	88	63-136	5	30
Chrysene	N.D.	0.010	ug/l	94	90	72-132	5	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	90	83	37-142	8	30
Fluoranthene	N.D.	0.010	ug/l	97	91	76-121	6	30
Fluorene	N.D.	0.010	ug/l	96	89	71-124	7	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	93	89	45-136	4	30
1-Methylnaphthalene	N.D.	0.010	ug/l	83	75	65-122	10	30
2-Methylnaphthalene	N.D.	0.010	ug/l	84	77	59-124	9	30
Naphthalene	N.D.	0.030	ug/l	86	78	69-119	9	30
Phenanthrene	N.D.	0.030	ug/l	95	89	75-121	7	30
Pyrene	N.D.	0.010	ug/l	92	86	70-124	7	30
Batch number: 15057A20A	Sample number(s): 7786530,7786532							
TPH-GRO water C6-C10	N.D.	20.	ug/l	116	112	80-129	4	30
Batch number: 150680021A	Sample number(s): 7786531							
Methane	N.D.	3.0	ug/l	104		85-115		
Batch number: 150620001A	Sample number(s): 7786530-7786532							
DRO C10-C28	N.D.	45.	ug/l	75		69-115		
Batch number: 150611848001	Sample number(s): 7786531							
Manganese	N.D.	0.00083	mg/l	101		80-120		
Batch number: 15058105102A	Sample number(s): 7786531							
Nitrite Nitrogen	N.D.	0.015	mg/l	108		90-110		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541474
Reported: 03/13/2015 12:21

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15058106102A	Sample number(s): 7786531							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		90-110		
Batch number: 15058667601B	Sample number(s): 7786531							
Sulfate	N.D.	0.30	mg/l	96	98	90-110	1	20
Batch number: 15057121452A	Sample number(s): 7786530							
Turbidity	N.D.	0.14	N T U	93		90-110		
Batch number: 15057834401A	Sample number(s): 7786531							
Ferrous Iron	N.D.	0.010	mg/l	99		93-105		
Batch number: 15058003203A	Sample number(s): 7786531							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	100		90-110		
Batch number: 15058807901A	Sample number(s): 7786530,7786532							
HEM (oil & grease)	N.D.	1.4	mg/l	80	84	78-114	4	16

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z150611AA	Sample number(s): 7786529-7786530,7786532 UNSPK: P786543								
Benzene	102	103	72-134	1	30				
t-Butyl alcohol	101	103	67-119	2	30				
1,2-Dibromoethane	96	97	77-116	1	30				
1,2-Dichloroethane	98	99	63-142	1	30				
Ethylbenzene	101	104	71-134	3	30				
Methyl Tertiary Butyl Ether	96	96	72-126	0	30				
Toluene	100	102	80-125	2	30				
Xylene (Total)	99	103	79-125	4	30				
Batch number: 150680021A	Sample number(s): 7786531 UNSPK: P786543								
Methane	-1173 (2)	-799 (2)	46-129	5	20				
Batch number: 150620001A	Sample number(s): 7786530-7786532 UNSPK: P786543								
DRO C10-C28	251*	193*	47-129	21*	20				
Batch number: 150611848001	Sample number(s): 7786531 UNSPK: P788267 BKG: P788267								
Manganese	101	100	75-125	0	20	0.233	0.238	2	20
Batch number: 15058105102A	Sample number(s): 7786531 UNSPK: P786543 BKG: P786543								
Nitrite Nitrogen	110		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15058106102A	Sample number(s): 7786531 UNSPK: P786543 BKG: P786543								
Nitrate Nitrogen	97		90-110			N.D.	N.D.	0 (1)	2

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541474
Reported: 03/13/2015 12:21

