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30 October 2015

Joshua Rodriguez
Chief, Inspection and Enforcement Branch,
Water Quality Division
Department of Energy & Environment
1200 First Street NE, 5th Floor
Washington, D.C. 20002

Subject: Groundwater Monitoring Status Report - Third Quarter 2015
NRG Potomac River Generating Station, LLC
Alexandria, Virginia

Dear Mr. Rodriguez:

On behalf of Potomac River Generating Station, LLC (PRGS), Geosyntec Consultants (Geosyntec) has prepared this letter report to present the results of the August 2015 groundwater sampling event ("August 2015 event" or "3rd quarter event") at the former Potomac River Generating Station (the Site). The site location is shown on **Figure 1**, and the site features are shown on **Figure 2**. The August 2015 event was performed from 5 August and 13 August 2015.

The remainder of this report includes a summary of: (i) the project background and objectives; (ii) results of previous groundwater monitoring events; (iii) a discussion of the results of the water level measurements, and (iv) the results from laboratory analysis of samples collected in August 2015.

BACKGROUND

Ongoing investigation and remediation work at the Site is being coordinated between multiple parties including the Virginia Department of Environmental Quality (VDEQ), the National Park Service (NPS), and the District Department of Environment and Energy[1] (DOEE). On 5 June 2014, the DOEE issued a Compliance Directive letter (Directive) requesting supplemental activities to evaluate potential releases to the Potomac River from the PRGS Site. In that Directive, DOEE issued four Directives to PRGS. Subsequently, PRGS provided responses to the DOEE Directives 1 and 2 in *Work Plan I – Former Potomac River Generating Station*, dated 24 June 2014. In a letter dated 18 July 2014, PRGS provided responses to the DOEE Directives 3 and 4 in the document titled *Supplemental Work Plan – Former Potomac River Generating Station*.

[1] Formerly known as the District Department of the Environment (DDOE)

The field activities completed pursuant to these two work plans were summarized in a report to DOEE titled *Assessment of Groundwater Discharges to the Potomac River*, dated 5 January 2015. On 12 May 2015, the DOEE provided comments to the *Assessment of Groundwater Discharges to the Potomac River* report. In the May 2015 correspondence, DOEE requested that PRGS: 1) prepare a work plan to complete additional shoreline characterization work, and 2) develop a quarterly groundwater sampling and analysis plan. On 21 July 2015, PRGS provided DOEE with the documents titled: *Additional Characterization of Shoreline Work Plan* and the *Sampling and Analysis Plan*. Comments to these plans were prepared by DOEE and provided to PRGS in letter dated 2 September 2015, and on 24 September 2015, revised documents were submitted to the DOEE including: *Additional Characterization of Shoreline Work Plan*, *Sampling and Analysis Plan*, *Quality Assurance Project Plan*, and a *Health and Safety Plan*.

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Since the submittal of the *Assessment of Groundwater Discharges to the Potomac River*, dated January 2015, PRGS has completed quarterly groundwater monitoring at the Site consistent with the DOEE Directives and in conjunction with groundwater monitoring activities required by the VDEQ. Groundwater and Environmental Services, Inc. (GES) completed quarterly monitoring events in February/March (1st quarter) and May (2nd quarter) in accordance with the requirements of the Corrective Action Plan (CAP) approved by the VDEQ. As part of the CAP-required monitoring, GES collected groundwater samples from the shoreline wells (identified as the "TW" series wells) for the laboratory analysis of total petroleum hydrocarbons (TPH) diesel range organics (DRO).

Geosyntec, in coordination with GES, oversaw the collection of samples from the TW wells for the analysis of additional parameters that were previously requested by DOEE in their correspondence dated 5 June 2014. The additional requested analyses included:

- A short list of volatile organic compounds (VOCs) consisting of:
  - Benzene, toluene, Ethylbenzene, and xylenes (collectively BTEX);
  - Methyl tert butyl ether (MTBE);
  - 1,2-Dibromoethane (EDB) and 1,2-Dichloromethane (EDC);
- Polynuclear aromatic hydrocarbons (PAHs) with Selective Ion Monitoring (SIM);
- Oil and grease; and
- Total Petroleum Hydrocarbons, Gasoline Range Organics (GRO).

Historical water level measurement and gauging data, including those from the first and second quarter 2015 monitoring events are summarized in **Table 1**. Groundwater analytical data collected at the Site as part of these investigations has been tabulated and submitted to the VDEQ in periodic reports prepared by Geosyntec and/or GES. The analytical results for samples collected from the shoreline TW wells (TW-02, TW-03, TW-04, TW-05, TW-06, TW-07, and TW-14) including those during the first and second quarter 2015 monitoring events are summarized in this report for the benefit of the DOEE in **Table 2a** through **Table 2d**. A summary of the results of the 2015 monitoring events is provided in the following sections.

First Quarter – February/March 2015

The first quarter monitoring event was completed from 25 February to 4 March 2015. Geosyntec contracted with GES to collect the field samples in conjunction with other field efforts being completed at the Site. Prior to sample collection, GES collected a round of synoptic groundwater elevation measurements from all of the on-site monitoring wells. Groundwater elevations were measured from a reference point on the inner well casing to the nearest 0.01-feet (ft) using a clean electronic water level indicator. Groundwater elevations, monitoring well construction and survey information are summarized in **Table 1**.

Shallow groundwater was encountered at an elevation of 8.94 feet above mean sea level (ft-msl) in well TW-14. Based on comparison to other site wells, groundwater flow direction in the shallow zone on the north side of the pump house was interpreted to flow east-northeast toward the Potomac River and to the east-southeast on the south side of the pump house, also toward the Potomac River. Deep groundwater was encountered at elevations ranging from 1.77 ft-msl (TW-02) to 3.28 ft-msl (TW-04), and the flow appeared to be in the same direction as the shallow zone, east-northeast on the north side of the pump house. On the south side of the pump house, the flow is east-southeast.

During the first quarter, several VOCs, TPH, and PAHs were detected in one or more of the monitoring locations at concentrations above their respective laboratory detection limits. These detections were compared against the DOEE risk based corrective action (RBCA) quality standards for groundwater (GWQS) and surface water (SWQS)[2]. TPH was not detected at concentrations above its respective GWQS or SWQS in any of the samples collected. Several VOCs and PAHs were detected above applicable GWQS and SWQS. A description of the

[2] Groundwater Quality Standards - 21 DCMR 1100 DDOE - 1155.3 Numerical criteria for Class G1 groundwater; Surface Waterr Quality Standards - 21 DCMR 1100 DDOE - 1104 Table 2 Numeric Criteria

occurrence and discussion of results for those organics detected at concentrations above GWQS and/or SWQS is provided below:

- Benzene was detected in exceedance of GWQS in only one well location; the results indicate TW-07 contained benzene at a concentration of 9 µg/L;
- Benzo[b]fluoranthene was detected above SWQS in wells TW-03 and TW-05 at estimated concentrations of 0.021 µg/L and 0.024 µg/L respectively;
- Benzo[a]anthracene was detected above SWQS in wells TW-03 and TW-05 at estimated concentrations of 0.019 µg/L and 0.034 µg/L respectively;
- Chrysene was detected above SWQS in wells TW-04 and TW-05 at estimated concentrations of 0.021 µg/L and 0.050 µg/L respectively; and
- Naphthalene was detected above GWQS in wells TW-04, TW-05, and TW-07 with concentrations of 1 µg/L, 3.0 µg/L, and 2.2 µg/L respectively.

The results of the laboratory analyses summarized above were provided to Geosyntec in laboratory reports dated 4 March 2015, copies of which are included in **Attachment A**. **Table 2a** presents a summary of the detected VOC and TPH constituents while a summary of detected PAH constituents is provided in **Table 2b**.

Second Quarter – May 2015

The second quarter monitoring event was completed from 12 May to 13 May 2015. Water level data was obtained during the May 2015 groundwater sampling event and a summary of the groundwater level measurements is provided in **Table 1**. All monitoring wells at the Site were gauged and used to determine the groundwater flow direction(s). Shallow groundwater was encountered at an elevation of 8.33 feet above mean sea level (ft-msl) in well TW-14. Based on comparison to other site wells, groundwater flow direction in the shallow zone on the north side of the pump house was interpreted to flow east-northeast toward the Potomac River and to the east-southeast on the south side of the pump house, also toward the Potomac River. Deep groundwater was encountered at elevations ranging from 1.73 ft-msl (TW-02) to 3.66 ft-msl (TW-04), and the flow appeared to be in the same direction as the shallow zone, east-northeast on the north side of the pump house. On the south side of the pump house, the flow is east-southeast.

During the second quarter, several VOCs, TPH, and PAHs were detected in one or more of the monitoring locations at concentrations above their respective laboratory detection limits. These detections were compared against the DOEE RBCA GWQS and SWQS[3]. TPH was not detected at concentrations above its respective GWQS or SWQS in any of the samples collected. Several VOCs and PAHs were detected above applicable GWQS and SWQS. A description of the occurrence and discussion of results for those organics detected at concentrations above GWQS and/or SWQS is provided below:

- Benzene was detected in exceedance of GWQS in well TW-07 at a concentration of 10 µg/L;

- Benzo[b]fluoranthene was detected above GWQS and SWQS in wells TW-02, TW-03, TW-04, and TW-07 at concentrations of 0.70 µg/L, 0.21 µg/L, 0.070 µg/L, and 0.053 µg/L respectively. Benzo[b]fluoranthene was detected above SWQS in well TW-05 with an estimated concentration of 0.048 µg/L;

- Benzo[a]anthracene was detected above GWQS and SWQS in wells TW-02 and TW-03 at concentrations of 0.51 µg/L and 0.17 µg/L respectively. Benzo[a]anthracene was detected above SWQS in wells TW-04, TW-05, and TW-07 at estimated concentrations of 0.049 µg/L, 0.046 µg/L, and 0.034 µg/L respectively;

- Benzo[a]pyrene was detected above SWQS in wells TW-02, TW-03, and TW-05 at concentrations of 0.56 µg/L, 0.18 µg/L, and 0.031 µg/L respectively. Benzo[a]pyrene was detected above SWQS in wells TW-04 and TW-07 at estimated concentrations of 0.042 µg/L and 0.041 µg/L respectively;

- Benzo[k]fluoranthene was detected above GWQS and SWQS in wells TW-02 and TW-03 at concentrations of 0.27 µg/L and 0.088 µg/L respectively. Benzo[k]fluoranthene was detected above SWQS in wells TW-04 and TW-07 at estimated concentrations of 0.029 µg/L and 0.021 µg/L respectively;

- Chrysene was detected above SWQS in wells TW-02, TW-04 and TW-05 at concentrations of 0.59 µg/L, 0.069 µg/L, and 0.071 µg/L respectively. Chrysene was

[3] Groundwater Quality Standards - 21 DCMR 1100 DDOE - 1155.3 Numerical criteria for Class G1 groundwater; Surface Waterr Quality Standards - 21 DCMR 1100 DDOE - 1104 Table 2 Numeric Criteria

detected above SWQS in wells TW-06 and TW-07 at estimated concentrations of 0.023 µg/L and 0.045 µg/L respectively;

- Dibenz[a,h]-anthracene was detected above SWQS in wells TW-02 and TW-03 at a concentration of 0.13 µg/L and estimated concentration of 0.032 µg/L respectively;

- Indeno[1,2,3-cd]pyrene was detected above SWQS in wells TW-02, TW-03, TW-04, TW-05, and TW-07 at concentrations of 0.40 µg/L and 0.12 µg/L, and estimated concentrations of 0.033 µg/L, 0.022 µg/L, and 0.032 µg/L respectively; and

- Naphthalene was detected above GWQS in well TW-06 with a concentration of 4 µg/L. Naphthalene was detected above GWQS in wells TW-05 and TW-07 with estimated concentrations of 1 µg/L and 3 µg/L, respectively.

The results of the laboratory analyses summarized above were provided to Geosyntec in laboratory reports dated 2 June 2015, copies of which are included in **Attachment B**. **Table 2a** presents a summary of the detected VOC and TPH constituents while a summary of detected PAH constituents is provided in **Table 2b**.

THIRD QUARTER – 2015

Beginning in the third quarter, Geosyntec conducted groundwater monitoring at the Site in accordance with the *Sampling and Analysis Plan* submitted to the DOEE in July, and revised in September 2015. In accordance with the Sampling and Analysis Plan, the following monitoring wells were gauged and sampled[4]:

- TW-02, TW-03, TW-04, TW-05, TW-06, TW-07, and TW-14.

Water level data obtained during August 2015 groundwater sampling event were used in conjunction with the surveyed top of casing elevation data to estimate potentiometric surfaces for both the shallow and the deep groundwater zone. A summary of the groundwater level measurements is provided in **Table 1b** and potentiometric surface maps for the shallow and deep groundwater zones are provided on **Figure 3** and **Figure 4**, respectively. Field sampling forms completed at the time of the monitoring events in August are included as **Attachment C**.

As shown on **Figure 3**, shallow groundwater was encountered at an elevation of 8.24 ft-msl in well TW-14. Based on comparison to other site wells monitored as part of the VDEQ program,

[4] Data f or additional wells that were gauged and sampled at the Site as required by VDEQ were reported to VDEQ by GES in October 2015

groundwater flow direction in the shallow zone on the north side of the pump house was interpreted to flow east-northeast toward the Potomac River and to the east-southeast on the south side of the pump house, also toward the Potomac River.. As shown on **Figure 4**, deep groundwater was encountered at elevations ranging from 1.03 ft-msl (TW-02) to 3.87 ft-msl (TW-04). and the flow appeared to be in the same direction as the shallow zone, east-northeast on the north side of the pump house. On the south side of the pump house, the flow is east-southeast.

Following collection of the water level information, the wells were sampled according to the low-flow guidelines presented in the Sampling and Analysis Plan. Samples were collected for the following routine analytical parameters:

- A short list of VOCs consisting of:
    - BTEX;
    - MTBE;
    - EDB and EDC;
- PAHs with SIM;
- Oil and grease; and
- TPH-GRO and TPH-DRO.

In addition to the parameters, and in accordance with the Sampling and Analysis Plan, the following parameters were monitored during this August event to collect the once per year sample data required by the DOEE:

- Metals;
- Hardness; and
- Polychlorinated biphenyls (PCBs).

Upon receipt of the laboratory reports, Geosyntec reviewed the laboratory quality control (QC) data and the results of the quality assurance (QA) samples. If necessary, Geosyntec assigned additional data qualifications based on the results of the QA samples and assessment of the laboratory QC data. Based on that review, the QC and QA data complied were within the acceptance criteria specified in the project QAPP, and therefore the data were deemed usable as qualified for the assessments presented in this report.

Following the data quality assessment, Geosyntec tabulated the detected analytes and compared them to DOEE RBCA GWQS and SWQS[5]. The data are compared to the groundwater standards for comparative purposes. The data are compared to the surface water standards to evaluate the potential for the groundwater to discharge into the Potomac River.

The results of the laboratory analysis were provided to Geosyntec in laboratory reports dated 6, 7, 12, 14, and 18 August 2015, copies of which are included in **Attachment D**. **Table 2a** presents a summary of the detected VOC and TPH constituents while a summary of detected PAH constituents is provided in **Table 2b**. The results for the analysis of metals are presented in **Table 2c**, and the results for certain metals corrected for hardness (to compare to respective GWQS/SWQS) are presented in **Table 2d**. Lastly, the results for the analysis of PCBs are presented in **Table 2e**.

TPH was not detected at concentrations above its respective GWQS or SWQS in any of the samples collected. VOCs and PAHs were detected above applicable GWQS and SWQS only in certain well locations. A description of the frequency of occurrence and discussion of results for those constituents detected at concentrations above GWQS and/or SWQS is provided below:

- Benzene was detected in exceedance of GWQS only in well TW-07 at a concentration of 7 µg/L;
- Benzo[b]fluoranthene was detected above GWQS and SWQS in well TW-07 at a concentration of 0.070 µg/L and above SWQS in well TW-06 at a concentration of 0.02 µg/L;
- Benzo[a]anthracene was detected above SWQS in well TW-07 at an estimated concentration of 0.05 µg/L and above SWQS in well TW-04 at a concentration of 0.02 µg/L;
- Benzo[a]pyrene was detected above SWQS only in well TW-07 at a concentration of 0.06 µg/L;
- Benzo[k]fluoranthene was detected above SWQS only in well TW-07 at a concentration of 0.05 µg/L;

[5] Groundwater Quality Standards - 21 DCMR 1100 DDOE - 1155.3 Numerical criteria for Class G1 groundwater; Surface Waterr Quality Standards - 21 DCMR 1100 DDOE - 1104 Table 2 Numeric Criteria

- Chrysene was detected above SWQS only in well TW-07 at a concentration of 0.06 µg/L;

- Indeno[1,2,3-cd]pyrene was detected above SWQS only in well TW-07 at a concentration of 0.06 µg/L; and

- Naphthalene was detected above GWQS in wells TW-04, TW-05, TW-06, and TW-07 with concentrations of 0.6 µg/L , 0.8 µg/L, 2 µg/L, and 2 µg/L respectively.

Metals detected in the samples collected from the shoreline wells include: aluminum, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, lithium, magnesium, manganese, molybdenum, nickel, potassium, sodium, selenium, thallium, vanadium, and zinc. Iron and manganese were the only constituents that were detected in excess of a GWQS or SWQS where one was available. These exceedances are attributed to the turbidity of the samples.

No PCBs were detected above laboratory method detection limits.

CONCLUSIONS

Geosyntec conducted a monitoring event for the shoreline wells (TW series) at the former Potomac River Generating Station. The following conclusions are based on the data compiled during this quarterly monitoring event as compared to prior data:

- Groundwater in both the shallow and deep zones generally flows easterly away from the former site buildings and toward the Potomac River. Localized flow along the shoreline is away from the pump house/screen house indicating a potential mounding effect of water that is perched in between the pump house and sheet wall along the shore;

- No TPH constituents were detected above DOEE groundwater and surface water criteria that were compared against the data;

- Benzene was the only VOCs detected above the groundwater criteria, and it was detected in only one well: TW-07. Benzene was detected within the same order of magnitude as the groundwater criteria (5 µg/L) and was detected at a concentration well below the surface water criteria of 51,000 µg/L;

- Several PAHs were detected above one or more groundwater or surface water criteria;

- Iron and manganese were the only metals detected above groundwater or surface water criteria. These exceedances are attributed to turbidity of the samples; and

- No PCBs were detected above method detection limits in any of the samples collected.

CLOSING

Geosyntec appreciates the opportunity to provide this information to you. Should you have any questions or require additional information, please either of the undersigned at (410) 381-4333.

Sincerely,

Mark Bauer, P.G.
Geologist

Mark A. Johnson
Senior Engineer

Attachments:
Table 1: Summary of Water Level Measurements
Table 2a: Summary of Groundwater Analytical Results – Volatile Organic Compounds, Total Petroleum Hydrocarbons, and Oil & Grease
Table 2b: Summary of Groundwater Analytical Results – Polynuclear Aromatic Hydrocarbons
Table 2c: Summary of Groundwater Analytical Results – Metals
Table 2d: Summary of Groundwater Analytical Results – Metals (Hardness-Corrected)
Table 2e: Summary of Groundwater Analytical Results – Polychlorinated Biphenyls
Figure 1: Site Location Map
Figure 2: Site Layout Map
Figure 3: Potentiometric Surface Map – Shallow Zone
Figure 4: Potentiometric Surface Map – Deep Zone
Attachment A: Laboratory Analytical Reports – 1st Quarter 2015
Attachment B: Laboratory Analytical Reports – 2nd Quarter 2015
Attachment C: Field Sampling Forms – August 2015
Attachment D: Laboratory Analytical Reports – 3rd Quarter 2015

Copy to:
Mr. Tim Klares – NRG
Mr. Steve Slatnick – GES
Mr. Alex Wardle – VDEQ
Mr. Khoa Tran – City of Alexandria

TABLES

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-02	12/18/2013	20.60	15.52	5.08	-	
	01/08/2014	20.60	15.08	5.52	-	
	03/07/2014	20.60	14.81	5.79	-	
	03/13/2014	20.60	14.22	6.38	-	
	03/20/2014	20.60	13.39	7.21	-	
	03/27/2014	20.60	14.31	6.29	-	
	04/03/2014	20.60	13.25	7.35	-	
	04/08/2014	20.60	13.74	6.86	-	
	04/17/2014	20.60	13.70	6.90	-	
	04/22/2014	20.60	13.62	6.98	-	
	04/29/2014	20.60	13.96	6.64	-	
	05/05/2014	20.60	13.55	7.05	-	
	05/12/2014	20.60	14.25	6.35	-	
	05/19/2014	20.60	13.63	6.97	-	
	05/27/2014	20.60	14.31	6.29	-	
	06/02/2014	20.60	14.34	6.26	-	
	06/09/2014	20.60	14.71	5.89	-	
	06/16/2014	20.60	14.30	6.30	-	
	06/23/2014	20.60	14.48	6.12	-	
	07/02/2014	20.60	14.77	5.83	-	
	07/07/2014	20.60	15.08	5.52	-	
	07/14/2014	20.60	15.02	5.58	-	
	07/31/2014	20.60	15.40	5.20	-	
	08/08/2014	20.60	15.40	5.20	-	
	08/11/2014	20.60	15.28	5.32	-	
	08/15/2014	20.60	14.84	5.76	-	
	08/18/2014	20.60	15.06	5.54	-	
	8/25/2014 [1]	NS	14.71	-	-	
	09/02/2014	NS	15.18	-	-	
	09/15/2014	NS	14.90	-	-	
	09/22/2014	NS	15.00	-	-	
	10/01/2014	NS	15.22	-	-	
	10/13/2014	NS	14.92	-	-	
	10/20/2014	NS	15.10	-	-	
	02/24/2015	16.11	14.34	1.77	15:01	
	05/11/2015	16.11	14.38	1.73	15:18	
	08/04/2015	16.11	15.08	1.03	12:15	

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Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-03	12/18/2013	14.87	9.08	5.79	-	
	01/08/2014	14.87	9.42	5.45	-	
	03/07/2014	14.87	7.66	7.21	-	
	03/13/2014	14.87	8.09	6.78	-	
	03/20/2014	14.87	7.50	7.37	-	
	03/27/2014	14.87	8.47	6.40	-	
	04/03/2014	14.87	6.99	7.88	-	
	04/08/2014	14.87	7.64	7.23	-	
	04/17/2014	14.87	7.33	7.54	-	
	04/22/2014	14.87	7.64	7.23	-	
	04/29/2014	14.87	7.36	7.51	-	
	05/05/2014	14.87	7.58	7.29	-	
	05/12/2014	14.87	7.93	6.94	-	
	05/19/2014	14.87	8.42	6.45	-	
	05/27/2014	14.87	7.69	7.18	-	
	06/02/2014	14.87	8.00	6.87	-	
	06/09/2014	14.87	7.77	7.10	-	
	06/16/2014	14.87	7.60	7.27	-	
	06/23/2014	14.87	7.68	7.19	-	
	07/02/2014	14.87	7.97	6.90	-	
	07/07/2014	14.87	8.31	6.56	-	
	07/14/2014	14.87	7.55	7.32	-	
	07/25/2014	14.87	8.45	6.42	-	
	07/31/2014	14.87	8.14	6.73	-	
	08/08/2014	14.87	8.39	6.48	-	
	08/11/2014	14.87	8.12	6.75	-	
	08/15/2014	14.87	8.10	6.77	-	
	08/18/2014	14.87	8.25	6.62	-	
	8/25/2014 [1]	10.40	7.85	2.55	-	
	09/02/2014	10.40	8.52	1.88	-	
	09/15/2014	10.40	8.33	2.07	-	
	09/22/2014	10.40	8.26	2.14	-	
	10/01/2014	10.40	8.35	2.05	-	
	10/13/2014	10.40	8.18	2.22	-	
	10/20/2014	10.40	8.50	1.90	-	
	02/24/2015	10.40	8.57	1.83	14:49	
	05/11/2015	10.40	7.74	2.66	15:23	
	08/04/2015	10.40	7.82	2.58	12:13	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-04	12/18/2013	13.26	6.25	7.01	-	
	01/08/2014	13.26	6.71	6.55	-	
	03/07/2014	13.26	6.06	7.20	-	
	03/13/2014	13.26	6.26	7.00	-	
	03/20/2014	13.26	6.17	7.09	-	
	03/27/2014	13.26	6.55	6.71	-	
	04/03/2014	13.26	4.64	8.62	-	
	04/08/2014	13.26	5.38	7.88	-	
	04/17/2014	13.26	5.60	7.66	-	
	04/22/2014	13.26	5.56	7.70	-	
	04/29/2014	13.26	5.91	7.35	-	
	05/05/2014	13.26	5.06	8.20	-	
	05/12/2014	13.26	5.82	7.44	-	
	05/19/2014	13.26	4.61	8.65	-	
	05/27/2014	13.26	5.66	7.60	-	
	06/02/2014	13.26	5.83	7.43	-	
	06/09/2014	13.26	5.87	7.39	-	
	06/16/2014	13.26	5.21	8.05	-	
	06/23/2014	13.26	5.68	7.58	-	
	07/02/2014	13.26	5.96	7.30	-	
	07/07/2014	13.26	6.18	7.08	-	
	07/14/2014	13.26	5.80	7.46	-	
	07/25/2014	13.26	6.20	7.06	-	
	07/31/2014	13.26	6.08	7.18	-	
	08/08/2014	13.26	6.21	7.05	-	
	08/11/2014	13.26	6.19	7.07	-	
	08/15/2014	13.26	5.99	7.27	-	
	08/18/2014	13.26	5.92	7.34	-	
	8/25/2014 [1]	9.49	5.87	3.62	-	
	09/02/2014	9.49	6.25	3.24	-	
	09/15/2014	9.49	6.17	3.32	-	
	09/22/2014	9.49	6.20	3.29	-	
	10/01/2014	9.49	6.23	3.26	-	
	10/10/2014	9.49	6.18	3.31	-	
	10/13/2014	9.49	6.19	3.30	-	
	10/20/2014	9.49	6.28	3.21	-	
	10/27/2014	9.49	6.04	3.45	-	
	11/07/2014	9.49	6.27	3.22	-	
	11/12/2014	9.49	6.19	3.30	-	
	11/21/2014	9.49	6.78	2.71	-	
	11/26/2014	9.49	6.33	3.16	-	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-04	12/05/2014	9.49	5.75	3.74	-	
	12/11/2014	9.49	5.60	3.89	-	
	12/16/2014	9.49	5.83	3.66	-	
	12/23/2014	9.49	5.82	3.67	-	
	12/30/2014	9.49	5.73	3.76	-	
	01/09/2015	9.49	6.06	3.43	-	
	01/16/2015	9.49	5.64	3.85	-	
	01/19/2015	9.49	5.37	4.12	-	
	01/26/2015	9.49	4.78	4.71	-	
	02/03/2015	9.49	6.06	3.43	-	
	02/09/2015	9.49	6.08	3.41	-	
	02/18/2015	9.49	6.19	3.30	-	
	02/24/2015	9.49	6.21	3.28	15:00	
	03/04/2015	9.49	6.11	3.38	11:45	
	03/11/2015	9.49	3.93	5.56	12:00	
	03/18/2015	9.49	5.40	4.09	10:23	
	03/26/2015	9.49	5.75	3.74	12:21	
	04/02/2015	9.49	5.85	3.64	10:28	
	04/08/2015	9.49	6.20	3.29	10:00	
	04/13/2015	9.49	6.28	3.21	9:55	
	04/23/2015	9.49	5.44	4.05	10:43	
	04/29/2015	9.49	5.85	3.64	13:15	
	05/04/2015	9.49	5.75	3.74	10:50	
	05/11/2015	9.49	5.83	3.66	15:33	
	05/21/2015	9.49	5.89	3.60	13:05	
	05/28/2015	9.49	6.28	3.21	10:55	
	06/02/2015	9.49	5.01	4.48	12:15	
	06/09/2015	9.49	5.17	4.32	9:45	
	06/16/2015	9.49	5.67	3.82	10:35	
	06/26/2015	9.49	4.98	4.51	8:45	
	07/01/2015	9.49	3.57	5.92	11:35	
	07/08/2015	9.49	4.57	4.92	10:20	
	07/13/2015	9.49	4.28	5.21	8:53	
	07/20/2015	9.49	5.32	4.17	8:40	
	08/04/2015	9.49	5.62	3.87	12:02	
	08/18/2015	9.49	5.88	3.61	9:20	
	08/24/2015	9.49	5.76	3.73	9:40	
	09/02/2015	9.49	5.92	3.57	11:36	
	09/09/2015	9.49	6.06	3.43	14:09	
	09/17/2015	9.49	6.11	3.38	11:48	
	09/23/2015	9.49	6.08	3.41	10:00	
	09/28/2015	9.49	5.61	3.88	10:36	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-05	12/18/2013	13.73	6.45	7.28	-	
	01/08/2014	13.73	6.98	6.75	-	
	03/07/2014	13.73	6.34	7.39	-	
	03/13/2014	13.73	6.49	7.24	-	
	03/20/2014	13.73	6.04	7.69	-	
	03/27/2014	13.73	6.68	7.05	-	
	04/03/2014	13.73	4.29	9.44	-	
	04/08/2014	13.73	5.36	8.37	-	
	04/17/2014	13.73	5.33	8.40	-	
	04/22/2014	13.73	5.65	8.08	-	
	04/29/2014	13.73	6.06	7.67	-	
	05/05/2014	13.73	4.91	8.82	-	
	05/12/2014	13.73	6.01	7.72	-	
	05/19/2014	13.73	4.65	9.08	-	
	05/27/2014	13.73	5.91	7.82	-	
	06/02/2014	13.73	6.07	7.66	-	
	06/09/2014	13.73	6.11	7.62	-	
	06/16/2014	13.73	5.28	8.45	-	
	06/23/2014	13.73	5.95	7.78	-	
	07/02/2014	13.73	6.28	7.45	-	
	07/07/2014	13.73	6.49	7.24	-	
	07/14/2014	13.73	6.06	7.67	-	
	07/25/2014	13.73	5.43	8.30	-	
	07/31/2014	13.73	6.50	7.23	-	
	08/08/2014	13.73	6.56	7.17	-	
	08/11/2014	13.73	6.51	7.22	-	
	08/15/2014	13.73	5.91	7.82	-	
	08/18/2014	13.73	6.14	7.59	-	
	8/25/2014 [1]	9.64	6.13	3.51	-	
	09/02/2014	9.64	6.59	3.05	-	
	09/15/2014	9.64	6.57	3.07	-	
	09/22/2014	9.64	6.58	3.06	-	
	10/01/2014	9.64	6.63	3.01	-	
	10/10/2014	9.64	6.52	3.12	-	
	10/13/2014	9.64	6.58	3.06	-	
	10/20/2014	9.64	6.60	3.04	-	
	10/27/2014	9.64	6.23	3.41	-	
	11/07/2014	9.64	6.58	3.06	-	
	11/12/2014	9.64	6.56	3.08	-	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-05	11/21/2014	9.64	7.07	2.57	-	
	11/26/2014	9.64	6.67	2.97	-	
	12/05/2014	9.64	5.57	4.07	-	
	12/11/2014	9.64	5.38	4.26	-	
	12/16/2014	9.64	5.86	3.78	-	
	12/23/2014	9.64	6.08	3.56	-	
	12/30/2014	9.64	5.50	4.14	-	
	01/09/2015	9.64	6.27	3.37	-	
	01/16/2015	9.64	5.48	4.16	-	
	01/19/2015	9.64	5.08	4.56	-	
	01/26/2015	9.64	4.30	5.34	-	
	02/03/2015	9.64	6.20	3.44	-	
	02/09/2015	9.64	6.38	3.26	-	
	02/18/2015	9.64	6.64	3.00	-	
	02/24/2015	9.64	6.61	3.03	14:57	
	03/04/2015	9.64	6.27	3.37	12:15	
	03/11/2015	9.64	3.15	6.49	12:03	
	03/18/2015	9.64	4.61	5.03	10:26	
	03/26/2015	9.64	5.94	3.70	12:25	
	04/02/2015	9.64	6.00	3.64	10:30	
	04/08/2015	9.64	6.41	3.23	10:05	
	04/13/2015	9.64	6.53	3.11	9:58	
	04/23/2015	9.64	5.48	4.16	10:45	
	04/29/2015	9.64	5.99	3.65	13:17	
	05/04/2015	9.64	5.94	3.70	10:53	
	05/11/2015	9.64	6.12	3.52	15:39	
	05/21/2015	9.64	6.15	3.49	13:07	
	05/28/2015	9.64	6.56	3.08	10:57	
	06/02/2015	9.64	4.05	5.59	12:18	
	06/09/2015	9.64	4.63	5.01	9:48	
	06/16/2015	9.64	5.99	3.65	10:38	
	06/26/2015	9.64	4.52	5.12	8:47	
	07/01/2015	9.64	1.82	7.82	11:38	
	07/08/2015	9.64	4.22	5.42	10:23	
	07/13/2015	9.64	4.24	5.40	8:55	
	07/20/2015	9.64	5.64	4.00	8:43	
	07/28/2015	9.64	6.01	3.63	13:15	
	08/04/2015	9.64	6.07	3.57	12:05	
	08/11/2015	9.64	5.56	4.08	12:30	
	08/18/2015	9.64	6.28	3.36	9:23	
	08/24/2015	9.64	6.23	3.41	9:43	
	09/02/2015	9.64	6.32	3.32	11:33	
	09/09/2015	9.64	6.73	2.91	14:06	
	09/17/2015	9.64	6.54	3.10	11:45	
	09/23/2015	9.64	6.41	3.23	10:03	
	09/28/2015	9.64	6.01	3.63	10:38	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-06	12/18/2013	13.97	6.21	7.76	-	
	01/08/2014	13.97	6.98	6.99	-	
	03/07/2014	13.97	6.40	7.57	-	
	03/13/2014	13.97	6.62	7.35	-	
	03/20/2014	13.97	6.26	7.71	-	
	03/27/2014	13.97	6.88	7.09	-	
	04/03/2014	13.97	4.81	9.16	-	
	04/08/2014	13.97	5.82	8.15	-	
	04/17/2014	13.97	5.41	8.56	-	
	04/22/2014	13.97	5.90	8.07	-	
	04/29/2014	13.97	6.30	7.67	-	
	05/05/2014	13.97	4.98	8.99	-	
	05/12/2014	13.97	6.18	7.79	-	
	05/19/2014	13.97	4.63	9.34	-	
	05/27/2014	13.97	6.79	7.18	-	
	06/02/2014	13.97	6.24	7.73	-	
	06/09/2014	13.97	6.31	7.66	-	
	06/16/2014	13.97	5.33	8.64	-	
	06/23/2014	13.97	6.12	7.85	-	
	07/02/2014	13.97	6.52	7.45	-	
	07/07/2014	13.97	6.70	7.27	-	
	07/14/2014	13.97	6.24	7.73	-	
	07/25/2014	13.97	6.65	7.32	-	
	08/08/2014	13.97	6.81	7.16	-	
	08/11/2014	13.97	6.71	7.26	-	
	08/15/2014	13.97	6.01	7.96	-	
	08/18/2014	13.97	6.33	7.64	-	
	8/25/2014 [1]	9.86	6.37	3.49	-	
	09/02/2014	9.86	6.80	3.06	-	
	09/15/2014	9.86	6.79	3.07	-	
	09/22/2014	9.86	6.77	3.09	-	
	10/01/2014	9.86	6.88	2.98	-	
	10/10/2014	9.86	6.77	3.09	-	
	10/13/2014	9.86	6.85	3.01	-	
	10/20/2014	9.86	6.76	3.10	-	
	10/27/2014	9.86	6.39	3.47	-	
	11/07/2014	9.86	6.83	3.03	-	
	11/12/2014	9.86	6.85	3.01	-	
	11/21/2014	9.86	7.28	2.58	-	
	11/26/2014	9.86	7.02	2.84	-	
	12/05/2014	9.86	5.85	4.01	-	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-06	12/11/2014	9.86	5.75	4.11	-	
	12/16/2014	9.86	6.18	3.68	-	
	12/23/2014	9.86	6.36	3.50	-	
	12/30/2014	9.86	5.85	4.01	-	
	01/09/2015	9.86	6.52	3.34	-	
	01/16/2015	9.86	5.77	4.09	-	
	01/19/2015	9.86	5.46	4.40	-	
	01/26/2015	9.86	4.69	5.17	-	
	02/03/2015	9.86	6.39	3.47	-	
	02/09/2015	9.86	6.62	3.24	-	
	02/18/2015	9.86	6.89	2.97	-	
	02/24/2015	9.86	6.90	2.96	14:54	
	03/04/2015	9.86	6.43	3.43	13:00	
	03/11/2015	9.86	4.47	5.39	12:06	
	03/18/2015	9.86	5.33	4.53	10:29	
	03/26/2015	9.86	6.13	3.73	12:27	
	04/02/2015	9.86	6.20	3.66	10:32	
	04/08/2015	9.86	6.66	3.20	10:15	
	04/13/2015	9.86	6.76	3.10	10:01	
	04/23/2015	9.86	5.62	4.24	10:47	
	04/29/2015	9.86	6.22	3.64	13:19	
	05/04/2015	9.86	6.14	3.72	10:56	
	05/11/2015	9.86	6.38	3.48	15:40	
	05/21/2015	9.86	6.24	3.62	13:09	
	05/28/2015	9.86	6.79	3.07	10:59	
	06/02/2015	9.86	4.41	5.45	12:21	
	06/09/2015	9.86	5.28	4.58	9:51	
	06/16/2015	9.86	6.24	3.62	10:41	
	06/26/2015	9.86	5.08	4.78	8:49	
	07/01/2015	9.86	3.55	6.31	11:41	
	07/08/2015	9.86	4.88	4.98	10:26	
	07/13/2015	9.86	4.78	5.08	8:55	
	07/20/2015	9.86	5.93	3.93	8:46	
	07/28/2015	9.86	6.31	3.55	12:55	
	08/04/2015	9.86	6.34	3.52	12:07	
	08/11/2015	9.86	6.15	3.71	12:35	
	08/18/2015	9.86	6.58	3.28	9:26	
	08/24/2015	9.86	6.51	3.35	9:46	
	09/02/2015	9.86	6.65	3.21	11:30	
	09/09/2015	9.86	6.02	3.84	14:03	
	09/17/2015	9.86	6.85	3.01	11:40	
	09/23/2015	9.86	6.69	3.17	10:06	
	09/28/2015	9.86	6.27	3.59	10:41	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-07	12/18/2013	14.00	7.56	6.44	-	
	01/08/2014	14.00	7.91	6.09	-	
	03/07/2014	14.00	6.91	7.09	-	
	03/13/2014	14.00	7.40	6.60	-	
	03/20/2014	14.00	6.78	7.22	-	
	03/27/2014	14.00	7.56	6.44	-	
	04/03/2014	14.00	5.67	8.33	-	
	04/08/2014	14.00	6.77	7.23	-	
	04/17/2014	14.00	5.51	8.49	-	
	04/22/2014	14.00	6.75	7.25	-	
	04/29/2014	14.00	6.60	7.40	-	
	05/05/2014	14.00	5.41	8.59	-	
	05/12/2014	14.00	6.89	7.11	-	
	05/19/2014	14.00	6.16	7.84	-	
	05/27/2014	14.00	6.70	7.30	-	
	06/02/2014	14.00	6.94	7.06	-	
	06/09/2014	14.00	7.81	6.19	-	
	06/16/2014	14.00	6.47	7.53	-	
	06/23/2014	14.00	6.69	7.31	-	
	07/02/2014	14.00	7.00	7.00	-	
	07/07/2014	14.00	7.27	6.73	-	
	07/14/2014	14.00	6.70	7.30	-	
	07/25/2014	14.00	7.33	6.67	-	
	07/31/2014	14.00	7.22	6.78	-	
	08/08/2014	14.00	7.39	6.61	-	
	08/11/2014	14.00	7.17	6.83	-	
	08/15/2014	14.00	7.05	6.95	-	
	08/18/2014	14.00	7.14	6.86	-	
	8/25/2014 [1]	9.88	6.87	3.01	-	
	09/02/2014	9.88	7.43	2.45	-	
	09/15/2014	9.88	7.33	2.55	-	
	09/22/2014	9.88	7.28	2.60	-	
	10/01/2014	9.88	7.38	2.50	-	
	10/13/2014	9.88	7.30	2.58	-	
	10/20/2014	9.88	7.49	2.39	-	
	02/24/2015	9.88	7.45	2.43	14:52	
	05/11/2015	9.88	6.92	2.96	15:27	
	08/04/2015	9.88	6.88	3.00	12:10	

Table 1
Summary of Water Level Measurements
Potomac River Generating Station, Alexandria, Virginia

Well Location	Date	Top of Casing (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)	Time	Comments
** See notes at end of table*						
TW-14	01/17/2014	15.55	2.48	13.07	-	
	03/07/2014	15.55	2.29	13.26	-	
	03/13/2014	15.55	2.55	13.00	-	
	03/20/2014	15.55	2.25	13.30	-	
	03/27/2014	15.55	2.42	13.13	-	
	04/03/2014	15.55	2.31	13.24	-	
	04/08/2014	15.55	2.27	13.28	-	
	04/17/2014	15.55	2.26	13.29	-	
	04/22/2014	15.55	2.48	13.07	-	
	04/29/2014	15.55	2.66	12.89	-	
	05/05/2014	15.55	2.56	12.99	-	
	05/12/2014	15.55	2.58	12.97	-	
	05/19/2014	15.55	2.38	13.17	-	
	06/02/2014	15.55	2.52	13.03	-	
	06/09/2014	15.55	2.50	13.05	-	
	06/16/2014	15.55	2.31	13.24	-	
	06/23/2014	15.55	2.44	13.11	-	
	07/02/2014	15.55	4.63	10.92	-	
	07/07/2014	15.55	4.65	10.90	-	
	07/14/2014	15.55	4.40	11.15	-	
	07/24/2014	15.55	4.46	11.09	-	
	07/31/2014	15.55	4.63	10.92	-	
	08/08/2014	15.55	4.43	11.12	-	
	08/11/2014	15.55	4.57	10.98	-	
	08/15/2014	15.55	4.36	11.19	-	
	08/18/2014	15.55	4.49	11.06	-	
	8/25/2014 [1]	11.61	3.01	8.60	-	
	09/02/2014	11.61	3.03	8.58	-	
	09/15/2014	11.61	3.19	8.42	-	
	09/22/2014	11.61	3.38	8.23	-	
	10/01/2014	11.61	3.50	8.11	-	
	10/10/2014	11.61	3.67	7.94	-	
	10/20/2014	11.61	3.02	8.59	-	
	02/24/2015	11.61	2.67	8.94	15:29	
	02/26/2015	11.61	2.68	8.93	12:00	
	05/11/2015	11.61	3.28	8.33	10:30	
	08/04/2015	11.61	3.37	8.24	10:31	
	08/11/2015	11.61	3.65	7.96	12:00	
	08/18/2015	11.61	3.83	7.78	9:15	

Notes:

ft-msl feet above mean sea level
ft-btoc feet below top of casing
\- Not recorded/calculated
NS Not surveyed (TW-02 was resurveyed in October 2014)
[1] In August 2014 site monitoring wells were resurveyed by Dewberry, Inc. after certain wells were adapted from stick-up to flush mount

Table 2a
Summary of Groundwater Analytical Results
Volatile Organic Compounds, Total Petroleum Hydrocarbons, and Oil & Grease
Potomac River Generating Station, Alexandria, Virginia

Sample Location	Date	Volatile Organic Compounds (µg/L)								Total Petroleum Hydrocarbons (µg/L)		
		Benzene	Toluene	Ethylbenzene	Xylene	Methyl tert-butylether	Tertbutyl alcohol	1,2-Dichloroethane	1,2-Dibromoethane	TPH-GRO	TPH-DRO	Oil and Grease
	GWQS [1]	5	1,000	700	10,000	22	1,410	5	0.0118	34,500	34,500	31,800
	SWQS [2]	51	600	40	NA	NA	NA	37	NA	NA	NA	10,000
TW-02	12/16/2013	<0.5	<0.5	<0.5	<0.5	0.791	NS	NS	NS	NS	584	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1,160	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	<600	NS
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	60	NS
	3/4/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	<45	2,000 J
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	<45	2,300 J
	8/5/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	<45	<1,400
TW-03	12/16/2013	<0.5	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NS	351	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1,160	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1,500	NS
	10/23/2014	0.7	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	49 J	NS
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	180	3,100 J
	5/13/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	21 J	200	<1,400
	8/5/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	150	<1,400
TW-04	12/16/2013	2.2	<0.5	3.45	7.11	<0.5	NS	NS	NS	NS	2,000	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,270	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,610	NS
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<20	160	NS
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	27 J	940	3,800 J
	5/13/2015	1 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	33 J	700	3,500 J
	8/6/2015	0.6 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	38 J	1,000	1,700 J
TW-05	12/16/2013	**7.68**	<0.5	**62.8**	40.3	<0.5	NS	NS	NS	NS	**136,000**	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	**663,00**	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	**271,000**	NS
	10/23/2014	4	<0.5	14	<0.5	<0.5	<2	<0.5	<0.5	140	29,000	NS
	3/4/2015	2	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	130	2,200	2,800 J
	5/13/2015	3	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	44 J	1,100	<1,400
	8/6/2015	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	37 J	790	1,500 J

Table 2a
Summary of Groundwater Analytical Results
Volatile Organic Compounds, Total Petroleum Hydrocarbons, and Oil & Grease
Potomac River Generating Station, Alexandria, Virginia

Sample Location	Date	Volatile Organic Compounds (µg/L)								Total Petroleum Hydrocarbons (µg/L)		
		Benzene	Toluene	Ethylbenzene	Xylene	Methyl tert-butylether	Tertbutyl alcohol	1,2-Dichloroethane	1,2-Dibromoethane	TPH-GRO	TPH-DRO	Oil and Grease
	GWQS [1]	5	1,000	700	10,000	22	1,410	5	0.0118	34,500	34,500	31,800
	SWQS [2]	51	600	40	NA	NA	NA	37	NA	NA	NA	10,000
TW-06	12/16/2013	1.09	<0.5	20.3	7.86	<0.5	NS	NS	NS	NS	**47,000**	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	**113,000**	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	**147,000**	NS
	10/23/2014	0.8	<0.5	11	1	<0.5	<2	<0.5	<0.5	230	16,000	NS
	3/4/2015	2	<0.5	6	<0.5	<0.5	<2	<0.5	<0.5	170	2,200	1,900 J
	5/13/2015	2	<0.5	4	<0.5	<0.5	<2	<0.5	<0.5	130	2,300	2,800 J
	8/6/2015	2	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	81	1,400	<1,400
TW-07	12/16/2013	2.38	<0.5	0.969	<0.5	<0.5	NS	NS	NS	NS	3,290	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	**41,500**	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	19,600	NS
	10/23/2014	2	<0.5	0.6 J	<0.5	<0.5	<2	<0.5	<0.5	29 J	4,700	NS
	3/4/2015	**9**	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	46 J	670	3,300 J
	5/13/2015	**10**	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	36 J	320	<1,400
	8/5/2015	**7**	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	57	220	<1,400
TW-14	1/17/2014	<0.5	<0.5	<0.5	<0.5	0.536	NS	NS	NS	NS	2,290	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	16,000	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,900	NS
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	100	670	NS
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	73	120	1,800 J
	5/12/2015	1	<0.5	<0.5	<0.5	<0.5	7.00	<0.5	<0.5	220	2,000	NS
	8/11/2015 [3]	1	<0.5	<0.5	<0.5	<0.5	9	<0.5	<0.5	130	3,700	1,600 J

Notes:

NS Not Sampled

NA No applicable surface water standard.

µg/L micrograms per liter

J Constituent detected below reportable quantitation limit, or result is an estimated value

< Indicates the sample results were not detected above the listed the method detection limit

[1] Groundwater Quality Standards - Department Of Energy & Environment (DOEE) Risk Based Corrective Action (RBCA) Ground Water Standards - Table 5-8 Risk-Based Levels for a Resident Child - Domestic Use of Water (ingestion and Inhalation)

[2] Surface Wate Quality Standards - Department Of Energy & Environment (DOEE) Risk Based Corrective Action (RBCA) Surface Water Standards - Table 5-6 Groundwater and Surface Water Standards at the Point of Exposure and 21 DCMR 1100 DDOE

[3] Sample collected from 8/11/15 to 8/18/15 due to a limited volume of water in the monitoring well.

Bold indicates an exceedance, for comparative purpose, of one or more standards (groundwater and/or surface water)

Table 2b
Summary of Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
Potomac River Generating Station, Alexandria, Virginia

Sample Location	Date/ Standards	Polycyclic Aromatic Hyrocarbons (PAHs) (µg/l)											
		1-Methylnaph-thalene	2-Methylnaph-thalene	Acenaph-thene	Ace-naphthylene	Anthracene	Benzo(b) fluoranthene	Benzo[a] anthracene	Benzo[a] pyrene	Benzo [g,h,i] perylene	Benzo [k] fluoranthene	Benzo (e) pyrene	Biphenyl
	GWQS [1]	NA	NA	939	NA	4,690	0.0529	0.0529	NA	469	0.0785	NA	NA
	SWQS [2]	NA	NA	50	NA	40,000	0.018	0.018	0.018	NA	0.018	NA	NA
TW-02	3/4/2015	0.045 J	0.043 J	0.17	<0.010	0.038 J	0.014 J	**0.018 J**	0.011 J	0.011 J	<0.010	NS	NS
	5/13/2015	0.093	0.11	0.20	0.085	0.13	**0.70**	**0.51**	**0.56**	0.47	**0.27**	NS	NS
	8/5/2015	0.04 J	0.03 J	0.20	<0.02	0.04 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
TW-03	3/4/2015	0.14	0.049 J	0.18	<0.010	0.028 J	**0.021 J**	**0.019 J**	0.016 J	0.013 J	<0.010	NS	NS
	5/13/2015	0.071	0.037 J	0.26	0.028 J	0.068	**0.21**	**0.17**	**0.18**	0.12	**0.088**	NS	NS
	8/5/2015	0.200	0.05	0.20	<0.02	0.05 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.700
TW-04	12/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/23/2014	0.9	0.2	1	0.03 J	0.4	**0.2**	**0.1**	**0.08**	0.05	**0.1**	NS	NS
	3/4/2015	2.2	0.15	1.3	<0.010	0.37	0.017 J	**0.018 J**	<0.010	<0.010	<0.010	NS	NS
	5/13/2015	2.7	0.076	0.74	<0.010	0.10	**0.070**	**0.049 J**	**0.042 J**	0.034 J	**0.029 J**	NS	NS
	8/6/2015	3	0.07	0.5	<0.02	0.07	<0.02	**0.02**	<0.02	<0.02	<0.02	<0.02	2
TW-05	12/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/23/2014	33	15	3	0.9	2	**0.4 J**	**0.5 J**	**0.2 J**	0.2 J	**0.2 J**	NS	NS
	3/4/2015	5.3	0.65	0.63	<0.010	0.23	**0.024 J**	**0.034 J**	0.017 J	0.014 J	<0.010	NS	NS
	5/13/2015	0.81	0.19	0.41	<0.010	0.071	**0.048 J**	**0.046 J**	**0.031 J**	0.028 J	0.015 J	NS	NS
	8/6/2015	1	0.2	0.7	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	2
TW-06	12/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/23/2014	59	<0.2	4	1	1	**0.6**	**0.6**	**0.4 J**	0.3 J	**0.3 J**	NS	NS
	3/4/2015	28	<0.010	3.1	<0.010	0.32	<0.010	0.011 J	<0.010	<0.010	<0.010	NS	NS
	5/13/2015	16	0.087	1.6	<0.010	0.18	<0.010	0.015 J	<0.010	<0.010	<0.010	NS	NS
	8/6/2015	10	0.2	2	0.2	0.1	**0.02**	<0.02	<0.02	<0.02	<0.02	<0.02	6
TW-07	12/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/23/2014	6	7	0.4	<0.02	0.04 J	**0.06**	**0.04 J**	**0.04 J**	0.03 J	**0.04 J**	NS	NS
	3/4/2015	0.43	0.38	0.056	<0.010	0.015 J	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS
	5/13/2015	0.33	0.25	<0.010	<0.010	<0.010	**0.053**	**0.034 J**	**0.041 J**	0.036 J	**0.021 J**	NS	NS
	8/5/2015	0.2	0.2	0.1	0.02 J	0.02 J	**0.07**	**0.05 J**	**0.06**	0.05	**0.05**	0.06	0.4
TW-14	1/17/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/26/2015	0.011 J	<0.010	0.012 J	0.013 J	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS
	5/12/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/13/2015	0.2 J	0.4	<0.08	4	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.09 J

Notes:

NS Not Sampled
NA No applicable surface water standard
µg/L micrograms per Liter
J Constituent detected below reportable quantitation limit, or result is an estimated value
< Indicates the sample results are non-detect and are below the method detection limit
[1] Groundwater Quality Standards - Department Of Energy & Environment (DOEE) Risk Based Corrective Action (RBCA) Ground Water Standards - Table 5-8 Risk-Based Levels for a Resident Child - Domestic Use of Water (ingestion and Inhalation)
[2] Surface Wate Quality Standards - Department Of Energy & Environment (DOEE) Risk Based Corrective Action (RBCA) Surface Water Standards - Table 5-6 Groundwater and Surface Water Standards at the Point of Exposure and 21 DCMR 1100 DDOE
[3] Sample collected over several days due to a limited volume of water in the monitoring well
Bold indicates an exceedance, for comparative purpose, of one or more standards (groundwater and/or surface water)

Table 2b
Summary of Groundwater Analytical Results
Polynuclear Aromatic Hydrocarbons
Potomac River Generating Station, Alexandria, Virginia

Sample Location	Date/ Standards	Polycyclic Aromatic Hyrocarbons (PAHs) (µg/l)											
		Chrysene	Dibenz[a,h]-anthracene	Dibenzo-furan	Dibenzo-thiophene	Fluor-anthene	Fluorene	Indeno-[1,2,3-cd] pyrene	Naptha-lene	Naphtho-benzo-thiophene	Perylene	Phenan-threne	Pyrene
	GWQS [1]	0.785	NA	NA	NA	626	626	NA	0.268	NA	NA	469	469
	SWQS [2]	0.018	0.018	NA	NA	140	5,300	0.018	600	NA	NA	NA	4,000
TW-02	3/4/2015	0.015 J	<0.010	NS	NS	0.15	0.065	<0.010	0.20	NS	NS	0.14	0.13
	5/13/2015	**0.59**	**0.13**	NS	NS	1.0	0.12	**0.40**	<1	NS	NS	0.64	1.0
	8/5/2015	<0.02	<0.02	0.04 J	<0.02	0.1	0.07	<0.02	0.20	<0.02	<0.02	0.10	0.10
TW-03	3/4/2015	0.016 J	<0.010	NS	NS	0.037 J	0.36	0.011 J	<0.030	NS	NS	0.14	0.047 J
	5/13/2015	0.17	**0.032 J**	NS	NS	0.25	0.43	0.12	<1	NS	NS	0.27	0.23
	8/5/2015	<0.02	<0.02	0.2	0.07	0.03 J	0.40	<0.02	0.20	<0.02	<0.02	0.3	0.05 J
TW-04	12/16/2013	NS	NS	NS	NS	NS	NS	NS	**27.7**	NS	NS	NS	NS
	10/23/2014	**0.2**	<0.02	NS	NS	1	1	**0.05**	**0.3**	NS	NS	3	0.7
	3/4/2015	**0.021 J**	<0.010	NS	NS	0.66	0.53	<0.010	**1**	NS	NS	1.2	0.24
	5/13/2015	**0.069**	<0.010	NS	NS	0.28	0.37	**0.033 J**	<1	NS	NS	0.21	0.21
	8/6/2015	<0.02	<0.02	0.1	<0.02	0.1	0.4	<0.02	**0.6**	<0.02	<0.02	0.04 J	0.04 J
TW-05	12/16/2013	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS	NS	NS
	7/7/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/23/2014	**0.7**	<0.2	NS	NS	1	5	<0.2	**21**	NS	NS	10	5
	3/4/2015	**0.050 J**	<0.010	NS	NS	0.11	0.65	<0.010	**3.0**	NS	NS	0.52	0.29
	5/13/2015	**0.071**	<0.010	NS	NS	0.099	0.42	**0.022 J**	**1 J**	NS	NS	0.084	0.36
	8/6/2015	<0.02	<0.02	0.2	0.05	0.05	0.3	<0.02	**0.8**	<0.02	<0.02	0.2	0.07
TW-06	12/16/2013	NS	NS	NS	NS	NS	NS	NS	**174**	NS	NS	NS	NS
	10/23/2014	**0.8**	<0.2	NS	NS	2	8	**0.2 J**	**5**	NS	NS	16	6
	3/4/2015	<0.010	<0.010	NS	NS	0.094	4.5	<0.010	<0.030	NS	NS	2.8	0.18
	5/13/2015	**0.023 J**	<0.010	NS	NS	0.074	<0.010	<0.010	**4**	NS	NS	1.0	0.24
	8/6/2015	<0.02	<0.02	0.7	0.4	0.08	3	<0.02	**2**	<0.02	<0.02	1	0.2
TW-07	12/16/2013	NS	NS	NS	NS	NS	NS	NS	**34**	NS	NS	NS	NS
	10/23/2014	**0.08**	<0.02	NS	NS	0.1	0.4	**0.03 J**	**6**	NS	NS	0.5	0.6
	3/4/2015	0.014 J	<0.010	NS	NS	0.028 J	0.053	<0.010	**2.2**	NS	NS	0.060 J	0.077
	5/13/2015	**0.045 J**	<0.010	NS	NS	0.054	0.058	**0.032 J**	**3 J**	NS	NS	<0.030	0.15
	8/5/2015	**0.06**	<0.02	<0.02	<0.02	0.07	0.04 J	**0.06**	**2**	<0.02	<0.02	0.03 J	0.2
TW-14	1/17/2014	NS	NS	NS	NS	NS	NS	NS	<0.02	NS	NS	NS	NS
	2/26/2015	<0.010	<0.010	NS	NS	0.022 J	0.014 J	<0.010	<0.030	NS	NS	<0.010	0.022 J
	5/12/2015	NS	NS	NS	NS	NS	NS	NS	<1	NS	NS	NS	NS
	8/13/2015	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.09 J	<0.08

Notes:

NS Not Sampled
NA No applicable surface water standard
µg/L micrograms per Liter
J Constituent detected below reportable quantitation limit, or result is an estimated value
< Indicates the sample results are non-detect and are below the method detection limit
[1] Groundwater Quality Standards - Department Of Energy & Environment (DOEE) Risk Based Corrective Action (RBCA) Ground Water Standards - Table 5-8 Risk-Based Levels for a Resident Child - Domestic Use of Water (ingestion and Inhalation)
[2] Surface Wate Quality Standards - Department Of Energy & Environment (DOEE) Risk Based Corrective Action (RBCA) Surface Water Standards - Table 5-6 Groundwater and Surface Water Standards at the Point of Exposure and 21 DCMR 1100 DDOE
[3] Sample collected over several days due to a limited volume of water in the monitoring well
Bold indicates an exceedance, for comparative purpose, of one or more standards (groundwater and/or surface water)