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15058667601B	Sample number(s): 7786531 UNSPK: P786543 BKG: P786543								
Sulfate	94		90-110			69.7	68.9	1	20
Batch number: 15057121452A	Sample number(s): 7786530 BKG: P786541								
Turbidity						224	222	1	8
Batch number: 15057834401A	Sample number(s): 7786531 UNSPK: 7786531 BKG: 7786531								
Ferrous Iron	96	98	73-111	1	6	2.5	2.6	4	5
Batch number: 15058003203A	Sample number(s): 7786531 UNSPK: P785841 BKG: P785841								
Total Alkalinity to pH 4.5	79	78	17-146	1	5	58.7	59.0	1	5
Batch number: 15058807901A	Sample number(s): 7786530,7786532 UNSPK: P786579								
HEM (oil & grease)	77*		78-114						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC
Batch number: Z150611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7786529	101	100	99	97
7786530	101	99	99	97
7786532	102	100	101	97
Blank	102	99	99	97
LCS	101	99	100	100
MS	101	100	99	99
MSD	100	101	100	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15061WAL026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7786530	91	25*	82
7786532	97	91	79
Blank	100	108	86
LCS	98	112	85
LCSD	92	105	77
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15057A20A

	Trifluorotoluene-F
7786530	85
7786532	84

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc. Group Number: 1541474
Reported: 03/13/2015 12:21

Surrogate Quality Control

Blank	85
LCS	89
LCSD	89
Limits:	63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 150620001A

	Orthoterphenyl
7786530	101
7786531	109
7786532	108
Blank	104
LCS	107
MS	103
MSD	108
Limits:	42-160

Analysis Name: Methane
Batch number: 150680021A

	Propene
7786531	84
Blank	101
LCS	103
MS	72
MSD	76
Limits:	47-116

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Cooler #5

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Environmental Analysis Request/Chain of Custody

Acct. # 8390 Group # 154147 Sample # 778529-32 ORIGINAL

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Gregory Reichart	P.O. #: 0402896
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3717	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) H	BTEX, MTBE,TBA, EDC, EDB (SW-846 8260B) H	TPH-GRO C6-C10 (SW-846 8015B) H	PAHs by SIM (SW-846 8270C SIM) None	HEM Oil and Grease (EPA 1664A) N	Turbidity (SM 2130B) None	Alkalinity (SM 2320B) None	Nitrate NO3 -1 (EPA 353.2) S	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997) H	Sulfate SO42- (EPA 300.0) None	Manganese Mn2+ (EPA 6010B) N	Methane (RSKSOP-175 modified) H
TBS-22515	2-25-15	—	X				X					1	[redacted]	X										
MW-16	2-25-15	1615	X				X					12	X	X	X	X	X	X						
MW-14	2-25-15	1640	X				X					11	X						X	X	X	X	X	X
Rinsate-22515	2-25-15	1700	X				X					11	X	X	X	X	X							

Analyses Requested — Preservation Codes

For Lab Use Only
SF #:
SCR #:

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	2-26-15	0730			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				2/26/15	1615

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.2-0.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 57933

Group Number(s): 154474

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	02/26/2015 16:15
Number of Packages:	5	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:03 on 02/26/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.9	DT	Wet	Y	Loose	N
2	DT121	0.3	DT	Wet	Y	Loose	N
3	DT121	0.2	DT	Wet	Y	Loose	N
4	DT121	0.9	DT	Wet	Y	Loose	N
5	DT121	0.2	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.co

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

January 14, 2015

Project: NRG PRGS

Submittal Date: 01/12/2015
Group Number: 1530552
PO Number: NRG PRGS
Release Number: 0402859
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-25S Grab Water	7736653
MW-25 Grab Water	7736654

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GES, Inc.-MD	Attn: Report Distribution
ELECTRONIC COPY TO	GES	Attn: Greg Reichart

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: MW-25S Grab Water
NRG - PRGS

LL Sample # WW 7736653
LL Group # 1530552
Account # 08390

Project Name: NRG PRGS

Collected: 01/09/2015 09:25 by JP

Submitted: 01/12/2015 16:42
Reported: 01/14/2015 14:43

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRGS1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,200,000	45	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150130001A	01/14/2015 10:07	Christine E Dolman	100
12059	Microextraction - DRO (waters)	SW-846 3511	1	150130001A	01/13/2015 07:00	Kerrie A Freeburn	1