Table 2c
Summary of Groundwater Analytical Results
Metals
Potomac River Generating Station, Alexandria, Virginia

Sample Location	Date	Metals (mg/L)													
		Aluminum	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Boron**	**Cadmium**	**Calcium**	**Chromium**	**Cobalt**	**Copper**	**Iron**	**Lead**	**Lithium**
	GWQS [1]	NA	NA	0.05	1.0	NA	NA	0.005	NA	0.1	NA	1.0	0.3	0.05	NA
	SWQS [2]	NA	0.640	0.340	NA	NA	NA	[3]	NA	[3]	NA	[3]	1	[3]	NA
TW-02	8/5/2015	0.0364 J	<0.00033	0.0014 J	0.0862	<0.000071	0.163	<0.00023	88.5	<0.00070	<0.00090	<0.00040	**7.99**	0.00064 J	0.238 [4]
TW-03	8/5/2015	1.05	<0.00033	0.0094	0.0490	0.0012	0.0628	0.00035 J	55.2	0.0011 J	0.0814	0.0050	**30.4**	0.0091	0.0187J [4]
TW-04	8/6/2015	2.41	<0.00033	0.0134	0.312	0.00023 J	0.0780	<0.00023	225	0.0067	0.0168	0.0074	**98.4**	0.0084	0.0132 J
TW-05	8/6/2015	0.412	<0.00033	0.0068	0.187	0.00020 J	0.0852	<0.00023	127	<0.00070	0.0596	0.0022	**68.7**	0.0062	0.0117 J
TW-06	8/6/2015	0.0285 J	<0.00033	0.0043	0.0882	<0.000071	0.127	<0.00023	149	<0.00070	0.0121	0.00087 J	**73.2**	0.0019	0.0284
TW-07	8/5/2015	2.60	<0.00033	0.005	0.0288	0.0025	0.0598	0.00075	53.1	0.0014 J	0.117	0.0036	**7.91**	0.0328	0.0161 J [4]
TW-14	8/13/2015	18.9	0.00049 J	0.0149	0.275	0.0011	0.232	0.00031 J	129	0.0259	0.0202	0.0438	**38.6**	0.0458	0.0136 J

Notes:

NR Not reported
mg/L milligrams per liter
J Constituent detected below reportable quantitation limit, or result is an estimated value
< Indicates the sample results were not detected above the listed the method detection limit
[1] Groundwater Quality Standards - 21 DCMR 1100 DDOE - 1155.3 Numerical criteria for Class G1 groundwater
[2] Surface Water Quality Standards - 21 DCMR 1100 DDOE - 1104 Table 2 Numeric Criteria - 30-Day Avg used if CMC criteria does not exist
[3] SWQS are harness dependent, criterion are calculated on Table 2d
[4] The initial calibration blank for lithium was out of specification, reading 0.0079 mg/L (MDL is 0.0080 mg/L); the data was accepted as is taking into account the blank result

Table 2c
Summary of Groundwater Analytical Results
Metals
Potomac River Generating Station, Alexandria, Virginia

Sample Location	Date	Metals (mg/L)											
		Magnesium	Manganese	Mercury	Moly-bdenum	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
	GWQS [1]	NA	0.05	0.002	NA	NA	NA	NA	0.05	0.05	NA	NA	5.0
	SWQS [2]	NA	NA	0.0014	NA	[3]	NA	NA	0.020	[3]	0.00047	NA	[3]
TW-02	8/5/2015	36.2	**2.93**	<0.000050	<0.0017	0.0012 J	15.0	51.8	<0.00050	<0.00011	<0.00015	<0.0014	0.0100 J
TW-03	8/5/2015	18.8	**4.69**	<0.000050	<0.0017	0.0388	8.57	37.7	<0.00050	<0.00011	<0.00015	0.0018 J	0.141
TW-04	8/6/2015	18.0	**4.11**	<0.000050	0.0020 J	0.0213	20.1	23.6	0.00062 J	<0.00011	0.00031 J	0.0061	0.0971
TW-05	8/6/2015	16.2	**3.25**	<0.000050	<0.0017	0.0352	22.7	24.4	0.00067 J	<0.00011	0.00019 J	<0.0014	0.155
TW-06	8/6/2015	10.1	**2.73**	<0.000050	0.0059 J	0.0076	14.7	39.2	<0.00050	<0.00011	<0.00015	<0.0014	<0.0074
TW-07	8/5/2015	19.5	**4.55**	<0.000050	<0.0017	0.0556	7.44	38.6	0.00056 J	<0.00011	<0.00015	<0.0014	0.138
TW-14	8/13/2015	31.4	**2.75**	0.00015 J	0.0019 J	0.0372	6.30	37.1	0.0011 J	<0.00011	0.00030 J	0.0383	0.184

Notes:

NR Not reported
mg/L milligrams per liter
J Constituent detected below reportable quantitation limit, or result is an estimated value
< Indicates the sample results were not detected above the listed the method detection limit
[1] Groundwater Quality Standards - 21 DCMR 1100 DDOE - 1155.3 Numerical criteria for Class G1 groundwater
[2] Surface Water Quality Standards - 21 DCMR 1100 DDOE - 1104 Table 2 Numeric Criteria - 30-Day Avg used if CMC criteria does not exist
[3] SWQS are harness dependent, criterion are calculated on Table 2d
[4] The initial calibration blank for lithium was out of specification, reading 0.0079 mg/L (MDL is 0.0080 mg/L); the data was accepted as is taking into account the blank result

Table 2d
Summary of Groundwater Analytical Results
Hardness Dependent Metals
Potomac River Generating Station, Alexandria, Virginia

Analyte: [1,2]		Hardness (mg/L)	Cadmium (mg/L)			Chromium (mg/L)			Copper (mg/L)		
Station [3]	**Date**		**Criterion Maximum Concentration** [3]	**Criterion Continuous Concentration** [3]	**Dissolved Result**	**Criterion Maximum Concentration** [3,4]	**Criterion Continuous Concentration** [3,4]	**Dissolved Result**	**Criterion Maximum Concentration** [3]	**Criterion Continuous Concentration** [3]	**Dissolved Result**
TW-02	8/5/2015	370	7,170	610	<0.00023	1,663,611	216,401	<0.00070	46,103	27,392	<0.00040
TW-03	8/5/2015	215	4,130	410	0.00035 J	1,066,502	138,730	0.0011 J	27,643	17,225	0.0050
TW-04	8/6/2015	639	12,500	910	<0.00023	260,255	338,538	0.0067	77,146	43,692	0.0074
TW-05	8/6/2015	382	7,410	620	<0.00023	1,707,672	222,133	<0.00070.	47,510	28,149	0.0022
TW-06	8/6/2015	417	8,050	660	<0.00023	1,834,788	238,668	<0.00070	51,601	30,339	0.00087 J
TW-07	8/5/2015	213	4,200	420	0.00075	1,058,369	137,672	0.0014 J	27,401	17,088	0.0036
TW-14	8/13/2015	456	8,780	700	0.00031 J	1,974,180	256,800	0.0259	56,136	32,748	0.0438

Analyte: [1,2]		Hardness (mg/L)	Lead (mg/L)			Nickel (mg/L)		
Station [3]	**Date**		**Criterion Maximum Concentration** [3]	**Criterion Continuous Concentration** [3]	**Dissolved Result**	**Criterion Maximum Concentration** [3]	**Criterion Continuous Concentration** [3]	**Dissolved Result**
TW-02	8/5/2015	370	259,217	10,101	0.00064 J	1,416,326	157,310	0.0012 J
TW-03	8/5/2015	215	146,990	5,728	0.0091	894,762	99,380	0.0388
TW-04	8/6/2015	639	450,772	17,565	0.0084	2,248,631	249,753	0.0213
TW-05	8/6/2015	382	267,875	10,438	0.0062	1,455,091	161,615	0.0352
TW-06	8/6/2015	417	293,079	11,420	0.0019	1,567,110	174,057	0.0076
TW-07	8/5/2015	213	145,543	5,671	0.0328	887,715	98,597	0.0556
TW-14	8/13/2015	456	321,068	12,511	0.0458	1,690,241	187,733	0.0372

Analyte: [1,2]		Hardness (mg/L)	Silver (mg/L)			Zinc (mg/L)		
Station [3]	**Date**		**Criterion Maximum Concentration** [3]	**Criterion Continuous Concentration** [5]	**Dissolved Result**	**Criterion Maximum Concentration** [3]	**Criterion Continuous Concentration** [3]	**Dissolved Result**
TW-02	8/5/2015	370	30,529	NA	<0.00011	355,052	357,956	0.0100 J
TW-03	8/5/2015	215	12,000	NA	<0.00011	224,145	225,979	0.141
TW-04	8/6/2015	639	78,141	NA	<0.00011	564,099	568,714	0.0971
TW-05	8/6/2015	382	32,252	NA	<0.00011	364,785	367,769	0.155
TW-06	8/6/2015	417	37,501	NA	<0.00011	392,913	396,127	<0.0074
TW-07	8/5/2015	213	11,809	NA	<0.00011	222,377	224,196	0.138
TW-14	8/13/2015	456	43,735	NA	<0.00011	423,834	427,301	0.184

Notes:

mg/L milligrams per liter

J Constituent detected below the reportable quantitation limit, or result is an estimated value

< Indicates the sample results were not detected above the listed the method detection limit

[1] All samples were filtered.

[2] Surface Water Quality Standards - 21 DCMR 1100 DDOE - 1104 Table 2 Numeric Criteria

[3] The calculations used to develop these criteria can be found at-Surface Water Quality Standards - 21 DCMR 1100 DDOE - 1104

[4] Criterion for chromium calculated using Chromium VI

[5] Criterion Continuous Concentration data not available

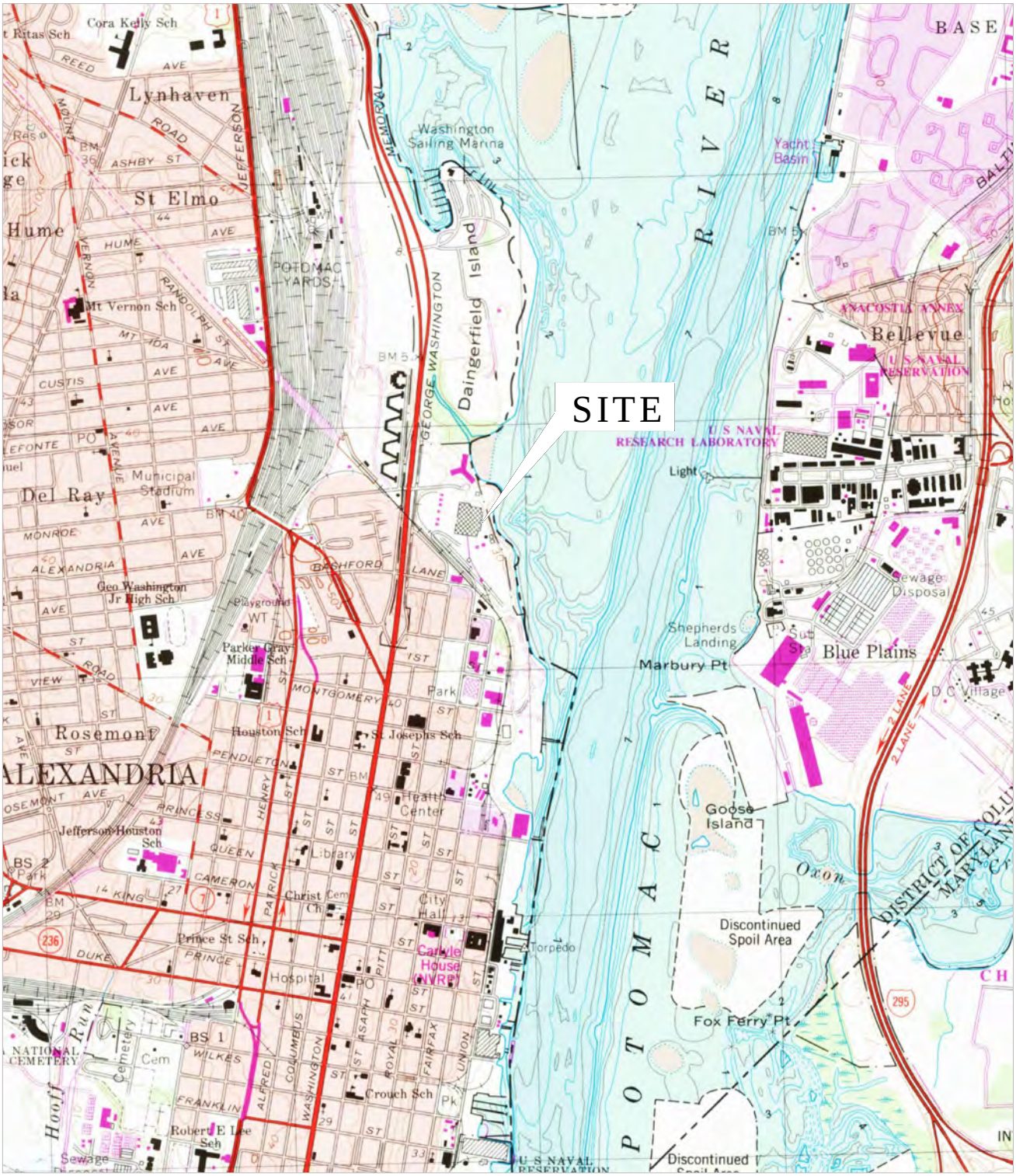
Table 2e
Summary of Groundwater Analytical Results
Polychlorinated Biphenyls
Potomac River Generating Station, Alexandria, Virginia

Sample Location	Date	Polychlorinated Biphenyls (PCBs) (µg/L)						
		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
TW-02	8/5/2015	<0.081	<0.081	<0.16	<0.081	<0.081	<0.081	<0.12
TW-03	8/5/2015	<0.081	<0.081	<0.16	<0.081	<0.081	<0.081	<0.12
TW-04	8/6/2015	<0.081	<0.081	<0.16	<0.081	<0.081	<0.081	<0.12
TW-05	8/6/2015	<0.081	<0.081	<0.16	<0.081	<0.081	<0.081	<0.12
TW-06	8/6/2015	<0.081	<0.081	<0.16	<0.081	<0.081	<0.081	<0.12
TW-06	8/5/2015	<0.081	<0.081	<0.16	<0.081	<0.081	<0.081	<0.12
TW-14	8/13/2015	<0.084	<0.084	<0.17	<0.084	<0.084	<0.084	<0.13

Notes:

NS Not Sampled
µg/L micrograms per Liter
< Indicates the sample results are non-detect and are below the method detection limit.

FIGURES



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

2000 1000 0 2000 Feet

SITE LOCATION MAP

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

QUADRANGLE LOCATION
NO SCALE

Geosyntec consultants
COLUMBIA, MARYLAND

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

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N

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

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:	OCTOBER 2015
DRAWN BY:	JOC	PROJECT NO.:	MEM1108
CHECKED BY:	MAH	FILE:	1108f812
REVIEWED BY:	MAJ	FIGURE NO.:	2
APPROVED BY:			

FOR INFORMATION ONLY

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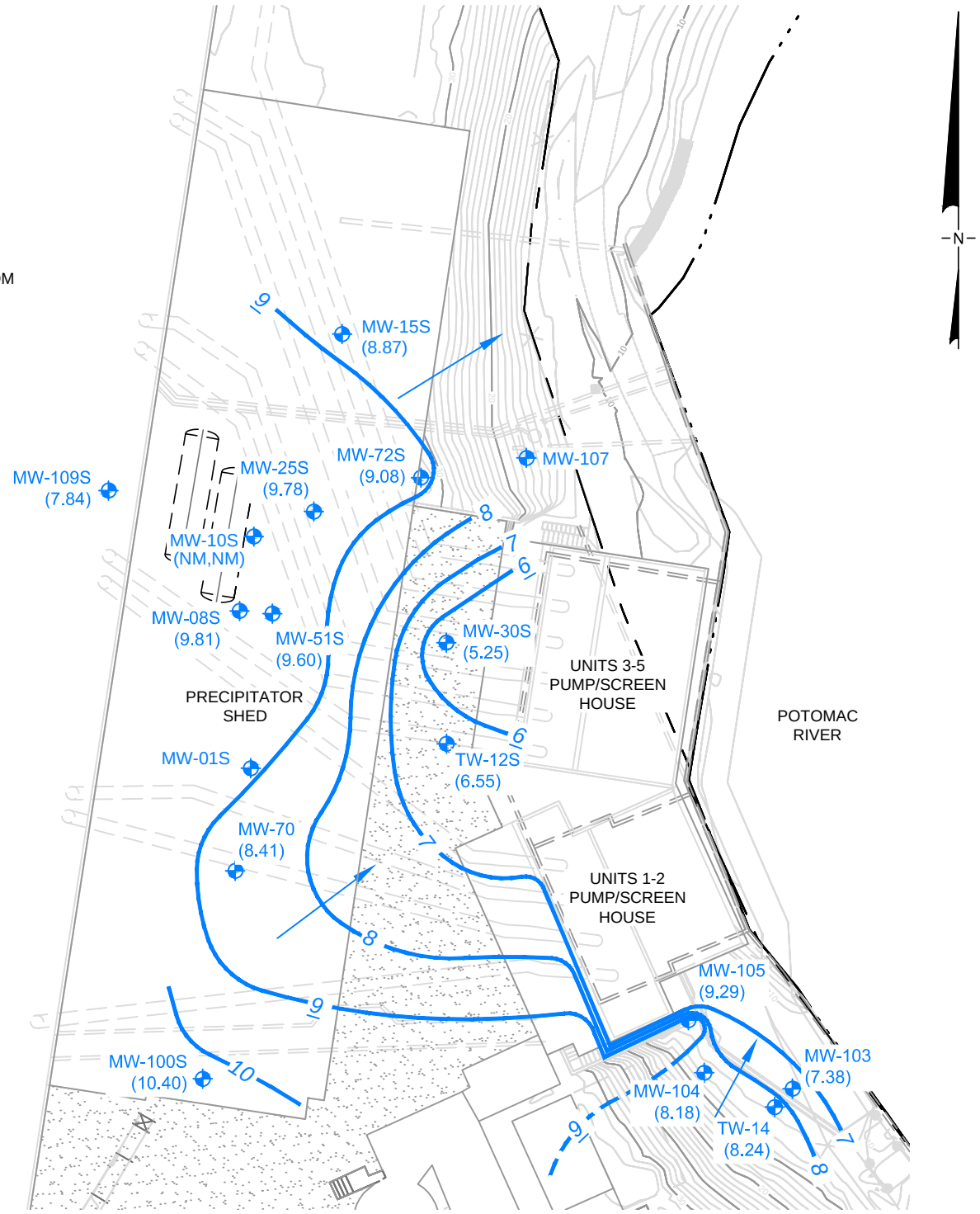

LEGEND

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

50 25 0 50 Feet

NOTES:
Data collected by GES, August 2015.

POTENTIOMETRIC SURFACE – SHALLOW ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

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

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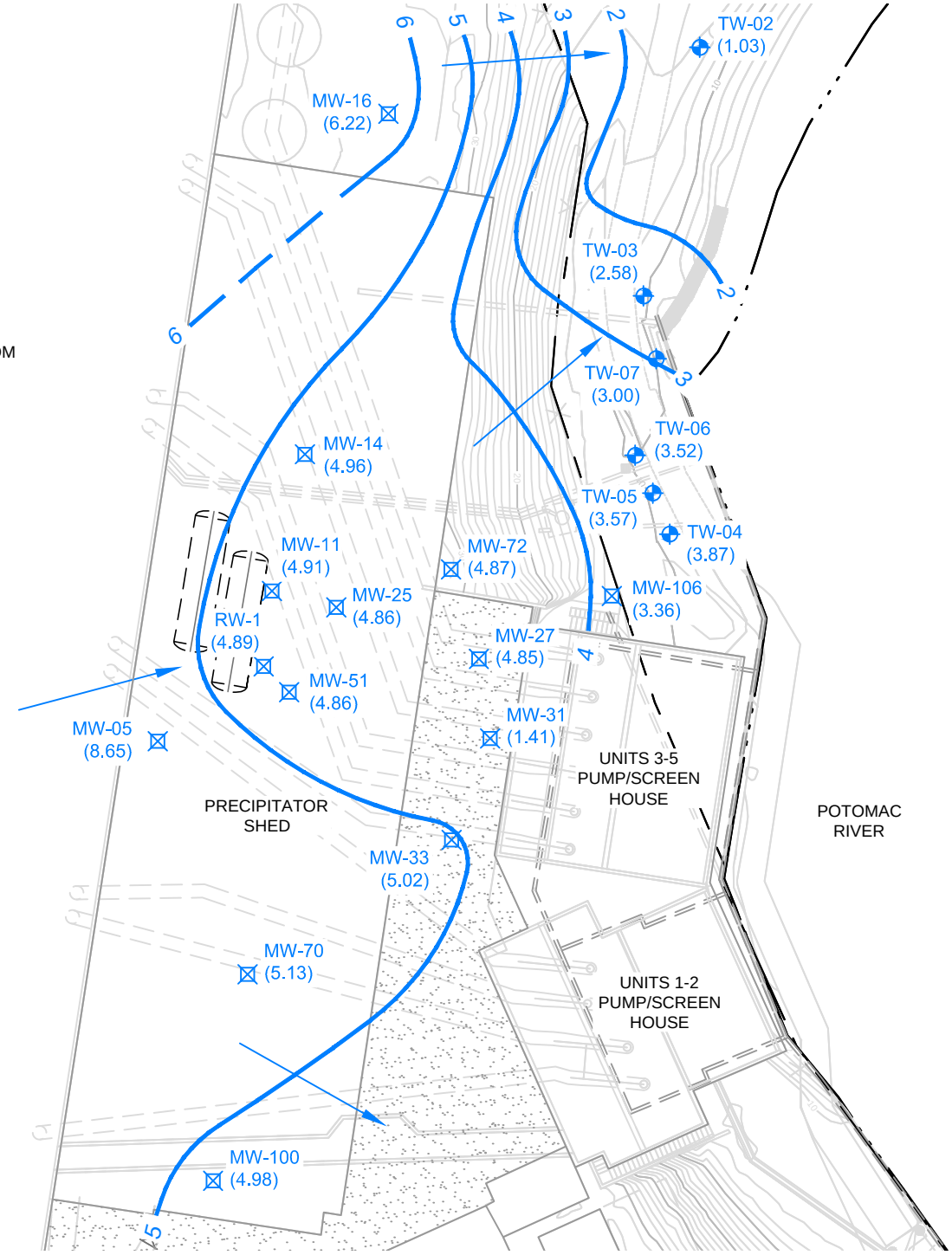

LEGEND

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

50 25 0 50 Feet

NOTES:
Data collected by GES, August 2015.

MW-05 was not used to generate the potentiometric surface because it appears to be screened across both shallow and deep zones.

MW-31 groundwater elevation appears to be anomalous and was not use to generate deep zone contours.

POTENTIOMETRIC SURFACE – DEEP ZONE

FORMER POTOMAC RIVER GENERATING STATION
ALEXANDRIA, VIRGINIA

Geosyntec consultants
COLUMBIA, MARYLAND

DATE:	OCTOBER 2015	DOCUMENT NO.	
PROJECT NO.	MEM1108	FIGURE NO.	4

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ATTACHMENT A

LABORATORY ANALYTICAL REPORTS – 1st QUARTER 2015

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

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.

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Analysis Report

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

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

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
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

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Analysis Report

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

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: 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.
Suite A
1350 Blair Dr
Odenton MD 21113

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.

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Analysis Report

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.
Suite A
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: 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
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

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Analysis Report

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

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Analysis Report

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

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

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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.

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Analysis Report

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.
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 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 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

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Analysis Report

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

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Analysis Report

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: 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

GES, Inc.
Suite A
1350 Blair Dr
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

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Analysis Report

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

GES, Inc.
Suite A
1350 Blair Dr
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

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Analysis Report

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

GES, Inc.
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1350 Blair Dr
Odenton MD 21113

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-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.

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Analysis Report

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

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

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS – 2nd QUARTER 2015

Sample Description: TW-02 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888646
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 09:55 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW02

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	Naphthalene	91-20-3	N.D.	1	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	0.20	0.010	1
08357	Acenaphthylene	208-96-8	0.085	0.010	1
08357	Anthracene	120-12-7	0.13	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.51	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.56	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.70	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.47	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.27	0.010	1
08357	Chrysene	218-01-9	0.59	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.13	0.010	1
08357	Fluoranthene	206-44-0	1.0	0.010	1
08357	Fluorene	86-73-7	0.12	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.40	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.093	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.11	0.010	1
08357	Naphthalene	91-20-3	0.30	0.030	1
08357	Phenanthrene	85-01-8	0.64	0.030	1
08357	Pyrene	129-00-0	1.0	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
	The recovery for a target analyte(s) in the Laboratory Control Spike(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. Similar results were obtained in both trials.				
Wet Chemistry	**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.	177	0.70	5

Sample Description: TW-02 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888646
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 09:55 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW02

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,Naph	SW-846 8260B	1	F151411AA	05/21/2015 14:07	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 14:07	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 00:42	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 19:24	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 19:24	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 12:07	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451A	05/14/2015 20:30	Luz M Groff	5

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888647
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:20 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW03

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	Naphthalene	91-20-3	N.D.		1	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	0.26		0.010	1
08357	Acenaphthylene	208-96-8	0.028	J	0.010	1
08357	Anthracene	120-12-7	0.068		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.17		0.010	1
08357	Benzo(a)pyrene	50-32-8	0.18		0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.21		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.12		0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.088		0.010	1
08357	Chrysene	218-01-9	0.17		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.032	J	0.010	1
08357	Fluoranthene	206-44-0	0.25		0.010	1
08357	Fluorene	86-73-7	0.43		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.12		0.010	1
08357	1-Methylnaphthalene	90-12-0	0.071		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.037	J	0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	0.27		0.030	1
08357	Pyrene	129-00-0	0.23		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	21	J	20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	2,200		30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	200		45	1

The recovery for a target analyte(s) in the Laboratory Control Spike(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. Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	4.32		0.00083	1

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Analysis Report

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888647
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:20 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW03

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	298	30.0	100
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	0.13	0.015	1
		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.	65.6	0.28	2
		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.	24.6	0.25	25

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,Naph	SW-846 8260B	1	F151411AA	05/21/2015 14:29	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 14:29	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 01:10	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 19:46	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 19:46	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 14:57	Kristen N Brandt	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 12:30	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:02	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1

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Analysis Report

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888647
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:20 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 19:32	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103A	05/25/2015 03:54	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:07	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 20:35	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	25

Sample Description: TW-04 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888650
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:05 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW04

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,Naph	SW-846 8260B	1	F151411AA	05/21/2015 15:13	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 15:13	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 02:06	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 20:52	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 20:52	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 13:16	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	20

Sample Description: TW-04 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888650
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:05 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW04

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	J	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	Naphthalene	91-20-3	N.D.		1	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	0.74		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.10		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.049	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.042	J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.070		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.034	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.029	J	0.010	1
08357	Chrysene	218-01-9	0.069		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.28		0.010	1
08357	Fluorene	86-73-7	0.37		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.033	J	0.010	1
08357	1-Methylnaphthalene	90-12-0	2.7		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.076		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	0.21		0.030	1
08357	Pyrene	129-00-0	0.21		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	33	J	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	700		45	1

The recovery for a target analyte(s) in the Laboratory Control Spike(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. Similar results were obtained in both trials.

Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	3.5	J	1.4	1
	SM 2130 B-2001		**N T U**		**N T U**	
12145	Turbidity	n.a.	436		2.8	20

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888652
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:20 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW05

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	3		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	Naphthalene	91-20-3	1	J	1	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	0.41		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.071		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.046	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.031	J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.048	J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.028	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.015	J	0.010	1
08357	Chrysene	218-01-9	0.071		0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.099		0.010	1
08357	Fluorene	86-73-7	0.42		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.022	J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.81		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.19		0.010	1
08357	Naphthalene	91-20-3	0.92		0.030	1
08357	Phenanthrene	85-01-8	0.084		0.030	1
08357	Pyrene	129-00-0	0.36		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	44	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.	1,100		45	1

The recovery for a target analyte(s) in the Laboratory Control Spike(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. Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	4.77		0.00083	1

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888652
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:20 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	463	30.0	100
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.052 J	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.18	0.015	1
	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.	31.7	0.14	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	66.2	0.70	1
	SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	58.6	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,Naph	SW-846 8260B	1	F151411AA	05/21/2015 15:34	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 15:34	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 02:34	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 21:14	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 21:14	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 15:33	Kristen N Brandt	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 13:39	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:09	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1

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Analysis Report

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888652
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:20 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 20:06	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103A	05/25/2015 03:57	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:10	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 20:41	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: TW-06 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888653
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW06

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	4		0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1
10945	Naphthalene	91-20-3	N.D.		1	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	1.6		0.010	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	1
08357	Anthracene	120-12-7	0.18		0.010	1
08357	Benzo(a)anthracene	56-55-3	0.015	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	0.023	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.074		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	16		0.10	10
08357	2-Methylnaphthalene	91-57-6	0.087		0.010	1
08357	Naphthalene	91-20-3	N.D.		0.030	1
08357	Phenanthrene	85-01-8	1.0		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.	130		20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	2,300		45	1
Wet Chemistry	**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	n.a.	138		0.70	5

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.

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Analysis Report

Sample Description: TW-06 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888653
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC,Naph	SW-846 8260B	1	F151411AA	05/21/2015 15:56	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 15:56	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 03:03	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 11:44	Catherine E Bachman	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 21:36	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 21:36	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 12:40	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	5

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888649
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:45 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW07

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	10		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	Naphthalene	91-20-3	3	J	1	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	0.034	J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.041	J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.053		0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.036	J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.021	J	0.010	1
08357	Chrysene	218-01-9	0.045	J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	1
08357	Fluoranthene	206-44-0	0.054		0.010	1
08357	Fluorene	86-73-7	0.058		0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.032	J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.33		0.010	1
08357	2-Methylnaphthalene	91-57-6	0.25		0.010	1
08357	Naphthalene	91-20-3	2.8		0.030	1
08357	Phenanthrene	85-01-8	N.D.		0.030	1
08357	Pyrene	129-00-0	0.15		0.010	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**		**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	36	J	20	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**		**ug/l**	
07105	Methane	74-82-8	800		15	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	320		45	1

The recovery for a target analyte(s) in the Laboratory Control Spike(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. Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/l**		**mg/l**	
07058	Manganese	7439-96-5	5.62		0.00083	1

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Analysis Report

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888649
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:45 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW07

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	323	30.0	100
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	0.046 J	0.015	1
		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.	56.8	0.28	2
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	1.1 J	0.70	1
		SM 3500-Fe B modified-1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	9.5	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,Naph	SW-846 8260B	1	F151411AA	05/21/2015 14:51	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 14:51	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 01:38	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 20:08	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 20:08	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 15:15	Kristen N Brandt	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 12:53	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:06	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1

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Analysis Report

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888649
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:45 by LK

Submitted: 05/14/2015 15:20
Reported: 06/02/2015 12:51

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

NTW07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 19:49	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103A	05/25/2015 03:55	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:08	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002104A	05/19/2015 00:59	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	100

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886655
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:30 by LK

Submitted: 05/13/2015 17:30
Reported: 05/25/2015 19:18

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

TW-14

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	7	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	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B modified**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	220	20	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,000	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,Naph	SW-846 8260B	1	F151402AA	05/20/2015 13:42	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 13:42	Brett W Kenyon	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138A20A	05/18/2015 12:13	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A20A	05/18/2015 12:13	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 11:29	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

ATTACHMENT C

FIELD SAMPLING FORMS – AUGUST 2015

Geosyntec consultants

10220 Old Columbia Road, Suite A
Columbia Maryland 21046
Tel (410) 381-4333 Fax (410) 381-4499

GROUNDWATER SAMPLING LOG

Project Name: NRG - PRGS
Date: 8 / 6 / 15
Project Number: MEM1108
Task: ****
Phase: 03-DDOE
Location: Alexandria, Virginia
Personnel: Lindsay Keeney

Sample Type: GW
Location Type: 1" PVC well
DTW (feet): 5.86
Depth Measurement Location:
DTB (feet) from prior data:
Location ID: TW-04
Screen Interval (ft):
Pump Setting (feet):
Duplicate ID: NA
Well Diameter (inches):

Purge Method: Rate (mL/min) ~100 ml/min Time - Start 1155 Time-End

Time	Drawdown (ft)	pH (S.U.)	Conductivity mS (µS)/cm	Temp. (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
1200	6.23 / -0.37	6.19	1.127	20.33	513.5	-21.7	0.75
1205	6.29 / -0.43	6.17	1.150	20.01	123.2	-25.4	0.49
1210	6.39	6.18	1.179	19.83	144.8	-29.4	0.37
1215	6.50	6.19	1.168	19.29	266.4	-29.6	0.27
1220	6.55	6.19	1.174	19.31	284.1	-32.5	0.23
1225	6.89	6.20	1.193	19.19	256.8	-35.9	0.20
released silt build-up from flow cell							~~0.43~~
1235		6.24	1.198	19.30	179.9	-24.7	0.33
1240	~~18.9~~ 6.71	6.22	1.197	18.97	203.8	-31.0	0.19
1245	6.70	6.22	1.200	19.03	201.2	-33.0	0.18
1250	6.74	6.23	1.203	19.04	210.0	-35.7	0.16

Sample Method: Rate (mL/min): Date: Time:

Final/Sample Field Parameters		Stabilization Guidance	
pH		0.1	met? Y / N
Conductivity (uS)		3%	met? Y / N
Temp. (oC)		none	
Turbidity (NTU)		10%	met? Y / N
ORP (mV)		10	met? Y / N
DO (mg/L)		10%	met? Y / N

NOTES
- pump @ lowest setting
- got sediment out
- water is clear

Constituent	Method	Container	Preservative	Filtered?
VOCs	8260			
TPH-GRO/DRO	8015			
PAHs (SIM)	8270			
Oil and Grease	1664A			
TAL Metals	6010/7470A			No
Hardness	SM 2340C			
PCBs	8082A			

COMMENTS

Geosyntec consultants

10220 Old Columbia Road, Suite A
Columbia Maryland 21046
Tel (410) 381-4333 Fax (410) 381-4499

GROUNDWATER SAMPLING LOG

Project Name: NRG - PRGS
Date: 8 / 6 / 15
Project Number: MEM1108
Task: ****
Phase: 03-DDOE
Location: Alexandria, Virginia
Personnel: Lindsay Keeney

Sample Type: GW
Location Type: 1" PVC well
DTW (feet): 6.20
Depth Measurement Location:
DTB (feet) from prior data:
Location ID: TW-05
Screen Interval (ft):
Pump Setting (feet):
Duplicate ID: TW-DUP
Well Diameter (inches):

Purge Method: Rate (mL/min): Time - Start: 1410 Time-End:

Time	Drawdown (ft)	pH (S.U.)	Conductivity (uS/cm^c)	Temp. (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
1415	7.56	5.88	748	21.81	596.0	46.1	0.98
1420	8.00	5.85	813	20.58	361.1	28.4	0.43
1425	8.29	5.87	848	20.31	236.5	21.9	0.33
1430	8.57	5.86	861	20.07	195.8	20.0	0.35
1435	8.75	5.86	878	19.81	137.1	19.3	0.37
1440	8.90	5.87	892	19.81	95.9	18.7	0.42
1445	8.97	5.87	902	19.65	72.4	19.8	0.36
1450	9.03	5.86	901	19.61	87.0	21.5	0.38

Sample Method: Rate (mL/min): Date: Time:

Final/Sample Field Parameters		Stabilization Guidance	
pH		0.1	met? Y / N
Conductivity (uS)		3%	met? Y / N
Temp. (oC)		none	
Turbidity (NTU)		10%	met? Y / N
ORP (mV)		10	met? Y / N
DO (mg/L)		10%	met? Y / N

NOTES

Constituent	Method	Container	Preservative	Filtered?
VOCs	8260			
TPH-GRO/DRO	8015			
PAHs (SIM)	8270			
Oil and Grease	1664A			
TAL Metals	6010/7470A			No
Hardness	SM 2340C			
PCBs	8082A			

COMMENTS

Geosyntec consultants

10220 Old Columbia Road, Suite A
Columbia Maryland 21046
Tel (410) 381-4333 Fax (410) 381-4499

GROUNDWATER SAMPLING LOG

Project Name: NRG - PRGS
Date: 08 / 06 / 2015
Project Number: MEM1108
Task: ****
Phase: 03-DDOE
Location: Alexandria, Virginia
Personnel: Lindsay Keeney

Sample Type: GW
Location Type: 1" PVC well
DTW (feet): 6.51
Depth Measurement Location:
DTB (feet) from prior data:
Location ID: TW-06
Screen Interval (ft):
Pump Setting (feet):
Duplicate ID:
Well Diameter (inches): 1"

Purge Method: Rate (mL/min): Time - Start: Time-End:

Time	Drawdown (ft)	pH (S.U.)	Conductivity (uS)	Temp. (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
1700	6.55	6.19	884	20.35	400.1	-25.2	0.78
1705	6.59	6.23	879	19.80	255.7	-33.4	0.48
1710	6.60	6.19	929	19.49	157.4	-33.0	0.37
1715	6.61	6.17	957	19.34	90.1	-33.7	0.32
1720	6.62	6.16	972	19.22	59.3	-34.5	0.28
1725	6.65	6.16	976	19.10	37.8	-35.6	0.24
1730	6.67	6.17	975	19.07	30.5	-36.8	0.22

Sample Method: Rate (mL/min): Date: Time:

Final/Sample Field Parameters		Stabilization Guidance	
pH		0.1	met? Y / N
Conductivity (uS)		3%	met? Y / N
Temp. (oC)		none	
Turbidity (NTU)		10%	met? Y / N
ORP (mV)		10	met? Y / N
DO (mg/L)		10%	met? Y / N

NOTES

Constituent	Method	Container	Preservative	Filtered?
VOCs	8260			
TPH-GRO/DRO	8015			
PAHs (SIM)	8270			
Oil and Grease	1664A			
TAL Metals	6010/7470A			No
Hardness	SM 2340C			
PCBs	8082A			

COMMENTS

Geosyntec consultants

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Columbia Maryland 21046
Tel (410) 381-4333 Fax (410) 381-4499

GROUNDWATER SAMPLING LOG

Project Name: NRG - PRGS
Date: 8 / 5 / 15
Project Number: MEM1108
Task: ****
Phase: 03-DDOE
Location: Alexandria, Virginia
Personnel: Lindsay Keeney

Sample Type: GW
Location Type: 1" PVC well
DTW (feet): 7.04
Depth Measurement Location:
DTB (feet) from prior data:
Location ID: TW-07
Screen Interval (ft):
Pump Setting (feet):
Duplicate ID: NA
Well Diameter (inches): 1"

Purge Method: Rate (mL/min): 100 mL/min Time - Start: 1450 Time-End:

Time	~~Drawdown~~ (ft) WL	pH (S.U.)	Conductivity (uS)/cm	Temp. (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
1455	8.05	4.47	698	25.01	50.7	43.5	3.02
1500	8.34	4.47	677	24.40	46.5	~~0.86~~ 43.2	0.86
1505	8.48	4.43	666	24.06	134.5	48.5	0.62
1510	8.48	4.39	648	23.51	92.8	80.9	0.43
1515	8.50	4.37	647	23.51	123.1	98.3	0.37
1520	8.70	4.38	634	23.07	86.9	127.7	0.25
1525	8.76	4.38	633	22.98	100.8	141.3	0.22
1530	8.78	4.38	632	22.97	65.8	146.3	0.21
1535	8.83	4.39	629	22.88	65.8	150.0	0.20
~~1540~~							

Sample Method: Rate (mL/min): Date: Time:

Final/Sample Field Parameters		Stabilization Guidance	
pH		0.1	met? Y / N
Conductivity (uS)		3%	met? Y / N
Temp. (oC)		none	
Turbidity (NTU)		10%	met? Y / N
ORP (mV)		10	met? Y / N
DO (mg/L)		10%	met? Y / N

NOTES
possibly tidally influenced
currently - initial
keeps changing
YSI 650 MDS
YSI 6920 sonde

Constituent	Method	Container	Preservative	Filtered?
VOCs	8260			
TPH-GRO/DRO	8015			
PAHs (SIM)	8270			
Oil and Grease	1664A			
TAL Metals	6010/7470A			No
Hardness	SM 2340C			
PCBs	8082A			

COMMENTS

Geosyntec consultants

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GROUNDWATER SAMPLING LOG

Project Name: NRG - PRGS
Date: 8 / 5 / 15
Project Number: MEM1108
Task: ****
Phase: 03-DDOE
Location: Alexandria, Virginia
Personnel: Lindsay Keeney

Sample Type: GW
Location Type: 1" PVC well
DTW (feet): 8.17
Location ID: TW-03
Depth Measurement Location: N side
DTB (feet) from prior data:
Duplicate ID: NA
Screen Interval (ft): 10 - 15'
Well Diameter (inches): 1"
Pump Setting (feet):

Purge Method: Rate (mL/min): Time - Start: 1250 Time-End:

Time	Drawdown (ft)	pH (S.U.)	Conductivity (uS)/cm	Temp. (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
1255	8.22'	5.55	592	22.50°C	102.1	65.2	0.48
1300	8.29'	5.45	595	22.13°	92.3	76.1	0.32
1305	8.28'	5.42	597	21.87	141.1	78.7	0.28
1310	8.28'	5.40	602	21.76	70.6	80.4	0.26

Sample Method: Rate (mL/min): Date: 8-5-15 Time: 1330

Final/Sample Field Parameters		Stabilization Guidance	
pH		0.1	met? Y / N
Conductivity (uS)		3%	met? Y / N
Temp. (oC)		none	
Turbidity (NTU)		10%	met? Y / N
ORP (mV)		10	met? Y / N
DO (mg/L)		10%	met? Y / N

NOTES
YSI 650 MDS
YSI 6920 sonde

Constituent	Method	Container	Preservative	Filtered?
VOCs	8260			
TPH-GRO/DRO	8015			
PAHs (SIM)	8270			
Oil and Grease	1664A			
TAL Metals	6010/7470A			No
Hardness	SM 2340C			
PCBs	8082A			

COMMENTS

Geosyntec consultants

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GROUNDWATER SAMPLING LOG

Project Name: NRG - PRGS
Date: 8 / 5 / 15
Project Number: MEM1108
Task: ****
Phase: 03-DDOE
Location: Alexandria, Virginia
Personnel: Lindsay Keeney

Sample Type: GW
Location Type: 1" PVC well
DTW (feet): 15.18
Depth Measurement Location: N side -
DTB (feet) from prior data:
Location ID: TW-02
Screen Interval (ft): 14-24'
~~Pump~~ Tube Setting (feet): NA
Duplicate ID: NA
Well Diameter (inches): 1"

Purge Method: Low Flow Rate (mL/min): ~100 mL/min Time - Start: ~~1000~~ 1005 Time-End:

Time	~~Drawdown~~ wl (ft)	pH (S.U.)	Conductivity (uS/cm)	Temp. (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
1010	15.32'	6.34	1087	20.28	837.4	-22.7	0.56
1015	15.41'	6.42	1042	19.50	354.1	-36.4	0.40
1020	15.50'	6.54	931	19.26	193.2	-43.9	0.33
1025	15.55'	6.63	898	18.92	104.1	-55.6	0.30
1030	15.61'	6.73	831	18.54	62.2	-63.6	0.28
1035	15.68'	6.74	~~0.6~~807	18.38	42.0	-63.2	0.27
1040	15.73'	6.82	792	18.28	31.9	-65.9	0.27

Sample Method: Rate (mL/min): 100 mL/min Date: Time: 1050

Final/Sample Field Parameters		Stabilization Guidance	
pH		0.1	met? Y / N
Conductivity (uS)		3%	met? Y / N
Temp. (oC)		none	
Turbidity (NTU)		10%	met? Y / N
ORP (mV)		10	met? Y / N
DO (mg/L)		10%	met? Y / N

NOTES: muddy to clear water
YSI 650MDS
YSI 6920 Sonde

Constituent	Method	Container	Preservative	Filtered?
VOCs	8260			
TPH-GRO/DRO	8015			
PAHs (SIM)	8270			
Oil and Grease	1664A			
TAL Metals	6010/7470A			No
Hardness	SM 2340C			
PCBs	8082A			

COMMENTS

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GROUNDWATER SAMPLING LOG

Project Name: NRG - PRGS
Date: 8 / 6 / 15
Project Number: MEM1108
Task: ****
Phase: 03-DDOE
Location: Alexandria, Virginia
Personnel: Lindsay Keeney

Sample Type: GW
Location Type: 1" PVC well
DTW (feet): 3.45
Location ID: TW-14
Depth Measurement Location:
DTB (feet) from prior data:
Screen Interval (ft):
Pump Setting (feet):
Duplicate ID:
Well Diameter (inches):

Purge Method: Rate (mL/min): Time - Start: 1035 Time-End:

Time	~~Drawdown~~ wl (ft)	pH (S.U.)	Conductivity (uS)/cm	Temp. (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
1040	4.11	6.72	828	24.83	27.8	-109.3	1.17
1045	4.47	6.87	840	25.34	28.5	-105.6	1.72
1050	5.17	6.88	828	24.20	402.6	-107.8	0.73
1055							
1100							

Sample Method: Rate (mL/min): Date: Time:

Final/Sample Field Parameters		Stabilization Guidance	
pH		0.1	met? Y / N
Conductivity (uS)		3%	met? Y / N
Temp. (oC)		none	
Turbidity (NTU)		10%	met? Y / N
ORP (mV)		10	met? Y / N
DO (mg/L)		10%	met? Y / N

NOTES
dewatered before stabilization

Constituent	Method	Container	Preservative	Filtered?
VOCs	8260			
TPH-GRO/DRO	8015			
PAHs (SIM)	8270			
Oil and Grease	1664A			
TAL Metals	6010/7470A			No
Hardness	SM 2340C			
PCBs	8082A			

COMMENTS

ATTACHMENT D

LABORATORY ANALYTICAL REPORTS – 3rd QUARTER 2015

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

September 01, 2015

Project: NRG PRGS

Submittal Date: 08/06/2015
Group Number: 1582783
PO Number: NRG PRGS
Release Number: 0402925
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-02 Grab Groundwater	7995927
TW-03 Grab Groundwater	7995928
TW-07 Grab Groundwater	7995929

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

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: TW-02 Grab Groundwater NRG PRGS

LL Sample # WW 7995927
LL Group # 1582783
Account # 08390

Project Name: NRG PRGS

Collected: 08/05/2015 10:50 by LK

Submitted: 08/06/2015 17:15
Reported: 09/01/2015 14:36

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

TW-02

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

The recovery for a target analyte(s) in the Laboratory Control Spike(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. Similar results were obtained in both trials.

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	152250014A	08/14/2015 20:03	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152250014A	08/14/2015 08:45	Maria Davenport	1

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Analysis Report

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 7995928
LL Group # 1582783
Account # 08390

Project Name: NRG PRGS

Collected: 08/05/2015 13:30 by LK

Submitted: 08/06/2015 17:15
Reported: 09/01/2015 14:36

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

TW-03

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	1,800	30	10
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	150	45	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(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. Similar results were obtained in both trials.				
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	4.61	0.00080	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	289	15.0	50
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.070	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	N.D.	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	32.3	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	152220001A	08/11/2015 10:36	Kristen N Brandt	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	152250014A	08/14/2015 20:27	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152250014A	08/14/2015 08:45	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	152191848002	08/09/2015 22:38	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152191848002	08/09/2015 07:41	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15220987122A	08/09/2015 03:50	Clinton M Wilson	50
00220	Nitrate Nitrogen	EPA 353.2	1	15221106103B	08/09/2015 16:05	Joseph E McKenzie	1

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Analysis Report

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 7995928
LL Group # 1582783
Account # 08390

Project Name: NRG PRGS

Collected: 08/05/2015 13:30 by LK

Submitted: 08/06/2015 17:15
Reported: 09/01/2015 14:36

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

TW-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00219	Nitrite Nitrogen	EPA 353.2	1	15219105101A	08/07/2015 02:18	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15223003205A	08/12/2015 03:13	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15223834401A	08/11/2015 20:25	Lamont J McKellar	100

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Analysis Report

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 7995929
LL Group # 1582783
Account # 08390

Project Name: NRG PRGS

Collected: 08/05/2015 15:30 by LK

Submitted: 08/06/2015 17:15
Reported: 09/01/2015 14:36

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

TW-07

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	2,700	60	20
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	220	45	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.				
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	4.51	0.00080	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	304	15.0	50
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.018 J	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	2.7	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	8.7	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
07105	Methane	RSKSOP-175 modified	1	152220001A	08/11/2015 10:53	Kristen N Brandt	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	152250014A	08/14/2015 20:50	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152250014A	08/14/2015 08:45	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	152191848002	08/09/2015 22:42	Tara L Snyder	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	152191848002	08/09/2015 07:41	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15220987122A	08/09/2015 04:05	Clinton M Wilson	50
00220	Nitrate Nitrogen	EPA 353.2	1	15221106103B	08/09/2015 16:09	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15219105101A	08/07/2015 02:19	James S Mathiot	1

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Analysis Report

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 7995929
LL Group # 1582783
Account # 08390

Project Name: NRG PRGS

Collected: 08/05/2015 15:30 by LK

Submitted: 08/06/2015 17:15
Reported: 09/01/2015 14:36

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

TW-07

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	15223003202A	08/11/2015 17:41	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	15223834401A	08/11/2015 20:25	Lamont J McKellar	50

Quality Control Summary

Client Name: GES, Inc. Group Number: 1582783
Reported: 09/01/2015 14:36

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: 152220001A	Sample number(s): 7995928-7995929							
Methane	N.D.	3.0	ug/l	99		85-115		
Batch number: 152250014A	Sample number(s): 7995927-7995929							
DRO C10-C28	N.D.	45.	ug/l	72	68*	69-115	5	20
Batch number: 152191848002	Sample number(s): 7995928-7995929							
Manganese	N.D.	0.00080	mg/l	103		80-120		
Batch number: 15219105101A	Sample number(s): 7995928-7995929							
Nitrite Nitrogen	N.D.	0.015	mg/l	101		90-110		
Batch number: 15220987122A	Sample number(s): 7995928-7995929							
Sulfate	N.D.	0.30	mg/l	103	102	90-110	1	20
Batch number: 15221106103B	Sample number(s): 7995928-7995929							
Nitrate Nitrogen	N.D.	0.040	mg/l	94		90-110		
Batch number: 15223003202A	Sample number(s): 7995929							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	101		90-110		
Batch number: 15223003205A	Sample number(s): 7995928							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO3	101		90-110		
Batch number: 15223834401A	Sample number(s): 7995928-7995929							
Ferrous Iron	N.D.	0.010	mg/l	102		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: 152220001A	Sample number(s): 7995928-7995929 UNSPK: 7995928								
Methane	-271 (2)	-74 (2)	46-129	7	20				
Batch number: 152191848002	Sample number(s): 7995928-7995929 UNSPK: P995126 BKG: P995126								

*- 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: 1582783
Reported: 09/01/2015 14:36

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
Manganese	98	102	75-125	3	20	0.118	0.123	4	20
Batch number: 15219105101A	Sample number(s): 7995928-7995929 UNSPK: P995910 BKG: P995910								
Nitrite Nitrogen	102		90-110			0.030 J	0.025 J	19 (1)	20
Batch number: 15220987122A	Sample number(s): 7995928-7995929 UNSPK: P996000 BKG: P996000								
Sulfate	94		90-110			45.9	46.1	0	15
Batch number: 15221106103B	Sample number(s): 7995928-7995929 UNSPK: 7995928 BKG: 7995928								
Nitrate Nitrogen	90		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15223003202A	Sample number(s): 7995929 UNSPK: P999965 BKG: P999965								
Total Alkalinity to pH 4.5	79*		90-110			152	153	0	5
Batch number: 15223003205A	Sample number(s): 7995928 UNSPK: P998542 BKG: P998542								
Total Alkalinity to pH 4.5	95	96	90-110	1	5	42.3	42.7	1	5
Batch number: 15223834401A	Sample number(s): 7995928-7995929 UNSPK: P996052 BKG: P996052								
Ferrous Iron	104	99	93-105	3	6	32.7	33.4	2	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: Methane
Batch number: 152220001A

	Propene
7995928	87
7995929	93
Blank	94
LCS	97
MS	78
MSD	78
Limits:	47-116

Analysis Name: DRO micro-ext 8015B
Batch number: 152250014A

	Orthoterphenyl
7995927	113
7995928	101
7995929	95
Blank	96
LCS	87
LCSD	75
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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 09/01/2015 14:36

Group Number: 1582783

*- 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 # 1582703 Sample # 7995927-29

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Tony Christoff	P.O. #: 0402925
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: Sediment ☐ Ground ☑ Surface ☐ Potable ☐ NPDES ☐ Soil ☐ Water ☑ Other:

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	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	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	8-5-15	1050	x		2	x							Cooler 1
TW-03	↓	1330	x		11	x	x	x	x	x	x	x	Cooler 1 & 2
TW-07	↓	1530	x		11	x	x	x	x	x	x	x	Cooler 2
			x			x	x	x	x	x	x	x	

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
[signature]	8-5-15	2000	Denise Wadding	8-6-15	0800
Denise Wadding	8-6-15	12:45	[signature]	8/6/15	12:45
[signature]	8/6/15	17:15			
			[signature]	8/6/15	1715

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.4-2.7 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 94320

Group Number(s): 1582783

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/06/2015 17:15
Number of Packages:	2	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:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Katherine Metzger (2241) at 21:06 on 08/06/2015

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	8013596-IR	1.4	IR	Wet	Y	Loose	N
2	8013596-IR	2.7	IR	Wet	Y	Loose	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
TW-07	9	11	

2425 New Holland Pike
Lancaster, PA 17605-2425

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

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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REVISED

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

October 30, 2015

Project: NRG PRGS

Submittal Date: 08/06/2015
Group Number: 1582797
PO Number: MEM1108/03
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-02 Grab Groundwater	7996053
TW-03 Grab Groundwater	7996054
TW-07 Grab Groundwater	7996055
TB1-8515 Water	7996056
TB2-8515 Water	7996057
TB3-8515 Water	7996058
RINSE BLANK Grab Water	7996059

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 GeoSyntec Consultants Attn: Mark Johnson

REVISED

Respectfully Submitted,

Wendy A. Kozma
Principal Specialist Group Leader

(717) 556-7257

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Analysis Report

REVISED

Sample Description: TW-02 Grab Groundwater
NRG PRGS

LL Sample # WW 7996053
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 10:50 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

02-TW

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.2		0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.		0.02	0.05	1
10262	Anthracene	120-12-7	0.04	J	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.		0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.		0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.		0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.		0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.		0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.		0.02	0.05	1
10262	Chrysene	218-01-9	N.D.		0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.04	J	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.		0.02	0.05	1
10262	Fluoranthene	206-44-0	0.1		0.02	0.05	1
10262	Fluorene	86-73-7	0.07		0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	0.04	J	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.03	J	0.02	0.05	1
10262	Naphthalene	91-20-3	0.2		0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.02	0.05	1
10262	Perylene	198-55-0	N.D.		0.02	0.05	1
10262	Phenanthrene	85-01-8	0.1		0.02	0.05	1
10262	Pyrene	129-00-0	0.1		0.02	0.05	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.		0.081	0.41	1
10227	PCB-1221	11104-28-2	N.D.		0.081	0.41	1
10227	PCB-1232	11141-16-5	N.D.		0.16	0.41	1
10227	PCB-1242	53469-21-9	N.D.		0.081	0.41	1
10227	PCB-1248	12672-29-6	N.D.		0.081	0.41	1
10227	PCB-1254	11097-69-1	N.D.		0.081	0.41	1
10227	PCB-1260	11096-82-5	N.D.		0.12	0.41	1
Metals	**EPA 200.7 rev 4.4**		**mg/l**		**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-02 Grab Groundwater
NRG PRGS

LL Sample # WW 7996053
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 10:50 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

02-TW

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.0862	0.00030	0.0050	1
08014	Boron	7440-42-8	0.163	0.0083	0.0500	1
01750	Calcium	7440-70-2	88.5	0.0333	0.200	1
07052	Cobalt	7440-48-4	N.D.	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0238	0.0080	0.0200	1
	The initial calibration blank for lithium was out of specification reading 0.0079 mg/l. The sample read 0.023 mg/l for lithium After consultation with the client the data is accepted.					
07058	Manganese	7439-96-5	2.93	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	0.0100	1
01767	Sodium	7440-23-5	51.8	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
	EPA 200.8 rev 5.4		**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	0.0364 J	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0014 J	0.00040	0.0020	1
06027	Beryllium	7440-41-7	N.D.	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	N.D.	0.00070	0.0020	1
06033	Copper	7440-50-8	N.D.	0.00040	0.0020	1
06034	Iron	7439-89-6	7.99	0.0230	0.100	1
06035	Lead	7439-92-1	0.00064 J	0.00013	0.0010	1
06036	Magnesium	7439-95-4	36.2	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0012 J	0.00094	0.0020	1
06040	Potassium	7440-09-7	15.0	0.0877	0.200	1
06041	Selenium	7782-49-2	N.D.	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.0100 J	0.0074	0.0150	1
	EPA 245.1 rev 3		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
	SM 2340 B-1997		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	370	0.033	0.20	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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.