Sample Description: MW-25 Grab Water
NRG - PRGS

LL Sample # WW 7736654
LL Group # 1530552
Account # 08390

Project Name: NRG PRGS

Collected: 01/09/2015 14:05 by JP

Submitted: 01/12/2015 16:42
Reported: 01/14/2015 14:43

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

PRGS2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	56,000	45	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	150130001A	01/14/2015 09:44	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	150130001A	01/13/2015 07:00	Kerrie A Freeburn	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1530552
Reported: 01/14/15 at 02:43 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 150130001A	Sample number(s): 7736653-7736654							
DRO C10-C28	N.D.	45.	ug/l	90	101	69-115	12	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: DRO micro-ext 8015B
Batch number: 150130001A

	Orthoterphenyl
7736653	8693*
7736654	386*
Blank	126
LCS	113
LCSD	123
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1530552 Sample # 7736653-54

| | | |

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 50095

Group Number(s): 1530552

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	01/12/2015 16:42
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 16:54 on 01/12/2015

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.6	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
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F | 717-656-2681
www.LancasterLabs.co

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

January 27, 2015

Project: NRG PRGS

Submittal Date: 01/12/2015
Group Number: 1530551
PO Number: NRG PRGS
Release Number: 0402859
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-25S Grab Air	7736651
MW-25 Grab Air	7736652

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

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Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

Sample Description: MW-25S Grab Air
NRG PRGS - Alexandria, VA

LL Sample # AQ 7736651
LL Group # 1530551
Account # 08390

Project Name: NRG PRGS

Collected: 01/09/2015 09:15 by JP

Submitted: 01/12/2015 16:42
Reported: 01/27/2015 11:56

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	
07090	C1-C4 Hydrocarbons as propane	n.a.	46,000	3,600	200
07090	>C4-C10 Hydrocarbons hexane	n.a.	550	35	1
	The holding time was not met.				

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	C1-C4, >C4-C10 (as propane)	EPA 18 mod/EPA 25 mod	1	M1501830AA	01/18/2015 23:04	Chin F Ly	1
07090	C1-C4, >C4-C10 (as propane)	EPA 18 mod/EPA 25 mod	1	M1502030AA	01/20/2015 21:15	Chin F Ly	200

Sample Description: MW-25 Grab Air
NRG PRGS - Alexandria, VA

LL Sample # AQ 7736652
LL Group # 1530551
Account # 08390

Project Name: NRG PRGS

Collected: 01/09/2015 14:00 by JP

Submitted: 01/12/2015 16:42
Reported: 01/27/2015 11:56

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Dilution Factor
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	
07090	C1-C4 Hydrocarbons as propane	n.a.	100	18	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	220	35	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	C1-C4, >C4-C10 (as propane)	EPA 18 mod/EPA 25 mod	1	M1501830AA	01/18/2015 23:33	Chin F Ly	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1530551
Reported: 01/27/15 at 11:56 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1501830AA	Sample number(s): 7736651-7736652							
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					
>C4-C10 Hydrocarbons hexane	< 35	35.	mg/m3					
Batch number: M1502030AA	Sample number(s): 7736651							
C1-C4 Hydrocarbons as propane	< 18	18.	mg/m3					

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1530551 Sample # 7736651-52

Client: Groundwater & Environmental Services, Inc. (GES)	
Project Name/#: NRG PRGS	Site ID #: 0402859
Project Manager: Gregory Reichart	P.O. #: 0402859
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x3717	Quote #: 212032A
State where sample(s) were collected: 1400 N Royal St., Alexandria, VA	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other: Air	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B)	TPH (C7-C9)(C10-C12)	Epa 18/25 Mod.
MW-25S	1-9-15	0915	X								X	2		X	
MW-25	1-9-15	1400	X								X	2		X	

Analyses Requested / Preservation Codes

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Remarks
EQEDD file name:
NRG PRGS.
lab report #.
25800.EQEDD.zip

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	1-9-15	1552	Denise Woodring	1-9-15	1600
Denise Woodring	1-12-15	1335		1/12/15	13:35
	1/12/15	1644			
			Jeff Plummer	1/12/15	1642

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.6 °C (3R 1/12/15)

NA

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Sample Administration Receipt Documentation Log

Doc Log ID: 50096

Group Number(s): 1530551

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	01/12/2015 16:42
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	Yes
Missing Samples:	No	Air Quality Flow Controllers Present:	No
Extra Samples:	No	Air Quality Returns:	No
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 16:54 on 01/12/2015

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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