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-02 Grab Groundwater
NRG PRGS

LL Sample # WW 7996053
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 10:50 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

02-TW

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152231AA	08/11/2015	16:18	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152231AA	08/11/2015	16:18	Brett W Kenyon	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15222WAY026	08/18/2015	10:46	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15222WAY026	08/11/2015	09:00	Jessica M Velez	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15219A53A	08/10/2015	20:59	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15219A53A	08/10/2015	20:59	Marie D Beamenderfer	1
10227	PCBs in Water	SW-846 8082	1	152190028A	08/11/2015	18:55	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	152190028A	08/10/2015	06:15	Roman Kuropatkin	1
07046	Barium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
08014	Boron	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
01750	Calcium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
01756	Lithium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
07058	Manganese	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
01767	Sodium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:28	Elaine F Stoltzfus	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06034	Iron	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152227050003B	08/12/2015	08:39	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:39	Choon Y Tian	1
00259	Mercury	EPA 245.1 rev 3	1	152195714001	08/11/2015	06:58	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152246256001	08/12/2015	12:41	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	10:08	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152227050003	08/11/2015	10:18	Katlin N Cataldi	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-02 Grab Groundwater
NRG PRGS

LL Sample # WW 7996053
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 10:50 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

02-TW

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152195714001	08/10/2015 11:18	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15225807902A	08/13/2015 16:29	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 7996054
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 13:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

03-TW

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	1		0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.2		0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.		0.02	0.05	1
10262	Anthracene	120-12-7	0.05	J	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.		0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.		0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.		0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.		0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.		0.02	0.05	1
10262	Biphenyl	92-52-4	0.7		0.02	0.05	1
10262	Chrysene	218-01-9	N.D.		0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.2		0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.07		0.02	0.05	1
10262	Fluoranthene	206-44-0	0.03	J	0.02	0.05	1
10262	Fluorene	86-73-7	0.4		0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	0.2		0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.05		0.02	0.05	1
10262	Naphthalene	91-20-3	0.2		0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.02	0.05	1
10262	Perylene	198-55-0	N.D.		0.02	0.05	1
10262	Phenanthrene	85-01-8	0.3		0.02	0.05	1
10262	Pyrene	129-00-0	0.05	J	0.02	0.05	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.		20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.		0.081	0.41	1
10227	PCB-1221	11104-28-2	N.D.		0.081	0.41	1
10227	PCB-1232	11141-16-5	N.D.		0.16	0.41	1
10227	PCB-1242	53469-21-9	N.D.		0.081	0.41	1
10227	PCB-1248	12672-29-6	N.D.		0.081	0.41	1
10227	PCB-1254	11097-69-1	N.D.		0.081	0.41	1
10227	PCB-1260	11096-82-5	N.D.		0.12	0.41	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 7996054
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 13:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

03-TW

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.0490	0.00030	0.0050	1
08014	Boron	7440-42-8	0.0628	0.0083	0.0500	1
01750	Calcium	7440-70-2	55.2	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.0814	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0187 J	0.0080	0.0200	1
	The initial calibration blank for lithium was out of specification reading 0.0079 mg/l. The sample read 0.0187J mg/l for lithium After consultation with the client the data is accepted.					
07058	Manganese	7439-96-5	4.69	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	0.0100	1
01767	Sodium	7440-23-5	37.7	0.167	1.00	1
07071	Vanadium	7440-62-2	0.0018 J	0.0014	0.0050	1
	EPA 200.8 rev 5.4		**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	1.05	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0094	0.00040	0.0020	1
06027	Beryllium	7440-41-7	0.0012	0.000071	0.00050	1
06028	Cadmium	7440-43-9	0.00035 J	0.00023	0.00050	1
06031	Chromium	7440-47-3	0.0011 J	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0050	0.00040	0.0020	1
06034	Iron	7439-89-6	30.4	0.0230	0.100	1
06035	Lead	7439-92-1	0.0091	0.00013	0.0010	1
06036	Magnesium	7439-95-4	18.8	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0388	0.00094	0.0020	1
06040	Potassium	7440-09-7	8.57	0.0877	0.200	1
06041	Selenium	7782-49-2	N.D.	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.141	0.0074	0.0150	1
	EPA 245.1 rev 3		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
	SM 2340 B-1997		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	215	0.033	0.20	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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.

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 7996054
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 13:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

03-TW

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152231AA	08/11/2015	16:41	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152231AA	08/11/2015	16:41	Brett W Kenyon	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15222WAY026	08/18/2015	11:30	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15222WAY026	08/11/2015	09:00	Jessica M Velez	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15219A53A	08/10/2015	21:27	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15219A53A	08/10/2015	21:27	Marie D Beamenderfer	1
10227	PCBs in Water	SW-846 8082	1	152190028A	08/11/2015	19:07	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	152190028A	08/10/2015	06:15	Roman Kuropatkin	1
07046	Barium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
08014	Boron	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
01750	Calcium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
01756	Lithium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
07058	Manganese	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
01767	Sodium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:37	Elaine F Stoltzfus	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06034	Iron	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152227050003B	08/12/2015	08:42	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:42	Choon Y Tian	1
00259	Mercury	EPA 245.1 rev 3	1	152195714001	08/11/2015	07:00	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152246256001	08/12/2015	12:41	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	10:08	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152227050003	08/11/2015	10:18	Katlin N Cataldi	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 7996054
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 13:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

03-TW

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152195714001	08/10/2015 11:18	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15225807902A	08/13/2015 16:29	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 7996055
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 15:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

07-TW

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	7		0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.1		0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.02	J	0.02	0.05	1
10262	Anthracene	120-12-7	0.02	J	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	0.05	J	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	0.06		0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	0.07		0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	0.06		0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	0.05		0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	0.05		0.02	0.05	1
10262	Biphenyl	92-52-4	0.4		0.02	0.05	1
10262	Chrysene	218-01-9	0.06		0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.		0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.		0.02	0.05	1
10262	Fluoranthene	206-44-0	0.07		0.02	0.05	1
10262	Fluorene	86-73-7	0.04	J	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	0.06		0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	0.2		0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.2		0.02	0.05	1
10262	Naphthalene	91-20-3	2		0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.02	0.05	1
10262	Perylene	198-55-0	N.D.		0.02	0.05	1
10262	Phenanthrene	85-01-8	0.03	J	0.02	0.05	1
10262	Pyrene	129-00-0	0.2		0.02	0.05	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	57		20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.		0.081	0.41	1
10227	PCB-1221	11104-28-2	N.D.		0.081	0.41	1
10227	PCB-1232	11141-16-5	N.D.		0.16	0.41	1
10227	PCB-1242	53469-21-9	N.D.		0.081	0.41	1
10227	PCB-1248	12672-29-6	N.D.		0.081	0.41	1
10227	PCB-1254	11097-69-1	N.D.		0.081	0.41	1
10227	PCB-1260	11096-82-5	N.D.		0.12	0.41	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 7996055
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 15:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

07-TW

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.0288	0.00030	0.0050	1
08014	Boron	7440-42-8	0.0598	0.0083	0.0500	1
01750	Calcium	7440-70-2	53.1	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.117	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0161 J	0.0080	0.0200	1
	The initial calibration blank for lithium was out of specification reading 0.0079 mg/l. The sample read 0.0161J mg/l for lithium After consultation with the client the data is accepted.					
07058	Manganese	7439-96-5	4.55	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	0.0100	1
01767	Sodium	7440-23-5	38.6	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
	EPA 200.8 rev 5.4		**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	2.60	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0050	0.00040	0.0020	1
06027	Beryllium	7440-41-7	0.0025	0.000071	0.00050	1
06028	Cadmium	7440-43-9	0.00075	0.00023	0.00050	1
06031	Chromium	7440-47-3	0.0014 J	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0036	0.00040	0.0020	1
06034	Iron	7439-89-6	7.91	0.0230	0.100	1
06035	Lead	7439-92-1	0.0328	0.00013	0.0010	1
06036	Magnesium	7439-95-4	19.5	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0556	0.00094	0.0020	1
06040	Potassium	7440-09-7	7.44	0.0877	0.200	1
06041	Selenium	7782-49-2	0.00056 J	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.138	0.0074	0.0150	1
	EPA 245.1 rev 3		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
	SM 2340 B-1997		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	213	0.033	0.20	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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.

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 7996055
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 15:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

07-TW

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152231AA	08/11/2015	17:04	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152231AA	08/11/2015	17:04	Brett W Kenyon	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15222WAY026	08/18/2015	12:14	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15222WAY026	08/11/2015	09:00	Jessica M Velez	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15219A53A	08/10/2015	21:55	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15219A53A	08/10/2015	21:55	Marie D Beamenderfer	1
10227	PCBs in Water	SW-846 8082	1	152190028A	08/11/2015	19:18	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	152190028A	08/10/2015	06:15	Roman Kuropatkin	1
07046	Barium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
08014	Boron	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
01750	Calcium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
01756	Lithium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
07058	Manganese	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
01767	Sodium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:40	Elaine F Stoltzfus	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06034	Iron	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152227050003B	08/12/2015	08:46	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:46	Choon Y Tian	1
00259	Mercury	EPA 245.1 rev 3	1	152195714001	08/11/2015	07:02	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152246256001	08/12/2015	12:41	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	10:08	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152227050003	08/11/2015	10:18	Katlin N Cataldi	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 7996055
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 15:30 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

07-TW

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152195714001	08/10/2015 11:18	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15225807902A	08/13/2015 16:29	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TB1-8515 Water
NRG PRGS

LL Sample # WW 7996056
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 09:00

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

85151

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152231AA	08/11/2015 13:15	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152231AA	08/11/2015 13:15	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TB2-8515 Water
NRG PRGS

LL Sample # WW 7996057
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 11:00

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

85152

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152231AA	08/11/2015 13:38	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152231AA	08/11/2015 13:38	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: TB3-8515 Water
NRG PRGS

LL Sample # WW 7996058
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 13:00

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

85153

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152231AA	08/11/2015 14:00	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152231AA	08/11/2015 14:00	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: RINSE BLANK Grab Water
NRG PRGS

LL Sample # WW 7996059
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 17:00 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

8515R

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	N.D.	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	N.D.	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	N.D.	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	N.D.	0.02	0.05	1
10262	Naphthalene	91-20-3	N.D.	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	N.D.	0.02	0.05	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.	0.087	0.43	1
10227	PCB-1221	11104-28-2	N.D.	0.087	0.43	1
10227	PCB-1232	11141-16-5	N.D.	0.17	0.43	1
10227	PCB-1242	53469-21-9	N.D.	0.087	0.43	1
10227	PCB-1248	12672-29-6	N.D.	0.087	0.43	1
10227	PCB-1254	11097-69-1	N.D.	0.087	0.43	1
10227	PCB-1260	11096-82-5	N.D.	0.13	0.43	1
Metals	**EPA 200.7 rev 4.4**		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: RINSE BLANK Grab Water
NRG PRGS

LL Sample # WW 7996059
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 17:00 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

8515R

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.0011 J	0.00030	0.0050	1
08014	Boron	7440-42-8	N.D.	0.0083	0.0500	1
01750	Calcium	7440-70-2	0.136 J	0.0333	0.200	1
07052	Cobalt	7440-48-4	N.D.	0.00090	0.0050	1
01756	Lithium	7439-93-2	N.D.	0.0080	0.0200	1
07058	Manganese	7439-96-5	0.0035 J	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	0.0100	1
01767	Sodium	7440-23-5	0.270 J	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
	EPA 200.8 rev 5.4		**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	N.D.	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00040	0.0020	1
06027	Beryllium	7440-41-7	N.D.	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	N.D.	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0013 J	0.00040	0.0020	1
06034	Iron	7439-89-6	N.D.	0.0230	0.100	1
06035	Lead	7439-92-1	N.D.	0.00013	0.0010	1
06036	Magnesium	7439-95-4	0.0177 J	0.0170	0.100	1
06039	Nickel	7440-02-0	N.D.	0.00094	0.0020	1
06040	Potassium	7440-09-7	N.D.	0.0877	0.200	1
06041	Selenium	7782-49-2	N.D.	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
06049	Zinc	7440-66-6	N.D.	0.0074	0.0150	1
	EPA 245.1 rev 3		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
	SM 2340 B-1997		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	0.41	0.033	0.20	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.6 J	1.4	5.0	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152231AA	08/11/2015 14:23	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

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Analysis Report

REVISED

Sample Description: RINSE BLANK Grab Water
NRG PRGS

LL Sample # WW 7996059
LL Group # 1582797
Account # 09811

Project Name: NRG PRGS

Collected: 08/05/2015 17:00 by LK

Submitted: 08/06/2015 17:15
Reported: 10/30/2015 14:01

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

8515R

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152231AA	08/11/2015	14:23	Brett W Kenyon	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15222WAY026	08/18/2015	12:59	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15222WAY026	08/11/2015	09:00	Jessica M Velez	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15219A53A	08/10/2015	14:58	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15219A53A	08/10/2015	14:58	Marie D Beamenderfer	1
10227	PCBs in Water	SW-846 8082	1	152190028A	08/11/2015	19:53	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	152190028A	08/10/2015	06:15	Roman Kuropatkin	1
07046	Barium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
08014	Boron	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
01750	Calcium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
01756	Lithium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
07058	Manganese	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
01767	Sodium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	20:43	Elaine F Stoltzfus	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06034	Iron	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152227050003B	08/12/2015	08:30	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152227050003A	08/12/2015	08:30	Choon Y Tian	1
00259	Mercury	EPA 245.1 rev 3	1	152195714001	08/11/2015	07:04	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152246256001	08/12/2015	12:42	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152195716007	08/10/2015	10:08	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152227050003	08/11/2015	10:18	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152195714001	08/10/2015	11:18	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15225807902A	08/13/2015	16:29	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

REVISED

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1582797
Reported: 10/30/2015 14:01

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**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D152231AA	Sample number(s): 7996053-7996059								
Benzene	N.D.	0.5	1	ug/l	85		78-120		
t-Butyl alcohol	N.D.	2.	5	ug/l	83		78-121		
1,2-Dibromoethane	N.D.	0.5	1	ug/l	84		80-120		
1,2-Dichloroethane	N.D.	0.5	1	ug/l	91		72-127		
Ethylbenzene	N.D.	0.5	1	ug/l	83		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	80		75-120		
Toluene	N.D.	0.5	1	ug/l	85		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	83		80-120		
Batch number: 15222WAY026	Sample number(s): 7996053-7996055,7996059								
Acenaphthene	N.D.	0.02	0.05	ug/l	89	96	67-126	9	30
Acenaphthylene	N.D.	0.02	0.05	ug/l	93	103	67-120	10	30
Anthracene	N.D.	0.02	0.05	ug/l	87	94	72-128	8	30
Benzo(a)anthracene	N.D.	0.02	0.05	ug/l	101	110	76-119	8	30
Benzo(a)pyrene	N.D.	0.02	0.05	ug/l	109	117	70-120	8	30
Benzo(b)fluoranthene	N.D.	0.02	0.05	ug/l	113	120	76-132	6	30
Benzo(e)pyrene	N.D.	0.02	0.05	ug/l	92	100	75-117	8	30
Benzo(g,h,i)perylene	N.D.	0.02	0.05	ug/l	110	119	58-129	8	30
Benzo(k)fluoranthene	N.D.	0.02	0.05	ug/l	103	114	69-126	10	30
Biphenyl	N.D.	0.02	0.05	ug/l	100	109*	74-101	9	30
Chrysene	N.D.	0.02	0.05	ug/l	86	94	76-121	8	30
Dibenz(a,h)anthracene	N.D.	0.02	0.05	ug/l	118	128	47-136	8	30
Dibenzofuran	N.D.	0.02	0.05	ug/l	77	82	70-130	6	30
Dibenzothiophene	N.D.	0.02	0.05	ug/l	87	93	76-111	7	30
Fluoranthene	N.D.	0.02	0.05	ug/l	97	104	76-121	7	30
Fluorene	N.D.	0.02	0.05	ug/l	94	103	71-124	9	30
Indeno(1,2,3-cd)pyrene	N.D.	0.02	0.05	ug/l	130*	139*	56-129	7	30
1-Methylnaphthalene	N.D.	0.02	0.05	ug/l	93	101	65-122	8	30
2-Methylnaphthalene	N.D.	0.02	0.05	ug/l	91	98	59-124	7	30
Naphthalene	N.D.	0.02	0.05	ug/l	91	97	60-122	6	30
Naphthobenzothiophene	N.D.	0.02	0.05	ug/l					
Perylene	N.D.	0.02	0.05	ug/l	113	122	61-123	8	30
Phenanthrene	N.D.	0.02	0.05	ug/l	89	95	75-121	6	30
Pyrene	N.D.	0.02	0.05	ug/l	91	98	63-122	7	30
Batch number: 15219A53A	Sample number(s): 7996053-7996055,7996059								
TPH-GRO water C6-C10	N.D.	20.	50	ug/l	102	102	80-129	0	30
Batch number: 152190028A	Sample number(s): 7996053-7996055,7996059								
PCB-1016	N.D.	0.080	0.40	ug/l	91	92	60-117	1	30
PCB-1221	N.D.	0.080	0.40	ug/l					
PCB-1232	N.D.	0.16	0.40	ug/l					
PCB-1242	N.D.	0.080	0.40	ug/l					

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

REVISED

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1582797
Reported: 10/30/2015 14:01

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	N.D.	0.080	0.40	ug/l					
PCB-1254	N.D.	0.080	0.40	ug/l					
PCB-1260	N.D.	0.12	0.40	ug/l	93	98	64-134	6	30
Batch number: 152195714001	Sample number(s): 7996053-7996055,7996059								
Mercury	N.D.	0.00005 0	0.00020	mg/l	103		85-115		
Batch number: 152195716007	Sample number(s): 7996053-7996055,7996059								
Barium	N.D.	0.00030	0.0050	mg/l	104		85-115		
Boron	N.D.	0.0083	0.0500	mg/l	99		85-115		
Calcium	0.0453 J	0.0333	0.200	mg/l	106		85-115		
Cobalt	N.D.	0.00090	0.0050	mg/l	106		85-115		
Lithium	N.D.	0.0080	0.0200	mg/l	104		85-115		
Manganese	N.D.	0.00080	0.0050	mg/l	106		85-115		
Molybdenum	N.D.	0.0017	0.0100	mg/l	105		85-115		
Sodium	N.D.	0.167	1.00	mg/l	104		85-115		
Vanadium	N.D.	0.0014	0.0050	mg/l	106		85-115		
Batch number: 152227050003A	Sample number(s): 7996053-7996055,7996059								
Aluminum	N.D.	0.0260	0.100	mg/l	104		85-115		
Antimony	N.D.	0.00033	0.0010	mg/l	93		85-115		
Arsenic	N.D.	0.00040	0.0020	mg/l	101		85-115		
Beryllium	N.D.	0.00007 1	0.00050	mg/l	105		85-115		
Cadmium	N.D.	0.00023	0.00050	mg/l	106		85-115		
Chromium	N.D.	0.00070	0.0020	mg/l	110		85-115		
Copper	N.D.	0.00040	0.0020	mg/l	99		85-115		
Iron	N.D.	0.0230	0.100	mg/l	106		85-115		
Lead	N.D.	0.00013	0.0010	mg/l	102		85-115		
Magnesium	N.D.	0.0170	0.100	mg/l	100		85-115		
Nickel	N.D.	0.00094	0.0020	mg/l	107		85-115		
Potassium	N.D.	0.0877	0.200	mg/l	103		85-115		
Silver	N.D.	0.00011	0.00050	mg/l	102		85-115		
Thallium	N.D.	0.00015	0.00050	mg/l	98		85-115		
Zinc	N.D.	0.0074	0.0150	mg/l	108		85-115		
Batch number: 152227050003B	Sample number(s): 7996053-7996055,7996059								
Selenium	N.D.	0.00050	0.0020	mg/l	104		85-115		
Batch number: 15225807902A	Sample number(s): 7996053-7996055,7996059								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	89	85	78-114	5	11

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: D152231AA	Sample number(s): 7996053-7996059 UNSPK: P994931								
Benzene	84	95	72-134	13	30				
t-Butyl alcohol	78	88	67-119	12	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

REVISED

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1582797
Reported: 10/30/2015 14:01

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
1,2-Dibromoethane	80	90	77-116	12	30				
1,2-Dichloroethane	87	97	63-142	11	30				
Ethylbenzene	82	93	71-134	13	30				
Methyl Tertiary Butyl Ether	76	86	72-126	12	30				
Toluene	82	95	80-125	14	30				
Xylene (Total)	82	93	79-125	13	30				
Batch number: 152195714001	Sample number(s): 7996053-7996055,7996059 UNSPK: P992496 BKG: P992496								
Mercury	102		80-120			N.D.	N.D.	0 (1)	20
Batch number: 152195716007	Sample number(s): 7996053-7996055,7996059 UNSPK: P995910 BKG: P995910								
Barium	102		70-130			0.0083	0.0079	4 (1)	20
Boron	102		70-130			0.100	0.0967	3 (1)	20
Calcium	108 (2)		70-130			24.8	24.9	0	20
Cobalt	104		70-130			0.0028 J	0.0030 J	6 (1)	20
Lithium	104		70-130			0.0115 J	0.0139 J	18 (1)	20
Manganese	105		70-130			0.0753	0.0755	0	20
Molybdenum	105		70-130			0.0141	0.0122	14 (1)	20
Sodium	95 (2)		70-130			216	212	2	20
Vanadium	272*		70-130			0.0075	0.0066	13 (1)	20
Batch number: 152227050003A	Sample number(s): 7996053-7996055,7996059 UNSPK: P996544 BKG: P996544								
Aluminum	100		70-130			N.D.	N.D.	0 (1)	20
Antimony	107		70-130			N.D.	N.D.	0 (1)	20
Arsenic	112		70-130			0.00065 J	0.00056 J	15 (1)	20
Beryllium	103		70-130			N.D.	N.D.	0 (1)	20
Cadmium	107		70-130			N.D.	N.D.	0 (1)	20
Chromium	101		70-130			N.D.	N.D.	0 (1)	20
Copper	105		70-130			0.0284	0.0297	4	20
Iron	99		70-130			N.D.	N.D.	0 (1)	20
Lead	102		70-130			0.0053	0.0052	1	20
Magnesium	89		70-130			6.20	6.26	1	20
Nickel	111		70-130			N.D.	N.D.	0 (1)	20
Potassium	99		70-130			1.88	1.88	0	20
Silver	105		70-130			N.D.	N.D.	0 (1)	20
Thallium	106		70-130			N.D.	N.D.	0 (1)	20
Zinc	107		70-130			N.D.	N.D.	0 (1)	20
Batch number: 152227050003B	Sample number(s): 7996053-7996055,7996059 UNSPK: P996544 BKG: P996544								
Selenium	103		70-130			N.D.	N.D.	0 (1)	20
Batch number: 15225807902A	Sample number(s): 7996053-7996055,7996059 UNSPK: P997253								
HEM (oil & grease)	93		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.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

REVISED

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1582797
Reported: 10/30/2015 14:01

Surrogate Quality Control

Analysis Name: VOCs- 5ml Water by 8260B UST
Batch number: D152231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7996053	104	101	100	96
7996054	104	100	99	98
7996055	102	102	99	99
7996056	104	99	100	96
7996057	104	99	100	95
7996058	104	102	99	96
7996059	105	100	99	96
Blank	101	100	100	97
LCS	102	104	100	101
MS	103	103	100	101
MSD	101	102	101	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 15222WAY026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7996053	115	115	98
7996054	105	120	104
7996055	111	101	108
7996059	110	114	100
Blank	108	116	98
LCS	115	125	105
LCSD	125	134	114
Limits:	56-134	44-149	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15219A53A

	Trifluorotoluene-F
7996053	98
7996054	97
7996055	107
7996059	98
Blank	97
LCS	112
LCSD	111
Limits:	63-135

Analysis Name: PCBs in Water
Batch number: 152190028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
7996053	98	57
7996054	89	60
7996055	95	63
7996059	91	66
Blank	119	94
LCS	96	51
LCSD	98	68
Limits:	49-141	36-153

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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. # 9811 Group # 1582797 Sample # 7996053-59

Client:	Geosyntec Consultants
Project Name/#:	NRG PRGS
Site ID #:	
Project Manager:	Mark Johnson
P.O. #:	
Sampler:	Lindsay Keeney
PWSID #:	
Phone #:	(410) 381-4333
Quote #:	
State where sample(s) were collected:	Virginia

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

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Matrix: Sediment	Matrix: Potable	Matrix: Ground Water	Matrix: NPDES	Matrix: Surface	Matrix: Other:	Total # of Containers	TPH-GRO (8015M) H	TPH-DRO (8015M)	VOCs (8260) see list H	PAHs (8270 SIM) see list	Oil and Grease (1664A) B	TAL Metals (6010/7470A)	Hardness (SM 2340A)	PCBs (8082A)			Remarks
TW-02	8-5-15	1050	X					X				16	X		X	X	X	X	X	X			Cooler 1
TW-03		1330	X					X				16	X		X	X	X	X	X	X			Cooler 1 & 2
TW-07		1530	X					X				16	X		X	X	X	X	X	X			Cooler 2
TB1-8515		0900	X									3			X								Cooler 1
TB2-8515		1100	X									3			X								Cooler 2
TB3-8515		1300	X									3			X								Cooler 3
RINSE BLANK		1700	X									16	X		X	X	X	X	X	X			Cooler 3

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: mjohnson@geosyntec.com

Phone: (410) 381-4333

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☑	CT RCP	☐
Type IV (CLP SOW)	☐	TX TRRP-13	☐
Type VI (Raw Data Only)	☐		

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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8-5-15	2000	Denise Woodly	8-6-15	0800
Denise Woodly	8-6-15	12:45	[signature]	8/6/15	12:45
[signature]	8/6/15	17:15			
			[signature]	8/6/15	1715

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.4-5.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 94319

Group Number(s): 1582797

Client: Geosyntec

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/06/2015 17:15
Number of Packages:	3	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:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	9
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:	Yes		

Unpacked by Katherine Metzger (2241) at 21:04 on 08/06/2015

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	8013596-IR	1.4	IR	Wet	Y	Loose	N
2	8013596-IR	2.7	IR	Wet	Y	Loose	N
3	8013596-IR	5.6	IR	Wet	Y	Loose	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
RINSE BLANK	18	16	

2425 New Holland Pike
Lancaster, PA 17605-2425

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

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, and ISO 17025) 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:

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

September 04, 2015

Project: NRG PRGS

Submittal Date: 08/07/2015
Group Number: 1583712
PO Number: MEM1108/03
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-04 Grab Groundwater	8001015
TW-05 Grab Groundwater	8001016
TW-06 Grab Groundwater	8001017
TW-06 Matrix Spike Grab Groundwater	8001018
TW-06 Matrix Spike Dup Grab Groundwater	8001019
TW-06 Duplicate Grab Groundwater	8001020
TB1-8615 Water	8001021
TB2-8615 Water	8001022
TB3-8615 Water	8001023
RINSE BLANK Grab Water	8001024
TB4-8615 Water	8001025
TW-DUP Grab Groundwater	8001026

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 GeoSyntec Consultants Attn: Mark Johnson

Respectfully Submitted,

Wendy A. Kozma

Wendy A. Kozma
Principal Specialist Group Leader

(717) 556-7257

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: TW-04 Grab Groundwater
NRG PRGS

LL Sample # WW 8001015
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 13:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT04

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	0.6	J	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.5		0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.		0.02	0.05	1
10262	Anthracene	120-12-7	0.07		0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.		0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.		0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.		0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.		0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.		0.02	0.05	1
10262	Biphenyl	92-52-4	2		0.02	0.05	1
10262	Chrysene	218-01-9	N.D.		0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.1		0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.		0.02	0.05	1
10262	Fluoranthene	206-44-0	0.1		0.02	0.05	1
10262	Fluorene	86-73-7	0.4		0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	3		0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.07		0.02	0.05	1
10262	Naphthalene	91-20-3	0.6		0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.02	0.05	1
10262	Perylene	198-55-0	N.D.		0.02	0.05	1
10262	Phenanthrene	85-01-8	0.04	J	0.02	0.05	1
10262	Pyrene	129-00-0	0.04	J	0.02	0.05	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	38	J	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.		0.081	0.40	1
10227	PCB-1221	11104-28-2	N.D.		0.081	0.40	1
10227	PCB-1232	11141-16-5	N.D.		0.16	0.40	1
10227	PCB-1242	53469-21-9	N.D.		0.081	0.40	1
10227	PCB-1248	12672-29-6	N.D.		0.081	0.40	1
10227	PCB-1254	11097-69-1	N.D.		0.081	0.40	1
10227	PCB-1260	11096-82-5	N.D.		0.12	0.40	1
	The recovery for the method blank surrogate(s) is outside the						

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: TW-04 Grab Groundwater
NRG PRGS

LL Sample # WW 8001015
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 13:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.					
Metals		**EPA 200.7 rev 4.4**	**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.312	0.00030	0.0050	1
08014	Boron	7440-42-8	0.0780	0.0083	0.0500	1
01750	Calcium	7440-70-2	225	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.0168	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0132 J	0.0080	0.0200	1
01757	Magnesium	7439-95-4	18.8	0.0167	0.100	1
07058	Manganese	7439-96-5	4.11	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	0.0020 J	0.0017	0.0100	1
01767	Sodium	7440-23-5	23.6	0.167	1.00	1
07071	Vanadium	7440-62-2	0.0061	0.0014	0.0050	1
		EPA 200.8 rev 5.4	**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	2.41	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0134	0.00040	0.0020	1
06027	Beryllium	7440-41-7	0.00023 J	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	0.0067	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0074	0.00040	0.0020	1
06034	Iron	7439-89-6	98.4	0.0230	0.100	1
06035	Lead	7439-92-1	0.0084	0.00013	0.0010	1
06036	Magnesium	7439-95-4	18.0	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0213	0.00094	0.0020	1
06040	Potassium	7440-09-7	20.1	0.0877	0.200	1
06041	Selenium	7782-49-2	0.00062 J	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	0.00031 J	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.0971	0.0074	0.0150	1
		EPA 245.1 rev 3	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
		SM 2340 B-1997	**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	639	0.033	0.20	1
Wet Chemistry		**EPA 1664B**	**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.7 J	1.4	5.0	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.

*=This limit was used in the evaluation of the final result

Sample Description: TW-04 Grab Groundwater
NRG PRGS

LL Sample # WW 8001015
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 13:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015	14:47	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015	14:47	Hu Yang	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15224WAK026	08/19/2015	10:48	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15224WAK026	08/12/2015	21:45	Karen L Beyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A20A	08/17/2015	21:37	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A20A	08/17/2015	21:37	Brett W Kenyon	1
10227	PCBs in Water	SW-846 8082	1	152240024A	08/13/2015	13:45	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	152240024A	08/12/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
08014	Boron	EPA 200.7 rev 4.4	1	152245716003	08/14/2015	14:58	Eric L Eby	1
01750	Calcium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
01756	Lithium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
07058	Manganese	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
01767	Sodium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:43	Suzanne M Will	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152245716003	08/14/2015	14:58	Eric L Eby	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	16:45	Mallory L Clark	1
06034	Iron	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152247050004B	08/14/2015	08:20	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:20	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	16:45	Mallory L Clark	1
00259	Mercury	EPA 245.1 rev 3	1	152245714001	08/14/2015	06:47	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152266256001	08/16/2015	06:13	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	09:21	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152247050004	08/13/2015	09:21	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152245714001	08/13/2015	11:58	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15226807901A	08/14/2015	09:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: TW-05 Grab Groundwater
NRG PRGS

LL Sample # WW 8001016
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 15:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	2	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.7	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	0.06	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	2	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.2	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.05	0.02	0.05	1
10262	Fluoranthene	206-44-0	0.05	0.02	0.05	1
10262	Fluorene	86-73-7	0.3	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	1	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.2	0.02	0.05	1
10262	Naphthalene	91-20-3	0.8	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	0.2	0.02	0.05	1
10262	Pyrene	129-00-0	0.07	0.02	0.05	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	37 J	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.	0.082	0.41	1
10227	PCB-1221	11104-28-2	N.D.	0.082	0.41	1
10227	PCB-1232	11141-16-5	N.D.	0.16	0.41	1
10227	PCB-1242	53469-21-9	N.D.	0.082	0.41	1
10227	PCB-1248	12672-29-6	N.D.	0.082	0.41	1
10227	PCB-1254	11097-69-1	N.D.	0.082	0.41	1
10227	PCB-1260	11096-82-5	N.D.	0.12	0.41	1
	The recovery for the method blank surrogate(s) is outside the					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TW-05 Grab Groundwater
NRG PRGS

LL Sample # WW 8001016
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 15:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals		**EPA 200.7 rev 4.4**	**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.187	0.00030	0.0050	1
08014	Boron	7440-42-8	0.0852	0.0083	0.0500	1
01750	Calcium	7440-70-2	127	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.0596	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0117 J	0.0080	0.0200	1
01757	Magnesium	7439-95-4	15.5	0.0167	0.100	1
07058	Manganese	7439-96-5	3.25	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	0.0100	1
01767	Sodium	7440-23-5	24.4	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
		EPA 200.8 rev 5.4	**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	0.412	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0068	0.00040	0.0020	1
06027	Beryllium	7440-41-7	0.00020 J	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	N.D.	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0022	0.00040	0.0020	1
06034	Iron	7439-89-6	68.7	0.0230	0.100	1
06035	Lead	7439-92-1	0.0062	0.00013	0.0010	1
06036	Magnesium	7439-95-4	16.2	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0352	0.00094	0.0020	1
06040	Potassium	7440-09-7	22.7	0.0877	0.200	1
06041	Selenium	7782-49-2	0.00067 J	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	0.00019 J	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.155	0.0074	0.0150	1
		EPA 245.1 rev 3	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
		SM 2340 B-1997	**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	382	0.033	0.20	1
Wet Chemistry		**EPA 1664B**	**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	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.

*=This limit was used in the evaluation of the final result

Sample Description: TW-05 Grab Groundwater
NRG PRGS

LL Sample # WW 8001016
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 15:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015	15:11	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015	15:11	Hu Yang	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15224WAK026	08/19/2015	11:32	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15224WAK026	08/12/2015	21:45	Karen L Beyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A20A	08/17/2015	22:04	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A20A	08/17/2015	22:04	Brett W Kenyon	1
10227	PCBs in Water	SW-846 8082	1	152240024A	08/13/2015	13:56	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	152240024A	08/12/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
08014	Boron	EPA 200.7 rev 4.4	1	152245716003	08/14/2015	15:02	Eric L Eby	1
01750	Calcium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
01756	Lithium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
07058	Manganese	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
01767	Sodium	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	18:46	Suzanne M Will	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152245716003	08/14/2015	15:02	Eric L Eby	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	16:47	Mallory L Clark	1
06034	Iron	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152247050004B	08/14/2015	08:23	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:23	Choon Y Tian	1
00259	Mercury	EPA 245.1 rev 3	1	152245714001	08/14/2015	06:54	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152266256001	08/16/2015	06:13	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152245716003	08/13/2015	09:21	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152247050004	08/13/2015	09:21	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152245714001	08/13/2015	11:58	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15226807901A	08/14/2015	09:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Grab Groundwater
NRG PRGS

LL Sample # WW 8001017
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 17:45 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	2	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	1	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	2	0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.2	0.02	0.05	1
10262	Anthracene	120-12-7	0.1	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	6	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.7	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.4	0.02	0.05	1
10262	Fluoranthene	206-44-0	0.08	0.02	0.05	1
10262	Fluorene	86-73-7	3	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	10	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.2	0.02	0.05	1
10262	Naphthalene	91-20-3	2	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	1	0.02	0.05	1
10262	Pyrene	129-00-0	0.2	0.02	0.05	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	81	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.	0.081	0.40	1
10227	PCB-1221	11104-28-2	N.D.	0.081	0.40	1
10227	PCB-1232	11141-16-5	N.D.	0.16	0.40	1
10227	PCB-1242	53469-21-9	N.D.	0.081	0.40	1
10227	PCB-1248	12672-29-6	N.D.	0.081	0.40	1
10227	PCB-1254	11097-69-1	N.D.	0.081	0.40	1
10227	PCB-1260	11096-82-5	N.D.	0.12	0.40	1
	The recovery for the method blank surrogate(s) is outside the					

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Grab Groundwater
NRG PRGS

LL Sample # WW 8001017
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 17:45 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.					
Metals		**EPA 200.7 rev 4.4**	**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.0882	0.00030	0.0050	1
08014	Boron	7440-42-8	0.127	0.0083	0.0500	1
01750	Calcium	7440-70-2	149	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.0121	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0284	0.0080	0.0200	1
01757	Magnesium	7439-95-4	10.7	0.0167	0.100	1
07058	Manganese	7439-96-5	2.73	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	0.0059 J	0.0017	0.0100	1
01767	Sodium	7440-23-5	39.2	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
		EPA 200.8 rev 5.4	**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	0.0285 J	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0043	0.00040	0.0020	1
06027	Beryllium	7440-41-7	N.D.	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	N.D.	0.00070	0.0020	1
06033	Copper	7440-50-8	0.00087 J	0.00040	0.0020	1
06034	Iron	7439-89-6	73.2	0.0230	0.100	1
06035	Lead	7439-92-1	0.0019	0.00013	0.0010	1
06036	Magnesium	7439-95-4	10.1	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0076	0.00094	0.0020	1
06040	Potassium	7440-09-7	14.7	0.0877	0.200	1
06041	Selenium	7782-49-2	N.D.	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
06049	Zinc	7440-66-6	N.D.	0.0074	0.0150	1
		EPA 245.1 rev 3	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
		SM 2340 B-1997	**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	417	0.033	0.20	1
Wet Chemistry		**EPA 1664B**	**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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.

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Grab Groundwater
NRG PRGS

LL Sample # WW 8001017
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 17:45 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015	13:35	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015	13:35	Hu Yang	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15224WAK026	08/18/2015	13:43	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15224WAK026	08/12/2015	21:45	Karen L Beyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A20A	08/17/2015	18:21	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A20A	08/17/2015	18:21	Brett W Kenyon	1
10227	PCBs in Water	SW-846 8082	1	152240024A	08/13/2015	14:08	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	152240024A	08/12/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
08014	Boron	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
01750	Calcium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
01756	Lithium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
07058	Manganese	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
01767	Sodium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:11	Suzanne M Will	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06024	Antimony	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06031	Chromium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06033	Copper	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06034	Iron	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06035	Lead	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06039	Nickel	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06040	Potassium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06041	Selenium	EPA 200.8 rev 5.4	1	152257050002B	08/14/2015	18:30	Mallory L Clark	1
06042	Silver	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06045	Thallium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
06049	Zinc	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:30	Mallory L Clark	1
00259	Mercury	EPA 245.1 rev 3	1	152255714002	08/17/2015	07:55	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152286256001	08/16/2015	05:02	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	09:11	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152257050002	08/14/2015	09:11	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152255714002	08/14/2015	11:34	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15226807901A	08/14/2015	09:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Matrix Spike Grab Groundwater NRG PRGS

LL Sample # WW 8001018
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	22	0.5	1	1
10945	t-Butyl alcohol	75-65-0	200	2	5	1
10945	1,2-Dibromoethane	106-93-4	20	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	18	0.5	1	1
10945	Ethylbenzene	100-41-4	21	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	18	0.5	1	1
10945	Toluene	108-88-3	20	0.5	1	1
10945	Xylene (Total)	1330-20-7	63	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	3	0.02	0.05	1
10262	Acenaphthylene	208-96-8	1	0.02	0.05	1
10262	Anthracene	120-12-7	0.9	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	0.9	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	1	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	1	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	0.8	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	1	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	0.9	0.02	0.05	1
10262	Biphenyl	92-52-4	7	0.02	0.05	1
10262	Chrysene	218-01-9	0.8	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	1	0.02	0.05	1
10262	Dibenzofuran	132-64-9	2	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	1	0.02	0.05	1
10262	Fluoranthene	206-44-0	1	0.02	0.05	1
10262	Fluorene	86-73-7	4	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	1	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	9	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.9	0.02	0.05	1
10262	Naphthalene	91-20-3	2	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	1	0.02	0.05	1
10262	Phenanthrene	85-01-8	2	0.02	0.05	1
10262	Pyrene	129-00-0	0.9	0.02	0.05	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,200	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	4.2	0.081	0.41	1
10227	PCB-1221	11104-28-2	N.D.	0.081	0.41	1
10227	PCB-1232	11141-16-5	N.D.	0.16	0.41	1
10227	PCB-1242	53469-21-9	N.D.	0.081	0.41	1
10227	PCB-1248	12672-29-6	N.D.	0.081	0.41	1
10227	PCB-1254	11097-69-1	N.D.	0.081	0.41	1
10227	PCB-1260	11096-82-5	4.2	0.12	0.41	1

The recovery for the method blank surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Matrix Spike Grab Groundwater
NRG PRGS

LL Sample # WW 8001018
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**EPA 200.7 rev 4.4**		**mg/l**	**mg/l**	**mg/l**	
07046	Barium		7440-39-3	2.10	0.00030	0.0050	1
08014	Boron		7440-42-8	2.10	0.0083	0.0500	1
01750	Calcium		7440-70-2	154	0.0333	0.200	1
07052	Cobalt		7440-48-4	0.537	0.00090	0.0050	1
01756	Lithium		7439-93-2	1.10	0.0080	0.0200	1
01757	Magnesium		7439-95-4	12.7	0.0167	0.100	1
07058	Manganese		7439-96-5	3.14	0.00080	0.0050	1
07060	Molybdenum		7439-98-7	2.08	0.0017	0.0100	1
01767	Sodium		7440-23-5	50.1	0.167	1.00	1
07071	Vanadium		7440-62-2	0.517	0.0014	0.0050	1
		EPA 200.8 rev 5.4		**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum		7429-90-5	2.01	0.0260	0.100	1
06024	Antimony		7440-36-0	0.0061	0.00033	0.0010	1
06025	Arsenic		7440-38-2	0.0152	0.00040	0.0020	1
06027	Beryllium		7440-41-7	0.0041	0.000071	0.00050	1
06028	Cadmium		7440-43-9	0.0050	0.00023	0.00050	1
06031	Chromium		7440-47-3	0.0504	0.00070	0.0020	1
06033	Copper		7440-50-8	0.0511	0.00040	0.0020	1
06034	Iron		7439-89-6	71.9	0.0230	0.100	1
06035	Lead		7439-92-1	0.0175	0.00013	0.0010	1
06036	Magnesium		7439-95-4	12.1	0.0170	0.100	1
06039	Nickel		7440-02-0	0.0590	0.00094	0.0020	1
06040	Potassium		7440-09-7	24.3	0.0877	0.200	1
06041	Selenium		7782-49-2	0.010	0.00050	0.0020	1
06042	Silver		7440-22-4	0.0518	0.00011	0.00050	1
06045	Thallium		7440-28-0	0.0021	0.00015	0.00050	1
06049	Zinc		7440-66-6	0.498	0.0074	0.0150	1
		EPA 245.1 rev 3		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury		7439-97-6	0.0010	0.000050	0.00020	1
		SM 2340 B-1997		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3		471-34-1	436	0.033	0.20	1
Wet Chemistry		**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)		n.a.	37.7	1.4	5.0	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

*=This limit was used in the evaluation of the final result

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: TW-06 Matrix Spike Grab Groundwater NRG PRGS

LL Sample # WW 8001018
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015	13:59	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015	13:59	Hu Yang	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15224WAK026	08/18/2015	14:28	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15224WAK026	08/12/2015	21:45	Karen L Beyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A20A	08/17/2015	18:49	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A20A	08/17/2015	18:49	Brett W Kenyon	1
10227	PCBs in Water	SW-846 8082	1	152240024A	08/13/2015	14:20	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	152240024A	08/12/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
08014	Boron	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
01750	Calcium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
01756	Lithium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
07058	Manganese	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
01767	Sodium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:21	Suzanne M Will	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06024	Antimony	EPA 200.8 rev 5.4	1	152257050002A	08/17/2015	18:11	Mallory L Clark	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06031	Chromium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06033	Copper	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06034	Iron	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06035	Lead	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06039	Nickel	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06040	Potassium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06041	Selenium	EPA 200.8 rev 5.4	1	152257050002B	08/14/2015	18:39	Mallory L Clark	1
06042	Silver	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06045	Thallium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
06049	Zinc	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:39	Mallory L Clark	1
00259	Mercury	EPA 245.1 rev 3	1	152255714002	08/17/2015	08:03	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152286256001	08/16/2015	05:02	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	09:11	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152257050002	08/14/2015	09:11	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152255714002	08/14/2015	11:34	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15226807901A	08/14/2015	09:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Matrix Spike Dup Grab Groundwater NRG PRGS

LL Sample # WW 8001019
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	22	0.5	1	1
10945	t-Butyl alcohol	75-65-0	200	2	5	1
10945	1,2-Dibromoethane	106-93-4	20	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	18	0.5	1	1
10945	Ethylbenzene	100-41-4	21	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	18	0.5	1	1
10945	Toluene	108-88-3	20	0.5	1	1
10945	Xylene (Total)	1330-20-7	62	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	3	0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.9	0.02	0.05	1
10262	Anthracene	120-12-7	0.9	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	1	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	1	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	1	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	0.9	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	1	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	0.9	0.02	0.05	1
10262	Biphenyl	92-52-4	7	0.02	0.05	1
10262	Chrysene	218-01-9	0.8	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	1	0.02	0.05	1
10262	Dibenzofuran	132-64-9	2	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	1	0.02	0.05	1
10262	Fluoranthene	206-44-0	0.9	0.02	0.05	1
10262	Fluorene	86-73-7	3	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	1	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	9	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	1	0.02	0.05	1
10262	Naphthalene	91-20-3	2	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	1	0.02	0.05	1
10262	Phenanthrene	85-01-8	2	0.02	0.05	1
10262	Pyrene	129-00-0	1	0.02	0.05	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,300	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	4.2	0.082	0.41	1
10227	PCB-1221	11104-28-2	N.D.	0.082	0.41	1
10227	PCB-1232	11141-16-5	N.D.	0.16	0.41	1
10227	PCB-1242	53469-21-9	N.D.	0.082	0.41	1
10227	PCB-1248	12672-29-6	N.D.	0.082	0.41	1
10227	PCB-1254	11097-69-1	N.D.	0.082	0.41	1
10227	PCB-1260	11096-82-5	4.4	0.12	0.41	1

The recovery for the method blank surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TW-06 Matrix Spike Dup Grab Groundwater
NRG PRGS

LL Sample # WW 8001019
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	2.07	0.00030	0.0050	1
08014	Boron	7440-42-8	2.07	0.0083	0.0500	1
01750	Calcium	7440-70-2	156	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.524	0.00090	0.0050	1
01756	Lithium	7439-93-2	1.08	0.0080	0.0200	1
01757	Magnesium	7439-95-4	12.7	0.0167	0.100	1
07058	Manganese	7439-96-5	3.13	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	2.04	0.0017	0.0100	1
01767	Sodium	7440-23-5	50.0	0.167	1.00	1
07071	Vanadium	7440-62-2	0.503	0.0014	0.0050	1
	EPA 200.8 rev 5.4		mg/l	mg/l	mg/l	
06023	Aluminum	7429-90-5	1.97	0.0260	0.100	1
06024	Antimony	7440-36-0	0.0068	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0154	0.00040	0.0020	1
06027	Beryllium	7440-41-7	0.0038	0.000071	0.00050	1
06028	Cadmium	7440-43-9	0.0052	0.00023	0.00050	1
06031	Chromium	7440-47-3	0.0512	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0511	0.00040	0.0020	1
06034	Iron	7439-89-6	74.6	0.0230	0.100	1
06035	Lead	7439-92-1	0.0171	0.00013	0.0010	1
06036	Magnesium	7439-95-4	12.4	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0596	0.00094	0.0020	1
06040	Potassium	7440-09-7	24.8	0.0877	0.200	1
06041	Selenium	7782-49-2	0.0103	0.00050	0.0020	1
06042	Silver	7440-22-4	0.0512	0.00011	0.00050	1
06045	Thallium	7440-28-0	0.0020	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.505	0.0074	0.0150	1
	EPA 245.1 rev 3		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	0.000050	0.00020	1
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	440	0.033	0.20	1
Wet Chemistry	**EPA 1664B**		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	38.4	1.4	5.0	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

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Matrix Spike Dup Grab Groundwater NRG PRGS

LL Sample # WW 8001019
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015	14:23	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015	14:23	Hu Yang	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15224WAK026	08/19/2015	10:03	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15224WAK026	08/12/2015	21:45	Karen L Beyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A20A	08/17/2015	19:17	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A20A	08/17/2015	19:17	Brett W Kenyon	1
10227	PCBs in Water	SW-846 8082	1	152240024A	08/13/2015	14:31	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	152240024A	08/12/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
08014	Boron	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
01750	Calcium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
01756	Lithium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
07058	Manganese	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
01767	Sodium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:24	Suzanne M Will	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06024	Antimony	EPA 200.8 rev 5.4	1	152257050002A	08/17/2015	18:13	Mallory L Clark	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06031	Chromium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06033	Copper	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06034	Iron	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06035	Lead	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06039	Nickel	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06040	Potassium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06041	Selenium	EPA 200.8 rev 5.4	1	152257050002B	08/14/2015	18:42	Mallory L Clark	1
06042	Silver	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06045	Thallium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
06049	Zinc	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:42	Mallory L Clark	1
00259	Mercury	EPA 245.1 rev 3	1	152255714002	08/17/2015	08:05	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152286256001	08/16/2015	05:02	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	09:11	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152257050002	08/14/2015	09:11	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152255714002	08/14/2015	11:34	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15226807901A	08/14/2015	09:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: TW-06 Duplicate Grab Groundwater
NRG PRGS

LL Sample # WW 8001020
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 17:45 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	0.0888	0.00030	0.0050	1
08014	Boron	7440-42-8	0.127	0.0083	0.0500	1
01750	Calcium	7440-70-2	149	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.0124	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0261	0.0080	0.0200	1
01757	Magnesium	7439-95-4	10.7	0.0167	0.100	1
07058	Manganese	7439-96-5	2.73	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	0.0100	1
01767	Sodium	7440-23-5	39.4	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
	EPA 200.8 rev 5.4		mg/l	mg/l	mg/l	
06023	Aluminum	7429-90-5	0.0358 J	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0049	0.00040	0.0020	1
06027	Beryllium	7440-41-7	N.D.	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	N.D.	0.00070	0.0020	1
06033	Copper	7440-50-8	0.00080 J	0.00040	0.0020	1
06034	Iron	7439-89-6	80.7	0.0230	0.100	1
06035	Lead	7439-92-1	0.0019	0.00013	0.0010	1
06036	Magnesium	7439-95-4	10.8	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0081	0.00094	0.0020	1
06040	Potassium	7440-09-7	15.4	0.0877	0.200	1
06041	Selenium	7782-49-2	N.D.	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
06049	Zinc	7440-66-6	N.D.	0.0074	0.0150	1
	EPA 245.1 rev 3		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	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
07046	Barium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1
08014	Boron	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1
01750	Calcium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1
01756	Lithium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1
07058	Manganese	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152255716002	08/14/2015 18:17	Suzanne M Will	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TW-06 Duplicate Grab Groundwater NRG PRGS

LL Sample # WW 8001020
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 17:45 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRT06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01767	Sodium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:17	Suzanne M Will	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	18:17	Suzanne M Will	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06024	Antimony	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06031	Chromium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06033	Copper	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06034	Iron	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06035	Lead	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06039	Nickel	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06040	Potassium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06041	Selenium	EPA 200.8 rev 5.4	1	152257050002B	08/14/2015	18:36	Mallory L Clark	1
06042	Silver	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06045	Thallium	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
06049	Zinc	EPA 200.8 rev 5.4	1	152257050002A	08/14/2015	18:36	Mallory L Clark	1
00259	Mercury	EPA 245.1 rev 3	1	152255714002	08/17/2015	07:57	Damary Valentin	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152255716002	08/14/2015	09:11	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152257050002	08/14/2015	09:11	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152255714002	08/14/2015	11:34	Katlin N Cataldi	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB1-8615 Water
NRG PRGS

LL Sample # WW 8001021
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 10:00

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTT1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015 11:33	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015 11:33	Hu Yang	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB2-8615 Water
NRG PRGS

LL Sample # WW 8001022
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 14:00

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTT2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015 11:57	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015 11:57	Hu Yang	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB3-8615 Water
NRG PRGS

LL Sample # WW 8001023
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:00

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTT3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015 12:23	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015 12:23	Hu Yang	1

*=This limit was used in the evaluation of the final result

Sample Description: RINSE BLANK Grab Water
NRG PRGS

LL Sample # WW 8001024
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 19:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTR1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	N.D.	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	N.D.	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	N.D.	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	N.D.	0.02	0.05	1
10262	Naphthalene	91-20-3	N.D.	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	N.D.	0.02	0.05	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.	0.081	0.40	1
10227	PCB-1221	11104-28-2	N.D.	0.081	0.40	1
10227	PCB-1232	11141-16-5	N.D.	0.16	0.40	1
10227	PCB-1242	53469-21-9	N.D.	0.081	0.40	1
10227	PCB-1248	12672-29-6	N.D.	0.081	0.40	1
10227	PCB-1254	11097-69-1	N.D.	0.081	0.40	1
10227	PCB-1260	11096-82-5	N.D.	0.12	0.40	1

The recovery for the method blank surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: RINSE BLANK Grab Water
NRG PRGS

LL Sample # WW 8001024
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 19:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTR1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	N.D.	0.00030	0.0050	1
08014	Boron	7440-42-8	N.D.	0.0083	0.0500	1
01750	Calcium	7440-70-2	N.D.	0.0333	0.200	1
07052	Cobalt	7440-48-4	N.D.	0.00090	0.0050	1
01756	Lithium	7439-93-2	N.D.	0.0080	0.0200	1
01757	Magnesium	7439-95-4	N.D.	0.0167	0.100	1
07058	Manganese	7439-96-5	N.D.	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	0.0018 J	0.0017	0.0100	1
01767	Sodium	7440-23-5	0.170 J	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
	EPA 200.8 rev 5.4		mg/l	mg/l	mg/l	
06023	Aluminum	7429-90-5	N.D.	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	N.D.	0.00040	0.0020	1
06027	Beryllium	7440-41-7	N.D.	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	N.D.	0.00070	0.0020	1
06033	Copper	7440-50-8	N.D.	0.00040	0.0020	1
06034	Iron	7439-89-6	0.0444 J	0.0230	0.100	1
06035	Lead	7439-92-1	N.D.	0.00013	0.0010	1
06036	Magnesium	7439-95-4	N.D.	0.0170	0.100	1
06039	Nickel	7440-02-0	N.D.	0.00094	0.0020	1
06040	Potassium	7440-09-7	N.D.	0.0877	0.200	1
06041	Selenium	7782-49-2	N.D.	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	N.D.	0.00015	0.00050	1
06049	Zinc	7440-66-6	N.D.	0.0074	0.0150	1
	EPA 245.1 rev 3		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	N.D.	0.033	0.20	1
Wet Chemistry	**EPA 1664B**		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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

*=This limit was used in the evaluation of the final result

Sample Description: RINSE BLANK Grab Water
NRG PRGS

LL Sample # WW 8001024
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 19:00 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTR1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015	12:47	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015	12:47	Hu Yang	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15224WAK026	08/19/2015	12:16	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15224WAK026	08/12/2015	21:45	Karen L Beyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A20A	08/17/2015	19:45	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A20A	08/17/2015	19:45	Brett W Kenyon	1
10227	PCBs in Water	SW-846 8082	1	152240024A	08/13/2015	14:43	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	152240024A	08/12/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
08014	Boron	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
01750	Calcium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
01756	Lithium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
01767	Sodium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	02:59	Tara L Snyder	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06034	Iron	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152247050004B	08/14/2015	08:29	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:29	Choon Y Tian	1
00259	Mercury	EPA 245.1 rev 3	1	152245714001	08/14/2015	06:56	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152266256001	08/14/2015	09:03	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152245716004	08/13/2015	09:21	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152247050004	08/13/2015	09:21	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152245714001	08/13/2015	11:58	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15226807901A	08/14/2015	09:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB4-8615 Water
NRG PRGS

LL Sample # WW 8001025
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 18:30

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTT4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015 13:11	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015 13:11	Hu Yang	1

*=This limit was used in the evaluation of the final result

Sample Description: TW-DUP Grab Groundwater
NRG PRGS

LL Sample # WW 8001026
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 15:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTD1

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	2		0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.		2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.9		0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.06		0.02	0.05	1
10262	Anthracene	120-12-7	0.06		0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.		0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.		0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.		0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.		0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.		0.02	0.05	1
10262	Biphenyl	92-52-4	2		0.02	0.05	1
10262	Chrysene	218-01-9	N.D.		0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.2		0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.05		0.02	0.05	1
10262	Fluoranthene	206-44-0	0.07		0.02	0.05	1
10262	Fluorene	86-73-7	0.4		0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	1		0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.2		0.02	0.05	1
10262	Naphthalene	91-20-3	0.9		0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.02	0.05	1
10262	Perylene	198-55-0	N.D.		0.02	0.05	1
10262	Phenanthrene	85-01-8	0.2		0.02	0.05	1
10262	Pyrene	129-00-0	0.07		0.02	0.05	1
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	36	J	20	50	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.		0.081	0.41	1
10227	PCB-1221	11104-28-2	N.D.		0.081	0.41	1
10227	PCB-1232	11141-16-5	N.D.		0.16	0.41	1
10227	PCB-1242	53469-21-9	N.D.		0.081	0.41	1
10227	PCB-1248	12672-29-6	N.D.		0.081	0.41	1
10227	PCB-1254	11097-69-1	N.D.		0.081	0.41	1
10227	PCB-1260	11096-82-5	N.D.		0.12	0.41	1

The recovery for the method blank surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

*=This limit was used in the evaluation of the final result

Sample Description: TW-DUP Grab Groundwater
NRG PRGS

LL Sample # WW 8001026
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 15:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTD1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals	**EPA 200.7 rev 4.4**		mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	0.179	0.00030	0.0050	1
08014	Boron	7440-42-8	0.0973	0.0083	0.0500	1
01750	Calcium	7440-70-2	133	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.0572	0.00090	0.0050	1
01756	Lithium	7439-93-2	N.D.	0.0080	0.0200	1
01757	Magnesium	7439-95-4	16.2	0.0167	0.100	1
07058	Manganese	7439-96-5	3.20	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	0.0100	1
01767	Sodium	7440-23-5	26.3	0.167	1.00	1
07071	Vanadium	7440-62-2	N.D.	0.0014	0.0050	1
	EPA 200.8 rev 5.4		mg/l	mg/l	mg/l	
06023	Aluminum	7429-90-5	0.203	0.0260	0.100	1
06024	Antimony	7440-36-0	N.D.	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0067	0.00040	0.0020	1
06027	Beryllium	7440-41-7	0.00019 J	0.000071	0.00050	1
06028	Cadmium	7440-43-9	N.D.	0.00023	0.00050	1
06031	Chromium	7440-47-3	N.D.	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0012 J	0.00040	0.0020	1
06034	Iron	7439-89-6	68.8	0.0230	0.100	1
06035	Lead	7439-92-1	0.0055	0.00013	0.0010	1
06036	Magnesium	7439-95-4	15.5	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0342	0.00094	0.0020	1
06040	Potassium	7440-09-7	23.3	0.0877	0.200	1
06041	Selenium	7782-49-2	0.00061 J	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	0.00017 J	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.143	0.0074	0.0150	1
	EPA 245.1 rev 3		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	0.00020	1
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	400	0.033	0.20	1
Wet Chemistry	**EPA 1664B**		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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

*=This limit was used in the evaluation of the final result

Sample Description: TW-DUP Grab Groundwater
NRG PRGS

LL Sample # WW 8001026
LL Group # 1583712
Account # 09811

Project Name: NRG PRGS

Collected: 08/06/2015 15:30 by LK

Submitted: 08/07/2015 18:15
Reported: 09/04/2015 14:26

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

NRTD1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152242AA	08/12/2015	15:35	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152242AA	08/12/2015	15:35	Hu Yang	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15224WAK026	08/19/2015	13:01	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15224WAK026	08/12/2015	21:45	Karen L Beyer	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A20A	08/17/2015	22:32	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A20A	08/17/2015	22:32	Brett W Kenyon	1
10227	PCBs in Water	SW-846 8082	1	152240024A	08/13/2015	14:55	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	152240024A	08/12/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
08014	Boron	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
01750	Calcium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
01756	Lithium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
07058	Manganese	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
01767	Sodium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152245716004	08/14/2015	03:02	Tara L Snyder	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	16:52	Mallory L Clark	1
06034	Iron	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152247050004B	08/14/2015	08:26	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	08:26	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152247050004A	08/14/2015	16:52	Mallory L Clark	1
00259	Mercury	EPA 245.1 rev 3	1	152245714001	08/14/2015	06:58	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152266256001	08/14/2015	09:03	Deborah A Krady	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152245716004	08/13/2015	09:21	Katlin N Cataldi	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152247050004	08/13/2015	09:21	Katlin N Cataldi	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152245714001	08/13/2015	11:58	Katlin N Cataldi	1
08079	HEM (oil & grease)	EPA 1664B	1	15226807901A	08/14/2015	09:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1583712
Reported: 09/04/2015 14:26

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**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z152242AA	Sample number(s): 8001015-8001019,8001021-8001026								
Benzene	N.D.	0.5	1	ug/l	96		78-120		
t-Butyl alcohol	N.D.	2.	5	ug/l	102		78-121		
1,2-Dibromoethane	N.D.	0.5	1	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.5	1	ug/l	88		72-127		
Ethylbenzene	N.D.	0.5	1	ug/l	95		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	95		75-120		
Toluene	N.D.	0.5	1	ug/l	96		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	101		80-120		
Batch number: 15224WAK026	Sample number(s): 8001015-8001019,8001024,8001026								
Acenaphthene	N.D.	0.02	0.05	ug/l	86		67-126		
Acenaphthylene	N.D.	0.02	0.05	ug/l	94		67-120		
Anthracene	N.D.	0.02	0.05	ug/l	87		72-128		
Benzo(a)anthracene	N.D.	0.02	0.05	ug/l	103		76-119		
Benzo(a)pyrene	N.D.	0.02	0.05	ug/l	110		70-120		
Benzo(b)fluoranthene	N.D.	0.02	0.05	ug/l	112		76-132		
Benzo(e)pyrene	N.D.	0.02	0.05	ug/l	92		75-117		
Benzo(g,h,i)perylene	N.D.	0.02	0.05	ug/l	112		58-129		
Benzo(k)fluoranthene	N.D.	0.02	0.05	ug/l	104		69-126		
Biphenyl	N.D.	0.02	0.05	ug/l	96		74-101		
Chrysene	N.D.	0.02	0.05	ug/l	87		76-121		
Dibenz(a,h)anthracene	N.D.	0.02	0.05	ug/l	120		47-136		
Dibenzofuran	N.D.	0.02	0.05	ug/l	76		70-130		
Dibenzothiophene	N.D.	0.02	0.05	ug/l	87		76-111		
Fluoranthene	N.D.	0.02	0.05	ug/l	97		76-121		
Fluorene	N.D.	0.02	0.05	ug/l	93		71-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.02	0.05	ug/l	132*		56-129		
1-Methylnaphthalene	N.D.	0.02	0.05	ug/l	90		65-122		
2-Methylnaphthalene	N.D.	0.02	0.05	ug/l	87		59-124		
Naphthalene	N.D.	0.02	0.05	ug/l	87		60-122		
Naphthobenzothiophene	N.D.	0.02	0.05	ug/l					
Perylene	N.D.	0.02	0.05	ug/l	113		61-123		
Phenanthrene	N.D.	0.02	0.05	ug/l	89		75-121		
Pyrene	N.D.	0.02	0.05	ug/l	92		63-122		
Batch number: 15226A20A	Sample number(s): 8001015-8001019,8001024,8001026								
TPH-GRO water C6-C10	N.D.	20.	50	ug/l	97		80-129		
Batch number: 152240024A	Sample number(s): 8001015-8001019,8001024,8001026								
PCB-1016	N.D.	0.080	0.40	ug/l	89		60-117		
PCB-1221	N.D.	0.080	0.40	ug/l					
PCB-1232	N.D.	0.16	0.40	ug/l					
PCB-1242	N.D.	0.080	0.40	ug/l					

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1583712
Reported: 09/04/2015 14:26

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	N.D.	0.080	0.40	ug/l					
PCB-1254	N.D.	0.080	0.40	ug/l					
PCB-1260	N.D.	0.12	0.40	ug/l	89		64-134		
Batch number: 152245714001	Sample number(s): 8001015-8001016,8001024,8001026								
Mercury	N.D.	0.00005 0	0.00020	mg/l	104		85-115		
Batch number: 152245716003	Sample number(s): 8001015-8001016								
Barium	N.D.	0.00030	0.0050	mg/l	99		85-115		
Boron	N.D.	0.0083	0.0500	mg/l	95		85-115		
Calcium	0.0454 J	0.0333	0.200	mg/l	100		85-115		
Cobalt	N.D.	0.00090	0.0050	mg/l	101		85-115		
Lithium	N.D.	0.0080	0.0200	mg/l	99		85-115		
Magnesium	0.219	0.0167	0.100	mg/l	99		85-115		
Manganese	N.D.	0.00080	0.0050	mg/l	100		85-115		
Molybdenum	N.D.	0.0017	0.0100	mg/l	98		85-115		
Sodium	N.D.	0.167	1.00	mg/l	100		85-115		
Vanadium	N.D.	0.0014	0.0050	mg/l	100		85-115		
Batch number: 152245716004	Sample number(s): 8001024,8001026								
Barium	N.D.	0.00030	0.0050	mg/l	97		85-115		
Boron	N.D.	0.0083	0.0500	mg/l	91		85-115		
Calcium	N.D.	0.0333	0.200	mg/l	101		85-115		
Cobalt	N.D.	0.00090	0.0050	mg/l	101		85-115		
Lithium	N.D.	0.0080	0.0200	mg/l	98		85-115		
Magnesium	N.D.	0.0167	0.100	mg/l	101		85-115		
Manganese	N.D.	0.00080	0.0050	mg/l	97		85-115		
Molybdenum	N.D.	0.0017	0.0100	mg/l	100		85-115		
Sodium	N.D.	0.167	1.00	mg/l	103		85-115		
Vanadium	N.D.	0.0014	0.0050	mg/l	103		85-115		
Batch number: 152247050004A	Sample number(s): 8001015-8001016,8001024,8001026								
Aluminum	N.D.	0.0260	0.100	mg/l	102		85-115		
Antimony	N.D.	0.00033	0.0010	mg/l	106		85-115		
Arsenic	N.D.	0.00040	0.0020	mg/l	103		85-115		
Beryllium	N.D.	0.00007 1	0.00050	mg/l	105		85-115		
Cadmium	N.D.	0.00023	0.00050	mg/l	99		85-115		
Chromium	N.D.	0.00070	0.0020	mg/l	106		85-115		
Copper	N.D.	0.00040	0.0020	mg/l	104		85-115		
Iron	N.D.	0.0230	0.100	mg/l	103		85-115		
Lead	N.D.	0.00013	0.0010	mg/l	102		85-115		
Magnesium	N.D.	0.0170	0.100	mg/l	104		85-115		
Nickel	N.D.	0.00094	0.0020	mg/l	105		85-115		
Potassium	N.D.	0.0877	0.200	mg/l	105		85-115		
Silver	N.D.	0.00011	0.00050	mg/l	102		85-115		
Thallium	N.D.	0.00015	0.00050	mg/l	104		85-115		
Zinc	N.D.	0.0074	0.0150	mg/l	105		85-115		
Batch number: 152247050004B	Sample number(s): 8001015-8001016,8001024,8001026								
Selenium	N.D.	0.00050	0.0020	mg/l	108		85-115		
Batch number: 152255714002	Sample number(s): 8001017-8001020								
Mercury	N.D.	0.00005 0	0.00020	mg/l	108		85-115		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1583712
Reported: 09/04/2015 14:26

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 152255716002	Sample number(s): 8001017-8001020								
Barium	N.D.	0.00030	0.0050	mg/l	101		85-115		
Boron	N.D.	0.0083	0.0500	mg/l	96		85-115		
Calcium	N.D.	0.0333	0.200	mg/l	105		85-115		
Cobalt	N.D.	0.00090	0.0050	mg/l	106		85-115		
Lithium	N.D.	0.0080	0.0200	mg/l	100		85-115		
Magnesium	N.D.	0.0167	0.100	mg/l	102		85-115		
Manganese	N.D.	0.00080	0.0050	mg/l	103		85-115		
Molybdenum	N.D.	0.0017	0.0100	mg/l	102		85-115		
Sodium	N.D.	0.167	1.00	mg/l	100		85-115		
Vanadium	N.D.	0.0014	0.0050	mg/l	101		85-115		
Batch number: 152257050002A	Sample number(s): 8001017-8001020								
Aluminum	N.D.	0.0260	0.100	mg/l	99		85-115		
Antimony	N.D.	0.00033	0.0010	mg/l	103		85-115		
Arsenic	N.D.	0.00040	0.0020	mg/l	105		85-115		
Beryllium	N.D.	0.00007	0.00050	mg/l	101		85-115		
		1							
Cadmium	N.D.	0.00023	0.00050	mg/l	97		85-115		
Chromium	N.D.	0.00070	0.0020	mg/l	100		85-115		
Copper	N.D.	0.00040	0.0020	mg/l	104		85-115		
Iron	N.D.	0.0230	0.100	mg/l	101		85-115		
Lead	N.D.	0.00013	0.0010	mg/l	100		85-115		
Magnesium	N.D.	0.0170	0.100	mg/l	99		85-115		
Nickel	N.D.	0.00094	0.0020	mg/l	106		85-115		
Potassium	N.D.	0.0877	0.200	mg/l	98		85-115		
Silver	N.D.	0.00011	0.00050	mg/l	103		85-115		
Thallium	N.D.	0.00015	0.00050	mg/l	103		85-115		
Zinc	N.D.	0.0074	0.0150	mg/l	103		85-115		
Batch number: 152257050002B	Sample number(s): 8001017-8001020								
Selenium	N.D.	0.00050	0.0020	mg/l	101		85-115		
Batch number: 15226807901A	Sample number(s): 8001015-8001019,8001024,8001026								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	85	80	78-114	5	11

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: Z152242AA	Sample number(s): 8001015-8001019,8001021-8001026 UNSPK: 8001017								
Benzene	100	101	72-134	1	30				
t-Butyl alcohol	101	101	67-119	0	30				
1,2-Dibromoethane	101	102	77-116	1	30				
1,2-Dichloroethane	88	88	63-142	0	30				
Ethylbenzene	100	101	71-134	1	30				
Methyl Tertiary Butyl Ether	92	92	72-126	0	30				
Toluene	98	101	80-125	3	30				
Xylene (Total)	105	104	79-125	1	30				

*- Outside of specification
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(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: GeoSyntec Consultants Group Number: 1583712
Reported: 09/04/2015 14:26

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: 15224WAK026	Sample number(s): 8001015-8001019,8001024,8001026 UNSPK: 8001017								
Acenaphthene	81	55*	67-126	9	30				
Acenaphthylene	77	65*	67-120	13	30				
Anthracene	82	77	72-128	6	30				
Benzo(a)anthracene	94	102	76-119	7	30				
Benzo(a)pyrene	98	101	70-120	2	30				
Benzo(b)fluoranthene	103	110	76-132	5	30				
Benzo(e)pyrene	85	89	75-117	4	30				
Benzo(g,h,i)perylene	101	106	58-129	4	30				
Benzo(k)fluoranthene	94	95	69-126	0	30				
Biphenyl	70 (2)	99 (2)	74-101	4	30				
Chrysene	78	84	76-121	7	30				
Dibenz(a,h)anthracene	109	116	47-136	5	30				
Dibenzofuran	125	97	70-130	16	30				
Dibenzothiophene	84	73*	76-111	10	30				
Fluoranthene	91	85	76-121	7	30				
Fluorene	99	49*	71-124	14	30				
Indeno(1,2,3-cd)pyrene	121	126	56-129	3	30				
1-Methylnaphthalene	-65 (2)	-36 (2)	65-122	3	30				
2-Methylnaphthalene	77	82	59-124	4	30				
Naphthalene	69	78	60-122	3	30				
Perylene	103	106	61-123	2	30				
Phenanthrene	103	85	75-121	9	30				
Pyrene	76	82	63-122	6	30				
Batch number: 15226A20A	Sample number(s): 8001015-8001019,8001024,8001026 UNSPK: 8001017								
TPH-GRO water C6-C10	106	113	80-129	6	30				
Batch number: 152240024A	Sample number(s): 8001015-8001019,8001024,8001026 UNSPK: 8001017								
PCB-1016	83	83	58-119	1	30				
PCB-1260	83	86	44-131	4	30				
Batch number: 152245714001	Sample number(s): 8001015-8001016,8001024,8001026 UNSPK: P001194 BKG: P001194								
Mercury	103		80-120			N.D.	N.D.	0 (1)	20
Batch number: 152245716003	Sample number(s): 8001015-8001016 UNSPK: P000691 BKG: P000691								
Barium	99		70-130			0.0557	0.0546	2	20
Boron	96		70-130			0.0409 J	0.0386 J	6 (1)	20
Calcium	74 (2)		70-130			28.4	28.0	1	20
Cobalt	101		70-130			0.0016 J	0.0016 J	1 (1)	20
Lithium	100		70-130			N.D.	N.D.	0 (1)	20
Magnesium	88		70-130			5.65	5.58	1	20
Manganese	100		70-130			0.0134	0.0133	1 (1)	20
Molybdenum	100		70-130			0.0040 J	0.0021 J	64* (1)	20
Sodium	92		70-130			19.9	19.7	1	20
Vanadium	254*		70-130			0.0027 J	0.0023 J	15 (1)	20
Batch number: 152245716004	Sample number(s): 8001024,8001026 UNSPK: P001565 BKG: P001565								
Barium	95		70-130			0.211	0.210	0	20
Boron	98		70-130			0.371	0.372	0	20
Calcium	426 (2)		70-130			347	349	0	20

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Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1583712
Reported: 09/04/2015 14:26

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
Cobalt	98		70-130			0.0037 J	0.0039 J	5 (1)	20
Lithium	101		70-130			0.0408	0.0423	4 (1)	20
Magnesium	112		70-130			4.79	4.81	0	20
Manganese	98		70-130			0.0646	0.0644	0	20
Molybdenum	103		70-130			0.0175	0.0118	38* (1)	20
Sodium	328 (2)		70-130			308	323	5	20
Vanadium	271*		70-130			N.D.	N.D.	0 (1)	20
Batch number: 152247050004A	Sample number(s): 8001015-8001016,8001024,8001026 UNSPK: P999967 BKG: P999967								
Aluminum	99		70-130			0.649	0.531	20	20
Antimony	111		70-130			N.D.	N.D.	0 (1)	20
Arsenic	109		70-130			0.0015 J	0.0016 J	1 (1)	20
Beryllium	104		70-130			N.D.	N.D.	0 (1)	20
Cadmium	102		70-130			N.D.	N.D.	0 (1)	20
Chromium	106		70-130			N.D.	N.D.	0 (1)	20
Copper	104		70-130			0.0071	0.0067	6 (1)	20
Iron	104		70-130			0.626	0.614	2	20
Lead	101		70-130			0.00075 J	0.00074 J	0 (1)	20
Magnesium	96		70-130			5.93	5.80	2	20
Nickel	103		70-130			N.D.	N.D.	0 (1)	20
Potassium	102		70-130			1.87	1.79	4	20
Silver	101		70-130			N.D.	N.D.	0 (1)	20
Thallium	105		70-130			N.D.	N.D.	0 (1)	20
Zinc	102		70-130			N.D.	N.D.	0 (1)	20
Batch number: 152247050004B	Sample number(s): 8001015-8001016,8001024,8001026 UNSPK: P999967 BKG: P999967								
Selenium	103		70-130			N.D.	N.D.	0 (1)	20
Batch number: 152255714002	Sample number(s): 8001017-8001020 UNSPK: 8001017 BKG: 8001017								
Mercury	102	100	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 152255716002	Sample number(s): 8001017-8001020 UNSPK: 8001017 BKG: 8001017								
Barium	100	99	70-130	1	20	0.0882	0.0888	1	20
Boron	99	97	70-130	1	20	0.127	0.127	0 (1)	20
Calcium	107 (2)	150 (2)	70-130	1	20	149	149	1	20
Cobalt	105	102	70-130	2	20	0.0121	0.0124	3 (1)	20
Lithium	108	105	70-130	2	20	0.0284	0.0261	9 (1)	20
Magnesium	101 (2)	99 (2)	70-130	0	20	10.7	10.7	1	20
Manganese	80 (2)	79 (2)	70-130	0	20	2.73	2.73	0	20
Molybdenum	104	101	70-130	2	20	0.0059 J	N.D.	200* (1)	20
Sodium	110	109	70-130	0	20	39.2	39.4	0	20
Vanadium	259*	252*	70-130	3	20	N.D.	N.D.	0 (1)	20
Batch number: 152257050002A	Sample number(s): 8001017-8001020 UNSPK: 8001017 BKG: 8001017								
Aluminum	99	97	70-130	2	20	0.0285 J	0.0358 J	23* (1)	20
Antimony	102	114	70-130	11	20	N.D.	N.D.	0 (1)	20
Arsenic	109	111	70-130	1	20	0.0043	0.0049	13 (1)	20
Beryllium	101	96	70-130	6	20	N.D.	N.D.	0 (1)	20
Cadmium	101	104	70-130	3	20	N.D.	N.D.	0 (1)	20
Chromium	101	102	70-130	2	20	N.D.	N.D.	0 (1)	20
Copper	100	100	70-130	0	20	0.00087 J	0.00080 J	8 (1)	20
Iron	-133	133 (2)	70-130	4	20	73.2	80.7	10	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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: GeoSyntec Consultants Group Number: 1583712
Reported: 09/04/2015 14:26

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 (2)	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	104	101	70-130	3	20	0.0019	0.0019	3 (1)	20
Magnesium	99 (2)	113 (2)	70-130	2	20	10.1	10.8	6	20
Nickel	103	104	70-130	1	20	0.0076	0.0081	7 (1)	20
Potassium	96	101	70-130	2	20	14.7	15.4	4	20
Silver	104	102	70-130	1	20	N.D.	N.D.	0 (1)	20
Thallium	106	100	70-130	5	20	N.D.	N.D.	0 (1)	20
Zinc	100	101	70-130	1	20	N.D.	N.D.	0 (1)	20
Batch number: 152257050002B	Sample number(s): 8001017-8001020 UNSPK: 8001017 BKG: 8001017								
Selenium	100	103	70-130	3	20	N.D.	N.D.	0 (1)	20
Batch number: 15226807901A	Sample number(s): 8001015-8001019,8001024,8001026 UNSPK: 8001017								
HEM (oil & grease)	88	87	78-114	2	29				

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: VOCs- 5ml Water by 8260B UST
Batch number: Z152242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8001015	106	103	99	97
8001016	107	102	94	94
8001017	107	103	96	97
8001018	105	101	96	98
8001019	105	101	98	99
8001021	107	104	96	92
8001022	109	104	99	91
8001023	108	104	97	91
8001024	107	104	96	91
8001025	108	105	97	91
8001026	106	102	96	93
Blank	106	101	95	91
LCS	105	102	96	99
MS	105	101	96	98
MSD	105	101	98	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 15224WAK026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
8001015	112	123	137*
8001016	123	124	129*
8001017	110	133	133*
8001018	117	123	121

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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: GeoSyntec Consultants Group Number: 1583712
Reported: 09/04/2015 14:26

Surrogate Quality Control

8001019	108	125	123
8001024	116	123	104
8001026	125	120	123
Blank	128	139	114
LCS	120	131	108
MS	117	123	121
MSD	108	125	123
Limits:	56-134	44-149	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15226A20A

	Trifluorotoluene-F
8001015	95
8001016	94
8001017	91
8001018	105
8001019	100
8001024	92
8001026	93
Blank	92
LCS	104
MS	105
MSD	100
Limits:	63-135

Analysis Name: PCBs in Water
Batch number: 152240024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8001015	84	41
8001016	67	44
8001017	77	50
8001018	76	34*
8001019	72	40
8001024	88	74
8001026	77	60
Blank	83	33*
LCS	82	40
MS	76	34*
MSD	72	40
Limits:	49-141	36-153

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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. # 9811 Group # 1583712 Sample # 8001015-26

Client: Geosyntec Consultants																									
Project Name/#: NRG PRGS		Site ID #:																							
Project Manager: Mark Johnson		P.O. #:																							
Sampler: Lindsay Keeney		PWSID #:																							
Phone #: (410) 381-4333		Quote #:																							
State where sample(s) were collected: Virginia																									
						Matrix				Analyses Requested															
										Preservation Codes															
										H		H		B											
Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil / Sediment	Water: Potable / Ground / NPDES / Surface	Other:	Total # of Containers	TPH-GRO (8015M)	TPH-DRO (8015M)	VOCs (8260) see list	PAHs (8270 SIM) see list	Oil and Grease (1664A)	TAL Metals (6010/7470A)	Hardness (SM 2340A)	PCBs (8082A)			Remarks						
TW-04	8-6-15	1300	X			X		16	X		X	X	X	X	X	X			Cooler 1						
TW-05		1500	X			X		16	X		X	X	X	X	X	X			Cooler 2						
TW-06		1745	X			X		16	X		X	X	X	X	X	X			Cooler 3						
TB1-8615		1000	X					3			X								Cooler 1						
TB2-8615		1400	X					3			X								Cooler 2						
TB3-8615		1800	X					3			X								Cooler 3						
RINSE BLANK		1900	X					16	X		X	X	X	X	X	X			Cooler 4						
TB4-8615		1830	X					3			X								Cooler 4						
MS/MSD		1830	X			X		16	X		X	X	X	X	X	X			Cooler 3						
TW-DUP		1530	X			X		16	X		X	X	X	X	X	X			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: mjohnson@geosyntec.com

Phone: (410) 381-4333

Data Package Options (please check if required)

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

Type III (Reduced non-CLP) ☑ CT RCP ☐

Type IV (CLP SOW) ☐ TX TRRP-13 ☐

Type VI (Raw Data Only) ☐

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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8-6-15	2200	Denise Woodring	8-7-15	0800
Denise Woodring	8-7-15	12:00	[signature]	8/7/15	12:00
[signature]	8/7/15	18:15			
			[signature]	8/7/15	1815

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.9-3.5 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 94861

Group Number(s): 1583712

Client: Geosyntec

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/07/2015 18:15
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:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Katherine Metzger (2241) at 20:01 on 08/07/2015

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	3.5	DT	Wet	Y	Loose	N
2	DT121	2.5	DT	Wet	Y	Loose	N
3	DT121	1.9	DT	Wet	Y	Loose	N
4	DT121	4.2	DT	Wet	Y	Loose	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
TW-04	14	16	
TW-05	14	16	
TW-06	14	16	
RINSE BLANK	14	16	
MS/MSD	14	16	
TW-DUP	14	16	

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Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.cor

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

August 21, 2015

Project: NRG PRGS

Submittal Date: 08/07/2015
Group Number: 1583716
PO Number: NRG PRGS
Release Number: 0402925
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-04 Grab Groundwater	8001049
TW-05 Grab Groundwater	8001050
TW-06 Grab Groundwater	8001051
TW-06 MS Grab Groundwater	8001052
TW-06 MSD Grab Groundwater	8001053
TW-DUP Grab Groundwater	8001054
Rinse Blank Grab Water	8001055

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

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: TW-04 Grab Groundwater
NRG PRGS

LL Sample # WW 8001049
LL Group # 1583716
Account # 08390

Project Name: NRG PRGS

Collected: 08/06/2015 13:00 by LK

Submitted: 08/07/2015 18:15
Reported: 08/21/2015 12:40

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

NRGT4

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.	1,000	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	152270014A	08/18/2015 21:19	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152270014A	08/17/2015 09:00	Maria Davenport	1

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Analysis Report

Sample Description: TW-05 Grab Groundwater
NRG PRGS

LL Sample # WW 8001050
LL Group # 1583716
Account # 08390

Project Name: NRG PRGS

Collected: 08/06/2015 15:00 by LK

Submitted: 08/07/2015 18:15
Reported: 08/21/2015 12:40

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

NRGT5

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	3,000	60	20
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	790	45	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	388	30.0	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	152260019A	08/14/2015 18:10	Kristen N Brandt	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	152270014A	08/18/2015 21:43	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152270014A	08/17/2015 09:00	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	15227987122A	08/16/2015 10:15	Clinton M Wilson	100

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Analysis Report

Sample Description: TW-06 Grab Groundwater
NRG PRGS

LL Sample # WW 8001051
LL Group # 1583716
Account # 08390

Project Name: NRG PRGS

Collected: 08/06/2015 17:45 by LK

Submitted: 08/07/2015 18:15
Reported: 08/21/2015 12:40

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

NRGT6

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.	1,400	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
12858	DRO micro-ext 8015B	SW-846 8015B	1	152290009A	08/18/2015 12:13	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152290009A	08/17/2015 23:00	David V Hershey Jr	1

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Analysis Report

Sample Description: TW-06 MS Grab Groundwater
NRG PRGS

LL Sample # WW 8001052
LL Group # 1583716
Account # 08390

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 08/21/2015 12:40

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

NRGT6

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.	2,900	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	152290009A	08/18/2015 12:37	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152290009A	08/17/2015 23:00	David V Hershey Jr	1

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Analysis Report

Sample Description: TW-06 MSD Grab Groundwater
NRG PRGS

LL Sample # WW 8001053
LL Group # 1583716
Account # 08390

Project Name: NRG PRGS

Collected: 08/06/2015 18:30 by LK

Submitted: 08/07/2015 18:15
Reported: 08/21/2015 12:40

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

NRGT6

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.	3,200	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	152290009A	08/18/2015 13:00	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152290009A	08/17/2015 23:00	David V Hershey Jr	1

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Analysis Report

Sample Description: TW-DUP Grab Groundwater
NRG PRGS

LL Sample # WW 8001054
LL Group # 1583716
Account # 08390

Project Name: NRG PRGS

Collected: 08/06/2015 15:30 by LK

Submitted: 08/07/2015 18:15
Reported: 08/21/2015 12:40

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

NRGTD

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.	810	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	152290009A	08/19/2015 02:00	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152290009A	08/17/2015 23:00	David V Hershey Jr	1

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Analysis Report

Sample Description: Rinse Blank Grab Water
NRG PRGS

LL Sample # WW 8001055
LL Group # 1583716
Account # 08390

Project Name: NRG PRGS

Collected: 08/06/2015 19:00 by LK

Submitted: 08/07/2015 18:15
Reported: 08/21/2015 12:40

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

NRGTR

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	152290009A	08/19/2015 02:24	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152290009A	08/17/2015 23:00	David V Hershey Jr	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1583716
Reported: 08/21/2015 12:40

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: 152260019A	Sample number(s): 8001050							
Methane	N.D.	3.0	ug/l	102		85-115		
Batch number: 152270014A	Sample number(s): 8001049-8001050							
DRO C10-C28	N.D.	45.	ug/l	74		69-115		
Batch number: 152290009A	Sample number(s): 8001051-8001055							
DRO C10-C28	N.D.	45.	ug/l	69		69-115		
Batch number: 15227987122A	Sample number(s): 8001050							
Sulfate	N.D.	0.30	mg/l	98	97	90-110	1	20

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: 152260019A	Sample number(s): 8001050 UNSPK: P002318								
Methane	101	103	46-129	2	20				
Batch number: 152270014A	Sample number(s): 8001049-8001050 UNSPK: P999769								
DRO C10-C28	67	67	47-129	1	20				
Batch number: 152290009A	Sample number(s): 8001051-8001055 UNSPK: 8001051								
DRO C10-C28	54	65	47-129	9	20				
Batch number: 15227987122A	Sample number(s): 8001050 UNSPK: P001132 BKG: P001132								
Sulfate	95		90-110			19.6	19.4	1 (1)	15

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: Methane
Batch number: 152260019A

*- 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: 1583716
Reported: 08/21/2015 12:40

Surrogate Quality Control

	Propene
8001050	95
Blank	91
LCS	93
MS	86
MSD	89
Limits:	47-116

Analysis Name: DRO micro-ext 8015B
Batch number: 152270014A

	Orthoterphenyl
8001049	106
8001050	102
Blank	101
LCS	93
MS	89
MSD	92
Limits:	42-160

Analysis Name: DRO micro-ext 8015B
Batch number: 152290009A

	Orthoterphenyl
8001051	114
8001052	91
8001053	85
8001054	98
8001055	100
Blank	112
LCS	105
MS	91
MSD	85
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.

3 2

ORIGINAL

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1583716 Sample # 8001049-55

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Tony Christoff	P.O. #: 0402925
Sampler: Lindsay Keeney	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	Soil	Sediment	Water (Ground / Potable / Surface / NPDES)	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B)	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
Preservation Codes										H	None	S	H	None	N	H	
TW-04	8-6-15	1300	x				x		2	x							Cooler 1
TW-05	↓	1500	x				x		11	x	~~x~~	~~x~~	~~x~~*	x	~~x~~*	x	Cooler 2
TW-06		1745	x				x		2	x							Cooler 3
TW-DUP		1530	x				x		11	x	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~	~~x~~*	Cooler 2
MS/MSD (TW-06) PER L. KEENEY		1830	x				x		2	x							Cooler 3
Rinse Blank KNP 8/12/15		1900	x						2	x							Cooler 4
																	*ANALYSES PER L. KEENEY. KNP 8/12/15

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]	8-6-15	2200	Denise Woodring	8-7-15	0800
Denise Woodring	8-7-15	12:00	[signature]	8/7/15	12:00
[signature]	8/7/15	18:15			
			[signature]	8/7/15	1815

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.9-3.5 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 94860

Group Number(s): 1583716

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/07/2015 18:15
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:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Katherine Metzger (2241) at 19:59 on 08/07/2015

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	3.5	DT	Wet	Y	Loose	N
2	DT121	2.5	DT	Wet	Y	Loose	N
3	DT121	1.9	DT	Wet	Y	Loose	N
4	DT121	4.2	DT	Wet	Y	Loose	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
TW-05	4	11	Only received 2 HCl vials and 2 unpreserved vials.
TW-DUP	4	11	Only received 2 HCl vials and 2 unpreserved vials.
TW-04	4	2	Received 2 HCl vials and 2 unpreserved vials.
TW-06	4	2	Received 2 HCl vials and 2 unpreserved vials.
MS/MSD	4	2	Received 2 HCl vials and 2 unpreserved vials.
RINSE BLANK	4	2	Received 2 HCl vials and 2 unpreserved vials.

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

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

August 24, 2015

Project: NRG PRGS

Submittal Date: 08/12/2015
Group Number: 1584066
PO Number: NRG PRGS
Release Number: 0402925
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-14 Grab Groundwater	8002892

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

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8002892
LL Group # 1584066
Account # 08390

Project Name: NRG PRGS

Collected: 08/11/2015 12:00

Submitted: 08/12/2015 09:20
Reported: 08/24/2015 12:32

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

TW-14

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.	3,700	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	152300019A	08/20/2015 12:50	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	152300019A	08/19/2015 09:00	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc. Group Number: 1584066
Reported: 08/24/2015 12:32

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: 152300019A	Sample number(s): 8002892							
DRO C10-C28	N.D.	45.	ug/l	80	72	69-115	8	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: 152300019A

	Orthoterphenyl
8002892	71
Blank	96
LCS	93
LCSD	94
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 # 1584066 Sample # ~~7~~ 8002892 (8/12/15)

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Tony Christoff	P.O. #: 0402925
Sampler:	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	Sediment	Soil	Ground	Surface	Potable	NPDES	Water	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) H	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-14	8/11/15	1200*	X						X		X			X							* TIME PER SAMPLE CONTAINERS KNP 8/14/15

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
Matthew Ridgway	8/11	1252			
			Received by:	8/12/15	920

Relinquished by Commercial Carrier:

UPS _____ FedEx X Other _____

Temperature upon receipt 2.5 °C

7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 96037

Group Number(s): 1584066

Client: GES

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	08/12/2015 9:20
Number of Packages:	1	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:	No	Sample Date/Times match COC:	No
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 Wesley Miller (2308) at 13:57 on 08/12/2015

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	8013596-IR	2.5	IR	Wet	Y	Loose	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
TW-14	8/11/2015 12:00	No time listed on COC

2425 New Holland Pike
Lancaster, PA 17605-2425

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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.

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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:

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

August 20, 2015

Project: NRG PRGS

Submittal Date: 08/12/2015
Group Number: 1584067
PO Number: MEM1108/03
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-14 Grab Groundwater	8002893

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 GeoSyntec Consultants Attn: Mark Johnson

Respectfully Submitted,

Wendy A. Kozma
Principal Specialist Group Leader

(717) 556-7257

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8002893
LL Group # 1584067
Account # 09811

Project Name: NRG PRGS

Collected: 08/11/2015 12:00

Submitted: 08/12/2015 09:20
Reported: 08/20/2015 21:30

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

14-TW

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	1	0.5	1	1
10945	t-Butyl alcohol	75-65-0	9	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	130	20	50	1

General Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z152291AA	08/17/2015 12:53	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z152291AA	08/17/2015 12:53	Brett W Kenyon	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15226A53A	08/17/2015 23:49	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15226A53A	08/17/2015 23:49	Marie D Beamenderfer	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1584067
Reported: 08/20/2015 21:30

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**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z152291AA	Sample number(s): 8002893								
Benzene	N.D.	0.5	1	ug/l	95		78-120		
t-Butyl alcohol	N.D.	2.	5	ug/l	108		78-121		
1,2-Dibromoethane	N.D.	0.5	1	ug/l	98		80-120		
1,2-Dichloroethane	N.D.	0.5	1	ug/l	90		72-127		
Ethylbenzene	N.D.	0.5	1	ug/l	94		78-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	93		75-120		
Toluene	N.D.	0.5	1	ug/l	96		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	101		80-120		
Batch number: 15226A53A	Sample number(s): 8002893								
TPH-GRO water C6-C10	N.D.	20.	50	ug/l	104	104	80-129	0	30

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: Z152291AA	Sample number(s): 8002893 UNSPK: P003056								
Benzene	101	107	78-120	6	30				
t-Butyl alcohol	104	108	78-121	5	30				
1,2-Dibromoethane	104	106	80-120	2	30				
1,2-Dichloroethane	92	95	72-127	4	30				
Ethylbenzene	101	107	78-120	6	30				
Methyl Tertiary Butyl Ether	92	96	75-120	5	30				
Toluene	108	109	80-120	1	30				
Xylene (Total)	109	112	80-120	3	30				

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: VOCs- 5ml Water by 8260B UST
Batch number: Z152291AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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: GeoSyntec Consultants Group Number: 1584067
Reported: 08/20/2015 21:30

Surrogate Quality Control

8002893	108	101	98	99
Blank	109	105	94	88
LCS	105	103	92	96
MS	108	103	100	101
MSD	106	103	95	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO water C6-C10
Batch number: 15226A53A

	Trifluorotoluene-F
8002893	99
Blank	95
LCS	110
LCSD	111
Limits:	63-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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. # 9811 Group # 1584067 Sample # 8002893

Client: Geosyntec Consultants

Project Name/#: NRG PRGS | Site ID #:

Project Manager: Mark Johnson | P.O. #:

Sampler: | PWSID #:

Phone #: (410) 381-4333 | Quote #:

State where sample(s) were collected: Virginia

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: Sediment	Matrix: Soil	Matrix: Ground	Matrix: Potable	Matrix: Surface	Matrix: NPDES	Matrix: Water	Matrix: Other:	Total # of Containers	TPH-GRO (8015M)	VOCs (8260) see list	PAHs (8270 SIM) see list	Oil and Grease (1664A)	TAL Metals (6010/7470A)	Hardness (SM 2340A)	PCBs (8082A)	PCBs (8082A)	Remarks
Preservation Codes														H	H		B					
TW-14	8/11/15		X				✓				X			X	X							Limited water available; sampled as many parameters as possible

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: mjohnson@geosyntec.com

Phone: (410) 381-4333

Data Package Options (please check if required)

- Type I (Validation/non-CLP) ☐
- Type III (Reduced non-CLP) ☑
- Type IV (CLP SOW) ☐
- Type VI (Raw Data Only) ☐
- MA MCP ☐
- CT RCP ☐
- TX TRRP-13 ☐

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

Relinquished by:	Date	Time	Received by:	Date	Time
Matthew Ridgway	8/11	1252			
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
				8/12/15	920

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 2.5 °C

7045 0713

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Sample Administration Receipt Documentation Log

Doc Log ID: 96038

Group Number(s): 1584067

Client: Geosyntec

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	08/12/2015 9:20
Number of Packages:	1	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:	No	Sample Date/Times match COC:	No
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 Wesley Miller (2308) at 13:58 on 08/12/2015

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	8013596-IR	2.5	IR	Wet	Y	Loose	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
TW-14	8/11/2015 12:00	No time listed on COC

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:

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

August 27, 2015

Project: NRG PRGS

Submittal Date: 08/14/2015
Group Number: 1585052
PO Number: MEM1108/03
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-14 Grab Groundwater	8007861
TB1-81315 Water	8007862
TW-14 Grab Groundwater	8007863

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 GeoSyntec Consultants Attn: Mark Johnson

Respectfully Submitted,

Wendy A. Kozma
Principal Specialist Group Leader

(717) 556-7257

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8007861
LL Group # 1585052
Account # 09811

Project Name: NRG PRGS

Collected: 08/13/2015 09:25 by JP

Submitted: 08/14/2015 18:20
Reported: 08/27/2015 14:42

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

14TW-

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	1		0.5	1	1
10945	t-Butyl alcohol	75-65-0	8		2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10945	Toluene	108-88-3	N.D.		0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.		0.08	0.2	1
10262	Acenaphthylene	208-96-8	4		0.08	0.2	1
10262	Anthracene	120-12-7	N.D.		0.08	0.2	1
10262	Benzo(a)anthracene	56-55-3	N.D.		0.08	0.2	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.08	0.2	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.		0.08	0.2	1
10262	Benzo(e)pyrene	192-97-2	N.D.		0.08	0.2	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.		0.08	0.2	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.		0.08	0.2	1
10262	Biphenyl	92-52-4	0.09	J	0.08	0.2	1
10262	Chrysene	218-01-9	N.D.		0.08	0.2	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.08	0.2	1
10262	Dibenzofuran	132-64-9	N.D.		0.08	0.2	1
10262	Dibenzothiophene	132-65-0	N.D.		0.08	0.2	1
10262	Fluoranthene	206-44-0	N.D.		0.08	0.2	1
10262	Fluorene	86-73-7	N.D.		0.08	0.2	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.08	0.2	1
10262	1-Methylnaphthalene	90-12-0	0.2	J	0.08	0.2	1
10262	2-Methylnaphthalene	91-57-6	0.4		0.08	0.2	1
10262	Naphthalene	91-20-3	N.D.		0.08	0.2	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.08	0.2	1
10262	Perylene	198-55-0	N.D.		0.08	0.2	1
10262	Phenanthrene	85-01-8	0.09	J	0.08	0.2	1
10262	Pyrene	129-00-0	N.D.		0.08	0.2	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	
10227	PCB-1016	12674-11-2	N.D.		0.084	0.42	1
10227	PCB-1221	11104-28-2	N.D.		0.084	0.42	1
10227	PCB-1232	11141-16-5	N.D.		0.17	0.42	1
10227	PCB-1242	53469-21-9	N.D.		0.084	0.42	1
10227	PCB-1248	12672-29-6	N.D.		0.084	0.42	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8007861
LL Group # 1585052
Account # 09811

Project Name: NRG PRGS

Collected: 08/13/2015 09:25 by JP

Submitted: 08/14/2015 18:20
Reported: 08/27/2015 14:42

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

14TW-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1254	11097-69-1	N.D.	0.084	0.42	1
10227	PCB-1260	11096-82-5	N.D.	0.13	0.42	1
Metals	**EPA 200.7 rev 4.4**		**mg/l**	**mg/l**	**mg/l**	
07046	Barium	7440-39-3	0.275	0.00030	0.0050	1
08014	Boron	7440-42-8	0.232	0.0083	0.0500	1
01750	Calcium	7440-70-2	129	0.0333	0.200	1
07052	Cobalt	7440-48-4	0.0202	0.00090	0.0050	1
01756	Lithium	7439-93-2	0.0136 J	0.0080	0.0200	1
01757	Magnesium	7439-95-4	32.3	0.0167	0.100	1
07058	Manganese	7439-96-5	2.75	0.00080	0.0050	1
07060	Molybdenum	7439-98-7	0.0019 J	0.0017	0.0100	1
01767	Sodium	7440-23-5	37.1	0.167	1.00	1
07071	Vanadium	7440-62-2	0.0383	0.0014	0.0050	1
	EPA 200.8 rev 5.4		**mg/l**	**mg/l**	**mg/l**	
06023	Aluminum	7429-90-5	18.9	0.0260	0.100	1
06024	Antimony	7440-36-0	0.00049 J	0.00033	0.0010	1
06025	Arsenic	7440-38-2	0.0149	0.00040	0.0020	1
06027	Beryllium	7440-41-7	0.0011	0.000071	0.00050	1
06028	Cadmium	7440-43-9	0.00031 J	0.00023	0.00050	1
06031	Chromium	7440-47-3	0.0259	0.00070	0.0020	1
06033	Copper	7440-50-8	0.0438	0.00040	0.0020	1
06034	Iron	7439-89-6	38.6	0.0230	0.100	1
06035	Lead	7439-92-1	0.0458	0.00013	0.0010	1
06036	Magnesium	7439-95-4	31.4	0.0170	0.100	1
06039	Nickel	7440-02-0	0.0372	0.00094	0.0020	1
06040	Potassium	7440-09-7	6.30	0.0877	0.200	1
06041	Selenium	7782-49-2	0.0011 J	0.00050	0.0020	1
06042	Silver	7440-22-4	N.D.	0.00011	0.00050	1
06045	Thallium	7440-28-0	0.00030 J	0.00015	0.00050	1
06049	Zinc	7440-66-6	0.184	0.0074	0.0150	1
	EPA 245.1 rev 3		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00015 J	0.000050	0.00020	1
	SM 2340 B-1997		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	456	0.033	0.20	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

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8007861
LL Group # 1585052
Account # 09811

Project Name: NRG PRGS

Collected: 08/13/2015 09:25 by JP

Submitted: 08/14/2015 18:20
Reported: 08/27/2015 14:42

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

14TW-

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152311AA	08/20/2015	00:01	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152311AA	08/20/2015	00:01	Daniel H Heller	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	15227WAE026	08/19/2015	13:45	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	15227WAE026	08/16/2015	09:00	David S Schrum	1
10227	PCBs in Water	SW-846 8082	1	152320011A	08/21/2015	13:57	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	152320011A	08/20/2015	20:00	Nicholas W Shroyer	1
07046	Barium	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
08014	Boron	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
01750	Calcium	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
07052	Cobalt	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
01756	Lithium	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
01757	Magnesium	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
07058	Manganese	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
07060	Molybdenum	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
01767	Sodium	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
07071	Vanadium	EPA 200.7 rev 4.4	1	152295716004	08/19/2015	09:08	Eric L Eby	1
06023	Aluminum	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06024	Antimony	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06025	Arsenic	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06027	Beryllium	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06028	Cadmium	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06031	Chromium	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06033	Copper	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06034	Iron	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06035	Lead	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06036	Magnesium	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06039	Nickel	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06040	Potassium	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06041	Selenium	EPA 200.8 rev 5.4	1	152297050004B	08/19/2015	13:06	Choon Y Tian	1
06042	Silver	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06045	Thallium	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
06049	Zinc	EPA 200.8 rev 5.4	1	152297050004A	08/19/2015	13:06	Choon Y Tian	1
00259	Mercury	EPA 245.1 rev 3	1	152325714002	08/21/2015	12:34	Damary Valentin	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	152326256010	08/20/2015	06:44	Jennifer L Moyer	1
05716	EPA 600 ICP Digest (tot rec)	EPA 200.7 rev 4.4	1	152295716004	08/18/2015	22:30	Annamaria Kuhns	1
07050	ICP/MS EPA-600 Digest	EPA 200.8 rev 5.4	1	152297050004	08/18/2015	22:30	Annamaria Kuhns	1
05714	PW/WW Hg Digest	EPA 245.1 rev 3	1	152325714002	08/21/2015	07:10	James L Mertz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB1-81315 Water
NRG PRGS

LL Sample # WW 8007862
LL Group # 1585052
Account # 09811

Project Name: NRG PRGS

Collected: 08/13/2015

Submitted: 08/14/2015 18:20
Reported: 08/27/2015 14:42

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

TW14T

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	5	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	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	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	D152311AA	08/19/2015 16:14	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D152311AA	08/19/2015 16:14	Daniel H Heller	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8007863
LL Group # 1585052
Account # 09811

Project Name: NRG PRGS

Collected: 08/13/2015 14:00 by JP

Submitted: 08/14/2015 18:20
Reported: 08/27/2015 14:42

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

TW14-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	120	20	50	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
01635	TPH-GRO water C6-C10	SW-846 8015B	1	15231B20A	08/20/2015 15:22	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15231B20A	08/20/2015 15:22	Brett W Kenyon	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1585052
Reported: 08/27/2015 14:42

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**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D152311AA	Sample number(s): 8007861-8007862								
Benzene	N.D.	0.5	1	ug/l	100		78-120		
t-Butyl alcohol	N.D.	2.	5	ug/l	104		78-121		
1,2-Dibromoethane	N.D.	0.5	1	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	1	ug/l	108		72-127		
Ethylbenzene	N.D.	0.5	1	ug/l	99		78-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	96		75-120		
Toluene	N.D.	0.5	1	ug/l	101		80-120		
Xylene (Total)	N.D.	0.5	1	ug/l	100		80-120		
Batch number: 15227WAE026	Sample number(s): 8007861								
Acenaphthene	N.D.	0.08	0.2	ug/l	81	68	67-126	17	30
Acenaphthylene	N.D.	0.08	0.2	ug/l	85	72	67-120	17	30
Anthracene	N.D.	0.08	0.2	ug/l	80	65*	72-128	21	30
Benzo(a)anthracene	N.D.	0.08	0.2	ug/l	93	69*	76-119	29	30
Benzo(a)pyrene	N.D.	0.08	0.2	ug/l	92	61*	70-120	40*	30
Benzo(b)fluoranthene	N.D.	0.08	0.2	ug/l	102	71*	76-132	37*	30
Benzo(e)pyrene	N.D.	0.08	0.2	ug/l	81	56*	75-117	37*	30
Benzo(g,h,i)perylene	N.D.	0.08	0.2	ug/l	97	56*	58-129	53*	30
Benzo(k)fluoranthene	N.D.	0.08	0.2	ug/l	88	57*	69-126	43*	30
Biphenyl	N.D.	0.08	0.2	ug/l	90	77	74-101	16	30
Chrysene	N.D.	0.08	0.2	ug/l	79	59*	76-121	30	30
Dibenz(a,h)anthracene	N.D.	0.08	0.2	ug/l	101	57	47-136	56*	30
Dibenzofuran	N.D.	0.08	0.2	ug/l	1*	1*	70-130	18	30
Dibenzothiophene	N.D.	0.08	0.2	ug/l	80	65*	76-111	21	30
Fluoranthene	N.D.	0.08	0.2	ug/l	89	72*	76-121	21	30
Fluorene	N.D.	0.08	0.2	ug/l	87	71	71-124	19	30
Indeno(1,2,3-cd)pyrene	N.D.	0.08	0.2	ug/l	111	63	56-129	55*	30
1-Methylnaphthalene	N.D.	0.08	0.2	ug/l	84	73	65-122	14	30
2-Methylnaphthalene	N.D.	0.08	0.2	ug/l	81	71	59-124	14	30
Naphthalene	N.D.	0.08	0.2	ug/l	81	72	60-122	13	30
Naphthobenzothiophene	N.D.	0.08	0.2	ug/l	0*	0*	70-130	0	30
Perylene	N.D.	0.08	0.2	ug/l	100	69	61-123	37*	30
Phenanthrene	N.D.	0.08	0.2	ug/l	81	67*	75-121	19	30
Pyrene	N.D.	0.08	0.2	ug/l	83	66	63-122	22	30
Batch number: 15231B20A	Sample number(s): 8007863								
TPH-GRO water C6-C10	N.D.	20.	50	ug/l	92	92	80-129	0	30
Batch number: 152320011A	Sample number(s): 8007861								
PCB-1016	N.D.	0.080	0.40	ug/l	97	100	60-117	3	30
PCB-1221	N.D.	0.080	0.40	ug/l					
PCB-1232	N.D.	0.16	0.40	ug/l					
PCB-1242	N.D.	0.080	0.40	ug/l					

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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: GeoSyntec Consultants Group Number: 1585052
Reported: 08/27/2015 14:42

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	N.D.	0.080	0.40	ug/l					
PCB-1254	N.D.	0.080	0.40	ug/l					
PCB-1260	N.D.	0.12	0.40	ug/l	106	113	64-134	6	30
Batch number: 152295716004	Sample number(s): 8007861								
Barium	N.D.	0.00030	0.0050	mg/l	101		85-115		
Boron	N.D.	0.0083	0.0500	mg/l	92		85-115		
Calcium	0.0668 J	0.0333	0.200	mg/l	102		85-115		
Cobalt	N.D.	0.00090	0.0050	mg/l	103		85-115		
Lithium	N.D.	0.0080	0.0200	mg/l	96		85-115		
Magnesium	N.D.	0.0167	0.100	mg/l	99		85-115		
Manganese	N.D.	0.00080	0.0050	mg/l	100		85-115		
Molybdenum	N.D.	0.0017	0.0100	mg/l	98		85-115		
Sodium	N.D.	0.167	1.00	mg/l	99		85-115		
Vanadium	N.D.	0.0014	0.0050	mg/l	100		85-115		
Batch number: 152297050004A	Sample number(s): 8007861								
Aluminum	N.D.	0.0260	0.100	mg/l	102		85-115		
Antimony	N.D.	0.00033	0.0010	mg/l	97		85-115		
Arsenic	N.D.	0.00040	0.0020	mg/l	104		85-115		
Beryllium	N.D.	0.00007 1	0.00050	mg/l	108		85-115		
Cadmium	N.D.	0.00023	0.00050	mg/l	114		85-115		
Chromium	N.D.	0.00070	0.0020	mg/l	104		85-115		
Copper	N.D.	0.00040	0.0020	mg/l	111		85-115		
Iron	N.D.	0.0230	0.100	mg/l	110		85-115		
Lead	N.D.	0.00013	0.0010	mg/l	100		85-115		
Magnesium	N.D.	0.0170	0.100	mg/l	105		85-115		
Nickel	N.D.	0.00094	0.0020	mg/l	110		85-115		
Potassium	N.D.	0.0877	0.200	mg/l	104		85-115		
Silver	N.D.	0.00011	0.00050	mg/l	110		85-115		
Thallium	N.D.	0.00015	0.00050	mg/l	106		85-115		
Zinc	N.D.	0.0074	0.0150	mg/l	110		85-115		
Batch number: 152297050004B	Sample number(s): 8007861								
Selenium	N.D.	0.00050	0.0020	mg/l	100		85-115		
Batch number: 152325714002	Sample number(s): 8007861								
Mercury	N.D.	0.00005 0	0.00020	mg/l	109		85-115		

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: D152311AA	Sample number(s): 8007861-8007862 UNSPK: P007575								
Benzene	93	102	78-120	9	30				
t-Butyl alcohol	88	97	78-121	10	30				
1,2-Dibromoethane	90	95	80-120	6	30				
1,2-Dichloroethane	99	105	72-127	6	30				

*- Outside of specification
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(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: GeoSyntec Consultants Group Number: 1585052
Reported: 08/27/2015 14:42

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
Ethylbenzene	93	100	78-120	8	30				
Methyl Tertiary Butyl Ether	84	91	75-120	8	30				
Toluene	94	102	80-120	7	30				
Xylene (Total)	94	100	80-120	7	30				
Batch number: 152295716004	Sample number(s): 8007861 UNSPK: P007937 BKG: P007937								
Barium	98	97	70-130	0	20	0.936	0.956	2	20
Boron	92	91	70-130	0	20	0.0133 J	0.0114 J	15 (1)	20
Calcium	95 (2)	88 (2)	70-130	1	20	48.6	49.6	2	20
Cobalt	98	97	70-130	1	20	0.0027 J	0.0029 J	7 (1)	20
Lithium	97	97	70-130	1	20	0.0130 J	0.0133 J	2 (1)	20
Magnesium	137*	135*	70-130	1	20	6.05	6.30	4	20
Manganese	97	95	70-130	1	20	0.409	0.415	1	20
Molybdenum	92	92	70-130	1	20	0.0054 J	N.D.	200* (1)	20
Sodium	98	97	70-130	1	20	6.24	6.45	3	20
Vanadium	248*	245*	70-130	1	20	0.0288	0.0305	6	20
Batch number: 152297050004A	Sample number(s): 8007861 UNSPK: P007937 BKG: P007937								
Aluminum	255 (2)	260 (2)	70-130	1	20	12.2	12.2	0	20
Antimony	67*	75	70-130	11	20	0.00041 J	N.D.	200* (1)	20
Arsenic	101	105	70-130	2	20	0.0037	0.0033	12 (1)	20
Beryllium	110	107	70-130	2	20	0.0014	0.0013	3 (1)	20
Cadmium	103	96	70-130	7	20	N.D.	N.D.	0 (1)	20
Chromium	106	103	70-130	2	20	0.0104	0.0103	0	20
Copper	109	108	70-130	1	20	0.0054	0.0062	13 (1)	20
Iron	128 (2)	125 (2)	70-130	0	20	10.7	10.4	2	20
Lead	102	99	70-130	2	20	0.0091	0.0087	4	20
Magnesium	113	108	70-130	1	20	6.83	6.66	3	20
Nickel	116	113	70-130	2	20	0.0063	0.0078	21* (1)	20
Potassium	104	101	70-130	2	20	2.16	2.19	1	20
Silver	109	106	70-130	3	20	N.D.	N.D.	0 (1)	20
Thallium	107	107	70-130	0	20	N.D.	N.D.	0 (1)	20
Zinc	113	108	70-130	2	20	0.641	0.649	1	20
Batch number: 152297050004B	Sample number(s): 8007861 UNSPK: P007937 BKG: P007937								
Selenium	87	86	70-130	1	20	N.D.	N.D.	0 (1)	20
Batch number: 152325714002	Sample number(s): 8007861 UNSPK: P007937 BKG: P007937								
Mercury	123*	123*	80-120	0	20	0.000050 J	0.000052 J	3 (1)	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: VOCs- 5ml Water by 8260B UST
Batch number: D152311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8007861	103	103	99	98

*- Outside of specification
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(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: GeoSyntec Consultants Group Number: 1585052
Reported: 08/27/2015 14:42

Surrogate Quality Control

8007862	104	105	99	97
Blank	104	104	99	98
LCS	102	102	100	102
MS	101	102	99	102
MSD	101	102	99	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 15227WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
8007861	96	94	783*
Blank	111	107	99
LCS	108	104	93
LCSD	85	64	81
Limits:	56-134	44-149	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15231B20A

	Trifluorotoluene-F
8007863	95
Blank	92
LCS	98
LCSD	100
Limits:	63-135

Analysis Name: PCBs in Water
Batch number: 152320011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8007861	91	57
Blank	79	70
LCS	93	67
LCSD	97	89
Limits:	49-141	36-153

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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

6

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Acct. # 9811 Group # 1585052 Sample # 8007861-63

Client: Geosyntec Consultants	
Project Name/#: NRG PRGS	Site ID #:
Project Manager: Mark Johnson	P.O. #:
Sampler: Jeff Plummer	PWSID #:
Phone #: (410) 381-4333	Quote #:
State where sample(s) were collected: Virginia	

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	Sediment	Soil	Ground	Surface	Potable	NPDES	Water	Other:	Total # of Containers	TPH-GRO (8015M)	TPH-DRO (8015M)	VOCs (8260) see list	PAHs (8270 SIM) see list	Oil and Grease (1664A)	TAL Metals (6010/7470A)	Hardness (SM 2340A)	PCBs (8082A)			Remarks
Preservation Codes														H		H		B						
TW-14	8-13-15	0925	X								X		6			X	X		X	X	X			
TB1-81315	8-13-15	—	X								X		1			X								
TW-14	8-13-15	1400	X								X		3	X										

Matrix: Sediment ☐ Soil ☐ Ground ☑ Surface ☐ Potable ☐ NPDES ☐ Water

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: mjohnson@geosyntec.com

Phone: (410) 381-4333

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☑ CT RCP ☐
Type IV (CLP SOW) ☐ TX TRRP-13 ☐
Type VI (Raw Data Only) ☐

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

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	8-13-15	1635	Denise Woodring	8-13-15	1635
Denise Woodring	8-14-15	1525	[illegible]	8/14/15	15:25
[illegible]	8/14/15	1820			
			[illegible]	8/14/15	1820

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.0 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 97201

Group Number(s): 1585052

Client: Geosyntec Consultants

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/14/2015 18:20
Number of Packages:	1	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:	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 Jordan Woods (6698) at 20:27 on 08/14/2015

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	DT146	1.0	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.

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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:

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

August 26, 2015

Project: NRG PRGS

Submittal Date: 08/18/2015
Group Number: 1585720
PO Number: MEM1108/03
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-14 Grab Groundwater	8011662

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 GeoSyntec Consultants Attn: Mark Johnson

Respectfully Submitted,

Wendy A. Kozma
Principal Specialist Group Leader

(717) 556-7257

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8011662
LL Group # 1585720
Account # 09811

Project Name: NRG PRGS

Collected: 08/18/2015 09:30 by JP

Submitted: 08/18/2015 17:40
Reported: 08/26/2015 09:25

GeoSyntec Consultants
Suite A
10220 Old Columbia Road
Columbia MD 21046

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 1664B**		**mg/l**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.6	J	1.4	5.0	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
08079	HEM (oil & grease)	EPA 1664B	1	15237807902A	08/25/2015 17:45	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: GeoSyntec Consultants Group Number: 1585720
Reported: 08/26/2015 09:25

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**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15237807902A	Sample number(s): 8011662								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	93	89	78-114	4	11

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: 15237807902A	Sample number(s): 8011662 UNSPK: P012671								
HEM (oil & grease)	105		78-114						

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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. # 9811 Group # 1585720 Sample # 8011662

Client: Geosyntec Consultants

Project Name/#: NRG PRGS | Site ID #:

Project Manager: Mark Johnson | P.O. #:

Sampler: Jeff Plummer | PWSID #:

Phone #: (410) 381-4333 | Quote #:

State where sample(s) were collected: Virginia

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	Matrix: Sediment	Matrix: Potable Water	Matrix: Ground Water	Matrix: NPDES	Matrix: Surface Water	Other:	Total # of Containers	TPH-GRO (8015M)	VOCs (8260) see list	PAHs (8270 SIM) see list	Oil and Grease (1664A)	TAL Metals (6010/7470A)	Hardness (SM 2340A)	PCBs (8082A)	PCBs (8082A)	Remarks
Preservation Codes													H	H		H					
TW-14	8-18-15	0930	X					X				1				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: mjohnson@geosyntec.com

Phone: (410) 381-4333

Data Package Options (please check if required)

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

Type III (Reduced non-CLP) ☑ CT RCP ☐

Type IV (CLP SOW) ☐ TX TRRP-13 ☐

Type VI (Raw Data Only) ☐

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

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	8-18-15	1330	Denise Woodring	8-18-15	1330
Denise Woodring	8-18-15	14:25	[illegible]	8-18-15	14:25
[illegible]	8-18-15	1740			
			[illegible]	8/18/15	1740

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.4-0.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 98179

Group Number(s): 1585720

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/18/2015 17:40
Number of Packages:	4	Number of Projects:	2
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:	N/A
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 20:12 on 08/18/2015

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	0.5	DT	Wet	Y	Loose	N
2	DT121	0.8	DT	Wet	Y	Loose	N
3	DT121	0.5	DT	Wet	Y	Loose	N
4	DT121	0.4	DT	Wet	Y	Loose	N

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

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Explanation of Symbols and Abbreviations

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

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mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

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> greater than

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